

Duke Energy Carolinas, LLC
North Carolina Annual Fuel and Fuel Related Expense
Proposed Nuclear Capacity Factor
Billing Period September 2023 through August 2024
Docket E-7, Sub 1282

Clark Workpaper 1

	Catawba 1	Catawba 2	McGuire 1	McGuire 2	Oconee 1	Oconee 2	Oconee 3	Total
MWhs	10,026,652	9,119,788	8,799,414	9,938,344	7,338,135	6,713,739	6,883,057	58,819,128
Cost (Gross of Joint Owners)	\$ 62,355,885	\$ 50,162,610	\$ 46,520,487	\$ 54,060,516	\$ 41,917,165	\$ 34,438,133	\$ 40,707,973	\$ 330,162,771
\$/MWh	6.2190	5.5004	5.2868	5.4396	5.7122	5.1295	5.9142	
Avg \$/MWh		5.6132						
Cents per kWh		0.5613						

**Sept 2023 -
August 2024**

MDC			
CATA_UN01	Catawba	MW	1,160.0
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	<u>859.0</u>
			7,179.7

Hours In Year	8,760
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Generation GWhs			
CATA_UN01	Catawba	GWh	10,027
CATA_UN02	Catawba	GWh	9,120
MCGU_UN01	McGuire	GWh	8,799
MCGU_UN02	McGuire	GWh	9,938
OCON_UN01	Oconee	GWh	7,338
OCON_UN02	Oconee	GWh	6,714
OCON_UN03	Oconee	GWh	<u>6,883</u>
			58,819

Proposed Nuclear Capacity Factor	93.52%
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rounding differences may occur

Duke Energy Carolinas, LLC
North Carolina Annual Fuel and Fuel Related Expense
NERC 5 Year Average Nuclear Capacity Factor
Billing Period September 2023 through August 2024
Docket E-7, Sub 1282

Clark Workpaper 2

	Catawba 1	Catawba 2	McGuire 1	McGuire 2	Oconee 1	Oconee 2	Oconee 3	Total
MWhs with NERC applied	9,272,460	9,193,324	9,256,473	9,253,276	6,900,340	6,908,486	6,998,101	57,782,460
Hours	8,760	8,760	8,760	8,760	8,760	8,760	8,760	8,760
MDC	1,160.0	1,150.1	1,158.0	1,157.6	847.0	848.0	859.0	7,179.7
Capacity factor	91.25%	91.25%	91.25%	91.25%	93.00%	93.00%	93.00%	91.87%
Cost	\$ 52,048,053	\$ 51,603,849	\$ 51,958,314	\$ 51,940,367	\$ 38,732,897	\$ 38,778,626	\$ 39,281,651	\$ 324,343,758

Avg \$/MWh
Cents per kWh

5.6132

0.5613

2017-2021	Capacity Rating	NCF Rating	Weighted Average
Oconee 1	847.0	93.00	10.97%
Oconee 2	848.0	93.00	10.98%
Oconee 3	859.0	93.00	11.13%
McGuire 1	1,158.0	91.25	14.72%
McGuire 2	1,157.6	91.25	14.71%
Catawba 1	1,160.0	91.25	14.74%
Catawba 2	1,150.1	91.25	14.62%
	7,179.7		91.87%

Wtd Avg on Capacity Rating

rounding differences may occur

Duke Energy Carolinas, LLC

North Carolina Annual Fuel and Fuel Related Expense

North Carolina Generation and Purchased Power in MWhs

Billing Period September 2023 through August 2024

Docket E-7, Sub 1282

Clark Workpaper 3

<u>Resource Type</u>	<u>Sept 2023 - August 2024</u>
NUC Total (Gross)	58,819,128
COAL Total	10,320,159
Gas CT and CC total (Gross)	31,212,640
Run of River	5,600,555
Net pumped Storage	<u>(4,083,743)</u>
Total Hydro	1,516,812
Catawba Joint Owners	(14,888,880)
Lee CC Joint Owners	(878,400)
DEC owned solar	358,121
Total Generation	86,459,580
Purchases for REPS Compliance	1,438,042
Qualifying Facility Purchases - Non-REPS compliance	2,389,958
Other Purchases	164,878
Allocated Economic Purchases	1,329,474
Joint Dispatch Purchases	<u>6,466,906</u>
	11,789,258
Total Generation and Purchased Power	98,248,839
Fuel Recovered Through Intersystem Sales	(1,148,043)

rounding differences may occur

Duke Energy Carolinas, LLC
North Carolina Annual Fuel and Fuel Related Expense
Projected Fuel and Fuel Related Costs
Billing Period September 2023 through August 2024
Docket E-7, Sub 1282

Clark Workpaper 4

Resource Type	Sept 2023 - August 2024	
Nuclear Total (Gross)	\$ 330,162,771	
COAL Total	398,104,637	
Gas CT and CC total (Gross)	1,179,963,909	
Catawba Joint Owner costs	(83,614,236)	
CC Joint Owner costs	(25,697,152)	
Non-Economic Fuel Expense Recovered through Reimbursement	(3,687,381)	
Reagents and gain/loss on sale of By-Products	24,944,696	Workpaper 9
Purchases for REPS Compliance - Energy	68,790,240	
Purchases for REPS Compliance - Capacity	14,931,581	
Purchases of Qualifying Facilities - Energy	59,039,401	
Purchases of Qualifying Facilities - Capacity	12,176,644	
Other Purchases	397,088	
JDA Savings Shared	(69,598,371)	Workpaper 5
Allocated Economic Purchase cost	52,870,968	Workpaper 5
Joint Dispatch purchases	<u>206,598,811</u>	Workpaper 6
Total Purchases	<u>345,206,362</u>	
Fuel Expense recovered through intersystem sales	(57,998,825)	Workpaper 5
Total System Fuel and Fuel Related Costs	\$ 2,107,384,780	

rounding differences may occur

Duke Energy Carolinas, LLC

North Carolina Annual Fuel and Fuel Related Expense

Projected Joint Dispatch Fuel Impacts

Billing Period September 2023 through August 2024

Docket E-7, Sub 1282

Positive numbers represent costs to ratepayers, 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
9/1/2023	\$ 4,976,440	\$ 7,317,885	\$ (674,018)	\$ (305,418)	\$ (23,724,256)	\$ 23,724,256	\$ 6,910,581	\$ (6,910,581)
10/1/2023	\$ 5,904,520	\$ 6,517,440	\$ (69,203)	\$ (114,170)	\$ (15,802,316)	\$ 15,802,316	\$ 11,215,995	\$ (11,215,995)
11/1/2023	\$ 2,503,327	\$ 3,105,057	\$ (1,223,486)	\$ (674,629)	\$ (18,519,025)	\$ 18,519,025	\$ 10,008,333	\$ (10,008,333)
12/1/2023	\$ 762,505	\$ 1,041,966	\$ (5,872,462)	\$ (1,890,081)	\$ (15,722,366)	\$ 15,722,366	\$ 4,518,477	\$ (4,518,477)
1/1/2024	\$ 2,893,193	\$ 2,042,582	\$ (10,525,081)	\$ (11,843,518)	\$ (13,602,107)	\$ 13,602,107	\$ 4,544,884	\$ (4,544,884)
2/1/2024	\$ 315,449	\$ 384,533	\$ (10,078,466)	\$ (13,200,189)	\$ (6,837,056)	\$ 6,837,056	\$ 2,614,179	\$ (2,614,179)
3/1/2024	\$ 1,955,226	\$ 2,816,591	\$ (622,625)	\$ (648,265)	\$ (10,251,414)	\$ 10,251,414	\$ 1,341,892	\$ (1,341,892)
4/1/2024	\$ 3,952,712	\$ 6,000,661	\$ (639,409)	\$ (211,299)	\$ (12,097,213)	\$ 12,097,213	\$ 1,413,004	\$ (1,413,004)
5/1/2024	\$ 654,154	\$ 713,694	\$ (1,763,746)	\$ (237,095)	\$ (14,639,411)	\$ 14,639,411	\$ 6,435,252	\$ (6,435,252)
6/1/2024	\$ 4,153,979	\$ 5,991,152	\$ (1,260,436)	\$ (644,515)	\$ (21,582,339)	\$ 21,582,339	\$ 3,725,538	\$ (3,725,538)
7/1/2024	\$ 3,609,443	\$ 5,189,561	\$ (2,532,634)	\$ (1,768,613)	\$ (17,455,853)	\$ 17,455,853	\$ 14,114,687	\$ (14,114,687)
8/1/2024	\$ 8,014,976	\$ 11,749,845	\$ (1,306,118)	\$ (1,592,378)	\$ (11,496,801)	\$ 11,496,801	\$ 2,755,548	\$ (2,755,548)

Sept 23 - Aug 24

\$ 52,870,968

\$ (33,130,170)

\$ 181,730,155

\$ (69,598,371)

\$ 206,598,811 Workpaper 6 - Transfer - Purchases

\$ (24,868,655) Workpaper 6 - Transfer - Sales\$ 181,730,155 Sept 22-Aug 23 Net Fuel Transfer Payment

\$ (24,868,655) Workpaper 6 - Transfer - Sales

\$ (33,130,170) Sept 23-Aug 24 Economic Sales Cost\$ (57,998,825) Total Fuel expense recovered through intersystem sales

rounding differences may occur

Duke Energy Carolinas, LLC
North Carolina Annual Fuel and Fuel Related Expense
Projected Merger Payments
Billing Period September 2023 through August 2024
Docket E-7, Sub 1282

Clark Workpaper 6

	Transfer Projection		Purchase Allocation Delta		Purchase		Sale		Sale		Purchase	
	PECtoDEC	DECtoPEC	PEC	DEC	Adjusted Transfer		Fossil Gen Cost		Pre-Net Payments		PECtoDEC	DECtoPEC
					PECtoDEC	DECtoPEC	PEC	DEC	PEC	DEC		
9/1/2023	606,726	20,805	50,315	(50,315)	657,041	20,805	\$ 36.94	\$ 26.37	\$ 548,621.47	\$ 24,272,877.11		
10/1/2023	619,535	32,076	95,370	(95,370)	714,904	32,076	\$ 28.43	\$ 141.02	\$ 4,523,430.43	\$ 20,325,746.34		
11/1/2023	744,209	8,765	33,471	(33,471)	777,680	8,765	\$ 25.47	\$ 147.32	\$ 1,291,175.66	\$ 19,810,200.86		
12/1/2023	558,288	34,315	(6,026)	6,026	558,288	40,342	\$ 33.48	\$ 73.65	\$ 2,971,154.85	\$ 18,693,520.46		
1/1/2024	364,075	36,080	10,140	(10,140)	374,215	36,080	\$ 40.82	\$ 46.37	\$ 1,673,120.48	\$ 15,275,227.51		
2/1/2024	261,473	47,009	(1,221)	1,221	261,473	48,231	\$ 36.72	\$ 57.30	\$ 2,763,602.82	\$ 9,600,659.02		
3/1/2024	395,731	100,349	(4,372)	4,372	395,731	104,721	\$ 34.26	\$ 31.57	\$ 3,306,397.03	\$ 13,557,810.67		
4/1/2024	400,208	82,708	30,753	(30,753)	430,962	82,708	\$ 33.12	\$ 26.32	\$ 2,176,581.75	\$ 14,273,794.40		
5/1/2024	682,741	36,797	7,545	(7,545)	690,286	36,797	\$ 22.54	\$ 25.00	\$ 919,824.47	\$ 15,559,235.66		
6/1/2024	551,409	42,848	67,925	(67,925)	619,334	42,848	\$ 36.79	\$ 28.05	\$ 1,201,775.15	\$ 22,784,113.70		
7/1/2024	501,238	41,647	55,203	(55,203)	556,441	41,647	\$ 33.71	\$ 31.28	\$ 1,302,736.04	\$ 18,758,588.73		
8/1/2024	328,372	64,562	102,180	(102,180)	430,552	64,562	\$ 31.79	\$ 33.92	\$ 2,190,235.09	\$ 13,687,036.24		
Sept 23 - Aug 24	6,014,005	547,961	441,282	(441,282)	6,466,906	559,580			\$ 24,868,655	\$ 206,598,811		
									Net Pre-Net Payments	\$ 181,730,155		

rounding differences may occur

Duke Energy Carolinas, LLC
 North Carolina Annual Fuel and Fuel Related Expense
 Projected and Adjusted Projected Sales and Costs
 Proposed Nuclear Capacity Factor of 93.52%
 Billing Period September 2023 through August 2024
 Docket E-7, Sub 1282

Clark Workpaper 7

Fall 2022 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	23,477,265	23,477,265	
General	23,838,527	23,838,527	
Industrial	13,270,457	13,270,457	
Lighting	238,480	238,480	
NC RETAIL	60,824,730	-	60,824,729
South Carolina:			
Residential	7,223,610	136,278	7,359,888
General	5,371,691	42,584	5,414,275
Industrial	9,133,136	429	9,133,565
Lighting	51,014	-	51,014
SC RETAIL	21,779,451	179,291	21,958,742
Total Retail Sales			
Residential	30,700,876	136,278	30,837,153
General	29,210,218	42,584	29,252,802
Industrial	22,403,593	429	22,404,022
Lighting	289,494	-	289,494
Retail Sales	82,604,181	179,291	82,783,471
Wholesale	8,227,610	-	8,227,610
Projected System MWH Sales for Fuel Factor	90,831,791	179,291	91,011,082
NC as a percentage of total	66.96%	66.83%	
SC as a percentage of total	23.98%	24.13%	
Wholesale as a percentage of total	9.06%	9.04%	
	100.00%		100.00%
SC Net Metering allocation adjustment			
Total projected SC NEM MWhs		179,291	
Marginal fuel rate per MWh for SC NEM	\$ 24.52		
Fuel benefit to be directly assigned to SC Retail	\$ 4,396,215		
System Fuel Expense	\$ 2,107,384,780	Clark Exhibit 2 Schedule 1 Page 1 of 3	
Fuel benefit to be directly assigned to SC Retail	\$ 4,396,215		
Total Fuel Costs for Allocation	\$ 2,111,780,996	Clark Exhibit 2 Schedule 1 Page 3 of 3, L5	

	System	NC Retail Customers	Wholesale	South Carolina Retail
Total system fuel expense from Clark Exhibit 2 Schedule 1 Page 1	\$ 2,107,384,780			
OF and REPS Compliance Purchased Power - Capacity	\$ 27,108,225			
Other fuel costs	\$ 2,080,276,555			
SC Net Metering Fuel Allocation adjustment	\$ 4,396,215			
Jurisdictional fuel costs after adj.	\$ 2,084,672,770			
Allocation to states/classes		66.83%	9.04%	24.13%
Jurisdictional fuel costs	\$ 2,084,672,770	\$ 1,393,186,813	\$ 188,454,418	\$ 503,031,540
Direct Assignment of Fuel benefit to SC Retail	\$ (4,396,215)	\$	\$	\$ 66.68%
Total system actual fuel costs	\$ 2,080,276,555	\$ 1,393,186,813	\$ 188,454,418	\$ 498,635,324
OF and REPS Compliance Purchased Power - Capacity	\$ 27,108,225	\$ 18,076,112		
Total system fuel expense from Clark Exhibit 2 Schedule 1 Page 1	\$ 2,107,384,780	\$ 1,411,262,925		
	Exh.2, Sch. 1 page 3, Line 13			

rounding differences may occur

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Duke Energy Carolinas, LLC
 North Carolina Annual Fuel and Fuel Related Expense
 Projected and Adjusted Projected Sales and Costs
 Proposed Nuclear Capacity Factor of 93.52% and Normalized Test Period Sales
 Billing Period September 2023 through August 2024
 Docket E-7, Sub 1282

Clark Workpaper 7a

Fall 2022 Forecast
 Billed Sales Forecast - Normalized Test Period Sales
 Sales Forecast - MWhs (000)

	Test Period Sales	Customer Growth Adjustment	Weather Adjustment	Remove impact of SC DERP Net Metered generation	Normalized Test Period Sales
NC RETAIL	59,059,117	162,487	337,854	-	59,559,458
SC RETAIL	20,955,111	(8,320)	99,613	179,291	21,225,695
Wholesale	8,269,814	5,836	(306)	-	8,275,343
Normalized System MWH Sales for Fuel Factor	88,284,042	160,003	437,160	179,291	89,060,496
NC as a percentage of total	66.90%				66.88%
SC as a percentage of total	23.74%				23.83%
Wholesale as a percentage of total	9.37%				9.29%
	100.00%				100.00%
SC Net Metering allocation adjustment					
Total projected SC NEM MWhs			179,291		
Marginal fuel rate per MWh for SC NEM		\$ 24.52			
Fuel benefit to be directly assigned to SC Retail		\$ 4,396,215			
System Fuel Expense	\$ 2,032,140,076			Clark Exhibit 2 Schedule 2 Page 1 of 3	
Fuel benefit to be directly assigned to SC Retail	\$ 4,396,215				
Total Fuel Costs for Allocation	\$ 2,036,536,291			Clark Exhibit 2 Schedule 2 Page 3 of 3, LS	
Reconciliation					
Total system fuel expense from Clark Exhibit 2 Schedule 2 Page 1	\$ 2,032,140,076				
QF and REPS Compliance Purchased Power - Capacity	\$ 27,108,225				
Other fuel costs	\$ 2,005,031,851				
SC Net Metering Fuel Allocation adjustment	\$ 4,396,215				
Jurisdictional fuel costs after adj.	\$ 2,009,428,066				
Allocation to states/classes		66.88%			
Jurisdictional fuel costs			9.29%		
Direct Assignment of Fuel benefit to SC Retail				23.83%	
Total system actual fuel costs					
QF and REPS Compliance Purchased Power - Capacity	\$ 2,009,428,055	\$ 1,343,810,646	\$ 186,712,496	\$ 478,904,904	
Total system fuel expense from Clark Exhibit 2 Schedule 2 Page 1	\$ (4,396,215)		\$ -	\$ (4,396,215)	
	\$ 2,005,031,840	\$ 1,343,810,646	\$ 186,712,496	\$ 474,508,689	
	27,108,225	18,076,112			
	\$ 2,032,140,065	\$ 1,361,886,758			
			Exh. 2, Sch 2 page 3, Line 13		

rounding differences may occur

Duke Energy Carolinas, LLC
 North Carolina Annual Fuel and Fuel Related Expense
 Projected and Adjusted Projected Sales and Costs
 NERC 5 Year Average Nuclear Capacity Factor of 91.87% and Projected Period Sales
 Billing Period September 2023 through August 2024
 Docket E-7, Sub 1282

Clark Workpaper 7b

Fall 2022 Forecast
 Billed Sales Forecast
 Sales Forecast - MWhs (000)

		Remove impact of		
		Projected sales for the Billing Period	SC DERPs Net Metered generation	Adjusted Sales
North Carolina:				
	Residential	23,477,265	23,477,265	
	General	23,838,527	23,838,527	
	Industrial	13,270,457	13,270,457	
	Lighting	238,480	238,480	
	NC RETAIL	60,824,730	-	60,824,730
South Carolina:				
	Residential	7,223,610	136,278	7,359,888
	General	5,371,691	42,584	5,414,275
	Industrial	9,133,136	429	9,133,565
	Lighting	51,014	0	51,014
	SC RETAIL	21,779,451	179,291	21,958,742
Total Retail Sales				
	Residential	30,700,876	136,278	30,837,154
	General	29,210,218	42,584	29,252,802
	Industrial	22,403,593	429	22,404,022
	Lighting	289,494		289,494
	Retail Sales	82,604,181	179,291	82,783,472
	Wholesale	8,227,610	-	8,227,610
	Projected System MWh Sales for Fuel Factor	90,831,791	179,291	91,011,082
	NC as a percentage of total	66.96%	66.83%	
	SC as a percentage of total	23.98%	24.13%	
	Wholesale as a percentage of total	9.06%	9.04%	
		100.00%		100.00%
	SC Net Metering allocation adjustment			
	Total projected SC NEM MWhs		179,291	
	Marginal fuel rate per Mwh for SC NEM	\$ 24.52		
	Fuel benefit to be directly assigned to SC Retail	\$ 4,396,215		
	System Fuel Expense	\$ 2,132,906,715	Clark Exhibit 2 Schedule 3 Page 1 of 3	
	Fuel benefit to be directly assigned to SC Retail	\$ 4,396,215		
	Total Fuel Costs for Allocation	\$ 2,137,302,931	Clark Exhibit 2 Schedule 3 Page 3 of 3, Line 5	

Reconciliation	System	NC Retail Customers	Wholesale	South Carolina Retail
Total system fuel expense from Clark Exhibit 2 Schedule 3 Page 1	\$ 2,132,906,715			
QF and REPS Compliance Purchased Power - Capacity	\$ 27,108,225			
Other fuel costs	\$ 2,105,798,490			
SC Net Metering Fuel Allocation adjustment	\$ 4,396,215			
Jurisdictional fuel costs after adj.	\$ 2,110,194,706			
Allocation to states/classes		66.83%	9.04%	24.13%
Jurisdictional fuel costs	\$ 2,110,194,706	\$ 1,410,243,122	\$ 190,761,601	\$ 509,189,982
Direct Assignment of Fuel benefit to SC Retail	\$ (4,396,215)	\$	\$	\$ (4,396,215)
Total system actual fuel costs	\$ 2,105,798,490	\$ 1,410,243,122	\$ 190,761,601	\$ 504,793,767
QF and REPS Compliance Purchased Power - Capacity	\$ 27,108,225	18,076,112		
Total system fuel expense from Clark Exhibit 2 Schedule 3 Page 1	\$ 2,132,906,715	\$ 1,428,319,234		

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

rounding differences may occur

Feb 28 2023

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Duke Energy Carolinas, LLC
 North Carolina Annual Fuel and Fuel Related Expense
 Annualized Revenue
 Billing Period September 2023 through August 2024
 Docket E-7, Sub 1282

Clark Workpaper 8

	January 2023 Actuals			Normalized Sales	Total Annualized Revenues
	Revenue	kWh Sales	Cents/ kWh	Clark Exhibit 4	
Residential	\$ (a) 259,112,943	(b) 2,404,726,417	(a)/(b) *100 = (c) 10.7752	(d) 22,892,401	(c) * (d) * 10 \$ 2,466,691,215
General	\$ 161,395,026	2,001,691,757	8.0629	24,448,017	\$ 1,971,226,718
Industrial	\$ 55,270,705	891,437,613	6.2002	12,219,040	\$ 757,602,036
Total	\$ 475,778,674	5,297,855,787		59,559,458	\$ 5,195,519,969

rounding differences may occur

Reagent and ByProduct projections

Date	Ammonia	Urea	Limestone	Magnesium	Calcium Carbonate	Lime	Reagent Cost	Gypsum (Gain)/Loss			Sale of By-Products	
				Hydroxide				Ash (Gain)/Loss	Steam (Gain)/Loss	(Gain)/Loss		
9/1/2023 \$	215,268 \$	20,510 \$	258,314 \$	37,104 \$	22,496 \$	13,158 \$	566,851 \$	72,900 \$	(11,374) \$	(249,752) \$	\$ (188,226)	
10/1/2023 \$	126,192 \$	12,023 \$	151,427 \$	20,990 \$	12,726 \$	13,158 \$	336,516 \$	42,578 \$	(7,798) \$	(249,752) \$	\$ (214,972)	
11/1/2023 \$	175,908 \$	16,760 \$	211,084 \$	22,395 \$	13,578 \$	13,158 \$	452,884 \$	52,334 \$	(12,578) \$	(249,752) \$	\$ (209,995)	
12/1/2023 \$	1,809,326 \$	172,388 \$	2,171,130 \$	139,582 \$	84,629 \$	13,158 \$	4,390,213 \$	702,173 \$	(219,291) \$	(249,752) \$	\$ 233,130	
1/1/2024 \$	2,582,989 \$	246,100 \$	3,099,500 \$	205,790 \$	124,770 \$	13,158 \$	6,272,308 \$	1,096,545 \$	(268,116) \$	(249,752) \$	\$ 578,677	
2/1/2024 \$	2,113,676 \$	201,385 \$	2,536,340 \$	167,519 \$	101,567 \$	13,158 \$	5,133,645 \$	816,993 \$	(238,439) \$	(249,752) \$	\$ 328,803	
3/1/2024 \$	447,777 \$	42,663 \$	537,317 \$	56,469 \$	34,237 \$	13,158 \$	1,131,622 \$	144,210 \$	(32,598) \$	(249,752) \$	\$ (138,140)	
4/1/2024 \$	245,737 \$	23,413 \$	294,876 \$	33,856 \$	20,527 \$	13,158 \$	631,567 \$	69,849 \$	(12,590) \$	(249,752) \$	\$ (192,493)	
5/1/2024 \$	183,122 \$	17,447 \$	219,740 \$	34,191 \$	20,730 \$	13,158 \$	488,388 \$	52,063 \$	(3,750) \$	(249,752) \$	\$ (201,439)	
6/1/2024 \$	544,468 \$	51,875 \$	653,343 \$	56,548 \$	34,285 \$	13,158 \$	1,353,677 \$	163,414 \$	(51,742) \$	(249,752) \$	\$ (138,080)	
7/1/2024 \$	916,015 \$	87,275 \$	1,099,187 \$	78,871 \$	47,819 \$	13,158 \$	2,242,325 \$	283,833 \$	(91,686) \$	(260,498) \$	\$ (68,352)	
8/1/2024 \$	896,206 \$	85,388 \$	1,075,417 \$	92,289 \$	55,955 \$	13,158 \$	2,218,412 \$	292,195 \$	(94,322) \$	(260,498) \$	\$ (62,626)	
	\$ 10,256,683 \$	\$ 977,229 \$	\$ 12,307,675 \$	\$ 945,605 \$	\$ 573,319 \$	\$ 157,896 \$	\$ 25,218,407 \$	\$ 3,789,087 \$	\$ (1,044,284) \$	\$ (3,018,514) \$	\$ (273,711)	

Total Reagent cost and Sale of By-products \$ 24,944,696

rounding differences may occur

Duke Energy Carolinas, LLC
North Carolina Annual Fuel and Fuel Related Expense
2.5% Calculation Test
Twelve Months Ended December 31, 2022
Billing Period September 2023 through August 2024
Docket E-7, Sub 1282

Clark Workpaper 10

Line No.	Description	Forecast \$	(Over)/Under Collection \$	Total \$
1	Amount in current docket	139,103,703	70,794,129	209,897,832
2	Amount in Sub 1263, prior year docket	100,735,755	13,526,437	114,262,192
3	Increase/(Decrease)	38,367,948	57,267,693	95,635,640
4	2.5% of 2022 NC retail revenue of \$4,944,339,147			123,608,479
	Excess of purchased power growth over 2.5% of revenue			0

E-7, Sub 1282

WP 4	Purchases for REPS Compliance - Energy	68,790,240	66.83%	45,972,517
WP 4	Purchases for REPS Compliance - Capacity	14,931,581	66.68%	9,956,570
WP 4	Purchases	397,088	66.83%	265,374
WP 4	QF Energy	59,039,401	66.83%	39,456,032
WP 4	QF Capacity	12,176,644	66.68%	8,119,542
WP 4	Allocated Economic Purchase cost	52,870,968	66.83%	35,333,668
		208,205,922		139,103,703

E-7, Sub 1263

Purchases for REPS Compliance	66,782,210	66.08%	44,126,819
Purchases for REPS Compliance Capacity	14,610,064	66.68%	9,742,178
Purchases	7,489,994	66.08%	4,949,066
QF Energy	40,652,503	66.08%	26,861,429
QF Capacity	8,445,498	66.68%	5,631,567
Allocated Economic Purchase cost	14,263,480	66.08%	9,424,695
	152,243,749		100,735,755

rounding differences may occur

	2022	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	12 ME
System KWH Sales - Sch 4, Adjusted		7,587,345,694	7,631,271,992	6,790,067,074	6,455,104,305	6,544,372,277	7,852,382,055	8,386,958,942	8,886,608,895	8,009,959,106	6,516,474,006	6,148,600,623	7,600,126,412	88,409,271,381
NC Retail KWH Sales - Sch 4		4,988,913,451	5,189,555,709	4,642,701,985	4,283,391,409	4,361,033,505	5,223,755,139	5,560,704,210	6,010,616,462	5,369,219,189	4,315,776,539	4,103,701,351	5,009,748,290	59,059,117,240
NC Retail % of Sales, Adjusted (Calc)		65.75%	68.00%	68.37%	66.36%	66.64%	66.52%	66.30%	67.64%	67.03%	66.23%	66.74%	65.92%	66.80%
NC retail production plant %		66.68%	66.68%	66.68%	66.68%	66.68%	66.68%	66.68%	66.68%	66.68%	66.68%	66.68%	66.68%	66.68%
Fuel and Fuel related component of purchased power														
System Actual \$ - Sch 3 Fuel\$:	\$	37,348,658	\$ 40,334,882	\$ 28,936,616	\$ 49,553,437	\$ 53,977,979	\$ 76,187,119	\$ 84,243,384	\$ 92,288,328	\$ 54,398,279	\$ 11,798,321	\$ 41,689,819	\$ 94,911,581	\$ 665,668,403
System Actual \$ - Sch 3 Fuel-related\$; Economic Purchases		7,928,235	(1,570,627)	3,557,135	4,369,558	7,286,679	6,129,379	10,685,578	9,921,881	9,510,435	1,184,100	3,142,043	\$ 8,875,341	\$ 71,019,737
System Actual \$ - Sch 3 Fuel-related\$; Purchased Power for REPS Compliance		4,142,352	3,490,134	3,995,856	3,290,332	5,192,821	5,283,840	5,430,924	5,998,047	5,270,163	5,163,446	4,802,114	4,257,583	\$ 56,317,611
System Actuals - Sch 3 Fuel-related\$; SC DERP		153,840	153,265	196,932	137,675	248,854	297,053	290,834	285,229	257,994	240,417	248,173	229,623	\$ 2,739,889
System Acutal \$ - Sch 3 Fuel-related\$; HB589 purpa Purchases		1,977,570	1,777,710	2,215,962	1,745,571	2,647,918	3,816,224	3,554,345	3,225,136	3,434,693	3,359,816	3,414,696	2,956,940	\$ 34,126,582
Total System Economic & QF\$		51,550,655	44,185,364	38,902,502	59,096,573	69,354,250	91,713,615	104,205,065	111,718,622	72,871,564	21,746,101	53,296,844	111,231,068	829,872,222
<i>Less:</i>														
Native Load Transfers, Native Load Transfer Benefit & DE - Progress fees		\$ 30,480,569	\$ 37,453,029	\$ 26,486,545	\$ 48,026,753	\$ 49,193,125	\$ 74,564,244	\$ 75,622,595	\$ 87,008,500	\$ 47,113,469	\$ 10,577,023	\$ 40,068,662	\$ 74,950,979	\$ 601,545,494
Total System Economic \$ without Native Load Transfers		\$ 21,070,086	\$ 6,732,335	\$ 12,415,956	\$ 11,069,820	\$ 20,161,125	\$ 17,149,371	\$ 28,582,470	\$ 24,710,121	\$ 25,758,095	\$ 11,169,078	\$ 13,228,182	\$ 36,280,089	\$ 228,326,728
NC Actual \$ (Calc)		\$ 13,854,230	\$ 4,578,244	\$ 8,489,398	\$ 7,345,562	\$ 13,434,954	\$ 11,408,527	\$ 18,950,690	\$ 16,713,131	\$ 17,266,113	\$ 7,397,136	\$ 8,828,758	\$ 23,914,617	\$ 152,181,363
Billed rate (¢/kWh):		0.1378	0.1378	0.1378	0.1378	0.1378	0.1378	0.1378	0.1378	0.1367	0.1378	0.1378	0.1378	0.1378
Billed \$:		\$ 6,874,552	\$ 7,151,030	\$ 6,397,484	\$ 5,902,367	\$ 6,009,355	\$ 7,198,156	\$ 7,662,460	\$ 8,282,423	\$ 7,340,000	\$ 5,946,992	\$ 5,654,760	\$ 6,903,261	\$ 81,322,839
(Over)/ Under \$:		\$ 6,979,678	\$ (2,572,786)	\$ 2,091,914	\$ 1,443,196	\$ 7,425,600	\$ 4,210,372	\$ 11,288,231	\$ 8,430,708	\$ 9,926,113	\$ 1,450,144	\$ 3,173,998	\$ 17,011,356	\$ 70,858,524
Capacity component of purchased power														
System Actual \$ - Capacity component of Cherokee County Cogen Purchases	\$	-	\$ (215,310)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (215,310)
System Actual \$ - Capacity component of Purchased Power for REPS Compliance		631,201	645,219	680,737	463,766	802,115	701,461	827,443	2,753,196	2,319,960	2,511,631	2,238,491	639,202	\$ 15,214,422
System Actual \$ - Capacity component of HB589 Purpa QF purchases		14,255	14,801	19,366	14,471	24,039	29,036	28,404	28,368	25,409	23,627	24,299	22,399	\$ 268,474
System Actual \$ - Capacity component of SC DERP		312,476	340,840	349,198	316,395	389,774	481,428	581,279	1,661,830	1,443,022	1,553,118	1,525,519	414,939	\$ 9,369,818
System Actual \$ - Sch 2 pg 1 ANNUAL VIEW		\$ 957,932	\$ 785,549	\$ 1,049,301	\$ 794,633	\$ 1,215,927	\$ 1,211,925	\$ 1,437,127	\$ 4,443,394	\$ 3,788,390	\$ 4,088,375	\$ 3,788,310	\$ 1,076,540	\$ 24,637,403
NC Actual \$ (Calc) (1)		\$ 638,761	\$ 523,814	\$ 699,688	\$ 529,871	\$ 810,796	\$ 808,127	\$ 958,294	\$ 2,962,912	\$ 2,526,147	\$ 2,726,181	\$ 2,526,093	\$ 717,851	\$ 16,428,537
Billed rate (¢/kWh):		0.0279	0.0279	0.0279	0.0279	0.0279	0.0279	0.0279	0.0279	0.0284	0.0279	0.0279	0.0279	0.0279
Billed \$:		\$ 1,390,793	\$ 1,446,727	\$ 1,294,277	\$ 1,194,110	\$ 1,215,755	\$ 1,456,261	\$ 1,550,195	\$ 1,675,620	\$ 1,525,438	\$ 1,203,138	\$ 1,144,016	\$ 1,396,601	\$ 16,492,931
(Over)/Under \$:		\$ (752,032)	\$ (922,913)	\$ (594,589)	\$ (664,238)	\$ (404,959)	\$ (648,134)	\$ (591,900)	\$ 1,287,293	\$ 1,000,709	\$ 1,523,043	\$ 1,382,077	\$ (678,751)	\$ (64,394)
TOTAL (Over)/ Under \$:		\$ 6,227,647	\$ (3,495,699)	\$ 1,497,325	\$ 778,957	\$ 7,020,641	\$ 3,562,238	\$ 10,696,330	\$ 9,718,001	\$ 10,926,822	\$ 2,973,187	\$ 4,556,076	\$ 16,332,605	\$ 70,794,129

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

(1) January - May NC actual capacity shown herein is adjusted to reflect use of 2021 production plant allocation factor. Actual true-up related to allocator was made as prior period adjustment in May 2022 of Schedule 4.

rounding differences may occur

	2021	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	12 ME
System KWH Sales - Sch 4, Adjusted		8,623,321,816	7,033,781,083	6,170,273,584	6,357,924,869	5,750,592,351	7,218,972,840	8,473,666,049	8,688,276,000	8,107,525,420	6,609,883,548	6,537,708,709	7,191,590,664	86,763,516,933
NC Retail KWH Sales - Sch 4		5,785,766,552	4,705,197,397	4,216,101,608	4,307,482,408	3,784,759,966	4,813,117,777	5,540,576,171	5,890,178,638	5,517,650,819	4,297,619,492	4,396,624,370	4,888,703,073	58,143,778,271
NC Retail % of Sales, Adjusted (Calc)		67.09%	66.89%	68.33%	67.75%	65.82%	66.67%	65.39%	67.79%	68.06%	65.02%	67.25%	67.98%	67.01%
NC retail production plant %		66.98%	66.98%	66.98%	66.98%	66.98%	66.98%	66.98%	66.98%	66.98%	66.98%	66.98%	66.98%	66.98%
Fuel and Fuel related component of purchased power														
System Actual \$ - Sch 3 Fuel\$:	\$	14,110,987	\$ 21,997,962	\$ 7,288,155	\$ 1,159,999	\$ 6,909,766	\$ 19,650,947	\$ 27,256,372	\$ 22,941,922	\$ 20,301,410	\$ 27,877,777	\$ 27,842,536	\$ 26,295,173	\$ 223,633,006
System Actual \$ - Sch 3 Fuel-related\$; Economic Purchases	\$	1,908,455	\$ 2,653,190	\$ 897,843	\$ 1,159,946	\$ 1,043,015	\$ 1,716,177	\$ 3,233,998	\$ 2,658,287	\$ 1,580,193	\$ 2,101,644	\$ 2,163,509	\$ 2,417,594	\$ 23,533,851
System Actual \$ - Sch 3 Fuel-related\$; Purchased Power for REPS Compliance	\$	3,836,471	\$ 3,851,010	\$ 3,578,469	\$ 1,634,328	\$ 5,557,142	\$ 6,244,501	\$ 5,777,306	\$ 6,144,771	\$ 5,617,037	\$ 5,684,750	\$ 4,972,836	\$ 4,406,882	\$ 57,305,503
System Actual\$ - Sch 3 Fuel-related\$; SC DERP	\$	148,221	\$ 63,773	\$ 117,353	\$ 217,851	\$ 155,453	\$ 263,492	\$ 427,484	\$ 260,031	\$ 242,117	\$ 236,248	\$ 246,176	\$ 205,494	\$ 2,583,692
System Acutal \$ - Sch 3 Fuel-related\$; HB589 purpa Purchases	\$	2,756,782	\$ 2,455,383	\$ 2,198,548	\$ 2,656,105	\$ 2,051,181	\$ 3,609,263	\$ 3,393,224	\$ 3,761,968	\$ 2,668,737	\$ 2,679,082	\$ 2,593,637	\$ 2,343,504	\$ 33,167,413
Total System Economic & QF\$		22,760,916	31,021,318	14,080,368	6,828,229	15,716,557	31,484,380	40,088,384	35,766,979	30,409,494	38,579,500	37,818,693	35,668,647	340,223,465
<i>Less:</i>														
Native Load Transfers, Native Load Transfer Benefit & DE - Progress fees	\$	13,085,320	\$ 20,311,355	\$ 6,186,575	\$ 12,225	\$ 6,203,819	\$ 19,379,239	\$ 26,072,774	\$ 21,770,863	\$ 19,434,801	\$ 26,816,502	\$ 23,378,784	\$ 23,491,467	\$ 206,143,723
Total System Economic \$ without Native Load Transfers	\$	9,675,596	\$ 10,709,964	\$ 7,893,793	\$ 6,816,004	\$ 7,306,104	\$ 8,232,386	\$ 14,015,610	\$ 13,996,116	\$ 10,974,693	\$ 11,762,998	\$ 14,439,909	\$ 12,177,179	\$ 128,000,354
NC Actual \$ (Calc)	\$	6,491,783	\$ 7,164,353	\$ 5,393,769	\$ 4,617,830	\$ 4,808,522	\$ 5,488,793	\$ 9,164,222	\$ 9,488,606	\$ 7,468,928	\$ 7,648,076	\$ 9,710,873	\$ 8,277,809	\$ 85,723,565
Billed rate (\$/kWh):		0.1367	0.1367	0.1367	0.1367	0.1367	0.1367	0.1367	0.1367	0.1363	0.1357	0.1357	0.1357	0.1357
Billed \$:	\$	7,911,008	\$ 6,433,522	\$ 5,764,770	\$ 5,889,717	\$ 5,174,987	\$ 6,581,084	\$ 7,575,754	\$ 8,053,773	\$ 7,518,618	\$ 5,832,583	\$ 5,966,949	\$ 6,634,781	\$ 79,337,545
(Over)/ Under \$:	\$	(1,419,225)	\$ 730,832	\$ (371,001)	\$ (1,271,887)	\$ (366,465)	\$ (1,092,291)	\$ 1,588,468	\$ 1,434,833	\$ (49,690)	\$ 1,815,493	\$ 3,743,924	\$ 1,643,028	\$ 6,386,020
Capacity component of purchased power														
System Actual \$ - Capacity component of Cherokee County Cogen Purchases	\$	430,619	\$ 430,619	\$ 215,311	\$ 215,310	\$ 322,964	\$ 1,399,512	\$ 3,229,644	\$ 645,929	\$ 215,310	\$ 215,310	\$ 215,310	\$ 10,765,481	
System Actual \$ - Capacity component of Purchased Power for REPS Compliance	\$	679,198	\$ 657,904	\$ 611,495	\$ 370,864	\$ 1,021,112	\$ 874,770	\$ 880,403	\$ 2,930,150	\$ 2,610,093	\$ 2,651,828	\$ 2,162,592	\$ 642,188	\$ 16,092,597
System Actual \$ - Capacity component of HB589 Purpa QF purchases	\$	401,588	\$ 376,607	\$ 536,828	\$ 347,396	\$ 110,548	\$ 427,589	\$ 1,222,705	\$ 1,697,840	\$ 1,371,802	\$ 1,324,805	\$ 834,474	\$ 281,956	\$ 8,934,138
System Actual \$ - Capacity component of SC DERP	\$	14,999	\$ 7,491	\$ 12,697	\$ 15,442	\$ 14,837	\$ 24,880	\$ 38,885	\$ 24,278	\$ 22,766	\$ 22,049	\$ 24,646	\$ 19,907	\$ 242,878
System Actual \$ - Sch 2 pg 1 ANNUAL VIEW	\$	1,526,405	\$ 1,472,621	\$ 1,376,331	\$ 949,012	\$ 1,469,461	\$ 2,726,751	\$ 5,371,637	\$ 7,881,912	\$ 4,650,590	\$ 4,213,992	\$ 3,237,022	\$ 1,159,361	\$ 36,035,094
NC Actual \$ (Calc) (1)	\$	1,022,340	\$ 986,317	\$ 921,825	\$ 635,619	\$ 984,201	\$ 1,826,295	\$ 3,597,760	\$ 5,279,066	\$ 3,114,825	\$ 2,822,404	\$ 2,168,059	\$ 776,504	\$ 24,135,214
Billed rate (\$/kWh):		0.0294	0.0294	0.0294	0.0294	0.0294	0.0294	0.0294	0.0294	0.0291	0.0289	0.0289	0.0289	0.0289
Billed \$:	\$	1,698,557	\$ 1,381,329	\$ 1,237,743	\$ 1,264,570	\$ 1,111,112	\$ 1,413,012	\$ 1,626,576	\$ 1,729,210	\$ 1,608,069	\$ 1,241,743	\$ 1,270,349	\$ 1,412,529	\$ 16,994,798
(Over)/Under \$:	\$	(676,218)	\$ (395,012)	\$ (315,918)	\$ (628,950)	\$ (126,911)	\$ 413,283	\$ 1,971,184	\$ 3,549,856	\$ 1,506,756	\$ 1,580,661	\$ 897,710	\$ (636,025)	\$ 7,140,416
TOTAL (Over)/ Under \$:	\$	(2,095,442)	\$ 335,820	\$ (686,918)	\$ (1,900,837)	\$ (493,375)	\$ (679,008)	\$ 3,559,653	\$ 4,984,689	\$ 1,457,065	\$ 3,396,154	\$ 4,641,634	\$ 1,007,003	\$ 13,526,437

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

(1) January - May NC actual capacity shown herein is adjusted to reflect use of 2020 production plant allocation factor. Actual true-up related to allocator was made as prior period adjustment in May 2021 of Schedule 4.

rounding differences may occur

Duke Energy Carolinas, LLC
North Carolina Annual Fuel and Fuel Related Expense
Actual Sales by Jurisdiction - Subject to Weather
Twelve Months Ended December 31, 2022
Docket E-7, Sub 1282

Clark Workpaper 11

Line #	<u>Description</u>	<u>Reference</u>	MWhs				
			<u>NORTH CAROLINA</u>	<u>SOUTH CAROLINA</u>	<u>TOTAL COMPANY</u>	<u>% NC</u>	<u>% SC</u>
1	Residential	Company Records	22,419,810	6,932,595	29,352,406	76.38	23.62
2	Total General Service	Company Records	24,337,421	5,555,439	29,892,860		
3	less Lighting and Traffic Signals		326,292	83,069	409,361		
4	General Service subject to weather		24,011,129	5,472,369	29,483,499	81.44	18.56
5	Industrial	Company Records	12,301,885	8,467,077	20,768,963	59.23	40.77
6	Total Retail Sales	1+2+5	59,059,117	20,955,111	80,014,228		
7	Total Retail Sales subject to weather	1+4+5	58,732,825	20,872,042	79,604,867	73.78	26.22

This does not exclude Greenwood and includes the impact of SC DERP net metering generation
rounding differences may occur

Duke Energy Carolinas, LLC
North Carolina Annual Fuel and Fuel Related Expense
Weather Normalization Adjustment
Twelve Months Ended December 31, 2022
Docket E-7, Sub 1282

Clark 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		448,056	76.38	342,225	23.62	105,831
<u>General Service</u>							
2	Total General Service		8,558	81.44	6,970	18.56	1,588
<u>Industrial</u>							
3	Total Industrial		(19,147)	59.23	(11,341)	40.77	(7,806)
4	Total Retail	L1+ L2+ L3	437,466		337,854		99,613
5	Wholesale		(306)				
6	Total Company	L4 + L5	<u>437,160</u>		<u>337,854</u>		<u>99,613</u>

rounding differences may occur

	Residential	Commercial	Industrial
2022	TOTAL MWH	TOTAL MWH	TOTAL MWH
	ADJUSTMENT	ADJUSTMENT	ADJUSTMENT
JAN	430,826	41,682	(6,770)
FEB	26,706	3,498	334
MAR	196,589	16,797	229
APR	57,319	1,598	(581)
MAY	(79,111)	(16,277)	(3,799)
JUN	(157,659)	(57,717)	(13,625)
JUL	(87,489)	(31,423)	(6,855)
AUG	7,117	4,384	604
SEP	9,348	5,285	898
OCT	-	26,141	6,943
NOV	23,449	17,862	5,321
DEC	20,961	(3,272)	(1,847)
Total	448,056	8,558	(19,147)
			437,466

Wholesale			
	TOTAL MWH		
2022	ADJUSTMENT	Note:	The Resale customers include:
JAN	(2,917)	1	Concord ¹
FEB	8,132	2	Dallas
MAR	12,387	3	Forest City
APR	7	4	Kings Mountain ¹
MAY	(4,538)	5	Due West
JUN	(8,323)	6	Prosperity ²
JUL	(3,594)	7	Lockhart
AUG	2,515	8	Western Carolina University
SEP	1,554	9	City of Highlands
OCT	(8,702)	10	Haywood
NOV	11,971	11	Piedmont
DEC	(8,800)	12	Rutherford
		13	Blue Ridge
Total	(306)	14	Greenwood ¹

¹Wholesale load is no longer being served by Duke as of December 2018.

²Wholesale load is no longer being served by Duke as of December 2019.

rounding differences may occur

Line	Estimation Method ¹	Rate Schedule	NC	SC	Wholesale	Total Company
			Proposed kWh ¹ Adjustment	Proposed kWh Adjustment	Proposed kWh Adjustment	
1	<i>Regression</i>	Residential	130,366,123	72,505,791		
2						
3		General Service (Excluding Lighting):				
4	<i>Customer</i>	General Service Small and Large	109,009,655	1,179,199		
5	<i>Regression</i>	Miscellaneous	(2,444,761)	(1,131,149)		
6		Total General	106,564,894	48,050		
7						
8		Lighting:				
9	<i>Regression</i>	T & T2 (GL/FL/PL/OL) ²	(2,957,804)	(1,879,960)		
10	<i>Regression</i>	TS	18,088	(14,903)		
11		Total Lighting	(2,939,716)	(1,894,862)		
12						
13		Industrial:				
14	<i>Customer</i>	I - Textile	(28,808,158)	(776,997)		
15	<i>Customer</i>	I - Nontextile	(42,696,403)	(78,201,535)		
16		Total Industrial	(71,504,561)	(78,978,532)		
17						
18						
19		Total	162,486,740	(8,319,553)	5,835,657	<u>160,002,845</u>
					WP 13-2	

Notes:

¹ 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.

² T and T2 were combined due to North Carolina's FL & GL schedules being merged into OL & PL.

rounding differences may occur

Duke Energy Carolinas, LLC
North Carolina Annual Fuel and Fuel Related Expense
Customer Growth Adjustment to kWh Sales-Wholesale
Twelve Months Ended December 31, 2022
Docket E-7, Sub 1282

Clark Workpaper 13
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Calculation of Customer Growth Adjustment to kWh Sales - Wholesale

Line <u>No.</u>		<u>Reference</u>
1	Total System Resale (kWh Sales)	Company Records 9,637,002,447
2	Less Intersystem Sales	Exhibit 6, Sch 1 <u>1,193,715,448</u>
3	Total kWh Sales Excluding Intersystem Sales	L1 - L2 8,443,286,999
4	Residential Growth Factor	Line 8 <u>0.6912</u>
5	Adjustment to kWhs - Wholesale	L3 * L4 / 100 <u>5,835,657</u>
6	Total System Retail Residential kWh Sales	Company Records 29,352,405,508
7	2022 Proposed Adjustment kWh - Residential (NC+SC)	WP 13-1 202,871,914
8	Percent Adjustment	L7 / L6 * 100 0.6912

rounding differences may occur