EXHIBIT A
to Ground Lease

Location and Description of the Site

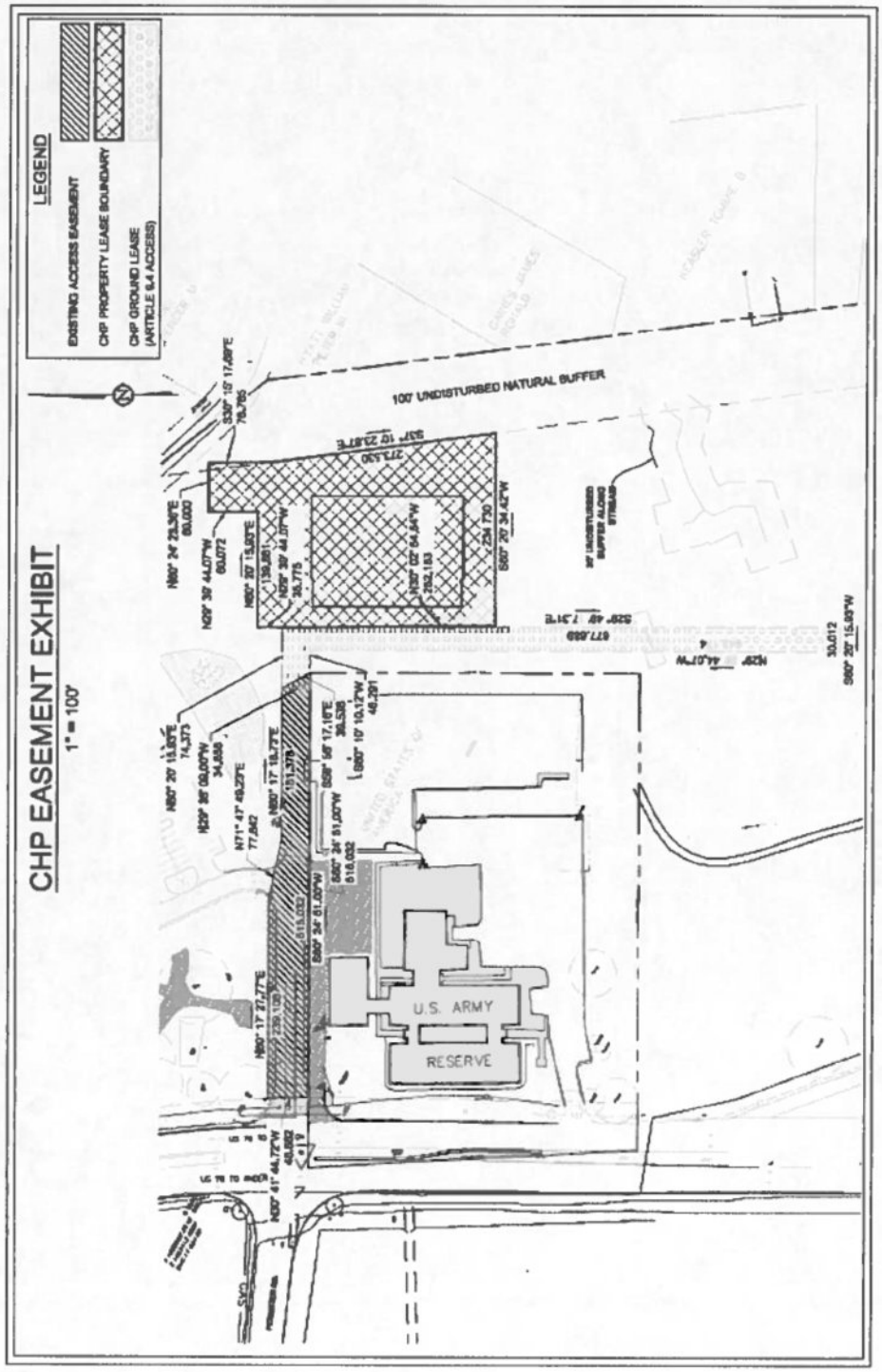

EXHIBIT B
to Ground Lease

Definitions

1. "Affiliate" means, when used with reference to a specified Person, any other Person that directly, or indirectly through one or more intermediaries, controls, is controlled by or is under common control with the Person specified.

2. "Business Day" means any day other than Saturday or Sunday or a legal holiday observed by the State of South Carolina.

3. "Casualty" means any loss or destruction of or damages to the Facility or the Site resulting from any act of God, fire, explosion, earthquake, accident or the elements, whether or not covered by insurance and whether or not caused by the fault or negligence of either Party, or such Party's employees, agents, contractors, or visitors.

4. "Commercial Operation Date" means the date upon which Tenant notifies Landlord that the Facility is commercially operational.

5. "Development Period" means the period during which Tenant performs development activities, including but not limited to, obtaining permits and constructing the Facility, as more particularly defined in Section 2.1.1.

6. "Easements" has the meaning set forth in Section 5.

7. "Easement Areas" has the meaning set forth in Section 5.

8. "Effective Date" has the meaning set forth in the Preamble.

9. "Electrical Interconnection Easement" has the meaning set forth in Section 5.

10. "Energy Output" has the meaning set forth in Section 24.

11. "Environmental Attributes" has the meaning set forth in Section 24.

12. "Environmental Incentives" has the meaning set forth in Section 24.

13. "Environmental Laws" means any federal, state or local law, code, statute, ordinance, rule, regulation, rule of common law, guideline or informal policy position, relating to or imposing liability or standards of conduct concerning any hazardous, toxic or dangerous waste, substance or material; or any substances or mixture of any Hazardous Materials regulated thereunder, now or hereafter enacted or promulgated (collectively, and including, without limitation, any such laws which require notice of the use, presence, storage, generation, disposal or release of any Hazardous Materials to be provided to any party).

14. "Environmental Liability" means any action, lawsuit, claim or proceeding arising under or related in any way to the Environmental Laws or which seeks to impose liability for (a) noise; (b) pollution or contamination of the air, surface water, ground water or land or the clean-up of such pollution or contamination; (c) solid, gaseous or liquid waste generation, handling, treatment, storage, disposal or transportation; (d) exposure to or contamination by Hazardous Materials; (e) the safety or health of employees or (f) the manufacture, processing, distribution in commerce or use of Hazardous Materials. An "Environmental Liability" includes a common law action, whether direct or indirect, as well as a proceeding to issue, modify or terminate an Environmental Permit, or to adopt or amend a regulation to the extent that such a proceeding attempts to redress violations of an applicable permit, license, or regulation as alleged by any governmental authority.

15. "Environmental Permit" means any permit, license, approval or other authorization under any applicable Environmental Laws.

16. "Facility" means a combined heat and power facility or facilities and related utilities, improvements, equipment, facilities, appurtenances and other improvements to be developed, constructed, owned, operated and maintained on the Site and any applicable Easement Area(s), including but not limited to all structures, machinery, equipment, meters, fixtures, interconnections, ancillary equipment and materials, and all additions, alterations, expansions and modifications thereto as may be located on the Site and the Easement Areas.

17. "Financing Parties" has the meaning set forth in Section 17.

18. "Financing Documents" has the meaning set forth in Section 17.

19. "Force Majeure" means all events beyond the control of the Party affected, including without limitation flood, earthquake, storm, lightning, fire, explosion, war, riot, civil disturbances, strikes, and sabotage.

20. "Governmental Approvals" has the meaning set forth in Section 9.2(c).

21. "Ground Lease" has the meaning set forth in the Preamble.

22. "Hazardous Materials" means any flammable, reactive, explosive, corrosive or radioactive materials or hazardous, toxic or dangerous wastes, substances or related materials or any other chemicals, materials, wastes or substances, exposure to which is prohibited, limited or regulated by a federal, state, county, regional or local authority, or any Environmental Laws.

23. "Official Records" means the Official Records maintained by the office of the Register of Deeds of Pickens County, South Carolina.

24. "Operational Easements" has the meaning set forth in Section 5.

25. "Operational Term" means the period during which the Facility is generating and delivering Steam as such term(s) are defined in the SSPA, commencing upon the Commercial Operation Date for the Facility and terminating upon expiration or earlier termination as provided herein in Section 2.1.2.

26. "Landlord" has the meaning set forth in the Preamble.

27. "Landlord Easements" has the meaning set forth in Section 5.

28. "Landlord Events of Default" has the meaning set forth in Section 13.3.

29. "Landlord's Property" means all premises other than the Site and Easement Areas that are owned or leased by Landlord or its Affiliates and at which the Steam will be used or through which the Steam will be delivered.

30. "Landlord's Parties" means Landlord, its officers, directors, partners, members, affiliates, lenders, employees, shareholders, attorneys, lessees (other than Tenant), sublessees, licensees, invitees, contractors, subcontractors, consultants, agents, trustees and any of their respective successors and assigns.

31. "Landlord Utilities" has the meaning set forth in Section 5.

32. "Losses" has the meaning set forth in Section 12.1(a).

33. "Manual" has the meaning set forth in Section 9.2(b).

34. "OSE" has the meaning set forth in Section 9.2(b).

35. "Party" or "Parties" means Landlord and/or Tenant, as applicable.

36. "Permitted Exceptions" has the meaning set forth in Section 18.1.

37. "Person" means any individual, corporation, partnership, limited liability company, joint venture, association, joint stock company, trust, estate, unincorporated organization or other business entity, or any governmental authority.

38. "Release" means any release, pumping, pouring, emptying, injecting, escaping, leaching, dumping, seepage, spill, leak, flow, discharge, disposal or emission of a Hazardous Material whether on, under or migrating to or from the property of any Party.

39. "Site" means that certain land located in Pickens County, South Carolina, as more particularly shown and described on Exhibit A attached hereto.

40. "SSPA" means that certain Steam Supply and Purchase Agreement dated February 2, 2017 between Tenant, as "Seller", and Landlord, as "Buyer."

41. "State" has the meaning set forth in Section 10.1(b).

42. "Tenant" has the meaning set forth in the Preamble.

43. "Tenant Events of Default" has the meaning set forth in Section 13.1.

44. "Tenant's Force Majeure Notice" has the meaning set forth in Section 2.2.1.

45. "Tenant's Force Majeure Termination Notice" has the meaning set forth in Section 2.2.1.

46. "Tenant's Parties" means Tenant, its officers, directors, partners, members, affiliates, lenders, employees, shareholders, attorneys, lessees, sublessees, licensees, invitees, contractors, subcontractors, consultants, agents and any of their respective successors and assigns.

47. "Term" has the meaning set forth in Section 2.1.2.

48. "Title Policies" has the meaning set forth in Section 18.1.

49. "Transfer" means a transfer or conveyance of Landlord's interest in (i) the Site, (ii) the Easements and/or (iii) this Ground Lease.

50. "Utilities" means the services and related improvements, equipment and facilities necessary for the operation of the Facility, including, but not limited to, natural gas, electrical power, water, storm water, sanitary sewer, roads, telephone and telecommunication services, improvements, equipment and facilities.

Duke Energy Carolinas, LLC **Sykes Exhibit 1**
North Carolina Annual Fuel and Fuel Related Expense
Summary Comparison of Fuel and Fuel Related Cost Factors
Test Period Ended December 31, 2021
Billing Period September 2022 - August 2023
Docket E-7, Sub 1263

Line #	Description	Reference	Residential cents/kWh	General cents/kWh	Industrial cents/kWh	Composite cents/kWh
	Current Fuel and Fuel Related Cost Factors (Approved Fuel Rider Docket No. E-7, Sub 1250)					
1	Approved Fuel and Fuel Related Costs Factors	Input	1.5337	1.6895	1.7243	1.6414
2	EMF Increment (Decrement) cents/kWh	Input	(0.0282)	0.0476	0.1391	0.0353
3	EMF Interest Increment (Decrement) cents/kWh	Input	(0.0041)	0.0000	0.0000	0.0000
4	Approved Net Fuel and Fuel Related Costs Factors	Sum	**1.5014**	**1.7371**	**1.8634**	**1.6767**
	Fuel and Fuel Related Cost Factors Required by Rule R8-55					
5	Proposed Nuclear Capacity Factor of 93.94% and Normalized Test Period Sales	Exh 2 Sch 2 pg 2	**2.2947**	**2.3131**	**2.3050**	**2.3098**
6	NERC 5 Year Average Nuclear Capacity Factor of 92.07% and Projected Period Sales	Exh 2 Sch 3 pg 2	**2.3433**	**2.3438**	**2.3324**	**2.3467**
	Proposed Fuel and Fuel Related Cost Factors using Proposed Nuclear Capacity Factor of 93.94%					
7	Fuel and Fuel Related Costs excluding Purchased Capacity cents/kWh	Exh 2 Sch 1 pg 2	1.8997	1.8326	1.8810	1.8746
8	REPS Compliance and QF Purchased Power - Capacity cents/kWh	Exh 2 Sch 1 pg 2	0.0318	0.0247	0.0201	0.0265
9	Total adjusted Fuel and Fuel Related Costs cents/kWh	Sum	1.9315	1.8573	1.9011	1.9011
10	EMF Increment (Decrement) cents/kWh	Exh 3 pg 2, 3, 4	0.3785	0.4625	0.4128	0.4191
11	EMF Interest Increment (Decrement) cents/kWh	Exh 3 pg 2, 3, 4	-	-	-	-
12	Net Fuel and Fuel Related Costs Factors cents/kWh	Sum	**2.3100**	**2.3198**	**2.3139**	**2.3202**

Note: Fuel factors exclude regulatory fee

Duke Energy Carolinas, LLC
North Carolina Annual Fuel and Fuel Related Expense
Calculation of Fuel and Fuel Related Cost Factors Using:
Proposed Nuclear Capacity Factor of 93.94%
Test Period Ended December 31, 2021
Billing Period September 2022 - August 2023
Docket E-7, Sub 1263

Sykes 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	59,085,520	0.5773	341,071,825
2	Coal	Workpaper 3 & 4	9,117,091	3.2121	292,853,648
3	Gas CT and CC	Workpaper 3 & 4	29,962,094	3.1108	932,067,312
4	Reagents and Byproducts	Workpaper 9			9,519,806
5	Total Fossil	Sum	39,079,185		1,234,440,766
6	Hydro	Workpaper 3	4,980,701		
7	Net Pumped Storage	Workpaper 3	(3,411,289)		
8	Total Hydro	Sum	1,569,412		-
9	Solar Distributed Generation	Workpaper 3	364,048		-
10	Total Generation	Line 1 + Line 5 + Line 8 + Line 9	100,098,166		1,575,512,591
11	Less Lee CC Joint Owners	Workpaper 3 & 4	(876,000)		(20,639,342)
12	Less Catawba Joint Owners	Workpaper 3 & 4	(14,848,200)		(85,734,604)
13	Fuel expense recovered through reimbursement	Workpaper 4			(14,027,557)
14	Net Generation	Sum Lines 10-13	84,373,966		1,455,111,088
15	Purchased Power	Workpaper 3 & 4	9,440,360	2.7656	261,085,798
16	JDA Savings Shared	Workpaper 5			20,748,035
17	Total Purchased Power		9,440,360		281,833,833
18	Total Generation and Purchased Power	Line 14 + Line 17	93,814,326	1.8515	1,736,944,921
19	Fuel expense recovered through intersystem sales	Workpaper 3 & 4	(1,964,801)	3.3757	(66,325,343)
20	Line losses and Company use	Line 22-Line 18-Line 19	(3,892,553)		-
21	System Fuel Expense for Fuel Factor	Lines 18 + 19 + 20			1,670,619,578
22	Projected System MWh Sales for Fuel Factor	Workpaper 7	87,956,972		87,956,972
23	Fuel and Fuel Related Costs cents/kWh	Line 21 / Line 22 / 10			1.8994

Note: Rounding differences may occur

Duke Energy Carolinas, LLC
North Carolina Annual Fuel and Fuel Related Expense
Calculation of Fuel and Fuel Related Cost Factors Using:
Proposed Nuclear Capacity Factor of 93.94%
Test Period Ended December 31, 2021
Billing Period September 2022 - August 2023
Docket E-7, Sub 1263

Sykes Exhibit 2
Schedule 1
Page 2 of 3

Line #	Description	Reference	Residential	GS/Lighting	Industrial	Total
1	NC Projected Billing Period MWh Sales	Workpaper 7	22,809,193	23,222,537	12,202,704	58,234,434
	Calculation of Renewable and Cogeneration Purchased Power Capacity Rate by Class					Amount
2	Purchased Power for REPS Compliance - Capacity	Workpaper 4				$ 14,610,064
3	QF Purchased Power - Capacity	Workpaper 4				8,445,498
4	Total of Renewable and QF Purchased Power Capacity	Line 2 + Line 3				$ 23,055,563
5	NC Portion - Jursidicational % based on 2020 Production Plant Allocator	Input				66.98%
6	NC Renewable and QF Purchased Power - Capacity	Line 4 * Line 5				$ 15,441,918
7	2020 Production Plant Allocation Factors	Input	47.00%	37.09%	15.90%	100.00%
8	Renewable and QF Purchased Power - Capacity allocated on 2020 Production Plant Allocator	Line 6 * Line 7	$ 7,258,416	$ 5,727,933	$ 2,455,569	$ 15,441,918
9	Renewable and QF Purchased Power - Capacity cents/kWh based on Projected Billing Period Sales	Line 8 / Line 1 / 10	0.0318	0.0247	0.0201	0.0265
	Summary of Total Rate by Class					
10	Fuel and Fuel Related Costs excluding Purchased Power for REPS Compliance and QF Purchased Capacity cents/kWh	Line 15 - Line 11 - Line 13 - Line 14	1.8997	1.8326	1.8810	1.8746
11	REPS Compliance and QF Purchased Power - Capacity cents/kWh	Line 9	0.0318	0.0247	0.0201	0.0265
12	Total adjusted Fuel and Fuel Related Costs cents/kWh	Line 10 + Line 11	1.9315	1.8573	1.9011	1.9011
13	EMF Increment (Decrement) cents/kWh	Exh 3 pg 2, 3, 4	0.3785	0.4625	0.4128	0.4191
14	EMF Interest Increment (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	2.3100	2.3198	2.3139	2.3202

Note: Rounding differences may occur

Duke Energy Carolinas, LLC
North Carolina Annual Fuel and Fuel Related Expense
Calculation of Uniform Percentage Average Bill Adjustment by Customer Class
Proposed Nuclear Capacity Factor of 93.94%
Test Period Ended December 31, 2021
Billing Period September 2022 - August 2023
Docket E-7, Sub 1263

Sykes Exhibit 2
Schedule 1
Page 3 of 3

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 1250	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)	Sykes Exhibit 1	E + F = G
1	Residential	22,809,193	$ 2,259,696,240	$ 184,438,368	8.16%	0.8086	1.5014	2.3100
2	General Service/Lighting	23,222,537	1,658,017,092	135,328,794	8.16%	0.5827	1.7371	2.3198
3	Industrial	12,202,704	673,497,148	54,971,422	8.16%	0.4505	1.8634	2.3139
4	NC Retail	58,234,434	$ 4,591,210,481	$ 374,738,584	8.16%			

Total Proposed Composite Fuel Rate:

5	Total Fuel Costs for Allocation	Workpaper 7	$ 1,675,206,096
6	Total of Renewable and QF Purchased Power Capacity	Exhibit 2 Sch 1, Page 2	23,055,563
7	System Other Fuel Costs	Line 5 - Line 6	$ 1,652,150,533
8	Adjusted Projected System MWh Sales for Fuel Factor	Workpaper 7	88,132,893
9	NC Retail Projected Billing Period MWh Sales	Line 4	58,234,434
10	Allocation %	Line 9 / Line 8	66.08%
11	NC Retail Other Fuel Costs	Line 7 * Line 10	$ 1,091,670,180
12	NC Renewable and QF Purchased Power - Capacity	Exhibit 2 Sch 1, Page 2	15,441,918
13	NC Retail Total Fuel Costs	Line 11 + Line 12	$ 1,107,112,098
14	NC Retail Projected Billing Period MWh Sales	Line 4	58,234,434
15	Calculated Fuel Rate cents/kWh	Line 13 / Line 14 / 10	1.9011
16	Proposed Composite EMF Rate cents/kWh	Exhibit 3 Page 1	0.4191
17	Proposed Composite EMF Rate Interest cents/kWh	Exhibit 3 Page 1	0.0000
18	Total Proposed Composite Fuel Rate	Sum	2.3202

Total Current Composite Fuel Rate - Docket E-7 Sub 1250:

19	Current composite Fuel Rate cents/kWh	Sykes Exhibit 1	1.6414
20	Current composite EMF Rate cents/kWh	Sykes Exhibit 1	0.0353
21	Current composite EMF Interest Rate cents/kWh	Sykes Exhibit 1	0.0000
22	Total Current Composite Fuel Rate	Sum	1.6767
23	Increase/(Decrease) in Composite Fuel rate cents/kWh	Line 18 - Line 22	0.6435
24	NC Retail Projected Billing Period MWh Sales	Line 4	58,234,434
25	Increase/(Decrease) in Fuel Costs	Line 23 * Line 24 * 10	$ 374,738,583

Note: Rounding differences may occur

Duke Energy Carolinas, LLC
North Carolina Annual Fuel and Fuel Related Expense
Calculation of Fuel and Fuel Related Cost Factors Using:
Proposed Nuclear Capacity Factor of 93.94% and Normalized Test Period Sales
Test Period Ended December 31, 2021
Billing Period September 2022 - August 2023
Docket E-7, Sub 1263

Sykes Exhibit 2
Schedule 2

Line #	Unit	Reference	Generation (MWh)	Unit Cost (cents/kWh)	Fuel Cost ($)
			D	E	D * E = F
1	Total Nuclear	Workpaper 1	59,085,520	0.5773	341,071,825
2	Coal	Calculated	8,436,719	3.2121	270,999,143
3	Gas CT and CC	Workpaper 3 & 4	29,962,094	3.1108	932,067,312
4	Reagents and Byproducts	Workpaper 9	-		9,519,806
5	Total Fossil	Sum	38,398,813		1,212,586,260
6	Hydro	Workpaper 3	4,980,701		
7	Net Pumped Storage	Workpaper 3	(3,411,289)		
8	Total Hydro	Sum	1,569,412		
9	Solar Distributed Generation	Workpaper 3	364,048		
10	Total Generation	Line 1 + Line 5 + Line 8 + Line 9	99,417,794		1,553,658,085
11	Less Lee CC Joint Owners	Workpaper 3 & 4	(876,000)		(20,639,342)
12	Less Catawba Joint Owners	Workpaper 3 & 4	(14,848,200)		(85,734,604)
13	Fuel expense recovered through reimbursement	Workpaper 4			(14,027,557)
14	Net Generation	Sum	83,693,594		1,433,256,582
15	Purchased Power	Workpaper 3 & 4	9,440,360		261,085,798
16	JDA Savings Shared	Workpaper 5	-		20,748,035
17	Total Purchased Power	Sum	9,440,360		281,833,833
18	Total Generation and Purchased Power	Line 14 + Line 17	93,133,953		1,715,090,416
19	Fuel expense recovered through intersystem sales	Workpaper 3 & 4	(1,964,801)		(66,325,343)
20	Line losses and Company use	Line 22 - Line 19 - Line 18	(3,892,553)		-
21	System Fuel Expense for Fuel Factor	Lines 18 + 19 + 20			1,648,765,072
22	Normalized Test Period MWh Sales	Exhibit 4	87,276,600		87,276,600
23	Fuel and Fuel Related Costs cents/kWh	Line 21 / Line 22 / 10			1.8891

Note: Rounding differences may occur

Duke Energy Carolinas, LLC
North Carolina Annual Fuel and Fuel Related Expense
Calculation of Fuel and Fuel Related Cost Factors Using:
Proposed Nuclear Capacity Factor of 93.94% and Normalized Test Period Sales
Test Period Ended December 31, 2021
Billing Period September 2022 - August 2023
Docket E-7, Sub 1263

Sykes Exhibit 2
Schedule 2
Page 2 of 3

Line #	Description	Reference	Residential	GS/Lighting	Industrial	Total
1	NC Normalized Test Period MWh Sales	Exhibit 4	22,961,890	23,202,419	12,293,985	58,458,294
	Calculation of Renewable Purchased Power Capacity Rate by Class					Amount
2	Purchased Power for REPS Compliance - Capacity	Workpaper 4				$ 14,610,064
3	QF Purchased Power - Capacity	Workpaper 4				8,445,498
4	Total of Renewable and QF Purchased Power Capacity	Line 2 + Line 3				$ 23,055,563
5	NC Portion - Jursidicational % based on 2020 Production Plant Allocator	Input				66.98%
6	NC Renewable and QF Purchased Power - Capacity	Line 4 * Line 5				$ 15,441,918
7	2020 Production Plant Allocation Factors	Input	47.00%	37.09%	15.90%	100.00%
8	Renewable and QF Purchased Power - Capacity allocated on 2020 Production Plant Allocator	Line 6 * Line 7	$ 7,258,416	$ 5,727,933	$ 2,455,569	$ 15,441,918
9	Renewable and QF Purchased Power - Capacity cents/kWh based on Normalized Test Period Sales	Line 8 / Line 1 / 10	0.0316	0.0247	0.0200	0.0264
	Summary of Total Rate by Class					
10	Fuel and Fuel Related Costs excluding Purchased Power for REPS Compliance and QF Purchased Capacity cents/kWh	Line 15 - Line 11 - Line 13 - Line 14	1.8846	1.8259	1.8722	1.8643
11	REPS Compliance and QF Purchased Power - Capacity cents/kWh	Line 9	0.0316	0.0247	0.0200	0.0264
12	Total adjusted Fuel and Fuel Related Costs cents/kWh	Line 10 + Line 11	1.9162	1.8506	1.8922	1.8907
13	EMF Increment (Decrement) cents/kWh	Exh 3 pg 2, 3, 4	0.3785	0.4625	0.4128	0.4191
14	EMF Interest Increment (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	2.2947	2.3131	2.3050	2.3098

Note: Rounding differences may occur

Duke Energy Carolinas, LLC
North Carolina Annual Fuel and Fuel Related Expense
Calculation of Uniform Percentage Average Bill Adjustment by Customer Class
Proposed Nuclear Capacity Factor of 93.94% and Normalized Test Period Sales
Test Period Ended December 31, 2021
Billing Period September 2022 - August 2023
Docket E-7, Sub 1263

Sykes Exhibit 2
Schedule 2
Page 3 of 3

Line #	Rate Class	Normalized Test Period MWh Sales	Annual Revenue at Current rates	Allocate Fuel Costs Increase/(Decrease) to Customer Class	Increase/(Decrease) as % of Annual Revenue at Current Rates	Total Fuel Rate Increase/(Decrease)	Current Total Fuel Rate (including Capacity and EMF) E-7, Sub 1250	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)	Sykes Exhibit 1	E + F = G
1	Residential	22,961,890	$ 2,259,696,240	$ 182,155,088	8.06%	0.7933	1.5014	2.2947
2	General Service/Lighting	23,202,419	$ 1,658,017,092	133,653,473	8.06%	0.5760	1.7371	2.3131
3	Industrial	12,293,985	$ 673,497,148	54,290,896	8.06%	0.4416	1.8634	2.3050
4	NC Retail	58,458,294	$ 4,591,210,481	$ 370,099,457				

Total Proposed Composite Fuel Rate:

5	Total Fuel Costs for Allocation	Workpaper 7a	$ 1,653,351,591
6	Total of Renewable and QF Purchased Power Capacity	Exhibit 2 Sch 2, Page 2	23,055,563
7	System Other Fuel Costs	Line 5 - Line 6	$ 1,630,296,028
8	Normalized Test Period System MWh Sales for Fuel Factor	Workpaper 7a	87,452,521
9	NC Retail Normalized Test Period MWh Sales	Exhibit 4	58,458,294
10	Allocation %	Line 9 / Line 8	66.85%
11	NC Retail Other Fuel Costs	Line 7 * Line 10	$ 1,089,852,895
12	NC Renewable and QF Purchased Power - Capacity	Exhibit 2 Sch 2, Page 2	15,441,918
13	NC Retail Total Fuel Costs	Line 11 + Line 12	$ 1,105,294,813
14	NC Retail Normalized Test Period MWh Sales	Line 9	58,458,294
15	Calculated Fuel Rate cents/kWh	Line 13 / Line 14 / 10	1.8907
16	Proposed Composite EMF Rate cents/kWh	Exhibit 3 Page 1	0.4191
17	Proposed Composite EMF Rate Interest cents/kWh	Exhibit 3 Page 1	0.0000
18	Total Proposed Composite Fuel Rate	Sum	2.3098

Total Current Composite Fuel Rate - Docket E-7 Sub 1250:

19	Current composite Fuel Rate cents/kWh	Sykes Exhibit 1	1.6414
20	Current composite EMF Rate cents/kWh	Sykes Exhibit 1	0.0353
21	Current composite EMF Interest Rate cents/kWh	Sykes Exhibit 1	0.0000
22	Total Current Composite Fuel Rate	Sum	1.6767
23	Increase/(Decrease) in Composite Fuel rate cents/kWh	Line 18 - Line 22	0.6331
24	NC Retail Normalized Test Period MWh Sales	Exhibit 4	58,458,294
25	Increase/(Decrease) in Fuel Costs	Line 23 * Line 24 * 10	$ 370,099,457

Note: Rounding differences may occur

Duke Energy Carolinas, LLC
North Carolina Annual Fuel and Fuel Related Expense
NERC 5 Year Average Nuclear Capacity Factor of 92.07% and Projected Period Sales
Test Period Ended December 31, 2021
Billing Period September 2022 - August 2023
Docket E-7, Sub 1263

Line #	Unit	Reference	Generation (MWh)	Unit Cost (cents/kWh)	Fuel Cost ($)
			D	E	D * E = F
1	Total Nuclear	Workpaper 2	57,909,218	0.5773	334,281,608
2	Coal	Calculated	9,997,788	3.2121	321,142,864
3	Gas CT and CC	Workpaper 3 & 4	29,962,094	3.1108	932,067,312
4	Reagents and Byproducts	Workpaper 9	-		9,519,806
5	Total Fossil	Sum	39,959,882		1,262,729,982
6	Hydro	Workpaper 3	4,980,701		
7	Net Pumped Storage	Workpaper 3	(3,411,289)		
8	Total Hydro	Sum	1,569,412		
9	Solar Distributed Generation	Workpaper 3	364,048		
10	Total Generation	Line 1 + Line 5 + Line 8 + Line 9	99,802,561		1,597,011,590
11	Less Lee CC Joint Owners	Workpaper 3 & 4	(876,000)		(20,639,342)
12	Less Catawba Joint Owners	Calculated	(14,552,595)		(84,027,759)
13	Fuel expense recovered through reimbursement	Workpaper 4			(14,027,557)
14	Net Generation	Sum	84,373,966		1,478,316,932
15	Purchased Power	Workpaper 3 & 4	9,440,360		261,085,798
16	JDA Savings Shared	Workpaper 5	-		20,748,035
17	Total Purchased Power	Sum	9,440,360		281,833,833
18	Total Generation and Purchased Power	Line 14 + Line 17	93,814,326		1,760,150,766
19	Fuel expense recovered through intersystem sales	Workpaper 3 & 4	(1,964,801)		(66,325,343)
20	Line losses and Company use	Line 22 - Line 19 - Line 18	(3,892,553)		-
21	System Fuel Expense for Fuel Factor	Lines 18 + 19 + 20			1,693,825,422
22	Projected System MWh Sales for Fuel Factor	Workpaper 7b	87,956,972		87,956,972
23	Fuel and Fuel Related Costs cents/kWh	Line 21 / Line 22 / 10			1.9257

Note: Rounding differences may occur

Duke Energy Carolinas, LLC
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 92.07% and Projected Period Sales
Test Period Ended December 31, 2021
Billing Period September 2022 - August 2023
Docket E-7, Sub 1263

Sykes Exhibit 2
Schedule 3
Page 2 of 3

Line #	Description	Reference	Residential	GS/Lighting	Industrial	Total
1	NC Projected Billing Period MWh Sales	Workpaper 7b	22,809,193	23,222,537	12,202,704	58,234,434
	Calculation of Renewable Purchased Power Capacity Rate by Class					Amount
2	Purchased Power for REPS Compliance - Capacity	Workpaper 4				$ 14,610,064
3	QF Purchased Power - Capacity	Workpaper 4				8,445,498
4	Total of Renewable and QF Purchased Power Capacity	Line 2 + Line 3				$ 23,055,563
5	NC Portion - Jursidicational % based on 2020 Production Plant Allocator	Input				66.98%
6	NC Renewable and QF Purchased Power - Capacity	Line 4 * Line 5				$ 15,441,918
7	2020 Production Plant Allocation Factors	Input	47.00%	37.09%	15.90%	100.00%
8	Renewable and QF Purchased Power - Capacity allocated on 2020 Production Plant Allocator	Line 6 * Line 7	$ 7,258,416	$ 5,727,933	$ 2,455,569	$ 15,441,918
9	Renewable and QF Purchased Power - Capacity cents/kWh based on Projected Billing Period Sales	Line 8 / Line 1 / 10	0.0318	0.0247	0.0201	0.0265
	Summary of Total Rate by Class					
10	Fuel and Fuel Related Costs excluding Purchased Power for REPS Compliance and QF Purchased Capacity cents/kWh	Line 15 - Line 11 - Line 13 - Line 14	1.9330	1.8566	1.8995	1.9011
11	REPS Compliance and QF Purchased Power - Capacity cents/kWh	Line 9	0.0318	0.0247	0.0201	0.0265
12	Total adjusted Fuel and Fuel Related Costs cents/kWh	Line 10 + Line 11	1.9648	1.8813	1.9196	1.9276
13	EMF Increment (Decrement) cents/kWh	Exh 3 pg 2, 3, 4	0.3785	0.4625	0.4128	0.4191
14	EMF Interest Increment (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	2.3433	2.3438	2.3324	2.3467

Note: Rounding differences may occur

Duke Energy Carolinas, LLC
North Carolina Annual Fuel and Fuel Related Expense
Calculation of Uniform Percentage Average Bill Adjustment by Customer Class
NERC 5 Year Average Nuclear Capacity Factor of 92.07% and Projected Period Sales
Test Period Ended December 31, 2021
Billing Period September 2022 - August 2023
Docket E-7, Sub 1263

Sykes Exhibit 2
Schedule 3
Page 3 of 3

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 1250	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)	Sykes Exhibit 1	E + F = G
1	Residential	22,809,193	$ 2,259,696,240	$ 192,033,732	8.50%	0.8419	1.5014	2.3433
2	General Service/Lighting	23,222,537	$ 1,658,017,092	$ 140,901,774	8.50%	0.6067	1.7371	2.3438
3	Industrial	12,202,704	$ 673,497,148	$ 57,235,202	8.50%	0.4690	1.8634	2.3324
4	NC Retail	58,234,434	$ 4,591,210,481	$ 390,170,708				

Total Proposed Composite Fuel Rate:

5	Total Fuel Costs for Allocation	Workpaper 7b	$ 1,698,411,934
6	Total of Renewable and QF Purchased Power Capacity	Exhibit 2 Sch 3, Page 2	23,055,563
7	System Other Fuel Costs	Line 5 - Line 6	$ 1,675,356,371
8	Adjusted Projected System MWh Sales for Fuel Factor	Workpaper 7b	88,132,893
9	NC Retail Projected Billing Period MWh Sales	Line 4	58,234,434
10	Allocation %	Line 9 / Line 8	66.08%
11	NC Retail Other Fuel Costs	Line 7 * Line 10	$ 1,107,075,490
12	NC Renewable and QF Purchased Power - Capacity	Exhibit 2 Sch 3, Page 2	15,441,918
13	NC Retail Total Fuel Costs	Line 11 + Line 12	$ 1,122,517,408
14	NC Retail Projected Billing Period MWh Sales	Line 4	58,234,434
15	Calculated Fuel Rate cents/kWh	Line 13 / Line 14 / 10	1.9276
16	Proposed Composite EMF Rate cents/kWh	Exhibit 3 Page 1	0.4191
17	Proposed Composite EMF Rate Interest cents/kWh	Exhibit 3 Page 1	0.0000
18	Total Proposed Composite Fuel Rate	Sum	2.3467

Total Current Composite Fuel Rate - Docket E-7 Sub 1250:

19	Current composite Fuel Rate cents/kWh	Sykes Exhibit 1	1.6414
20	Current composite EMF Rate cents/kWh	Sykes Exhibit 1	0.0353
21	Current composite EMF Interest Rate cents/kWh	Sykes Exhibit 1	0.0000
22	Total Current Composite Fuel Rate	Sum	1.6767
23	Increase/(Decrease) in Composite Fuel rate cents/kWh	Line 18 - Line 22	0.6700
24	NC Retail Projected Billing Period MWh Sales	Line 4	58,234,434
25	Increase/(Decrease) in Fuel Costs	Line 23 * Line 24 * 10	$ 390,170,708

Note: Rounding differences may occur

Duke Energy Carolinas, LLC
North Carolina Annual Fuel and Fuel Related Expense
Calculation of Experience Modification Factor - Proposed Composite
Test Period Ended December 31, 2021
Billing Period September 2022 - August 2023
Docket E-7, Sub 1263

Sykes 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)	Correction JDA Purchased Power (e)	Revised (Over)/Under Recovery (f)
1	January 2021			5,785,767	$ 1,309,433	$ -	$ 1,309,433
2	February			4,705,197	$ 24,172,571	$ (1,105,173)	$ 23,067,398
3	March [1]			4,216,102	$ (1,280,088)	$ -	$ (1,280,088)
4	April			4,231,666	$ (3,675,665)	$ -	$ (3,675,665)
5	May [1]			3,784,760	$ 9,106,398	$ -	$ 9,106,398
6	June			4,813,118	$ 15,273,578	$ -	$ 15,273,578
7	July			5,540,576	$ 32,252,591	$ -	$ 32,252,591
8	August			5,890,179	$ 37,907,835	$ -	$ 37,907,835
9	September			5,517,651	$ 13,769,502	$ -	$ 13,769,502
10	October [1]			4,297,619	$ 27,401,885	$ -	$ 27,401,885
11	November			4,396,624	$ 64,806,647	$ -	$ 64,806,647
12	December			4,888,703	$ 49,423,931	$ -	$ 49,423,931
13	**Total Test Period**			**58,067,962**	**$ 270,468,622**	**$ (1,105,173)**	**$ 269,363,445**
14	**Adjustment to remove (Over)/Under Recovery - January-February 2021[2]**				$ 25,482,004	$ (1,105,173)	$ 24,376,831
15	**Adjusted (Over)/Under Recovery**						**$ 244,986,614**
16	NC Retail Normalized Test Period MWh Sales					Exhibit 4	58,458,294
17	**Experience Modification Increment (Decrement) cents/kWh**						**0.4191**

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

[2] January and February 2021 filed in Docket E-7, Sub 1250 to update the EMF and included in the current EMF rate. Included for Commission review in accordance with NC Rule R8-55(d)(3) but deducted from total (Over)/Under on Line 15.

Rounding differences may occur

Duke Energy Carolinas, LLC
North Carolina Annual Fuel and Fuel Related Expense
Calculation of Experience Modification Factor - Residential
Test Period Ended December 31, 2021
Billing Period September 2022 - August 2023
Docket E-7, Sub 1263

Line #	Month	Fuel Cost Incurred ¢/kWh (a)	Fuel Cost Billed ¢/kWh (b)	NC Retail MWh Sales (c)	Reported (Over)/ Under Recovery (d)	Correction JDA Purchased Power (e)	Revised (Over)/Under Recovery (f)
1	January 2021	1.4543	1.6027	2,427,681	$ (3,602,217)	$ -	$ (3,602,217)
2	February	1.8056	1.6027	2,047,050	$ 4,154,380	$ (396,210)	$ 3,758,170
3	March [1]	1.2642	1.6027	1,996,845	$ (7,158,737)	$ -	$ (7,158,737)
4	April	1.5283	1.6027	1,585,020	$ (1,178,659)	$ -	$ (1,178,659)
5	May [1]	2.0368	1.6027	1,288,098	$ 5,643,932	$ -	$ 5,643,932
6	June	1.9547	1.6027	1,774,699	$ 6,246,872	$ -	$ 6,246,872
7	July	2.1114	1.6027	2,146,583	$ 10,918,699	$ -	$ 10,918,699
8	August	2.2422	1.6027	2,212,544	$ 14,149,173	$ -	$ 14,149,173
9	September	1.7462	1.5655	2,129,356	$ 3,848,250	$ -	$ 3,848,250
10	October [1]	2.3928	1.5337	1,481,929	$ 11,889,253	$ -	$ 11,889,253
11	November	3.5580	1.5337	1,359,179	$ 27,513,197	$ -	$ 27,513,197
12	December	2.2952	1.5337	1,975,540	$ 15,044,028	$ -	$ 15,044,028
13	**Total Test Period**			**22,424,524**	**$ 87,468,172**	**$ (396,210)**	**$ 87,071,961**
14	Test Period Wtd Avg. ¢/kWh	1.9797	1.5843				
15	Adjustment to remove (Over)/Under Recovery - January-February 2021 [2]				$ 552,163	$ (396,210)	$ 155,953
16	**Adjusted (Over)/Under Recovery**						**$ 86,916,008**
17	NC Retail Normalized Test Period MWh Sales					Exhibit 4	22,961,890
18	**Experience Modification Increment (Decrement) cents/kWh**						**0.3785**

Notes:

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

[2] January and February 2021 filed in Docket E-7, Sub 1250 to update the EMF and included in the current EMF rate. Included for Commission review in accordance with NC Rule R8-55(d)(3) but deducted from total (Over)/Under on Line 16.

Rounding differences may occur

Duke Energy Carolinas, LLC
North Carolina Annual Fuel and Fuel Related Expense
Calculation of Experience Modification Factor - GS/Lighting
Test Period Ended December 31, 2021
Billing Period September 2022 - August 2023
Docket E-7, Sub 1263

Sykes Exhibit 3
Page 3 of 4

Line #	Month	Fuel Cost Incurred ¢/kWh (a)	Fuel Cost Billed ¢/kWh (b)	NC Retail MWh Sales (c)	Reported (Over)/ Under Recovery (d)	Correction JDA Purchased Power (e)	Revised (Over)/Under Recovery (f)
1	January 2021	1.8948	1.7583	2,224,452	$ 3,036,294	$ -	$ 3,036,294
2	February	2.5796	1.7583	1,711,092	$ 14,053,467	$ (474,850)	$ 13,578,617
3	March [1]	2.0380	1.7583	1,477,172	$ 3,654,007	$ -	$ 3,654,007
4	April	1.6824	1.7583	1,719,557	$ (1,305,025)	$ -	$ (1,305,025)
5	May [1]	1.8862	1.7583	1,656,907	$ 2,072,505	$ -	$ 2,072,505
6	June	2.0391	1.7583	2,021,651	$ 5,677,153	$ -	$ 5,677,153
7	July	2.3469	1.7583	2,284,951	$ 13,448,970	$ -	$ 13,448,970
8	August	2.5564	1.7583	2,286,069	$ 18,244,441	$ -	$ 18,244,441
9	September	1.9616	1.7212	2,297,610	$ 5,524,126	$ -	$ 5,524,126
10	October [1]	2.1455	1.6895	2,004,794	$ 8,129,521	$ -	$ 8,129,521
11	November	3.3527	1.6895	1,759,969	$ 29,272,230	$ -	$ 29,272,230
12	December	2.8474	1.6895	1,952,172	$ 22,604,847	$ -	$ 22,604,847
13	**Total Test Period**			**23,396,396**	**$ 124,412,536**	**$ (474,850)**	**$ 123,937,686**
14	Test Period Wtd Avg. ¢/kWh	2.2762	1.7378				
15	Adjustment to remove (Over)/Under Recovery - January-February 2021[2]				$ 17,089,761	$ (474,850)	$ 16,614,911
16	**Adjusted (Over)/Under Recovery**						**$ 107,322,775**
17	NC Retail Normalized Test Period MWh Sales					Exhibit 4	23,202,419
18	**Experience Modification Increment (Decrement) cents/kWh**						**0.4625**

Notes:

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

[2] January and February 2021 filed in Docket E-7, Sub 1250 to update the EMF and included in the current EMF rate. Included for Commission review in accordance with NC Rule R8-55(d)(3) but deducted from total (Over)/Under on Line 16.

Rounding differences may occur

Duke Energy Carolinas, LLC
North Carolina Annual Fuel and Fuel Related Expense
Calculation of Experience Modification Factor - Industrial
Test Period Ended December 31, 2021
Billing Period September 2022 - August 2023
Docket E-7, Sub 1263

Sykes Exhibit 3
Page 4 of 4

Line #	Month	Fuel Cost Incurred ¢/kWh (a)	Fuel Cost Billed ¢/kWh (b)	NC Retail MWh Sales (c)	Reported (Over)/ Under Recovery (d)	Correction JDA Purchased Power (e)	Revised (Over)/Under Recovery (f)
1	January 2021	1.8306	1.6652	1,133,633	$ 1,875,356	$ -	$ 1,875,356
2	February	2.2950	1.6652	947,056	$ 5,964,724	$ (234,113)	$ 5,730,612
3	March [1]	1.9967	1.6652	742,085	$ 2,224,644	$ -	$ 2,224,644
4	April	1.5366	1.6652	927,089	$ (1,191,979)	$ -	$ (1,191,979)
5	May [1]	1.8321	1.6652	839,755	$ 1,389,961	$ -	$ 1,389,961
6	June	1.9946	1.6652	1,016,768	$ 3,349,552	$ -	$ 3,349,552
7	July	2.3762	1.6652	1,109,043	$ 7,884,922	$ -	$ 7,884,922
8	August	2.0615	1.6652	1,391,565	$ 5,514,222	$ -	$ 5,514,222
9	September	2.1003	1.6971	1,090,684	$ 4,397,125	$ -	$ 4,397,125
10	October [1]	2.6966	1.7243	810,897	$ 7,383,110	$ -	$ 7,383,110
11	November	2.3522	1.7243	1,277,476	$ 8,021,220	$ -	$ 8,021,220
12	December	2.9496	1.7243	960,991	$ 11,775,057	$ -	$ 11,775,057
13	**Total Test Period**			**12,247,042**	**$ 58,587,915**	**$ (234,113)**	**$ 58,353,802**
14	Test Period Wtd Avg. ¢/kWh	2.1672	1.6828				
15	Adjustment to remove (Over)/Under Recovery - January-March 2020[2]				$ 7,840,080	$ (234,113)	$ 7,605,968
16	**Adjusted (Over)/Under Recovery**						**$ 50,747,835**
17	NC Retail Normalized Test Period MWh Sales					Exhibit 4	12,293,985
18	**Experience Modification Increment (Decrement) cents/KWh**						**0.4128**

Notes:

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

[2] January and February 2021 filed in Docket E-7, Sub 1250 to update the EMF and included in the current EMF rate. Included for Commission review in accordance with NC Rule R8-55(d)(3) but deducted from total (Over)/Under on Line 16.

Rounding differences may occur

Duke Energy Carolinas, LLC
North Carolina Annual Fuel and Fuel Related Expense
Sales, Fuel Revenue, Fuel Expense and System Peak
Test Period Ended December 31, 2021
Billing Period September 2022 - August 2023
Docket E-7, Sub 1263

Sykes Exhibit 4

Line #	Description	Reference	Total Company	North Carolina Retail	North Carolina Residential	North Carolina General Service/Lighting	North Carolina Industrial
1	Test Period MWh Sales (excluding inter system sales)	Exhibit 6 Schedule 1 (Line 4) and Workpaper 11 (NC Retail)	86,551,610	58,067,962	22,424,524	23,396,396	12,247,042
2	Customer Growth MWh Adjustment	Workpaper 13 Pg 1	128,987	(23,093)	198,268	(239,223)	17,862
3	Weather MWh Adjustment	Workpaper 12 Pg 1	596,003	413,425	339,099	45,245	29,081
4	Total Normalized MWh Sales	Sum	87,276,600	58,458,294	22,961,890	23,202,419	12,293,985
5	Test Period Fuel and Fuel Related Revenue *		$ 1,449,831,492	$ 967,961,388			
6	Test Period Fuel and Fuel Related Expense *		$ 1,845,020,858	$ 1,238,430,010			
7	Test Period Unadjusted (Over)/Under Recovery		$ 395,189,366	$ 270,468,622			

		2020 Summer Coincidental Peak (CP) kW
8	Total System Peak	17,438,327
9	NC Retail Peak	11,665,772
10	NC Residential Peak	5,482,921
11	NC General Service/Lighting Peak	4,326,963
12	NC Industrial Peak	1,855,888

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

Rounding differences may occur

Duke Energy Carolinas, LLC
North Carolina Annual Fuel and Fuel Related Expense
Nuclear Capacity Ratings
Test Period Ended December 31, 2021
Billing Period September 2022 - August 2023
Docket E-7, Sub 1263

Sykes Exhibit 5

Unit	Rate Case Docket E-7, Sub 1214	Fuel Docket E-7, Sub 1250	Proposed Capacity Rating MW
Oconee Unit 1	847.0	847.0	847.0
Oconee Unit 2	848.0	848.0	848.0
Oconee Unit 3	859.0	859.0	859.0
McGuire Unit 1	1,158.0	1,158.0	1,158.0
McGuire Unit 2	1,157.6	1,157.6	1,157.6
Catawba Unit 1	1,160.1	1,160.1	1,160.0
Catawba Unit 2	1,150.1	1,150.1	1,150.1
Total Company	7,179.8	7,179.8	7,179.7

Sykes Exhibit 6

DECEMBER 2021 MONTHLY FUEL FILING

Sykes Exhibit 6
Schedule 1

DUKE ENERGY CAROLINAS
SUMMARY OF MONTHLY FUEL REPORT

Docket No. E-7, Sub 1248

Line No.		December 2021	12 Months Ended December 2021
1	Fuel and fuel-related costs	$ 189,923,750	$ 1,841,186,117
	MWH sales:		
2	Total system sales	7,230,301	87,792,832
3	Less intersystem sales	48,877	1,241,222
4	Total sales less intersystem sales	7,181,424	86,551,610
5	Total fuel and fuel-related costs (¢/KWH) (line 1/line 4)	2.6447	2.1273
6	Current fuel and fuel-related cost component (¢/KWH) (per Schedule 4, Line 7a Total)	1.6334	
	Generation Mix (MWH):		
	Fossil (by primary fuel type):		
7	Coal	285,789	13,569,695
8	Fuel Oil	2,720	53,988
9	Natural Gas - Combined Cycle	1,298,695	14,542,974
10	Natural Gas - Combined Heat and Power	9,589	15,739
11	Natural Gas - Combustion Turbine	61,155	1,131,529
12	Natural Gas - Steam	973,777	7,231,653
13	Biogas	1,215	21,502
14	Total fossil	2,632,940	36,567,080
15	Nuclear 100%	5,245,391	60,454,296
16	Hydro - Conventional	65,561	1,950,233
17	Hydro - Pumped storage	(77,236)	(610,077)
18	Total hydro	(11,675)	1,340,156
19	Solar Distributed Generation	15,972	293,289
20	Total MWH generation	7,882,628	98,654,821
21	Less joint owners' portion - Nuclear	1,413,367	15,008,712
22	Less joint owners' portion - Combined Cycle	70,455	744,961
23	Adjusted total MWH generation	6,398,806	82,901,148

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

Sykes Exhibit 6
Schedule 2

DUKE ENERGY CAROLINAS
DETAILS OF FUEL AND FUEL-RELATED COSTS

Docket No. E-7, Sub 1248

Fuel and fuel-related costs:	December 2021	12 Months Ended December 2021
0501110 coal consumed - steam	$ 9,829,322	$ 428,535,150
0501310 fuel oil consumed - steam	86,054	1,264,107
0501330 fuel oil light-off - steam	10,457	1,119,252
Total Steam Generation - Account 501	9,925,833	430,918,509
Nuclear Generation - Account 518		
0518100 burnup of owned fuel	21,591,353	259,578,561
Other Generation - Account 547		
0547100, 0547124 - natural gas consumed - Combustion Turbine	4,412,048	49,551,008
0547100 - Combustion Turbine - credit for inefficient fuel cost	(126,494)	(1,524,868)
0547100 natural gas consumed - Steam	61,810,549	331,328,622
0547101 natural gas consumed - Combined Cycle	54,245,577	392,828,920
0547101 natural gas consumed - Combined Heat and Power	817,949	1,710,128
0547106 biogas consumed - Combined Cycle	65,711	1,161,456
0547200 fuel oil consumed - Combustion Turbine	225,631	6,445,339
Total Other Generation - Account 547	121,450,971	781,500,605
Reagents		
Reagents (lime, limestone, ammonia, urea, dibasic acid, and sorbents)	851,596	18,393,982
Total Reagents	851,596	18,393,982
By-products		
Net proceeds from sale of by-products	905,813	6,884,190
Total By-products	905,813	6,884,190
Total Fossil and Nuclear Fuel Expenses		
Included in Base Fuel Component	154,725,566	1,497,275,847
Purchased Power and Net Interchange - Account 555		
Capacity component of purchased power (economic)	215,310	10,765,481
Capacity component of purchased power (renewables)	662,095	16,335,530
Capacity component of purchased power (PURPA)	281,956	8,934,137
Fuel and fuel-related component of purchased power	36,195,486	353,899,479
Total Purchased Power and Net Interchange - Account 555	37,354,847	389,934,627
Less:		
Fuel and fuel-related costs recovered through intersystem sales	2,010,944	44,191,701
Fuel in loss compensation	138,819	1,368,818
Solar Integration Charge	(2,826)	(2,826)
Lincoln CT marginal fuel revenue	39,124	246,896
Miscellaneous Fees Collected	(29,400)	219,768
Total Fuel Credits - Accounts 447 /456	2,156,661	46,024,357
Total Fuel and Fuel-related Costs	$ 189,923,750	$ 1,841,186,117

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

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

DEC 2021

Sykes Exhibit 6
Schedule 3 - Purchases

Purchased Power	Total	Capacity	Non-capacity			
Economic	$	$	mWh	Fuel $	Fuel-related $	Not Fuel $ Not Fuel-related $
Carolina Power Partners, LLC	$ 573,300	-	11,400	$ 349,713	$ 223,587	
Cherokee County Cogeneration Partners	1,980,350	$ 215,310	32,635	1,605,083	159,957	
DE Progress - Native Load Transfer	20,239,048	-	573,789	19,367,526	861,570	$ 9,952
DE Progress - Native Load Transfer Benefit	3,261,712	-	-	3,261,712	-	
Haywood Electric - Economic	38,342	19,790	332	11,317	7,235	
Macquarie Energy, LLC	357,584	-	7,413	218,126	139,458	
NCMPA - Economic	335,160	-	9,120	204,448	130,712	
Piedmont Municipal Power Agency	710,145	-	21,612	417,565	292,580	
PJM Interconnection, LLC.	12,874	-	300	7,853	5,021	
Town of Dallas	584	584	-	-	-	
Town of Forest City	19,856	19,856	-	-	-	
	$ 28,978,259	**$ 255,540**	**698,740**	**$ 26,295,173**	**$ 2,417,594**	**$ 9,952**
Renewable Energy						
REPS	$ 5,049,069	$ 642,188	91,397	$ -	$ 4,406,882	
DERP - Purchased Power	304,103	19,907	5,264	-	205,494	78,703
DERP - Net Metered Generation	553	-	20			553
	$ 5,353,725	**$ 662,095**	**96,682**	**$ -**	**$ 4,612,376**	**$ 79,256**
HB589 PURPA Purchases						
CPRE - Purchased Power	(20,000)	-	-			(20,000)
Qualifying Facilities	2,710,938	281,956	49,804		2,343,504	85,478
	$ 2,690,938	**$ 281,956**	**49,804**	**$ -**	**$ 2,343,504**	**$ 65,478**
Non-dispatchable / Other						
Blue Ridge Electric Membership Corp.	1,100,555	$ 617,591	25,631	294,608		188,356
Haywood Electric	202,825	104,398	4,343	60,040		38,386
Macquarie Energy, LLC	60,500	-	1,100	36,905		23,595
NCEMC - Other	3,133	3,133	-	-		-
Piedmont Electric Membership Corp.	523,997	293,984	11,904	140,308		89,705
Generation Imbalance	683,926	-	20,622	412,075		271,851
Energy Imbalance - Purchases	63,494	-	6,933	32,476		31,018
Energy Imbalance - Sales	306,460	-	-	(49,070)		355,530
Other Purchases	717	-	28	-		717
	$ 2,945,607	**$ 1,019,107**	**70,561**	**$ 927,342**	**$ -**	**$ 999,158**
	-					
Total Purchased Power	**$ 39,968,528**	**$ 2,218,697**	**915,787**	**$ 27,222,515**	**$ 9,373,473**	**$ 1,153,843**
Interchanges In						
Other Catawba Joint Owners	7,311,950	-	710,249	4,176,265		3,135,685
WS Lee Joint Owner	1,557,572		29,613	1,437,844		119,728
Total Interchanges In	8,869,522	-	739,862	5,614,110	-	3,255,412
Interchanges Out						
Other Catawba Joint Owners	(7,168,642)	(134,209)	(693,456)	(4,077,519)		(2,956,913)
Catawba- Net Negative Generation	-	-	-	-		-
WS Lee Joint Owner	(2,094,784)		(40,405)	(1,937,093)		(157,691)
Total Interchanges Out	(9,263,426)	(134,209)	(733,861)	(6,014,612)	-	(3,114,604)
Net Purchases and Interchange Power	**$ 39,574,624**	**$ 2,084,488**	**921,788**	**$ 26,822,013**	**$ 9,373,473**	**$ 1,294,651**

NOTE: Detail amounts may not add to totals shown due to rounding.
CPRE purchased power amounts are recovered through the CPRE Rider.

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

DEC 2021

Sales	Total $	Capacity $	Non-capacity mWh	Non-capacity Fuel $	Non-capacity Non-fuel $
Utilities:					
SC Public Service Authority - Emergency	-	-	-	-	-
Market Based:					
Central Electric Power Cooperative, Inc.	-	$ -	-	-	-
Macquarie Energy, LLC	46,500	-	1,400	36,695	9,805
NCMPA	91,919	87,500	81	5,027	(608)
PJM Interconnection, LLC.	-	-	-	-	-
Other:					
DE Progress - Native Load Transfer Benefit	274,561	-	-	274,561	-
DE Progress - Native Load Transfer	1,685,438	-	45,652	1,658,000	27,439
Generation Imbalance	42,056	-	1,744	36,660	5,396
Total Intersystem Sales	**$ 2,139,006**	**$ 87,500**	**48,877**	**$ 2,010,944**	**$ 40,562**

* 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
DEC 2021

Sykes Exhibit 6
Schedule 3 - Purchases
Page 3 of 5

Purchased Power	Total	Capacity	Non-capacity			
Economic	$	$	mWh	Fuel $	Fuel-related $	Not Fuel $ Not Fuel-related $
Carolina Power Partners, LLC	$ 1,787,160	-	42,160	$ 1,090,168	$ 696,992	
Cherokee County Cogeneration Partners	25,303,689	$ 10,765,481	370,824	12,687,649	1,850,559	
Cube Yadkin Generation LLC	606,505	-	37,958	369,968	236,537	
DE Progress - Native Load Transfer	185,028,516	-	5,779,506	174,196,837	10,756,889	$ 74,790
DE Progress - Native Load Transfer (Prior Period Adjust)	-	-	-	-	-	
DE Progress - Native Load Transfer Benefit	21,186,870	-	-	21,186,870	-	
DE Progress - Fees	3,126	-	-	-	3,126	
EDF Trading North America, LLC.	-	-	-	-	-	
Exelon Generation Company, LLC.	311,275	-	4,945	189,878	121,397	
Florida Power & Light Company	-	-	-	-	-	
Haywood Electric - Economic	337,984	235,484	1,819	62,525	39,975	
Macquarie Energy, LLC	4,176,326	-	90,110	2,547,559	1,628,767	
NCEMC	-	-	-	-	-	
NCMPA	1,794,926	-	48,595	1,050,744	744,183	
NCMPA Load Following Economic	12,832,732	-	405,883	7,389,860	5,442,872	
Piedmont Municipal Power Agency	3,474,337	-	120,036	2,007,947	1,466,390	
PJM Interconnection, LLC.	189,850	-	5,700	115,809	74,042	
South Carolina Electric & Gas Company / Dominion Energy	152,750	-	3,550	92,690	60,061	
Southern Company Services, Inc.	706,464	-	20,793	430,943	275,521	
Tennesse Valley Authority	280,504	-	7,231	171,107	109,397	
The Energy Authority	69,600	-	2,400	42,456	27,144	
Town of Dallas	7,008	7,008	-	-	-	
Town of Forest City	238,272	238,272	-	-	-	
	$ 258,487,895	**$ 11,246,246**	**6,941,510**	**$ 223,633,007**	**$ 23,533,853**	**$ 74,790**
Renewable Energy						
REPS	$ 73,398,098	$ 16,092,597	1,192,575	$ -	$ 57,305,502	$ -
DERP - Purchased Power	3,789,475	242,933	65,917	-	2,583,689	962,853
DERP - Net Metered Generation	52,349	(56)	1,943	-		52,406
	$ 77,239,922	**$ 16,335,474**	**1,260,435**	**$ -**	**$ 59,889,191**	**$ 1,015,259**
HB589 PURPA Purchases						
CPRE - Purchased Power	$ (70,000)	$ -	-			$ (70,000)
Qualifying Facilities	43,116,103	8,934,138	714,046		$ 33,167,413	1,014,555
	$ 43,046,103	**$ 8,934,138**	**714,046**	**$ -**	**$ 33,167,413**	**$ 944,555**

Sykes Exhibit 6
Schedule 3 - Purchases
Page 4 of 5

Non-dispatchable / Other						
Blue Ridge Electric Membership Corp.	13,391,449	7,266,227	299,086	3,736,386		2,388,837
Carolina Power Partners, LLC	1,101,300	-	26,310	671,793		429,507
DE Progress - As Available Capacity	302,530	302,530	-	-		-
Exelon Generation Company, LLC.	131,200	-	1,600	80,032		51,168
Haywood Electric	2,619,594	1,317,250	55,640	794,430		507,914
Macquarie Energy, LLC	10,866,055	-	182,317	6,628,294		4,237,761
NCEMC - Other	724,944	30,315	8,941	423,724		270,905
NCMPA - Reliability	316,144	-	3,496	192,848		123,296
Piedmont Electric Membership Corp.	6,410,149	3,460,962	140,160	1,799,004		1,150,182
Southern Company Services, Inc.	541,806	-	6,886	330,502		211,304
Generation Imbalance	2,987,298		75,257	1,636,681		1,350,617
Energy Imbalance - Purchases	1,644,938		(77,146)	1,358,681		286,257
Energy Imbalance - Sales	(4,528,599)		-	(4,307,002)		(221,597)
Other Purchases	6,183	-	228	-		6,183
	$ 36,514,991	**$ 12,377,283**	**722,775**	**$ 13,345,372**	**$ -**	**$ 10,792,336**
Total Purchased Power	**$ 415,288,911**	**$ 48,893,141**	**9,638,766**	**$ 236,978,379**	**$ 116,590,457**	**$ 12,826,940**
						(6)
Interchanges In						
Other Catawba Joint Owners	71,832,695	-	7,544,326	42,400,464		29,432,231
WS Lee Joint Owner	15,839,014	-	462,339	13,941,298		1,897,716
Total Interchanges In	87,671,709	-	8,006,664	56,341,761	-	31,329,947
Interchanges Out						
Other Catawba Joint Owners	(74,348,518)	(1,580,207)	(7,701,093)	(43,504,130)		(29,264,180)
Catawba- Net Negative Generation	(258,387)	-	(13,290)	(214,466)		(43,921)
WS Lee Joint Owner	(14,126,778)	-	(402,026)	(12,292,521)		(1,834,257)
Total Interchanges Out	(88,733,683)	(1,580,207)	(8,116,409)	(56,011,117)	-	(31,142,358)
Net Purchases and Interchange Power	**$ 414,226,937**	**$ 47,312,934**	**9,529,021**	**$ 237,309,023**	**$ 116,590,457**	**$ 13,014,529**

NOTES: Detail amounts may not add to totals shown due to rounding.
CPRE purchased power amounts are recovered through the CPRE Rider.

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

Twelve Months Ended
DEC 2021

Sales	Total $	Capacity $	Non-capacity mWh	Non-capacity Fuel $	Non-capacity Non-fuel $
Utilities:					
SC Public Service Authority - Emergency	506,304	-	5,909	429,565	76,740
SC Electric & Gas / Dominion Energy - Emergency	49,990	-	1,091	52,118	(2,128)
Market Based:					
Carolina Power Partners, LLC	134,880	-	2,780	109,765	25,115
Central Electric Power Cooperative, Inc.	4,590,375	$ 4,809,001	(5,516)	(209,410)	(9,216)
Macquarie Energy, LLC	3,477,999	-	97,200	3,350,868	127,130
NCMPA	1,376,522	1,050,000	6,271	337,204	(10,682)
PJM Interconnection, LLC.	219,886	-	8,198	207,112	12,773
SC Electric & Gas / Dominion Energy	191,976	-	3,925	151,852	40,123
Southern Company	18,750	-	1,250	22,085	(3,335)
Tennesse Valley Authority	1,800	-	50	1,674	126
The Energy Authority	246,025	-	3,875	211,674	34,351
Other:					
DE Progress - Native Load Transfer Benefit	5,711,116	-	-	5,711,116	-
DE Progress - Native Load Transfer	35,200,938	-	1,094,952	33,084,586	2,116,352
Generation Imbalance	740,062	-	21,237	731,493	8,569
BPM Transmission	(635,177)	-	-	-	(635,177)
Total Intersystem Sales	**$ 51,831,446**	**$ 5,859,001**	**1,241,222**	**$ 44,191,701**	**$ 1,780,742**

* Sales for resale other than native load priority.

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

Sykes Exhibit 6
Schedule 4
Page 1 of 2

Duke Energy Carolinas
(Over) / Under Recovery of Fuel Costs
Dec 2021

Line No.			Residential	Commercial	Industrial	Total
1	Actual System kWh sales	Input				7,181,424,304
2	DERP Net Metered kWh generation	Input				10,166,360
3	Adjusted System kWh sales	L1 + L2				7,191,590,664
4	N.C. Retail kWh sales	Input	1,975,539,867	1,952,172,317	960,990,889	4,888,703,073
5	NC kWh sales % of actual system kWh sales	L4 T / L1				68.07%
6	NC kWh sales % of adjusted system kWh sales	L4 T / L3				67.98%
7	Approved fuel and fuel-related rates (¢/kWh)					
	7a Billed rates by class (¢/kWh)	Input Annually	1.5337	1.6895	1.7243	1.6334
	7b Billed fuel expense	L7b * L4 / 100	$30,298,855	$32,981,951	$16,570,366	$79,851,172
8	Incurred base fuel and fuel-related (less renewable purchased power capacity) rates by class (¢/kWh)					
	8a Docket E-7, Sub 1228 allocation factor	Input	35.00%	43.03%	21.96%	
	8b System incurred expense	Input				$189,029,546
	8c Incurred base fuel and fuel-related expense	L8b * L6 * 8a	$44,977,890	$55,298,766	$28,221,943	$128,498,599
	8d Incurred base fuel rates by class (¢/kWh)	L8c / L4 * 100	2.2767	2.8327	2.9368	2.6285
9	Incurred renewable purchased power capacity rates by class (¢/kWh)					
	9a NC retail production plant %	Input				66.98%
	9b Production plant allocation factors	Input	47.00%	37.09%	15.90%	100.00%
	9c System incurred expense	Input				$1,159,361
	9d Incurred renewable capacity expense	L9a * L9b * 9c	$364,993	$288,032	$123,480	$776,505
	9e Incurred renewable capacity rates by class (¢/kWh)	(L9a * L9c) * L9b / L4 * 100	0.0185	0.0148	0.0128	0.0159
10	Total incurred rates by class (¢/kWh)	L8d + L9e	2.2952	2.8474	2.9496	2.6444
11	Difference in ¢/kWh (incurred - billed)	L7a - L10	0.7615	1.1579	1.2253	1.0110
12	(Over) / under recovery [See footnote]	(L4 * L11) / 100	$15,044,028	$22,604,847	$11,775,057	$49,423,931
13	Adjustments	Input				
14	Total (over) / under recovery [See footnote]	L12+ L13	$15,044,028	$22,604,847	$11,775,057	$49,423,931
15	Total system incurred expense	L8b + L9c				$190,188,907
16	Less: Jurisdictional allocation adjustment(s)	Input				265,155
17	Total Fuel and Fuel-related Costs per Schedule 2	L15 + L16 + L17				$189,923,752
18	(Over) / under recovery for each month of the current calendar year [See footnote]					

Sykes Exhibit 6
Schedule 4
Page 2 of 2

		(Over) / Under Recovery				
	Year 2021	Total To Date	Residential	Commercial	Industrial	Total Company
	January	$1,309,433	($3,602,217)	$3,036,294	$1,875,356	$1,309,433
	February	25,482,004	$4,154,380	$14,053,467	$5,964,724	$24,172,571
_/1	March	24,201,918	($7,158,737)	$3,654,007	$2,224,644	($1,280,086)
	April	20,526,255	($1,178,659)	($1,305,025)	($1,191,979)	($3,675,663)
_/1	May	29,632,653	$5,643,932	$2,072,505	$1,389,961	$9,106,398
	June	44,906,231	$6,246,872	$5,677,153	$3,349,552	$15,273,578
	July	77,158,822	$10,918,699	$13,448,970	$7,884,922	$32,252,591
	August	115,066,658	$14,149,173	$18,244,441	$5,514,222	$37,907,836
	September	128,836,159	$3,848,250	$5,524,126	$4,397,125	$13,769,501
	October	156,238,043	$11,889,253	$8,129,521	$7,383,110	$27,401,884
	November	$221,044,690	$27,513,197	$29,272,230	$8,021,220	$64,806,647
	December	$270,468,622	$15,044,028	$22,604,847	$11,775,057	$49,423,932
			$87,468,172	$124,412,536	$58,587,915	$270,468,622

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 adjustments.

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

Sykes Exhibit 6
Schedule 5
Page 1 of 2

DUKE ENERGY CAROLINAS
FUEL AND FUEL RELATED COST REPORT
DECEMBER 2021

Description	Buck CC	Dan River CC	Lee CC	Clemson CHP	Lee Steam/CT	Lincoln CT	(A) Lincoln (Unit17) CT	Mill Creek CT	Rockingham CT
Cost of Fuel Purchased ($)									
Coal									
Oil	-	-	-		-	-	-	682,026	342,571
Gas - CC	$18,337,524	$14,701,746	$24,724,237						
Gas - CHP				$817,949					
Gas - CT					$14,021	$6,134	($127,461)	$293,036	$4,099,824
Gas - Steam					3				
Biogas	-	221,776	-						
Total	$18,337,524	$14,923,522	$24,724,237	$817,949	$14,024	$6,134	($127,461)	$975,062	$4,442,395
Average Cost of Fuel Purchased (¢/MBTU)									
Coal		-							
Oil					-	-	-	1,672.86	1,655.96
Gas - CC	632.40	632.14	634.66						
Gas - CHP				715.93					
Gas - CT					-	1,792.50	(1,005.99)	653.43	636.17
Gas - Steam					-				
Biogas	-	2,601.47	-						
Weighted Average	632.40	639.34	634.66	715.93	-	1,792.50	(1,005.99)	1,138.88	667.89
Cost of Fuel Burned ($)									
Coal		-	-		-				
Oil - CC	-	-	-						
Oil - Steam/CT					$49,924	-	154,413	21,294	-
Gas - CC	$18,337,524	$14,701,746	$24,724,237						
Gas - CHP				$817,949					
Gas - CT					14,021	$6,134	($127,461)	$293,036	$4,099,824
Gas - Steam					3				
Biogas	-	221,776	-						
Nuclear									
Total	$18,337,524	$14,923,522	$24,724,237	$817,949	$63,949	$6,134	$26,952	$314,330	$4,099,824
Average Cost of Fuel Burned (¢/MBTU)									
Coal					-				
Oil - CC									
Oil - Steam/CT					1,400.40	-	1,105.56	1,784.91	-
Gas - CC	632.40	632.14	634.66						
Gas - CHP				715.93					
Gas - CT					-	1,792.50	(1,005.99)	653.43	636.17
Gas - Steam					-				
Biogas	-	2,601.47	-						
Nuclear									
Weighted Average	632.40	639.34	634.66	715.93	1,793.79	1,792.50	101.18	682.75	636.17
Average Cost of Generation (¢/kWh)									
Coal		-	-		-	-	-		
Oil - CC	-	-	-						
Oil - Steam/CT		-	-		-	-	15.06	1.68	-
Gas - CC	4.44	4.43	4.47						
Gas - CHP				8.53					
Gas - CT					-	-	-	15.22	6.76
Gas - Steam					-	-	-	-	-
Biogas	-	18.25	-						
Nuclear									
Weighted Average	4.44	4.48	4.47	8.53	-	-	5.90	9.84	6.76
Burned MBTU's									
Coal					-				
Oil - CC									
Oil - Steam/CT					3,565	-	13,967	1,193	-
Gas - CC	2,899,674	2,325,698	3,895,675						
Gas - CHP				114,250					
Gas - CT					-	342	12,670	44,846	644,452
Gas - Steam					-				
Biogas	-	8,525	-						
Nuclear									
Total	2,899,674	2,334,223	3,895,675	114,250	3,565	342	26,637	46,039	644,452
Net Generation (mWh)									
Coal									
Oil - CC									
Oil - Steam/CT		-	-		(34)	-	1,025	1,269	-
Gas - CC	413,337	332,121	553,237		-				
Gas - CHP				9,589					
Gas - CT					(0)	(855)	(568)	1,925	60,653
Gas - Steam					(388)				
Biogas	-	1,215	-						
Nuclear 100%									
Hydro (Total System)									
Solar (Total System)									
Total	413,337	333,336	553,237	9,589	(422)	(855)	457	3,194	60,653
Cost of Reagents Consumed ($)									
Ammonia	$45,251	$0	$27,467						
Limestone									
Sorbents									
Urea									
Re-emission Chemical									
Dibasic Acid									
Activated Carbon									
Lime (water emissions)									
Total	$45,251	$0	$27,467						

Notes:
(A) Lincoln (Unit 17) fuel and fuel related costs represents pre-commercial generation during an extended testing and validation period.
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.

Sykes Exhibit 6
Schedule 5
Page 2 of 2

DUKE ENERGY CAROLINAS
FUEL AND FUEL RELATED COST REPORT
DECEMBER 2021

Description	Allen	Marshall	Belews Creek	Cliffside	Catawba	McGuire	Oconee	Current Month	Total 12 ME December 2021
	Steam	Steam - Dual Fuel	Steam - Dual Fuel	Steam - Dual Fuel	Nuclear	Nuclear	Nuclear		
Cost of Fuel Purchased ($)									
Coal	$9,147	$13,307,577	$3,448,822	$4,617,247				21,382,792	$427,384,699
Oil	17,051	-	-	104,088				1,145,737	8,620,241
Gas - CC								57,763,507	416,957,828
Gas - CHP								817,949	1,710,128
Gas - CT								4,285,554	48,026,140
Gas - Steam		19,910,055	20,938,211	20,962,280				61,810,549	331,328,622
Biogas								221,776	3,513,761
Total	$26,198	$33,217,632	$24,387,033	$25,683,615				$147,427,864	$1,237,541,419
Average Cost of Fuel Purchased (¢/MBTU)									
Coal	-	341.95	388.15	353.46				351.32	311.27
Oil	1,657.42	-	-	1,659.76				1,666.35	1,557.24
Gas - CC								633.30	406.84
Gas - CHP								715.93	718.56
Gas - CT								639.90	378.17
Gas - Steam		632.16	632.96	644.19				636.47	447.74
Biogas				.				2,601.47	2,304.35
Weighted Average	2,546.48	471.76	581.13	562.42				571.14	377.95
Cost of Fuel Burned ($)									
Coal	$65,756	$5,862,319	$2,100,615	$1,800,631				$9,829,322	$428,535,150
Oil - CC								-	-
Oil - Steam/CT	29,766	10,457	-	56,288				322,142	8,828,699
Gas - CC								57,763,507	416,957,828
Gas - CHP								817,949	1,710,128
Gas - CT								4,285,554	48,026,140
Gas - Steam		19,910,055	20,938,211	20,962,280				61,810,549	331,328,622
Biogas								221,776	3,513,761
Nuclear					$10,271,789	$9,549,235	$10,065,209	29,886,234	346,155,577
Total	$95,522	$25,782,831	$23,038,826	$22,819,199	$10,271,789	$9,549,235	$10,065,209	$164,937,032	$1,585,055,905
Average Cost of Fuel Burned (¢/MBTU)									
Coal	308.89	306.80	326.30	296.55				308.80	323.27
Oil - CC								-	-
Oil - Steam/CT	1,714.61	1,448.33	-	1,600.91				1,304.27	1,513.70
Gas - CC								633.30	406.84
Gas - CHP								715.93	718.56
Gas - CT								639.90	378.17
Gas - Steam		632.16	632.96	644.19				636.47	447.74
Biogas								2,601.47	2,304.35
Nuclear					58.89	54.27	58.00	57.04	56.91
Weighted Average	414.88	509.44	583.01	590.45	58.89	54.27	58.00	219.17	170.26
Average Cost of Generation (¢/kWh)									
Coal	-	3.39	3.67	3.13				3.44	3.16
Oil - CC								-	-
Oil - Steam/CT	47.38	22.07	-	16.10				11.84	16.35
Gas - CC								4.45	2.87
Gas - CHP								8.53	10.87
Gas - CT								7.01	4.24
Gas - Steam		5.99	6.50	6.56				6.35	4.58
Biogas								18.25	16.34
Nuclear					0.59	0.54	0.59	0.57	0.57
Weighted Average	-	5.10	6.07	6.04	0.59	0.54	0.59	2.09	1.61
Burned MBTU's									
Coal	21,288	1,910,774	643,767	607,196				3,183,025	132,563,622
Oil - CC								-	-
Oil - Steam/CT	1,736	722	-	3,516				24,699	583,254
Gas - CC								9,121,047	102,486,732
Gas - CHP								114,250	237,993
Gas - CT								702,310	12,699,459
Gas - Steam		3,149,517	3,307,964	3,254,033				9,711,513	74,000,255
Biogas								8,525	152,484
Nuclear					17,441,318	17,596,089	17,353,876	52,391,283	608,224,167
Total	23,024	5,061,013	3,951,731	3,864,745	17,441,318	17,596,089	17,353,876	75,256,653	930,947,966
Net Generation (mWh)									
Coal	(1,949)	172,888	57,288	57,562				285,789	13,569,695
Oil - CC								-	-
Oil - Steam/CT	63	47	-	350				2,720	53,988
Gas - CC								1,298,695	14,542,974
Gas - CHP								9,589	15,739
Gas - CT								61,155	1,131,529
Gas - Steam		332,208	322,315	319,641				973,777	7,231,653
Biogas								1,215	21,502
Nuclear 100%					1,750,213	1,777,245	1,717,933	5,245,391	60,454,296
Hydro (Total System)								(11,675)	1,340,157
Solar (Total System)								15,972	293,289
Total	(1,886)	505,143	379,603	377,553	1,750,213	1,777,245	1,717,933	7,882,628	98,654,822
Cost of Reagents Consumed ($)									
Ammonia			$201,650	$36,996				$311,364	$3,138,382
Limestone	$0	$247,876	50,319	154,001				$452,195	12,981,466
Sorbents	-	31,875	-					$31,875	1,514,963
Urea	-	51,650						$51,650	389,401
Re-emission Chemical	-	-	-	-				$0	316,690
Dibasic Acid	-							$0	-
Activated Carbon	-	-						$0	358,930
Lime (water emissions)	-	-	8,010					$8,010	39,411
Total	-	331,401	$259,978	$190,997				$855,094	$18,739,243

Notes:
(A) Lincoln (Unit 17) fuel and fuel related costs represents pre-commercial generation during an extended testing and validation period.
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.

Sykes Exhibit 6
Schedule 6

DUKE ENERGY CAROLINAS
FUEL AND FUEL RELATED CONSUMPTION AND INVENTORY REPORT
DECEMBER 2021

Description	Buck CC	Dan River CC	Lee CC	Clemson CHP	Lee Steam/CT	Lincoln CT	Lincoln (Unit17) (A) CT	Mill Creek CT	Rockingham CT	Allen Steam	Marshall Steam - Dual Fuel	Belews Creek Steam - Dual Fuel	Cliffside Steam - Dual Fuel	Current Month	Total 12 ME December 2021
Coal Data:															
Beginning balance					-					110,834	714,068	709,231	600,419	2,134,553	2,088,546.52
Tons received during period										-	154,113	36,234	50,335	240,682	5,535,629.00
Inventory adjustments					-					-	0	(0)	0	0	(59,105.14)
Tons burned during period					-					885	74,950	25,810	23,739	125,384	5,315,219.09
Ending balance					-					109,949	793,231	719,654	627,016	2,249,850	2,249,850.29
MBTUs per ton burned					-					144.00	25.49	24.94	25.58	26.23	24.94
Cost of ending inventory ($/ton)					-					74.30	78.22	81.39	75.85	78.38	78.38
Oil Data:															
Beginning balance	-	-	-		644,737	8,458,109	1,345,366	3,435,783	2,760,864	74,474	297,507	95,645	190,014	17,302,499	18,142,757
Gallons received during period	-	-	-		-	-	-	295,436	149,907	7,455	-	-	45,444	498,242	4,011,299
Miscellaneous adjustments	-	-	-		-	-	(24,834)	-	-	-	-	(5,273)	(4,237)	(34,099)	(274,028)
Gallons burned during period		-	-		25,990	-	77,576	8,668	-	12,671	5,273	-	25,712	156,135	4,269,522
Ending balance	-	-	-		618,747	8,458,109	1,242,955	3,722,551	2,910,771	69,258	292,234	90,372	205,509	17,610,506	17,610,506
Cost of ending inventory ($/gal)	-	-	-		1.92	2.10	1.99	2.46	2.12	2.35	1.98	2.25	2.19	2.16	2.16
Natural Gas Data:															
Beginning balance															
MCF received during period	2,807,749	2,247,267	3,791,315	111,221	-	332	(158)	43,738	622,006		3,060,068	3,194,905	3,155,140	19,033,584	183,335,760
MCF burned during period	2,807,749	2,247,267	3,791,315	111,221	-	332	(158)	43,738	622,006		3,060,068	3,194,905	3,155,140	19,033,584	183,335,760
Ending balance															
Biogas Data:															
Beginning balance															
MCF received during period	-	8,237	-											8,237	147,532
MCF burned during period	-	8,237	-											8,237	147,532
Ending balance															
Limestone Data:															
Beginning balance										24,210	45,035	45,723	29,962	144,930	154,428
Tons received during period										-	12,544	1,676	8,277	22,498	281,447
Inventory adjustments										-	-	-	-	-	(1,837)
Tons consumed during period										-	5,699	1,074	1,915	8,688	275,299
Ending balance										24,210	51,880	46,325	36,324	158,739	158,739
Cost of ending inventory ($/ton)										49.08	43.49	46.83	42.16	45.02	45.02

		Qtr Ending December 2021	Total 12 ME December 2021
Ammonia Data: (B)			
Beginning balance	2,650	2,650	1,822
Tons received during period	996	996	5,129
Tons consumed during period	885	885	4,190
Ending balance	2,761	2,761	2,761
Cost of ending inventory ($/ton)	843.38	843.38	843.38

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.
(A) Lincoln (Unit 17) fuel and fuel related costs represents pre-commercial generation during an extended testing and validation period.
(B) Quarterly ammonia inventory amounts are revised to reflect a correction to June quantities, affecting the quarter ending September 2021 beginning balance. Revised amounts for quarter ending June 2021 are revised above.

Sykes Exhibit 6
Schedule 7

DUKE ENERGY CAROLINAS
ANALYSIS OF COAL PURCHASED
DECEMBER 2021

STATION	TYPE	QUANTITY OF TONS DELIVERED	DELIVERED COST	DELIVERED COST PER TON
ALLEN	SPOT	-	$ -	$ -
	CONTRACT	-	-	-
	FIXED TRANSPORTATION / ADJUSTMENTS	-	9,147	-
	TOTAL	-	9,147	-
BELEWS CREEK	SPOT	-	111,089	-
	CONTRACT	36,234	2,920,743	80.61
	FIXED TRANSPORTATION / ADJUSTMENTS	-	416,990	-
	TOTAL	36,234	3,448,822	95.18
CLIFFSIDE	SPOT	13,034	1,151,180	88.32
	CONTRACT	37,301	3,111,563	83.42
	FIXED TRANSPORTATION / ADJUSTMENTS	-	354,504	-
	TOTAL	50,335	4,617,247	91.73
MARSHALL	SPOT	76,949	6,966,864	90.54
	CONTRACT	77,165	5,901,064	76.47
	FIXED TRANSPORTATION / ADJUSTMENTS	-	439,649	-
	TOTAL	154,114	13,307,577	86.35
ALL PLANTS	SPOT	89,983	8,229,133	91.45
	CONTRACT	150,700	11,933,370	79.19
	FIXED TRANSPORTATION / ADJUSTMENTS	-	1,220,290	-
	TOTAL	240,683	21,382,793	$ 88.84

Sykes Exhibit 6
Schedule 8

DUKE ENERGY CAROLINAS
ANALYSIS OF COAL QUALITY RECEIVED
DECEMBER 2021

STATION	PERCENT MOISTURE	PERCENT ASH	HEAT VALUE	PERCENT SULFUR
ALLEN	-	-	-	-
BELEWS CREEK	7.48	10.95	12,261	1.47
CLIFFSIDE	6.18	8.77	12,976	2.99
LEE	-	-	-	-
MARSHALL	6.73	9.31	12,626	1.95

Sykes Exhibit 6
Schedule 9

DUKE ENERGY CAROLINAS
ANALYSIS OF OIL PURCHASED
DECEMBER 2021

	ALLEN	BELEWS CREEK
VENDOR	HighTowers	HighTowers
SPOT/CONTRACT	Contract	Contract
SULFUR CONTENT %	-	-
GALLONS RECEIVED	7,455	-
TOTAL DELIVERED COST	$ 17,051	$ -
DELIVERED COST/GALLON	$ 2.29	$ -
BTU/GALLON	138,000	138,000

	CLIFFSIDE	MARSHALL
VENDOR	HighTowers	HighTowers
SPOT/CONTRACT	Contract	Contract
SULFUR CONTENT %	-	-
GALLONS RECEIVED	45,444	-
TOTAL DELIVERED COST	$ 104,088	$ -
DELIVERED COST/GALLON	$ 2.29	$ -
BTU/GALLON	138,000	138,000

	LEE	MILL CREEK	ROCKINGHAM
VENDOR	HighTowers	HighTowers	HighTowers
SPOT/CONTRACT	Contract	Contract	Contract
SULFUR CONTENT %	-	-	-
GALLONS RECEIVED	-	295,436	149,907
TOTAL DELIVERED COST	$ -	$ 682,026	$ 342,571
DELIVERED COST/GALLON	$ -	$ 2.31	$ 2.29
BTU/GALLON	138,000	138,000	138,000

I/A

Sykes Exhibit 6
Schedule 10

Duke Energy Carolinas Base Load Power Plant Performance Review Plan
Report Period: December 2021 - December 2021

Station	Unit	Date of Outage	Duration of Outage (Hours)	Scheduled / Unscheduled	Cause of Outage	Reason Outage Occurred	Remedial Actions Taken
Oconee	1						
	2	11/12/2021 - 12/07/2021	160.10	Scheduled	Refueling outage O2R30	Normal refueling outage	N/A - Normal refueling outage
	2	12/10/2021 - 12/12/2021	60.35	Unscheduled	Forced outage O2F30A due to spurious reactor protection system (RPS) relay actuation	Spurious reactor protection system (RPS) relay actuation	A failure investigation was started and the 2NI-5 linear amplifier was repaired
	3						
McGuire	1						
	2						
Catawba	1						
	2						

I/A

Sykes Exhibit 6
Schedule 10

Duke Energy Carolinas
Baseload Steam and CHP Units
Performance Review Plan
December 2021

Belews Creek Station

Unit	Duration of Outage	Type of Outage	Cause of Outage		Reason Outage Occurred	Remedial Action Taken
1	12/1/2021 11:30:00 AM To 12/3/2021 5:00:00 PM	Sch	4899	Other miscellaneous generator problems	Generator PT appears to have a loose connection causing issues with closing	

Buck Combined Cycle Station

Unit	Duration of Outage	Type of Outage	Cause of Outage		Reason Outage Occurred	Remedial Action Taken
11	12/19/2021 10:42:00 AM To 12/19/2021 10:46:00 AM	Unsch	6171	IP Startup bypass system valves	12 HRH BYPASS STICKING. WOULD NOT OPERATE BEYOND 35%. CAUSING UPSETS TO OPPOSING UNIT.	
12	12/18/2021 2:00:00 PM To 12/18/2021 8:06:00 PM	Sch	0680	Feedwater valves (not feedwater regulating valve)	12 ECONOMIZER VENT VALVE REPLACEMENT. VALVE PACKING BLOWN OUT AND VALVE WAS STUCK AND WOULD NOT OPERATE.	
ST10	12/19/2021 9:04:00 AM To 12/19/2021 9:47:00 AM	Unsch	6171	IP Startup bypass system valves	12 HRH BYPASS STICKING. WOULD NOT OPERATE BEYOND 35%. CAUSING UPSET TO UNIT.	
ST10	12/19/2021 10:22:00 AM To 12/19/2021 11:04:00 AM	Unsch	6171	IP Startup bypass system valves	12 HRH BYPASS STICKING. WOULD NOT OPERATE BEYOND 35%. CAUSING UPSET TO UNIT	

Clemson CHP

Unit	Duration of Outage	Type of Outage	Cause of Outage		Reason Outage Occurred	Remedial Action Taken
1	11/24/2021 9:30:00 AM To 12/1/2021 9:00:00 AM	Sch	4551	Generator bearings	Planned outage to address generator bearing leaks. New seals installed.	
1	12/8/2021 10:13:00 AM To 12/8/2021 5:28:00 PM	Sch	4552	Generator lube oil system	Short outage for generator oil leakage inspection.	

Dan River Combined Cycle Station

Unit	Duration of Outage	Type of Outage	Cause of Outage		Reason Outage Occurred	Remedial Action Taken
8	12/8/2021 9:59:00 PM To 12/12/2021 1:27:00 PM	Sch	5261	Gas turbine/compressor washing	1x1 Planned Outage for Water Wash of GT8 and minor maintenance	

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- Data is reflected at 100% owne

I/A

Sykes Exhibit 6
Schedule 10

Duke Energy Carolinas
Baseload Steam and CHP Units
Performance Review Plan
December 2021

9	12/4/2021 12:56:00 AM To 12/8/2021 6:52:00 PM	Sch	5261	Gas turbine/compressor washing	GT9 is in Planned Outage for 1X1 outage for Water Wash and Minor Maintenance	

Marshall Station

Unit	Duration of Outage	Type of Outage	Cause of Outage		Reason Outage Occurred	Remedial Action Taken
3	12/10/2021 2:29:00 AM To 12/16/2021 2:30:00 PM	Sch	0541	Cold reheat steam piping up to boiler	Reheat Piping Leak Repairs	
3	12/19/2021 12:44:00 PM To 12/19/2021 2:51:00 PM	Unsch	0530	Other main steam system problems	Superheat steam temp issues	
3	12/19/2021 2:51:00 PM To 12/20/2021 3:00:00 PM	Unsch	4240	Bearings	Unit 3 bearing vibration on attempted start.	
3	12/20/2021 3:00:00 PM To 12/30/2021 7:00:00 PM	Unsch	4240	Bearings	Unit 3 bearing vibration on attempted start. Unit will go into outage to repair the issue.	

WS Lee Combined Cycle

No Outages at Baseload Units During the Month.

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- Data is reflected at 100% ownership.

I/A

Sykes Exhibit 6
Schedule 10

Duke Energy Carolinas Base Load Power Plant Performance Review Plan
Report Period: December 2021 - December 2021

	Oconee 1	Oconee 2	Oconee 3	McGuire 1	McGuire 2	Catawba 1	Catawba 2
(A) MDC (MW)	847	848	859	1158	1158	1160	1150
(B) Period Hours	744	744	744	744	744	744	744
(C1) Net Gen (MWH)	643,930	419,589	654,414	888,551	888,694	880,196	870,017
(C2) Capacity Factor (%)	102.18	66.51	102.40	103.13	103.15	101.99	101.69
(D1) Net MWH Not Gen. Due to Full Schedule Outages	0	135,765	0	0	0	0	0
(D2) % Net MWH Not Gen. Due to Full Schedule Outages	0.00	21.52	0.00	0.00	0.00	0.00	0.00
(E1) Net MWH Not Gen. Due to Partial Scheduled Outages	0	18,509	0	0	0	0	0
(E2) % Net MWH Not Gen. Due to Partial Scheduled Outages	0.00	2.93	0.00	0.00	0.00	0.00	0.00
(F1) Net MWH Not Gen Due to Full Forced Outages	0	51,177	0	0	0	0	0
(F2) % Net MWH Not Gen Due to Full Forced Outages	0.00	8.11	0.00	0.00	0.00	0.00	0.00
(G1) Net MWH Not Gen due to Partial Forced Outages	-13,762	5,872	-15,318	-26,999	-27,142	-17,156	-14,417
(G2) % Net MWH Not Gen Due to Partial Forced Outages	-2.18	0.93	-2.40	-3.13	-3.15	-1.99	-1.69
(H1) Net MWH Not Gen Due to Economic Dispatch	0	0	0	0	0	0	0
(H2) %Net MWH Not Gen Due to Economic Dispatch	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(I1) Core Conservation	0	0	0	0	0	0	0
(I2) % Core Conservation	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(J1) Net MWH Possible in Period	630,168	630,912	639,096	861,552	861,552	863,040	855,600
(J2) % Net mwh Possible in Period	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
(K) Equivalent Availability (%)	100.00	65.78	100.00	100.00	100.00	100.00	100.00
(L) Output Factor (%)	102.18	94.51	102.40	103.13	103.15	101.99	101.69
(M) Heat Rate (BTU/Net KWH)	10,130	10,277	9,961	9,901	9,901	9,991	9,939

Notes:
1) Fields (E1), (E2), (G1), (G2), (H1), (H2), (I1) and (I2) are estimates
2) Fields (D1), (D2), (F1) and (F2) include ramping losses
EAF is calculated using Standard NERC calculation and excludes OMC events

I/A

Sykes Exhibit 6
Schedule 10

Duke Energy Carolinas
Baseload Steam and CHP Units
Performance Review Plan
December 2021

Belews Creek Station

	Unit 1	Unit 2
(A) MDC (mW)	1,110	1,110
(B) Period Hrs	744	744
(C) Net Generation (mWh)	-1,362	380,965
(D) Capacity Factor (%)	0.00	46.13
(E) Net mWh Not Generated due to Full Scheduled Outages	59,385	0
(F) Scheduled Outages: percent of Period Hrs	7.19	0.00
(G) Net mWh Not Generated due to Partial Scheduled Outages	0	33,600
(H) Scheduled Derates: percent of Period Hrs	0.00	4.07
(I) Net mWh Not Generated due to Full Forced Outages	0	0
(J) Forced Outages: percent of Period Hrs	0.00	0.00
(K) Net mWh Not Generated due to Partial Forced Outages	0	770
(L) Forced Derates: percent of Period Hrs	0.00	0.09
(M) Net mWh Not Generated due to Economic Dispatch	766,455	410,505
(N) Economic Dispatch: percent of Period Hrs	92.81	49.71
(O) Net mWh Possible in Period	825,840	825,840
(P) Equivalent Availability (%)	92.81	95.84
(Q) Output Factor (%)	0.00	46.13
(R) Heat Rate (BTU/NkWh)	0	10,986

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- (R) Includes Light Off BTU's
- Data is reflected at 100% ownership.

I/A

Sykes Exhibit 6
Schedule 10

Duke Energy Carolinas
Baseload Steam and CHP Units
Performance Review Plan
December 2021

Buck Combined Cycle Station

	Unit 11	Unit 12	Unit ST10	Block Total
(A) MDC (mW)	206	206	306	718
(B) Period Hrs	744	744	744	744
(C) Net Generation (mWh)	127,292	114,031	172,014	413,337
(D) Capacity Factor (%)	83.05	74.40	75.56	77.38
(E) Net mWh Not Generated due to Full Scheduled Outages	0	1,257	0	1,257
(F) Scheduled Outages: percent of Period Hrs	0.00	0.82	0.00	0.24
(G) Net mWh Not Generated due to Partial Scheduled Outages	231	231	525	987
(H) Scheduled Derates: percent of Period Hrs	0.15	0.15	0.23	0.18
(I) Net mWh Not Generated due to Full Forced Outages	14	0	434	447
(J) Forced Outages: percent of Period Hrs	0.01	0.00	0.19	0.08
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	383	383
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.17	0.07
(M) Net mWh Not Generated due to Economic Dispatch	25,727	37,745	54,308	117,781
(N) Economic Dispatch: percent of Period Hrs	16.79	24.63	23.85	22.05
(O) Net mWh Possible in Period	153,264	153,264	227,664	534,192
(P) Equivalent Availability (%)	99.84	99.03	99.41	99.42
(Q) Output Factor (%)	83.06	83.25	75.70	79.88
(R) Heat Rate (BTU/NkWh)	10,525	10,190	2,366	7,037

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- (R) Includes Light Off BTU's
- Data is reflected at 100% ownership.

I/A

Sykes Exhibit 6
Schedule 10

Duke Energy Carolinas
Baseload Steam and CHP Units
Performance Review Plan
December 2021

Clemson CHP

	Clemson CHP1
(A) MDC (mW)	16
(B) Period Hrs	744
(C) Net Generation (mWh)	9,589
(D) Capacity Factor (%)	83.15
(E) Net mWh Not Generated due to Full Scheduled Outages	252
(F) Scheduled Outages: percent of Period Hrs	2.18
(G) Net mWh Not Generated due to Partial Scheduled Outages	0
(H) Scheduled Derates: percent of Period Hrs	0.00
(I) Net mWh Not Generated due to Full Forced Outages	0
(J) Forced Outages: percent of Period Hrs	0.00
(K) Net mWh Not Generated due to Partial Forced Outages	0
(L) Forced Derates: percent of Period Hrs	0.00
(M) Net mWh Not Generated due to Economic Dispatch	1,691
(N) Economic Dispatch: percent of Period Hrs	14.66
(O) Net mWh Possible in Period	11,532
(P) Equivalent Availability (%)	97.82
(Q) Output Factor (%)	86.79
(R) Heat Rate (BTU/NkWh)	11,176

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- (R) Includes Light Off BTU's
- Data is reflected at 100% ownership.

I/A

Sykes Exhibit 6
Schedule 10

Duke Energy Carolinas
Baseload Steam and CHP Units
Performance Review Plan
December 2021

Dan River Combined Cycle Station

	Unit 8	Unit 9	Unit ST07	Block Total
(A) MDC (mW)	206	206	308	720
(B) Period Hrs	744	744	744	744
(C) Net Generation (mWh)	84,374	107,001	141,961	333,336
(D) Capacity Factor (%)	55.05	69.81	61.95	62.23
(E) Net mWh Not Generated due to Full Scheduled Outages	18,018	23,470	0	41,488
(F) Scheduled Outages: percent of Period Hrs	11.76	15.31	0.00	7.74
(G) Net mWh Not Generated due to Partial Scheduled Outages	0	0	0	0
(H) Scheduled Derates: percent of Period Hrs	0.00	0.00	0.00	0.00
(I) Net mWh Not Generated due to Full Forced Outages	0	0	0	0
(J) Forced Outages: percent of Period Hrs	0.00	0.00	0.00	0.00
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	127	127
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.06	0.02
(M) Net mWh Not Generated due to Economic Dispatch	50,872	22,793	87,064	160,729
(N) Economic Dispatch: percent of Period Hrs	33.19	14.87	37.99	30.00
(O) Net mWh Possible in Period	153,264	153,264	229,152	535,680
(P) Equivalent Availability (%)	88.24	84.69	99.94	92.23
(Q) Output Factor (%)	82.25	82.44	61.95	72.22
(R) Heat Rate (BTU/NkWh)	11,217	10,612	2,470	7,297

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- (R) Includes Light Off BTU's
- Data is reflected at 100% ownership.

I/A

Sykes Exhibit 6
Schedule 10

Duke Energy Carolinas
Baseload Steam and CHP Units
Performance Review Plan
December 2021

Marshall Station

	Unit 3	Unit 4
(A) MDC (mW)	658	660
(B) Period Hrs	744	744
(C) Net Generation (mWh)	77,447	297,472
(D) Capacity Factor (%)	15.82	60.58
(E) Net mWh Not Generated due to Full Scheduled Outages	102,659	0
(F) Scheduled Outages: percent of Period Hrs	20.97	0.00
(G) Net mWh Not Generated due to Partial Scheduled Outages	0	0
(H) Scheduled Derates: percent of Period Hrs	0.00	0.00
(I) Net mWh Not Generated due to Full Forced Outages	177,836	0
(J) Forced Outages: percent of Period Hrs	36.33	0.00
(K) Net mWh Not Generated due to Partial Forced Outages	0	0
(L) Forced Derates: percent of Period Hrs	0.00	0.00
(M) Net mWh Not Generated due to Economic Dispatch	131,610	193,568
(N) Economic Dispatch: percent of Period Hrs	26.88	39.42
(O) Net mWh Possible in Period	489,552	491,040
(P) Equivalent Availability (%)	42.70	100.00
(Q) Output Factor (%)	53.10	60.58
(R) Heat Rate (BTU/NkWh)	10,746	9,696

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- (R) Includes Light Off BTU's
- Data is reflected at 100% ownership.

I/A

Duke Energy Carolinas
Baseload Steam and CHP Units
Performance Review Plan
December 2021

Sykes Exhibit 6
Schedule 10

WS Lee Combined Cycle

	Unit 11	Unit 12	Unit ST10	Block Total
(A) MDC (mW)	248	248	313	809
(B) Period Hrs	744	744	744	744
(C) Net Generation (mWh)	158,470	164,031	230,736	553,237
(D) Capacity Factor (%)	85.89	88.90	99.08	91.92
(E) Net mWh Not Generated due to Full Scheduled Outages	0	0	0	0
(F) Scheduled Outages: percent of Period Hrs	0.00	0.00	0.00	0.00
(G) Net mWh Not Generated due to Partial Scheduled Outages	0	0	0	0
(H) Scheduled Derates: percent of Period Hrs	0.00	0.00	0.00	0.00
(I) Net mWh Not Generated due to Full Forced Outages	0	0	0	0
(J) Forced Outages: percent of Period Hrs	0.00	0.00	0.00	0.00
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	0	0
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.00	0.00
(M) Net mWh Not Generated due to Economic Dispatch	26,042	20,481	2,136	48,659
(N) Economic Dispatch: percent of Period Hrs	14.11	11.10	0.92	8.08
(O) Net mWh Possible in Period	184,512	184,512	232,872	601,896
(P) Equivalent Availability (%)	100.00	100.00	100.00	100.00
(Q) Output Factor (%)	85.89	91.67	99.08	92.78
(R) Heat Rate (BTU/NkWh)	10,989	10,610	2,508	7,340

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- (R) Includes Light Off BTU's
- Data is reflected at 100% ownership.

I/A

Duke Energy Carolinas
Intermediate Power Plant Performance Review Plan
December 2021

Sykes Exhibit 6
Schedule 10

		Cliffside Station Cliffside 6
(A)	**MDC (mW)**	849
(B)	**Period Hrs**	744
(C)	**Net Generation (mWh)**	380,358
(D)	**Net mWh Possible in Period**	631,656
(E)	**Equivalent Availability (%)**	96.32
(F)	**Output Factor (%)**	60.22
(G)	**Capacity Factor (%)**	60.22

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

I/A

Duke Energy Carolinas
Peaking Power Plant Performance Review Plan
December 2021

Sykes Exhibit 6
Schedule 10

		Cliffside Station Unit 5
(A)	**MDC (mW)**	546
(B)	**Period Hrs**	744
(C)	**Net Generation (mWh)**	-2,805
(D)	**Net mWh Possible in Period**	406,224
(E)	**Equivalent Availability (%)**	0.00
(F)	**Output Factor (%)**	0.00
(G)	**Capacity Factor (%)**	0.00

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

I/A

Sykes Exhibit 6
Schedule 10

Duke Energy Carolinas Base Load Power Plant Performance Review Plan
Report Period: January 2021 - December 2021

	Oconee 1	Oconee 2	Oconee 3	McGuire 1	McGuire 2	Catawba 1	Catawba 2
(A) MDC (MW)	847	848	859	1158	1158	1160	1150
(B) Period Hours	8,760	8,760	8,760	8,760	8,760	8,760	8,760
(C1) Net Gen (MWH)	7,579,868	6,981,796	7,644,799	10,361,236	9,300,878	9,571,297	9,014,422
(C2) Capacity Factor (%)	102.16	93.99	101.59	102.14	91.69	94.19	89.48
(D1) Net MWH Not Gen. Due to Full Schedule Outages	0	503,797	0	0	840,901	523,488	883,200
(D2) % Net MWH Not Gen. Due to Full Schedule Outages	0.00	6.78	0.00	0.00	8.29	5.15	8.77
(E1) Net MWH Not Gen. Due to Partial Scheduled Outages	141	39,112	252	403	26,161	47,272	90,598
(E2) % Net MWH Not Gen. Due to Partial Scheduled Outages	0.00	0.53	0.00	0.00	0.26	0.47	0.90
(F1) Net MWH Not Gen Due to Full Forced Outages	0	51,177	0	0	81,871	78,396	147,045
(F2) % Net MWH Not Gen Due to Full Forced Outages	0.00	0.69	0.00	0.00	0.81	0.77	1.46
(G1) Net MWH Not Gen due to Partial Forced Outages	-160,289	-147,402	-120,211	-217,559	-105,731	-58,853	-61,265
(G2) % Net MWH Not Gen Due to Partial Forced Outages	-2.16	-1.99	-1.59	-2.14	-1.05	-0.58	-0.61
(H1) Net MWH Not Gen Due to Economic Dispatch	0	0	0	0	0	0	0
(H2) %Net MWH Not Gen Due to Economic Dispatch	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(I1) Core Conservation	0	0	0	0	0	0	0
(I2) % Core Conservation	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(J1) Net MWH Possible in Period	7,419,720	7,428,480	7,524,840	10,144,080	10,144,080	10,161,600	10,074,000
(J2) % Net mwh Possible in Period	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
(K) Equivalent Availability (%)	100.00	90.67	100.00	100.00	90.25	93.06	88.87
(L) Output Factor (%)	102.16	101.58	101.59	102.14	100.86	100.12	99.68
(M) Heat Rate (BTU/Net KWH)	10,129	10,085	10,042	9,996	10,073	10,090	10,026

Notes:
1) Fields (E1), (E2), (G1), (G2), (H1), (H2), (I1) and (I2) are estimates
2) Fields (D1), (D2), (F1) and (F2) include ramping losses
EAF is calculated using Standard NERC calculation and excludes OMC events

I/A

Sykes Exhibit 6
Schedule 10

Duke Energy Carolinas
Baseload Steam and CHP Units
Performance Review Plan
January, 2021 through December, 2021

Belews Creek Station

	Unit 1	Unit 2
(A) MDC (mW)	1,110	1,110
(B) Period Hrs	8,760	8,760
(C) Net Generation (mWh)	4,275,170	4,734,846
(D) Capacity Factor (%)	43.97	48.69
(E) Net mWh Not Generated due to Full Scheduled Outages	1,696,635	1,108,465
(F) Scheduled Outages: percent of Period Hrs	17.45	11.40
(G) Net mWh Not Generated due to Partial Scheduled Outages	13,357	54,149
(H) Scheduled Derates: percent of Period Hrs	0.14	0.56
(I) Net mWh Not Generated due to Full Forced Outages	157,731	277,075
(J) Forced Outages: percent of Period Hrs	1.62	2.85
(K) Net mWh Not Generated due to Partial Forced Outages	188,070	72,653
(L) Forced Derates: percent of Period Hrs	1.93	0.75
(M) Net mWh Not Generated due to Economic Dispatch	3,392,638	3,476,412
(N) Economic Dispatch: percent of Period Hrs	34.81	35.75
(O) Net mWh Possible in Period	9,723,600	9,723,600
(P) Equivalent Availability (%)	78.86	84.45
(Q) Output Factor (%)	66.62	59.52
(R) Heat Rate (BTU/NkWh)	9,382	9,959

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- Data is reflected at 100% ownership.
- Footnote: (R) Includes Light Off BTU's

I/A

Sykes Exhibit 6
Schedule 10

Duke Energy Carolinas
Baseload Steam and CHP Units
Performance Review Plan
January, 2021 through December, 2021

Buck Combined Cycle Station

	Unit 11	Unit 12	Unit ST10	Block Total
(A) MDC (mW)	206	206	306	718
(B) Period Hrs	8,760	8,760	8,760	8,760
(C) Net Generation (mWh)	1,350,380	1,370,919	1,814,076	4,535,375
(D) Capacity Factor (%)	74.83	75.97	67.68	72.11
(E) Net mWh Not Generated due to Full Scheduled Outages	106,389	81,507	123,379	311,276
(F) Scheduled Outages: percent of Period Hrs	5.90	4.52	4.60	4.95
(G) Net mWh Not Generated due to Partial Scheduled Outages	114,711	117,301	11,070	243,082
(H) Scheduled Derates: percent of Period Hrs	6.36	6.50	0.41	3.86
(I) Net mWh Not Generated due to Full Forced Outages	14	1,507	434	1,955
(J) Forced Outages: percent of Period Hrs	0.00	0.08	0.02	0.03
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	3,024	3,024
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.11	0.05
(M) Net mWh Not Generated due to Economic Dispatch	233,066	233,325	728,577	1,194,969
(N) Economic Dispatch: percent of Period Hrs	12.92	12.93	27.18	19.00
(O) Net mWh Possible in Period	1,804,560	1,804,560	2,680,560	6,289,680
(P) Equivalent Availability (%)	87.75	88.90	94.86	91.11
(Q) Output Factor (%)	82.76	82.91	72.45	78.35
(R) Heat Rate (BTU/NkWh)	9,691	10,236	1,616	6,626

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- Data is reflected at 100% ownership.
- Footnote: (R) Includes Light Off BTU's

I/A

Sykes Exhibit 6
Schedule 10

Duke Energy Carolinas
Baseload Steam and CHP Units
Performance Review Plan
January, 2021 through December, 2021

Clemson CHP

	Clemson CHP1
(A) MDC (mW)	16
(B) Period Hrs	8,760
(C) Net Generation (mWh)	15,739
(D) Capacity Factor (%)	11.59
(E) Net mWh Not Generated due to Full Scheduled Outages	24,977
(F) Scheduled Outages: percent of Period Hrs	18.40
(G) Net mWh Not Generated due to Partial Scheduled Outages	11,069
(H) Scheduled Derates: percent of Period Hrs	8.15
(I) Net mWh Not Generated due to Full Forced Outages	10,258
(J) Forced Outages: percent of Period Hrs	7.55
(K) Net mWh Not Generated due to Partial Forced Outages	0
(L) Forced Derates: percent of Period Hrs	0.00
(M) Net mWh Not Generated due to Economic Dispatch	73,736
(N) Economic Dispatch: percent of Period Hrs	54.13
(O) Net mWh Possible in Period	135,780
(P) Equivalent Availability (%)	65.90
(Q) Output Factor (%)	80.91
(R) Heat Rate (BTU/NkWh)	11,851

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- Data is reflected at 100% ownership.
- Footnote: (R) Includes Light Off BTU's

I/A

Sykes Exhibit 6
Schedule 10

Duke Energy Carolinas
Baseload Steam and CHP Units
Performance Review Plan
January, 2021 through December, 2021

Dan River Combined Cycle Station

	Unit 8	Unit 9	Unit ST07	Block Total
(A) MDC (mW)	206	206	308	720
(B) Period Hrs	8,760	8,760	8,760	8,760
(C) Net Generation (mWh)	1,228,210	1,262,306	1,682,928	4,173,444
(D) Capacity Factor (%)	68.06	69.95	62.38	66.17
(E) Net mWh Not Generated due to Full Scheduled Outages	157,624	164,209	208,321	530,155
(F) Scheduled Outages: percent of Period Hrs	8.73	9.10	7.72	8.41
(G) Net mWh Not Generated due to Partial Scheduled Outages	138,404	138,401	283,369	560,174
(H) Scheduled Derates: percent of Period Hrs	7.67	7.67	10.50	8.88
(I) Net mWh Not Generated due to Full Forced Outages	11,268	8,992	13,003	33,263
(J) Forced Outages: percent of Period Hrs	0.62	0.50	0.48	0.53
(K) Net mWh Not Generated due to Partial Forced Outages	524	524	1,751	2,799
(L) Forced Derates: percent of Period Hrs	0.03	0.03	0.06	0.04
(M) Net mWh Not Generated due to Economic Dispatch	268,530	230,128	508,708	1,007,366
(N) Economic Dispatch: percent of Period Hrs	14.88	12.75	18.85	15.97
(O) Net mWh Possible in Period	1,804,560	1,804,560	2,698,080	6,307,200
(P) Equivalent Availability (%)	82.94	82.70	81.23	82.14
(Q) Output Factor (%)	80.86	81.25	70.26	76.33
(R) Heat Rate (BTU/NkWh)	10,791	10,678	1,695	7,089

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- Data is reflected at 100% ownership.
- Footnote: (R) Includes Light Off BTU's

I/A

Sykes Exhibit 6
Schedule 10

Duke Energy Carolinas
Baseload Steam and CHP Units
Performance Review Plan
January, 2021 through December, 2021

Marshall Station

	Unit 3	Unit 4
(A) MDC (mW)	658	660
(B) Period Hrs	8,760	8,760
(C) Net Generation (mWh)	1,592,995	3,404,773
(D) Capacity Factor (%)	27.64	58.89
(E) Net mWh Not Generated due to Full Scheduled Outages	2,776,058	686,268
(F) Scheduled Outages: percent of Period Hrs	48.16	11.87
(G) Net mWh Not Generated due to Partial Scheduled Outages	0	0
(H) Scheduled Derates: percent of Period Hrs	0.00	0.00
(I) Net mWh Not Generated due to Full Forced Outages	309,786	223,256
(J) Forced Outages: percent of Period Hrs	5.37	3.86
(K) Net mWh Not Generated due to Partial Forced Outages	240,971	118,342
(L) Forced Derates: percent of Period Hrs	4.18	2.05
(M) Net mWh Not Generated due to Economic Dispatch	844,270	1,348,961
(N) Economic Dispatch: percent of Period Hrs	14.56	23.33
(O) Net mWh Possible in Period	5,764,080	5,781,600
(P) Equivalent Availability (%)	42.28	82.22
(Q) Output Factor (%)	64.91	71.49
(R) Heat Rate (BTU/NkWh)	10,324	9,746

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- Data is reflected at 100% ownership.
- Footnote: (R) Includes Light Off BTU's

I/A

Duke Energy Carolinas
Baseload Steam and CHP Units
Performance Review Plan
January, 2021 through December, 2021

Sykes Exhibit 6
Schedule 10

WS Lee Combined Cycle

	Unit 11	Unit 12	Unit ST10	Block Total
(A) MDC (mW)	248	248	313	809
(B) Period Hrs	8,760	8,760	8,760	8,760
(C) Net Generation (mWh)	1,739,729	1,714,227	2,401,701	5,855,657
(D) Capacity Factor (%)	80.08	78.91	87.59	82.63
(E) Net mWh Not Generated due to Full Scheduled Outages	188,306	237,257	244,781	670,345
(F) Scheduled Outages: percent of Period Hrs	8.67	10.92	8.93	9.46
(G) Net mWh Not Generated due to Partial Scheduled Outages	51,608	54,497	0	106,105
(H) Scheduled Derates: percent of Period Hrs	2.38	2.51	0.00	1.50
(I) Net mWh Not Generated due to Full Forced Outages	9,507	0	1,951	11,458
(J) Forced Outages: percent of Period Hrs	0.44	0.00	0.07	0.16
(K) Net mWh Not Generated due to Partial Forced Outages	139	0	0	139
(L) Forced Derates: percent of Period Hrs	0.01	0.00	0.00	0.00
(M) Net mWh Not Generated due to Economic Dispatch	183,191	166,498	93,446	443,136
(N) Economic Dispatch: percent of Period Hrs	8.43	7.66	3.41	6.25
(O) Net mWh Possible in Period	2,172,480	2,172,480	2,741,880	7,086,840
(P) Equivalent Availability (%)	88.51	86.57	91.00	88.88
(Q) Output Factor (%)	88.72	89.14	96.57	91.91
(R) Heat Rate (BTU/NkWh)	10,545	10,515	2,312	7,160

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- Data is reflected at 100% ownership.
- Footnote: (R) Includes Light Off BTU's

I/A

Sykes Exhibit 6
Schedule 10

Duke Energy Carolinas
Intermediate Power Plant
Performance Review Plan
January, 2021 through December, 2021

Cliffside Station

Units		Unit 6
(A)	**MDC (mW)**	849
(B)	**Period Hrs**	8,760
(C)	**Net Generation (mWh)**	4,021,882
(D)	**Net mWh Possible in Period**	7,437,240
(E)	**Equivalent Availability (%)**	74.43
(F)	**Output Factor (%)**	72.44
(G)	**Capacity Factor (%)**	54.08

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

I/A

Sykes Exhibit 6
Schedule 10

Duke Energy Carolinas
Peaking Power Plant
Performance Review Plan
January, 2021 through December, 2021

Cliffside Station

Units		Unit 5
(A)	**MDC (mW)**	546
(B)	**Period Hrs**	8,760
(C)	**Net Generation (mWh)**	729,303
(D)	**Net mWh Possible in Period**	4,782,960
(E)	**Equivalent Availability (%)**	42.38
(F)	**Output Factor (%)**	37.28
(G)	**Capacity Factor (%)**	15.25

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

Duke Energy Carolinas, LLC
North Carolina Annual Fuel and Fuel Related Expense
Proposed Nuclear Capacity Factor
Billing Period September 2022 through August 2023
Docket E-7, Sub 1263

Sykes Workpaper 1

	Catawba 1	Catawba 2	McGuire 1	McGuire 2	Oconee 1	Oconee 2	Oconee 3	Total
MWhs	9,185,657	9,129,849	9,990,936	9,257,839	6,686,733	7,360,722	7,473,786	59,085,520
Cost (Gross of Joint Owners)	$ 56,075,776	$ 52,811,775	$ 55,286,006	$ 50,528,496	$ 38,964,977	$ 42,478,337	$ 44,926,459	$ 341,071,825
$/MWh	6.1047	5.7845	5.5336	5.4579	5.8272	5.7709	6.0112	
Avg $/MWh		**5.7725**						
Cents per kWh		**0.5773**						

			Sept 2022 - August 2023
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	859.0
			7,179.7
Hours In Year			8,760
Generation GWhs			
CATA_UN01	Catawba	GWh	9,186
CATA_UN02	Catawba	GWh	9,130
MCGU_UN01	McGuire	GWh	9,991
MCGU_UN02	McGuire	GWh	9,258
OCON_UN01	Oconee	GWh	6,687
OCON_UN02	Oconee	GWh	7,361
OCON_UN03	Oconee	GWh	7,474
			59,086
	Proposed Nuclear Capacity Factor		93.94%

rounding differences may occur

Duke Energy Carolinas, LLC **Sykes Workpaper 2**
North Carolina Annual Fuel and Fuel Related Expense
NERC 5 Year Average Nuclear Capacity Factor
Billing Period September 2022 through August 2023
Docket E-7, Sub 1263

	Catawba 1	Catawba 2	McGuire 1	McGuire 2	Oconee 1	Oconee 2	Oconee 3	Total
MWhs with NERC applied	9,295,832	9,216,497	9,279,804	9,276,599	6,911,469	6,919,629	7,009,388	57,909,218
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	91.48%	91.48%	91.48%	91.48%	93.15%	93.15%	93.15%	92.07%
Cost	$ 53,660,292	$ 53,202,329	$ 53,567,774	$ 53,549,271	$ 39,896,533	$ 39,943,636	$ 40,461,773	$ 334,281,608

Avg $/MWh **5.7725**
Cents per kWh **0.5773**

2016-2020	Capacity Rating	NCF Rating	Weighted Average
Oconee 1	847.0	93.15	10.99%
Oconee 2	848.0	93.15	11.00%
Oconee 3	859.0	93.15	11.14%
McGuire 1	1,158.0	91.48	14.75%
McGuire 2	1,157.6	91.48	14.75%
Catawba 1	1,160.0	91.48	14.78%
Catawba 2	1,150.1	91.48	14.65%
	7,179.7		**92.07%** Wtd Avg on Capacity Rating

rounding differences may occur

Duke Energy Carolinas, LLC **Sykes Workpaper 3**
North Carolina Annual Fuel and Fuel Related Expense
North Carolina Generation and Purchased Power in MWhs
Billing Period September 2022 through August 2023
Docket E-7, Sub 1263

Resource Type	Sept 2022 - August 2023	
NUC Total (Gross)	59,085,520	
COAL Total	9,117,091	
Gas CT and CC total (Gross)	29,962,094	
Run of River	4,980,701	
Net pumped Storage	(3,411,289)	
Total Hydro	1,569,412	
Catawba Joint Owners	(14,848,200)	
Lee CC Joint Owners	(876,000)	
DEC owned solar	364,048	
Total Generation		84,373,966
Purchases for REPS Compliance	1,376,121	
Qualifying Facility Purchases - Non-REPS compliance	2,705,790	
Other Purchases	11,994	
Allocated Economic Purchases	610,715	
Joint Dispatch Purchases	4,735,740	
	9,440,360	
Total Generation and Purchased Power		93,814,326
Fuel Recovered Through Intersystem Sales	(1,964,801)	

rounding differences may occur

Duke Energy Carolinas, LLC **Sykes Workpaper 4**
North Carolina Annual Fuel and Fuel Related Expense
Projected Fuel and Fuel Related Costs
Billing Period September 2022 through August 2023
Docket E-7, Sub 1263

Resource Type	Sept 2022 - August 2023	
Nuclear Total (Gross)	$ 341,071,825	
COAL Total	292,853,648	
Gas CT and CC total (Gross)	932,067,312	
Catawba Joint Owner costs	(85,734,604)	
CC Joint Owner costs	(20,639,342)	
Non-Economic Fuel Expense Recovered through Reimbursement	(14,027,557)	
Reagents and gain/loss on sale of By-Products	9,519,806	Workpaper 9
Purchases for REPS Compliance - Energy	66,782,210	
Purchases for REPS Compliance - Capacity	14,610,064	
Purchases of Qualifying Facilities - Energy	40,652,503	
Purchases of Qualifying Facilities - Capacity	8,445,498	
Other Purchases	7,489,994	
JDA Savings Shared	20,748,035	Workpaper 5
Allocated Economic Purchase cost	14,263,480	Workpaper 5
Joint Dispatch purchases	108,842,049	Workpaper 6
Total Purchases	281,833,833	
Fuel Expense recovered through intersystem sales	(66,325,343)	Workpaper 5
Total System Fuel and Fuel Related Costs	**$ 1,670,619,578**	

rounding differences may occur

Duke Energy Carolinas, LLC
North Carolina Annual Fuel and Fuel Related Expense
Projected Joint Dispatch Fuel Impacts
Billing Period September 2022 through August 2023
Docket E-7, Sub 1263

Sykes Workpaper 5

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
9/1/2022	$ 2,677,577	$ 3,781,762	$ (395,675)	$ (452,046)	$ (1,193,008)	$ 1,193,008	$ 136,476	$ (136,476)
10/1/2022	$ 542,827	$ 803,362	$ (661,032)	$ (762,575)	$ 3,557,663	$ (3,557,663)	$ 1,505,004	$ (1,505,004)
11/1/2022	$ 695,591	$ 1,037,984	$ (1,296,867)	$ (557,594)	$ (13,651,324)	$ 13,651,324	$ (2,905,662)	$ 2,905,662
12/1/2022	$ 569,647	$ 813,687	$ (4,426,520)	$ (2,671,233)	$ (8,969,486)	$ 8,969,486	$ (1,818,339)	$ 1,818,339
1/1/2023	$ 717,874	$ 1,045,814	$ (9,234,760)	$ (8,881,053)	$ (10,170,634)	$ 10,170,634	$ (3,592,449)	$ 3,592,449
2/1/2023	$ 158,723	$ 222,173	$ (7,642,791)	$ (9,248,399)	$ (5,978,839)	$ 5,978,839	$ (1,638,766)	$ 1,638,766
3/1/2023	$ 159,011	$ 226,144	$ (2,542,480)	$ (1,638,517)	$ (11,192,203)	$ 11,192,203	$ (2,501,768)	$ 2,501,768
4/1/2023	$ 956,508	$ 1,344,592	$ (1,195,044)	$ (315,259)	$ (3,210,699)	$ 3,210,699	$ (1,096,821)	$ 1,096,821
5/1/2023	$ 270,733	$ 388,566	$ (1,797,811)	$ (767,211)	$ (5,555,240)	$ 5,555,240	$ (2,753,841)	$ 2,753,841
6/1/2023	$ 1,051,586	$ 1,467,004	$ (701,390)	$ (742,280)	$ (2,897,748)	$ 2,897,748	$ (1,195,439)	$ 1,195,439
7/1/2023	$ 867,969	$ 1,183,718	$ (953,263)	$ (1,239,118)	$ (5,539,686)	$ 5,539,686	$ (3,293,157)	$ 3,293,157
8/1/2023	$ 1,368,896	$ 1,948,674	$ (968,553)	$ (940,559)	$ (5,931,346)	$ 5,931,346	$ (1,593,273)	$ 1,593,273
Sept 22 - Aug 23		$ 14,263,480		$ (28,215,845)		$ 70,732,550		$ 20,748,035

rounding differences may occur

$ 108,842,049	Workpaper 6 - Transfer - Purchases
$ (38,109,498)	Workpaper 6 - Transfer - Sales
$ 70,732,550	Sept 22-Aug 23 Net Fuel Transfer Payment
$ (38,109,498)	Workpaper 6 - Transfer - Sales
$ (28,215,845)	Sept 22-Aug 23 Economic Sales Cost
$ (66,325,343)	**Total Fuel expense recovered through intersystem sales**

Duke Energy Carolinas, LLC
North Carolina Annual Fuel and Fuel Related Expense
Projected Merger Payments
Billing Period September 2022 through August 2023
Docket E-7, Sub 1263

Sykes Workpaper 6

	Transfer Projection		Purchase Allocation Delta		Purchase Adjusted Transfer	Sale Adjusted Transfer	Fossil Gen Cost		Sale Pre-Net Payments	Purchase Pre-Net Payments
	PECtoDEC	DECtoPEC	PEC	DEC	PECtoDEC	DECtoPEC	PEC	DEC	PECtoDEC	DECtoPEC
9/1/2022	253,674	164,537	(35,758)	35,758	253,674	200,295	$ 29.07	$ 30.86	$ 6,180,396	$ 7,373,404
10/1/2022	212,025	305,749	(12,976)	12,976	212,025	318,726	$ 27.42	$ 29.40	$ 9,371,770	$ 5,814,107
11/1/2022	637,224	24,450	(141)	141	637,224	24,591	$ 22.69	$ 32.95	$ 810,289	$ 14,461,612
12/1/2022	387,962	37,723	(4,500)	4,500	387,962	42,223	$ 26.82	$ 34.00	$ 1,435,605	$ 10,405,091
1/1/2023	392,052	31,019	(2,330)	2,330	392,052	33,350	$ 28.90	$ 34.73	$ 1,158,324	$ 11,328,958
2/1/2023	268,628	41,858	(177)	177	268,628	42,035	$ 27.60	$ 34.15	$ 1,435,273	$ 7,414,112
3/1/2023	574,004	66,898	(447)	447	574,004	67,344	$ 23.22	$ 31.75	$ 2,137,998	$ 13,330,201
4/1/2023	385,453	158,440	(17,432)	17,432	385,453	175,872	$ 19.76	$ 25.05	$ 4,405,256	$ 7,615,955
5/1/2023	492,081	72,823	(5,284)	5,284	492,081	78,107	$ 15.12	$ 24.14	$ 1,885,732	$ 7,440,972
6/1/2023	343,644	136,582	3,192	(3,192)	346,836	136,582	$ 18.88	$ 26.73	$ 3,650,423	$ 6,548,171
7/1/2023	369,531	98,967	7,217	(7,217)	376,748	98,967	$ 22.05	$ 27.97	$ 2,768,573	$ 8,308,259
8/1/2023	393,768	106,684	15,285	(15,285)	409,053	106,684	$ 21.52	$ 26.90	$ 2,869,860	$ 8,801,206
Sept 22 - Aug 23	4,710,046	1,245,731	(53,351)	53,351	4,735,740	1,324,776			$ 38,109,498	$ 108,842,049
									Net Pre-Net Payments	$ 70,732,550

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 93.94%
Billing Period September 2022 through August 2023
Docket E-7, Sub 1263

Sykes Workpaper 7

Fall 2021 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	22,809,193		22,809,193
	General	22,983,240		22,983,240
	Industrial	12,202,704		12,202,704
	Lighting	239,297		239,297
	NC RETAIL	58,234,434	-	58,234,434
South Carolina:				
	Residential	6,851,656	133,318	6,984,975
	General	5,765,026	42,173	5,807,199
	Industrial	8,959,835	429	8,960,264
	Lighting	39,929	-	39,929
	SC RETAIL	21,616,446	175,921	21,792,367
Total Retail Sales				
	Residential	29,660,849	133,318	29,794,168
	General	28,748,266	42,173	28,790,439
	Industrial	21,162,539	429	21,162,968
	Lighting	279,226	-	279,226
	Retail Sales	79,850,880	175,921	80,026,801
	Wholesale	8,106,092	-	8,106,092
Projected System MWH Sales for Fuel Factor		87,956,972	175,921	88,132,893
NC as a percentage of total		**66.21%**		**66.08%**
SC as a percentage of total		24.58%		24.73%
Wholesale as a percentage of total		9.22%		9.20%
		100.00%		100.00%

SC Net Metering allocation adjustment

Total projected SC NEM MWhs	175,921	
Marginal fuel rate per MWh for SC NEM	$ 26.07	
Fuel benefit to be directly assigned to SC Retail	$ 4,586,518	

System Fuel Expense	$ 1,670,619,578	Sykes Exhibit 2 Schedule 1 Page 1 of 3
Fuel benefit to be directly assigned to SC Retail	$ 4,586,518	
Total Fuel Costs for Allocation	$ 1,675,206,096	Sykes Exhibit 2 Schedule 1 Page 3 of 3, L5

Reconciliation	**System**	**NC Retail Customers**	**Wholesale**	**South Carolina Retail**	
Total system fuel expense from Sykes Exhibit 2 Schedule 1 Page 1	$ 1,670,619,578				
QF and REPS Compliance Purchased Power - Capacity	$ 23,055,563				
Other fuel costs	$ 1,647,564,015				
SC Net Metering Fuel Allocation adjustment	$ 4,586,518				
Jurisdictional fuel costs after adj.	$ 1,652,150,533				
Allocation to states/classes		66.08%	9.20%	24.73%	
Jurisdictional fuel costs	$ 1,652,150,533	$ 1,091,670,180	$ 151,957,842	$ 408,522,511	66.98%
Direct Assignment of Fuel benefit to SC Retail	$ (4,586,518)		$ -	$ (4,586,518)	
Total system actual fuel costs	$ 1,647,564,015	$ 1,091,670,180	$ 151,957,842	$ 403,935,993	
QF and REPS Compliance Purchased Power - Capacity	23,055,563	15,441,918			
Total system fuel expense from Sykes Exhibit 2 Schedule 1 Page 1	$ 1,670,619,578	**$ 1,107,112,098**			
		Exh.2, Sch. 1 page 3, Line 13			

rounding differences may occur

Duke Energy Carolinas, LLC **Sykes Revised Workpaper 7a**
North Carolina Annual Fuel and Fuel Related Expense
Projected and Adjusted Projected Sales and Costs
Proposed Nuclear Capacity Factor of 93.94% and Normalized Test Period Sales
Billing Period September 2022 through August 2023
Docket E-7, Sub 1263

Fall 2021 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	58,067,962	(23,093)	413,425	-	58,458,294
SC RETAIL	20,481,464	78,665	133,245	175,921	20,869,295
Wholesale	8,002,184	73,415	49,334	-	8,124,933
Normalized System MWH Sales for Fuel Factor	86,551,610	128,987	596,003	175,921	87,452,521
NC as a percentage of total	**67.09%**				**66.85%**
SC as a percentage of total	23.66%				23.86%
Wholesale as a percentage of total	9.25%				9.29%
	100.00%				100.00%

SC Net Metering allocation adjustment

Total projected SC NEM MWhs	175,921	
Marginal fuel rate per MWh for SC NEM	$ 26.07	
Fuel benefit to be directly assigned to SC Retail	$ 4,586,518	
System Fuel Expense	$ 1,648,765,072	Sykes Exhibit 2 Schedule 2 Page 1 of 3
Fuel benefit to be directly assigned to SC Retail	$ 4,586,518	
Total Fuel Costs for Allocation	$ 1,653,351,591	Sykes Exhibit 2 Schedule 2 Page 3 of 3, L5

Reconciliation	**System**	**NC Retail Customers**	**Wholesale**	**South Carolina Retail**
Total system fuel expense from Sykes Exhibit 2 Schedule 2 Page 1	$ 1,648,765,072			
QF and REPS Compliance Purchased Power - Capacity	$ 23,055,563			
Other fuel costs	$ 1,625,709,510			
SC Net Metering Fuel Allocation adjustment	$ 4,586,518			
Jurisdictional fuel costs after adj.	$ 1,630,296,028			
Allocation to states/classes		66.85%	9.29%	23.86%
Jurisdictional fuel costs	$ 1,630,296,028	$ 1,089,852,895	$ 151,454,501	$ 388,988,632
Direct Assignment of Fuel benefit to SC Retail	$ (4,586,518)		$ -	$ (4,586,518)
Total system actual fuel costs	$ 1,625,709,510	$ 1,089,852,895	$ 151,454,501	$ 384,402,114
QF and REPS Compliance Purchased Power - Capacity	23,055,563	15,441,918		
Total system fuel expense from Sykes Exhibit 2 Schedule 2 Page 1	$ 1,648,765,072	**$ 1,105,294,813**		
		Exh. 2, Sch 2 page 3, Line 13		

rounding differences may occur

Duke Energy Carolinas, LLC **Sykes Workpaper 7b**
North Carolina Annual Fuel and Fuel Related Expense
Projected and Adjusted Projected Sales and Costs
NERC 5 Year Average Nuclear Capacity Factor of 92.07%
Billing Period September 2022 through August 2023
Docket E-7, Sub 1263

Fall 2021 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	22,809,193		22,809,193
	General	22,983,240		22,983,240
	Industrial	12,202,704		12,202,704
	Lighting	239,297		239,297
	NC RETAIL	58,234,434	-	58,234,434
South Carolina:				
	Residential	6,851,656	133,318	6,984,975
	General	5,765,026	42,173	5,807,199
	Industrial	8,959,835	429	8,960,264
	Lighting	39,929	0	39,929
	SC RETAIL	21,616,446	175,921	21,792,367
Total Retail Sales				
	Residential	29,660,849	133,318	29,794,167
	General	28,748,266	42,173	28,790,440
	Industrial	21,162,539	429	21,162,968
	Lighting	279,226	-	279,226
	Retail Sales	79,850,880	175,921	80,026,801
	Wholesale	8,106,092	-	8,106,092
Projected System MWh Sales for Fuel Factor		87,956,972	175,921	88,132,893
NC as a percentage of total		**66.21%**		**66.08%**
SC as a percentage of total		24.58%		24.73%
Wholesale as a percentage of total		9.22%		9.20%
		100.01%		100.00%

SC Net Metering allocation adjustment

Total projected SC NEM MWhs	175,921	
Marginal fuel rate per MWh for SC NEM	$ 26.07	
Fuel benefit to be directly assigned to SC Retail	$ 4,586,511	
System Fuel Expense	$ 1,693,825,422	Sykes Exhibit 2 Schedule 3 Page 1 of 3
Fuel benefit to be directly assigned to SC Retail	$ 4,586,511	
Total Fuel Costs for Allocation	$ 1,698,411,934	Sykes Exhibit 2 Schedule 3 Page 3 of 3, Line 5

Reconciliation	**System**	**NC Retail Customers**	**Wholesale**	**South Carolina Retail**
Total system fuel expense from Sykes Exhibit 2 Schedule 3 Page 1	$ 1,693,825,422			
QF and REPS Compliance Purchased Power - Capacity	$ 23,055,563			
Other fuel costs	$ 1,670,769,860			
SC Net Metering Fuel Allocation adjustment	$ 4,586,511			
Jurisdictional fuel costs after adj.	$ 1,675,356,371			
Allocation to states/classes		66.08%	9.20%	24.73%
Jurisdictional fuel costs	$ 1,675,523,907	$ 1,107,075,490	$ 154,132,786	$ 414,315,631
Direct Assignment of Fuel benefit to SC Retail	$ (4,586,511)		$ -	$ (4,586,511)
Total system actual fuel costs	$ 1,670,937,395	$ 1,107,075,490	$ 154,132,786	$ 409,729,119
QF and REPS Compliance Purchased Power - Capacity	23,055,563	15,441,918		
Total system fuel expense from Sykes Exhibit 2 Schedule 3 Page 1	$ 1,693,992,958	**$ 1,122,517,408**		
		Exh. 2, Sch.3 page 3, Line 13		

rounding differences may occur

Duke Energy Carolinas, LLC
North Carolina Annual Fuel and Fuel Related Expense
Annualized Revenue
Billing Period September 2022 through August 2023
Docket E-7, Sub 1263

Sykes Workpaper 8

	January 2022 Actuals			Normalized Sales	
	Revenue	kWh Sales	Cents/ kWh	Sykes Exhibit 4	Total Annualized Revenues
	(a)	(b)	(a)/(b) *100 = (c)	(d)	(c) * (d) * 10
Residential	$ 209,556,609	2,129,408,268	9.8411	22,961,890	$ 2,259,696,240
General	$ 137,324,675	1,921,732,056	7.1459	23,202,419	$ 1,658,017,092
Industrial	$ 51,372,485	937,750,891	5.4783	12,293,985	$ 673,497,148
Total	$ 398,253,769	4,988,891,215		58,458,294	$ 4,591,210,481

rounding differences may occur

Duke Energy Carolinas, LLC
North Carolina Annual Fuel and Fuel Related Expense
Projected Reagents and ByProducts
Billing Period September 2022 through August 2023
Docket E-7, Sub 1263

Sykes 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**
9/1/2022	$ 108,717	$ 13,489	$ 449,691	$ 48,393	$ 29,036	$ 34,615	**$ 683,941**	$ 128,362	$ (74,398)	$ (226,533)	**$ (172,570)**
10/1/2022	$ 51,960	$ 6,447	$ 214,926	$ 26,942	$ 16,165	$ 34,615	**$ 351,056**	$ 61,400	$ (31,726)	$ (223,486)	**$ (193,812)**
11/1/2022	$ 79,604	$ 9,877	$ 329,272	$ 36,588	$ 21,953	$ 34,615	**$ 511,909**	$ 84,600	$ (43,313)	$ (220,444)	**$ (179,157)**
12/1/2022	$ 314,933	$ 39,076	$ 1,302,676	$ 112,128	$ 67,277	$ 34,615	**$ 1,870,705**	$ 386,006	$ (232,116)	$ (217,449)	**$ (63,559)**
1/1/2023	$ 413,327	$ 51,284	$ 1,709,669	$ 144,939	$ 86,964	$ 34,615	**$ 2,440,799**	$ 512,709	$ (261,016)	$ (214,680)	**$ 37,013**
2/1/2023	$ 337,638	$ 41,893	$ 1,396,591	$ 110,882	$ 66,529	$ 34,615	**$ 1,988,148**	$ 415,640	$ (237,071)	$ (211,979)	**$ (33,410)**
3/1/2023	$ 106,399	$ 13,202	$ 440,102	$ 49,926	$ 29,955	$ 34,615	**$ 674,199**	$ 115,952	$ (59,337)	$ (209,446)	**$ (152,831)**
4/1/2023	$ 55,930	$ 6,940	$ 231,348	$ 31,061	$ 18,637	$ 34,615	**$ 378,532**	$ 53,252	$ (22,526)	$ (207,253)	**$ (176,528)**
5/1/2023	$ 33,535	$ 4,161	$ 138,712	$ 24,580	$ 14,748	$ 34,615	**$ 250,351**	$ 32,046	$ (8,814)	$ (206,220)	**$ (182,988)**
6/1/2023	$ 81,768	$ 10,146	$ 338,222	$ 42,487	$ 25,492	$ 34,615	**$ 532,731**	$ 91,664	$ (49,255)	$ (205,355)	**$ (162,945)**
7/1/2023	$ 115,903	$ 14,381	$ 479,414	$ 54,842	$ 32,905	$ 34,615	**$ 732,059**	$ 132,485	$ (71,586)	$ (204,536)	**$ (143,637)**
8/1/2023	$ 108,411	$ 13,451	$ 448,427	$ 49,538	$ 29,723	$ 34,615	**$ 684,165**	$ 112,582	$ (63,166)	$ (203,781)	**$ (154,364)**
	$ 1,808,126	$ 224,347	$ 7,479,051	$ 732,305	$ 439,383	$ 415,382	**$ 11,098,593**	$ 2,126,699	$ (1,154,325)	$ (2,551,161)	**$ (1,578,787)**

Total Reagent cost and Sale of By-products **$ 9,519,806**

rounding differences may occur

Duke Energy Carolinas, LLC **Sykes Workpaper 10**
North Carolina Annual Fuel and Fuel Related Expense
2.5% Calculation Test
Twelve Months Ended December 31, 2021
Billing Period September 2022 through August 2023
Docket E-7, Sub 1263

Line No.	Description	Forecast $	(Over)/Under Collection $	Total $
1	Amount in current docket	100,803,928	13,526,437	114,330,365
2	Amount in Sub 1250, prior year docket	102,740,263	(4,999,624)	97,740,638
3	Increase/(Decrease)	(1,936,334)	18,526,061	16,589,727
4	2.5% of 2021 NC retail revenue of $4,720,136,851			118,003,421
	Excess of purchased power growth over 2.5% of revenue			0

	E-7, Sub 1263			
WP 4	Purchases for REPS Compliance - Energy	66,782,210	66.08%	44,126,819
WP 4	Purchases for REPS Compliance - Capacity	14,610,064	66.98%	9,785,379
WP 4	Purchases	7,489,994	66.08%	4,949,066
WP 4	QF Energy	40,652,503	66.08%	26,861,429
WP 4	QF Capacity	8,445,498	66.98%	5,656,539
WP 4	Allocated Economic Purchase cost	14,263,480	66.08%	9,424,695
		152,243,749		100,803,928
	E-7, Sub 1250			
	Purchases for REPS Compliance	62,808,851	65.99%	41,447,561
	Purchases for REPS Compliance Capacity	13,866,978	66.90%	9,276,635
	Purchases	2,586,674	65.99%	1,706,946
	QF Energy	53,822,291	65.99%	35,517,330
	QF Capacity	11,169,971	66.90%	7,472,410
	Allocated Economic Purchase cost	11,091,651	65.99%	7,319,380
		155,346,415		102,740,263

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, 2021
Docket E-7, Sub 1263

Sykes Workpaper 10a

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
Less:													
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	
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	$ 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	$ 776,505	$ 24,135,215
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	
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	$ (636,024)	$ 7,140,417
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**	**$ 1,007,004**	**$ 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
2.5% Calculation Test
Twelve Months Ended December 31, 2020
Docket E-7, Sub 1263

Sykes Workpaper 10b

2020	**Jan-20**	**Feb-20**	**Mar-20**	**Apr-20**	**May-20**	**Jun-20**	**Jul-20**	**Aug-20**	**Sep-20**	**Oct-20**	**Nov-20**	**Dec-20**	**12 ME**
System KWH Sales - Sch 4, Adjusted	7,193,812,943	7,229,160,762	6,557,632,220	5,948,571,625	5,649,816,171	6,745,745,153	8,113,658,335	8,454,195,025	7,632,668,505	6,227,418,819	7,077,137,814	6,283,453,698	83,113,271,070
NC Retail KWH Sales - Sch 4	4,799,050,153	4,852,514,770	4,419,004,658	4,009,530,882	3,737,497,506	4,445,349,080	5,381,133,760	5,679,285,065	5,143,265,080	4,161,108,724	4,768,316,561	4,115,807,397	55,511,863,636
NC Retail % of Sales, Adjusted (Calc)	66.71%	67.12%	67.39%	67.40%	66.15%	65.90%	66.32%	67.18%	67.38%	66.82%	67.38%	65.50%	66.79%
NC retail production plant %	67.55%	67.55%	67.55%	67.55%	67.55%	67.75%	67.75%	67.75%	67.75%	67.75%	67.75%	67.75%	67.71%
Fuel and Fuel related component of purchased power													
System Actual $ - Sch 3 Fuel$:	$ 11,218,315	$ 12,607,762	$ 5,300,111	$ 6,352,200	$ 8,395,303	$ 6,771,661	$ 12,440,459	$ 7,247,711	$ 9,073,495	$ 15,331,837	$ 6,958,738	$ 24,648,415	$ 126,346,007
System Actual $ - Sch 3 Fuel-related$; Economic Purchases	1,491,771	1,826,422	990,649	729,743	909,315	1,057,292	2,012,867	1,346,379	1,036,893	1,743,448	1,074,835	4,774,389	$ 18,994,003
System Actual $ - Sch 3 Fuel-related$; Purchased Power for REPS Compliance	3,745,116	4,068,302	3,681,838	4,276,231	5,491,472	4,795,757	5,305,337	6,084,262	5,064,982	4,676,649	4,553,039	4,091,116	$ 55,834,101
System Actual$ - Sch 3 Fuel-related$; SC DERP	13,291	13,282	28,563	39,932	44,069	110,923	38,018	129,601	69,181	87,074	68,782	37,283	$ 679,999
System Acutal $ - Sch 3 Fuel-related$; HB589 purpa Purchases	2,051,485	2,097,916	2,123,359	2,681,961	3,213,134	2,547,168	2,552,543	2,889,199	2,519,264	2,799,837	2,863,763	2,568,618	$ 30,908,248
Total System Economic & QF$	18,519,978	20,613,684	12,124,520	14,080,067	18,053,293	15,282,801	22,349,224	17,697,152	17,763,815	24,638,845	15,519,157	36,119,821	232,762,358
Less:													
Native Load Transfers, Native Load Transfer Benefit & DE - Progress fees	$ 9,403,952	$ 10,746,417	$ 3,681,146	$ 5,959,074	$ 8,211,008	$ 5,694,556	$ 12,728,156	$ 6,086,984	$ 8,789,272	$ 15,071,913	$ 5,685,045	$ 21,638,297	$ 113,695,820
Total System Economic $ without Native Load Transfers	$ 9,116,026	$ 9,867,267	$ 8,443,374	$ 8,120,993	$ 9,842,285	$ 9,588,245	$ 9,621,068	$ 11,610,168	$ 8,974,543	$ 9,566,932	$ 9,834,112	$ 14,481,524	$ 119,066,539
NC Actual $ (Calc)	$ 6,081,374	$ 6,623,322	$ 5,689,753	$ 5,473,813	$ 6,510,923	$ 6,318,516	$ 6,380,877	$ 7,799,377	$ 6,047,486	$ 6,392,544	$ 6,625,865	$ 9,485,733	$ 79,429,582
Billed rate (¢/kWh):	0.1533	0.1533	0.1533	0.1533	0.1533	0.1533	0.1533	0.1533	0.1689	0.1689	0.1689	0.1689	
Billed $:	$ 7,356,944	$ 7,438,905	$ 6,774,334	$ 6,146,611	$ 5,729,584	$ 6,814,720	$ 8,249,278	$ 8,706,344	$ 8,689,317	$ 7,030,008	$ 8,055,859	$ 6,953,473	$ 87,945,377
(Over)/ Under $:	$ (1,275,570)	$ (815,583)	$ (1,084,581)	$ (672,798)	$ 781,339	$ (496,204)	$ (1,868,401)	$ (906,967)	$ (2,641,831)	$ (637,464)	$ (1,429,993)	$ 2,532,260	$ (8,515,795)
Capacity component of purchased power													
System Actual $ - Capacity component of Cherokee County Cogen Purchases	$ 430,619	$ 430,619	$ 215,310	$ 215,310	$ 322,964	$ 1,399,512	$ 3,229,644	$ 3,229,644	$ 645,929	$ 215,310	$ 215,310	$ 215,310	$ 10,765,481
System Actual $ - Capacity component of Purchased Power for REPS Compliance	645,345	680,159	573,260	641,154	778,381	625,715	2,302,254	2,743,308	2,223,872	1,950,062	637,418	610,344	$ 14,411,272
System Actual $ - Capacity component of HB589 Purpa QF purchases	264,275	306,973	236,219	277,976	283,502	204,320	1,125,235	1,384,219	1,116,138	1,010,084	297,176	256,193	$ 6,762,310
System Actual $ - Capacity component of SC DERP	1,869	1,868	12,351	6,569	4,675	15,765	4,866	18,466	9,471	10,816	8,919	5,142	$ 100,777
System Actual $ - Sch 2 pg 1 ANNUAL VIEW	$ 1,342,109	$ 1,419,619	$ 1,037,140	$ 1,141,008	$ 1,389,523	$ 2,245,312	$ 6,661,999	$ 7,375,637	$ 3,995,410	$ 3,186,272	$ 1,158,823	$ 1,086,989	$ 32,039,840
NC Actual $ (Calc) (1)	$ 906,558	$ 958,914	$ 700,560	$ 770,720	$ 938,585	$ 1,521,128	$ 4,513,293	$ 4,996,760	$ 2,706,763	$ 2,158,598	$ 785,065	$ 736,399	$ 21,693,343
Billed rate (¢/kWh):	0.0327	0.0327	0.0327	0.0327	0.0327	0.0327	0.0327	0.0327	0.0328	0.0328	0.0328	0.0328	
Billed $:	$ 1,570,139	$ 1,587,631	$ 1,445,797	$ 1,311,826	$ 1,222,823	$ 1,454,416	$ 1,760,583	$ 1,858,131	$ 1,686,991	$ 1,364,844	$ 1,564,008	$ 1,349,985	$ 18,177,174
(Over)/Under $:	$ (663,581)	$ (628,718)	$ (745,237)	$ (541,106)	$ (284,239)	$ 66,712	$ 2,752,710	$ 3,138,628	$ 1,019,773	$ 793,755	$ (778,942)	$ (613,586)	$ 3,516,169
TOTAL (Over)/ Under $:	**$ (1,939,151)**	**$ (1,444,300)**	**$ (1,829,818)**	**$ (1,213,904)**	**$ 497,100**	**$ (429,492)**	**$ 884,309**	**$ 2,231,661**	**$ (1,622,059)**	**$ 156,290**	**$ (2,208,936)**	**$ 1,918,674**	**$ (4,999,624)**

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 2019 production plant allocation factor. Actual true-up related to allocator was made as prior period adjustment in June 2020 of Schedule 4.

rounding differences may occur

Duke Energy Carolinas, LLC **Sykes Workpaper 11**
North Carolina Annual Fuel and Fuel Related Expense
Actual Sales by Jursidiction - Subject to Weather
Twelve Months Ended December 31, 2021
Docket E-7, Sub 1263

Line #	Description	Reference	MWhs NORTH CAROLINA	MWhs SOUTH CAROLINA	MWhs TOTAL COMPANY	% NC	% SC
1	Residential	Company Records	22,424,524	6,819,677	29,244,200	76.68	23.32
2	Total General Service	Company Records	23,396,396	5,297,993	28,694,389		
3	less Lighting and Traffic Signals		249,725	50,082	299,807		
4	General Service subject to weather		23,146,672	5,247,911	28,394,582	81.52	18.48
5	Industrial	Company Records	12,247,042	8,363,794	20,610,836	59.42	40.58
6	Total Retail Sales	1+2+5	58,067,962	20,481,464	78,549,426		
7	Total Retail Sales subject to weather	1+4+5	57,818,237	20,431,382	78,249,619	73.89	26.11

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, 2021
Docket E-7, Sub 1263

Sykes Workpaper 12
Page 1

Line #	Description	REFERENCE	Total Company MWh	NC RETAIL % To Total	NC RETAIL MWh	SC RETAIL % To Total	SC RETAIL MWh
	Residential						
1	Total Residential		442,226	76.68	339,099	23.32	103,127
	General Service						
2	Total General Service		55,501	81.52	45,245	18.48	10,257
	Industrial						
3	Total Industrial		48,942	59.42	29,081	40.58	19,861
4	Total Retail	L1+ L2+ L3	546,669		413,425		133,245
5	Wholesale		49,334				
6	Total Company	L4 + L5	596,003		413,425		133,245

rounding differences may occur

Duke Energy Carolinas, LLC
North Carolina Annual Fuel and Fuel Related Expense
Weather Normalization Adjustment by Class by Month
Twelve Months Ended December 31, 2021
Docket E-7, Sub 1263

Sykes Workpaper 12
Page 2

	Residential	Commercial	Industrial
2021	**TOTAL MWH ADJUSTMENT**	**TOTAL MWH ADJUSTMENT**	**TOTAL MWH ADJUSTMENT**
JAN	(32,231)	(6,216)	-
FEB	76,342	6,207	5,074
MAR	(28,114)	-	-
APR	87,225	-	-
MAY	22,994	7,646	8,603
JUN	5,003	2,379	1,202
JUL	132,023	60,904	22,835
AUG	115,041	51,399	31,162
SEP	(100,540)	(54,870)	(24,544)
OCT	(63,328)	(35,264)	(17,356)
NOV	37,621	7,905	21,965
DEC	190,190	15,412	-
Total	**442,226**	**55,501**	**48,942**

	Wholesale
2021	**TOTAL MWH ADJUSTMENT**
JAN	(3,420)
FEB	5,335
MAR	(1,081)
APR	-
MAY	992
JUN	495
JUL	14,107
AUG	10,393
SEP	(4,390)
OCT	(983)
NOV	8,219
DEC	19,667
Total	**49,334**

Note:	**The Resale customers include:**
1	Concord[1]
2	Dallas
3	Forest City
4	Kings Mountain[1]
5	Due West
6	Prosperity[2]
7	Lockhart
8	Western Carolina University
9	City of Highlands
10	Haywood
11	Piedmont
12	Rutherford
13	Blue Ridge
14	Greenwood[1]

[1]Wholesale load is no longer being served by Duke as of December 2018.
[2]Wholesale load is no longer being served by Duke as of December 2019.

rounding differences may occur

Duke Energy Carolinas, LLC
North Carolina Annual Fuel and Fuel Related Expense
Customer Growth Adjustment to kWh Sales
Twelve Months Ended December 31, 2021
Docket E-7, Sub 1263

Line	Estimation Method [1]	Rate Schedule	NC Proposed kWh [1] Adjustment	SC Proposed kWh Adjustment	Wholesale Proposed kWh Adjustment	Total Company
1	*Regression*	Residential	198,267,663	64,686,596		
2						
3		**General Service (Excluding Lighting):**				
4	*Customer*	General Service Small and Large	(239,177,414)	(13,727,966)		
5	*Regression*	Miscellaneous	395,553	897,831		
6		Total General	(238,781,861)	(12,830,135)		
7						
8		**Lighting:**				
9	*Regression*	T & T2 (GL/FL/PL/OL)[2]	(902,695)	(70,408)		
10	*Regression*	TS	461,758	193,341		
11		Total Lighting	(440,937)	122,933		
12						
13		**Industrial:**				
14	*Customer*	I - Textile	675,995	3,411,534		
15	*Customer*	I - Nontextile	17,186,010	23,274,269		
16		Total Industrial	17,862,005	26,685,803		
17						
18						
19		Total	(23,093,129)	78,665,196	73,414,740	128,986,807
					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 **Sykes Workpaper 13**
North Carolina Annual Fuel and Fuel Related Expense **Page 2**
Customer Growth Adjustment to kWh Sales-Wholesale
Twelve Months Ended December 31, 2021
Docket E-7, Sub 1263

Calculation of Customer Growth Adjustment to kWh Sales - Wholesale

Line No.		Reference	
1	Total System Resale (kWh Sales)	Company Records	9,405,969,890
2	Less Intersystem Sales	Exhibit 6, Sch 1	1,241,221,539
3	Total kWh Sales Excluding Intersystem Sales	L1 - L2	8,164,748,350
4	Residential Growth Factor	Line 8	0.8992
5	Adjustment to kWhs - Wholesale	L3 * L4 / 100	73,414,740
6	Total System Retail Residential kWh Sales	Company Records	29,244,200,232
7	2021 Proposed Adjustment kWh - Residential (NC+SC)	WP 13-1	262,954,259
8	Percent Adjustment	L7 / L6 * 100	0.8992

rounding differences may occur

Duke Energy Carolinas, LLC
North Carolina Annual Fuel and Fuel Related Expense
Summary Comparison of Fuel and Fuel Related Cost Factors
Test Period Ended December 31, 2021
Billing Period September 2022 - August 2023
Docket E-7, Sub 1263

Sykes Revised Exhibit 1

Line #	Description	Reference	Residential cents/kWh	General cents/kWh	Industrial cents/kWh	Composite cents/kWh
	Current Fuel and Fuel Related Cost Factors (Approved Fuel Rider Docket No. E-7, Sub 1250)					
1	Approved Fuel and Fuel Related Costs Factors	Input	1.5337	1.6895	1.7243	1.6414
2	EMF Increment (Decrement) cents/kWh	Input	(0.0282)	0.0476	0.1391	0.0353
3	EMF Interest Increment (Decrement) cents/kWh	Input	(0.0041)	0.0000	0.0000	0.0000
4	Approved Net Fuel and Fuel Related Costs Factors	Sum	**1.5014**	**1.7371**	**1.8634**	**1.6767**
	Fuel and Fuel Related Cost Factors Required by Rule R8-55					
5	Proposed Nuclear Capacity Factor of 93.94% and Normalized Test Period Sales	Exh 2 Sch 2 pg 2	**2.4708**	**2.4401**	**2.4022**	**2.4497**
6	NERC 5 Year Average Nuclear Capacity Factor of 92.07% and Projected Period Sales	Exh 2 Sch 3 pg 2	**2.5199**	**2.4711**	**2.4308**	**2.4872**
	Proposed Fuel and Fuel Related Cost Factors using Proposed Nuclear Capacity Factor of 93.94%					
7	Fuel and Fuel Related Costs excluding Purchased Capacity cents/kWh	Exh 2 Sch 1 pg 2	1.9686	1.7971	1.8197	1.8746
8	REPS Compliance and QF Purchased Power - Capacity cents/kWh	Exh 2 Sch 1 pg 2	0.0317	0.0246	0.0199	0.0264
9	Total adjusted Fuel and Fuel Related Costs cents/kWh	Sum	2.0003	1.8217	1.8396	1.9010
10	EMF Increment (Decrement) cents/kWh	Exh 3 pg 2, 3, 4	0.4863	0.6254	0.5726	0.5597
11	EMF Interest Increment (Decrement) cents/kWh	Exh 3 pg 2, 3, 4	-	-	-	-
12	Net Fuel and Fuel Related Costs Factors cents/kWh	Sum	**2.4866**	**2.4471**	**2.4122**	**2.4607**

Note: Fuel factors exclude regulatory fee

Duke Energy Carolinas, LLC
North Carolina Annual Fuel and Fuel Related Expense
Calculation of Fuel and Fuel Related Cost Factors Using:
Proposed Nuclear Capacity Factor of 93.94%
Test Period Ended December 31, 2021
Billing Period September 2022 - August 2023
Docket E-7, Sub 1263

Sykes 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	59,085,520	0.5773	341,071,825
2	Coal	Workpaper 3 & 4	9,117,091	3.2121	292,853,648
3	Gas CT and CC	Workpaper 3 & 4	29,962,094	3.1108	932,067,312
4	Reagents and Byproducts	Workpaper 9			9,519,806
5	Total Fossil	Sum	39,079,185		1,234,440,766
6	Hydro	Workpaper 3	4,980,701		
7	Net Pumped Storage	Workpaper 3	(3,411,289)		
8	Total Hydro	Sum	1,569,412		-
9	Solar Distributed Generation	Workpaper 3	364,048		-
10	Total Generation	Line 1 + Line 5 + Line 8 + Line 9	100,098,166		1,575,512,591
11	Less Lee CC Joint Owners	Workpaper 3 & 4	(876,000)		(20,639,342)
12	Less Catawba Joint Owners	Workpaper 3 & 4	(14,848,200)		(85,734,604)
13	Fuel expense recovered through reimbursement	Workpaper 4			(14,027,557)
14	Net Generation	Sum Lines 10-13	84,373,966		1,455,111,088
15	Purchased Power	Workpaper 3 & 4	9,440,360	2.7656	261,085,798
16	JDA Savings Shared	Workpaper 5			20,748,035
17	Total Purchased Power		9,440,360		281,833,833
18	Total Generation and Purchased Power	Line 14 + Line 17	93,814,326	1.8515	1,736,944,921
19	Fuel expense recovered through intersystem sales	Workpaper 3 & 4	(1,964,801)	3.3757	(66,325,343)
20	Line losses and Company use	Line 22-Line 18-Line 19	(3,892,553)		-
21	System Fuel Expense for Fuel Factor	Lines 18 + 19 + 20			1,670,619,578
22	Projected System MWh Sales for Fuel Factor	Workpaper 7	87,956,972		87,956,972
23	Fuel and Fuel Related Costs cents/kWh	Line 21 / Line 22 / 10			1.8994

Note: Rounding differences may occur

Duke Energy Carolinas, LLC
North Carolina Annual Fuel and Fuel Related Expense
Calculation of Fuel and Fuel Related Cost Factors Using:
Proposed Nuclear Capacity Factor of 93.94%
Test Period Ended December 31, 2021
Billing Period September 2022 - August 2023
Docket E-7, Sub 1263

Sykes Revised Exhibit 2
Schedule 1
Page 2 of 3

Line #	Description	Reference	Residential	GS/Lighting	Industrial	Total
1	NC Projected Billing Period MWh Sales	Workpaper 7	22,809,193	23,222,537	12,202,704	58,234,434
	Calculation of Renewable and Cogeneration Purchased Power Capacity Rate by Class					Amount
2	Purchased Power for REPS Compliance - Capacity	Workpaper 4				$ 14,610,064
3	QF Purchased Power - Capacity	Workpaper 4				8,445,498
4	Total of Renewable and QF Purchased Power Capacity	Line 2 + Line 3				$ 23,055,563
5	NC Portion - Jursidicational % based on 2021 Production Plant Allocator	Input				66.68%
6	NC Renewable and QF Purchased Power - Capacity	Line 4 * Line 5				$ 15,373,745
7	2021 Production Plant Allocation Factors	Input	47.04%	37.14%	15.81%	100.00%
8	Renewable and QF Purchased Power - Capacity allocated on 2021 Production Plant Allocator	Line 6 * Line 7	$ 7,232,527	$ 5,710,002	$ 2,431,215	$ 15,373,745
9	Renewable and QF Purchased Power - Capacity cents/kWh based on Projected Billing Period Sales	Line 8 / Line 1 / 10	0.0317	0.0246	0.0199	0.0264
	Summary of Total Rate by Class					
10	Fuel and Fuel Related Costs excluding Purchased Power for REPS Compliance and QF Purchased Capacity cents/kWh	Line 15 - Line 11 - Line 13 - Line 14	1.9686	1.7971	1.8197	1.8746
11	REPS Compliance and QF Purchased Power - Capacity cents/kWh	Line 9	0.0317	0.0246	0.0199	0.0264
12	Total adjusted Fuel and Fuel Related Costs cents/kWh	Line 10 + Line 11	2.0003	1.8217	1.8396	1.9010
13	EMF Increment (Decrement) cents/kWh	Exh 3 pg 2, 3, 4	0.4863	0.6254	0.5726	0.5597
14	EMF Interest Increment (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	2.4866	2.4471	2.4122	2.4607

Note: Rounding differences may occur

Duke Energy Carolinas, LLC
North Carolina Annual Fuel and Fuel Related Expense
Calculation of Uniform Percentage Average Bill Adjustment by Customer Class
Proposed Nuclear Capacity Factor of 93.94%
Test Period Ended December 31, 2021
Billing Period September 2022 - August 2023
Docket E-7, Sub 1263

Sykes Revised Exhibit 2
Schedule 1
Page 3 of 3

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 1250	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)	Sykes Exhibit 1	E + F = G
1	Residential	22,809,193	$ 2,259,696,240	$ 224,708,128	9.94%	0.9852	1.5014	2.4866
2	General Service/Lighting	23,222,537	1,658,017,092	164,876,106	9.94%	0.7100	1.7371	2.4471
3	Industrial	12,202,704	673,497,148	66,973,729	9.94%	0.5488	1.8634	2.4122
4	NC Retail	58,234,434	$ 4,591,210,481	$ 456,557,963	9.94%			

Total Proposed Composite Fuel Rate:

5	Total Fuel Costs for Allocation	Workpaper 7	$ 1,675,206,096
6	Total of Renewable and QF Purchased Power Capacity	Exhibit 2 Sch 1, Page 2	23,055,563
7	System Other Fuel Costs	Line 5 - Line 6	$ 1,652,150,533
8	Adjusted Projected System MWh Sales for Fuel Factor	Workpaper 7	88,132,893
9	NC Retail Projected Billing Period MWh Sales	Line 4	58,234,434
10	Allocation %	Line 9 / Line 8	66.08%
11	NC Retail Other Fuel Costs	Line 7 * Line 10	$ 1,091,670,180
12	NC Renewable and QF Purchased Power - Capacity	Exhibit 2 Sch 1, Page 2	15,373,745
13	NC Retail Total Fuel Costs	Line 11 + Line 12	$ 1,107,043,925
14	NC Retail Projected Billing Period MWh Sales	Line 4	58,234,434
15	Calculated Fuel Rate cents/kWh	Line 13 / Line 14 / 10	1.9010
16	Proposed Composite EMF Rate cents/kWh	Exhibit 3 Page 1	0.5597
17	Proposed Composite EMF Rate Interest cents/kWh	Exhibit 3 Page 1	0.0000
18	Total Proposed Composite Fuel Rate	Sum	2.4607

Total Current Composite Fuel Rate - Docket E-7 Sub 1250:

19	Current composite Fuel Rate cents/kWh	Sykes Exhibit 1	1.6414
20	Current composite EMF Rate cents/kWh	Sykes Exhibit 1	0.0353
21	Current composite EMF Interest Rate cents/kWh	Sykes Exhibit 1	0.0000
22	Total Current Composite Fuel Rate	Sum	1.6767
23	Increase/(Decrease) in Composite Fuel rate cents/kWh	Line 18 - Line 22	0.7840
24	NC Retail Projected Billing Period MWh Sales	Line 4	58,234,434
25	Increase/(Decrease) in Fuel Costs	Line 23 * Line 24 * 10	$ 456,557,963

Note: Rounding differences may occur

Duke Energy Carolinas, LLC — **Sykes Revised Exhibit 2**
North Carolina Annual Fuel and Fuel Related Expense — **Schedule 2**
Calculation of Fuel and Fuel Related Cost Factors Using: — **Page 1 of 3**
Proposed Nuclear Capacity Factor of 93.94% and Normalized Test Period Sales
Test Period Ended December 31, 2021
Billing Period September 2022 - August 2023
Docket E-7, Sub 1263

Line #	Unit	Reference	Generation (MWh)	Unit Cost (cents/kWh)	Fuel Cost ($)
			D	E	D * E = F
1	Total Nuclear	Workpaper 1	59,085,520	0.5773	341,071,825
2	Coal	Calculated	8,399,051	3.2121	269,789,214
3	Gas CT and CC	Workpaper 3 & 4	29,962,094	3.1108	932,067,312
4	Reagents and Byproducts	Workpaper 9	-		9,519,806
5	Total Fossil	Sum	38,361,146		1,211,376,332
6	Hydro	Workpaper 3	4,980,701		
7	Net Pumped Storage	Workpaper 3	(3,411,289)		
8	Total Hydro	Sum	1,569,412		
9	Solar Distributed Generation	Workpaper 3	364,048		
10	Total Generation	Line 1 + Line 5 + Line 8 + Line 9	99,380,126		1,552,448,157
11	Less Lee CC Joint Owners	Workpaper 3 & 4	(876,000)		(20,639,342)
12	Less Catawba Joint Owners	Workpaper 3 & 4	(14,848,200)		(85,734,604)
13	Fuel expense recovered through reimbursement	Workpaper 4			(14,027,557)
14	Net Generation	Sum	83,655,926		1,432,046,654
15	Purchased Power	Workpaper 3 & 4	9,440,360		261,085,798
16	JDA Savings Shared	Workpaper 5	-		20,748,035
17	Total Purchased Power	Sum	9,440,360		281,833,833
18	Total Generation and Purchased Power	Line 14 + Line 17	93,096,286		1,713,880,487
19	Fuel expense recovered through intersystem sales	Workpaper 3 & 4	(1,964,801)		(66,325,343)
20	Line losses and Company use	Line 22 - Line 19 - Line 18	(3,892,553)		-
21	System Fuel Expense for Fuel Factor	Lines 18 + 19 + 20			1,647,555,144
22	Normalized Test Period MWh Sales	Exhibit 4	87,238,932		87,238,932
23	Fuel and Fuel Related Costs cents/kWh	Line 21 / Line 22 / 10			1.8886

Note: Rounding differences may occur

Duke Energy Carolinas, LLC
North Carolina Annual Fuel and Fuel Related Expense
Calculation of Fuel and Fuel Related Cost Factors Using:
Proposed Nuclear Capacity Factor of 93.94% and Normalized Test Period Sales
Test Period Ended December 31, 2021
Billing Period September 2022 - August 2023
Docket E-7, Sub 1263

Sykes Revised Exhibit 2
Schedule 2

Line #	Description	Reference	Residential	GS/Lighting	Industrial	Total
1	NC Normalized Test Period MWh Sales	Exhibit 4	22,926,377	23,198,571	12,293,985	58,418,933
	Calculation of Renewable Purchased Power Capacity Rate by Class					Amount
2	Purchased Power for REPS Compliance - Capacity	Workpaper 4				$ 14,610,064
3	QF Purchased Power - Capacity	Workpaper 4				8,445,498
4	Total of Renewable and QF Purchased Power Capacity	Line 2 + Line 3				$ 23,055,563
5	NC Portion - Jursidicational % based on 2021 Production Plant Allocator	Input				66.68%
6	NC Renewable and QF Purchased Power - Capacity	Line 4 * Line 5				$ 15,373,745
7	2021 Production Plant Allocation Factors	Input	47.04%	37.14%	15.81%	100.00%
8	Renewable and QF Purchased Power - Capacity allocated on 2021 Production Plant Allocator	Line 6 * Line 7	$ 7,232,527	$ 5,710,002	$ 2,431,215	$ 15,373,745
9	Renewable and QF Purchased Power - Capacity cents/kWh based on Normalized Test Period Sales	Line 8 / Line 1 / 10	0.0315	0.0246	0.0198	0.0263
	Summary of Total Rate by Class					
10	Fuel and Fuel Related Costs excluding Purchased Power for REPS Compliance and QF Purchased Capacity cents/kWh	Line 15 - Line 11 - Line 13 - Line 14	1.9530	1.7901	1.8098	1.8637
11	REPS Compliance and QF Purchased Power - Capacity cents/kWh	Line 9	0.0315	0.0246	0.0198	0.0263
12	Total adjusted Fuel and Fuel Related Costs cents/kWh	Line 10 + Line 11	1.9845	1.8147	1.8296	1.8900
13	EMF Increment (Decrement) cents/kWh	Exh 3 pg 2, 3, 4	0.4863	0.6254	0.5726	0.5597
14	EMF Interest Increment (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	2.4708	2.4401	2.4022	2.4497

Note: Rounding differences may occur

Duke Energy Carolinas, LLC
North Carolina Annual Fuel and Fuel Related Expense
Calculation of Uniform Percentage Average Bill Adjustment by Customer Class
Proposed Nuclear Capacity Factor of 93.94% and Normalized Test Period Sales
Test Period Ended December 31, 2021
Billing Period September 2022 - August 2023
Docket E-7, Sub 1263

Sykes Revised Exhibit 2
Schedule 2
Page 3 of 3

Line #	Rate Class	Normalized Test Period MWh Sales	Annual Revenue at Current rates	Allocate Fuel Costs Increase/(Decrease) to Customer Class	Increase/(Decrease) as % of Annual Revenue at Current Rates	Total Fuel Rate Increase/(Decrease)	Current Total Fuel Rate (including Capacity and EMF) E-7, Sub 1250	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)	Sykes Exhibit 1	E + F = G
1	Residential	22,926,377	$ 2,259,696,240	$ 222,257,268	9.84%	0.9694	1.5014	2.4708
2	General Service/Lighting	23,198,571	$ 1,658,017,092	163,077,825	9.84%	0.7030	1.7371	2.4401
3	Industrial	12,293,985	$ 673,497,148	66,243,256	9.84%	0.5388	1.8634	2.4022
4	NC Retail	58,418,933	$ 4,591,210,481	$ 451,578,349				

Total Proposed Composite Fuel Rate:

5	Total Fuel Costs for Allocation	Workpaper 7a	$ 1,652,141,662
6	Total of Renewable and QF Purchased Power Capacity	Exhibit 2 Sch 2, Page 2	23,055,563
7	System Other Fuel Costs	Line 5 - Line 6	$ 1,629,086,100
8	Normalized Test Period System MWh Sales for Fuel Factor	Workpaper 7a	87,414,853
9	NC Retail Normalized Test Period MWh Sales	Exhibit 4	58,418,933
10	Allocation %	Line 9 / Line 8	66.83%
11	NC Retail Other Fuel Costs	Line 7 * Line 10	$ 1,088,718,240
12	NC Renewable and QF Purchased Power - Capacity	Exhibit 2 Sch 2, Page 2	15,373,745
13	NC Retail Total Fuel Costs	Line 11 + Line 12	$ 1,104,091,985
14	NC Retail Normalized Test Period MWh Sales	Line 9	58,418,933
15	Calculated Fuel Rate cents/kWh	Line 13 / Line 14 / 10	1.8900
16	Proposed Composite EMF Rate cents/kWh	Exhibit 3 Page 1	0.5597
17	Proposed Composite EMF Rate Interest cents/kWh	Exhibit 3 Page 1	0.0000
18	Total Proposed Composite Fuel Rate	Sum	2.4497

Total Current Composite Fuel Rate - Docket E-7 Sub 1250:

19	Current composite Fuel Rate cents/kWh	Sykes Exhibit 1	1.6414
20	Current composite EMF Rate cents/kWh	Sykes Exhibit 1	0.0353
21	Current composite EMF Interest Rate cents/kWh	Sykes Exhibit 1	0.0000
22	Total Current Composite Fuel Rate	Sum	1.6767
23	Increase/(Decrease) in Composite Fuel rate cents/kWh	Line 18 - Line 22	0.7730
24	NC Retail Normalized Test Period MWh Sales	Exhibit 4	58,418,933
25	Increase/(Decrease) in Fuel Costs	Line 23 * Line 24 * 10	$ 451,578,349

Note: Rounding differences may occur

Duke Energy Carolinas, LLC
North Carolina Annual Fuel and Fuel Related Expense
NERC 5 Year Average Nuclear Capacity Factor of 92.07% and Projected Period Sales
Test Period Ended December 31, 2021
Billing Period September 2022 - August 2023
Docket E-7, Sub 1263

Sykes Revised 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	57,909,218	0.5773	334,281,608
2	Coal	Calculated	9,997,788	3.2121	321,142,864
3	Gas CT and CC	Workpaper 3 & 4	29,962,094	3.1108	932,067,312
4	Reagents and Byproducts	Workpaper 9	-		9,519,806
5	Total Fossil	Sum	39,959,882		1,262,729,982
6	Hydro	Workpaper 3	4,980,701		
7	Net Pumped Storage	Workpaper 3	(3,411,289)		
8	Total Hydro	Sum	1,569,412		
9	Solar Distributed Generation	Workpaper 3	364,048		
10	Total Generation	Line 1 + Line 5 + Line 8 + Line 9	99,802,561		1,597,011,590
11	Less Lee CC Joint Owners	Workpaper 3 & 4	(876,000)		(20,639,342)
12	Less Catawba Joint Owners	Calculated	(14,552,595)		(84,027,759)
13	Fuel expense recovered through reimbursement	Workpaper 4			(14,027,557)
14	Net Generation	Sum	84,373,966		1,478,316,932
15	Purchased Power	Workpaper 3 & 4	9,440,360		261,085,798
16	JDA Savings Shared	Workpaper 5	-		20,748,035
17	Total Purchased Power	Sum	9,440,360		281,833,833
18	Total Generation and Purchased Power	Line 14 + Line 17	93,814,326		1,760,150,766
19	Fuel expense recovered through intersystem sales	Workpaper 3 & 4	(1,964,801)		(66,325,343)
20	Line losses and Company use	Line 22 - Line 19 - Line 18	(3,892,553)		-
21	System Fuel Expense for Fuel Factor	Lines 18 + 19 + 20			1,693,825,422
22	Projected System MWh Sales for Fuel Factor	Workpaper 7b	87,956,972		87,956,972
23	Fuel and Fuel Related Costs cents/kWh	Line 21 / Line 22 / 10			1.9257

Note: Rounding differences may occur

Duke Energy Carolinas, LLC
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 92.07% and Projected Period Sales
Test Period Ended December 31, 2021
Billing Period September 2022 - August 2023
Docket E-7, Sub 1263

Sykes Revised Exhibit 2
Schedule 3
Page 2 of 3

Line #	Description	Reference	Residential	GS/Lighting	Industrial	Total
1	NC Projected Billing Period MWh Sales	Workpaper 7b	22,809,193	23,222,537	12,202,704	58,234,434
	Calculation of Renewable Purchased Power Capacity Rate by Class					Amount
2	Purchased Power for REPS Compliance - Capacity	Workpaper 4				$ 14,610,064
3	QF Purchased Power - Capacity	Workpaper 4				8,445,498
4	Total of Renewable and QF Purchased Power Capacity	Line 2 + Line 3				$ 23,055,563
5	NC Portion - Jursidicational % based on 2021 Production Plant Allocator	Input				66.68%
6	NC Renewable and QF Purchased Power - Capacity	Line 4 * Line 5				$ 15,373,745
7	2021 Production Plant Allocation Factors	Input	47.04%	37.14%	15.81%	100.00%
8	Renewable and QF Purchased Power - Capacity allocated on 2021 Production Plant Allocator	Line 6 * Line 7	$ 7,232,527	$ 5,710,002	$ 2,431,215	$ 15,373,745
9	Renewable and QF Purchased Power - Capacity cents/kWh based on Projected Billing Period Sales	Line 8 / Line 1 / 10	0.0317	0.0246	0.0199	0.0264
	Summary of Total Rate by Class					
10	Fuel and Fuel Related Costs excluding Purchased Power for REPS Compliance and QF Purchased Capacity cents/kWh	Line 15 - Line 11 - Line 13 - Line 14	2.0019	1.8211	1.8383	1.9011
11	REPS Compliance and QF Purchased Power - Capacity cents/kWh	Line 9	0.0317	0.0246	0.0199	0.0264
12	Total adjusted Fuel and Fuel Related Costs cents/kWh	Line 10 + Line 11	2.0336	1.8457	1.8582	1.9275
13	EMF Increment (Decrement) cents/kWh	Exh 3 pg 2, 3, 4	0.4863	0.6254	0.5726	0.5597
14	EMF Interest Increment (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	2.5199	2.4711	2.4308	2.4872

Note: Rounding differences may occur

Duke Energy Carolinas, LLC
North Carolina Annual Fuel and Fuel Related Expense
Calculation of Uniform Percentage Average Bill Adjustment by Customer Class
NERC 5 Year Average Nuclear Capacity Factor of 92.07% and Projected Period Sales
Test Period Ended December 31, 2021
Billing Period September 2022 - August 2023
Docket E-7, Sub 1263

Sykes Revised Exhibit 2
Schedule 3
Page 3 of 3

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 1250	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)	Sykes Exhibit 1	E + F = G
1	Residential	22,809,193	$ 2,259,696,240	$ 232,303,492	10.28%	1.0185	1.5014	2.5199
2	General Service/Lighting	23,222,537	$ 1,658,017,092	$ 170,449,087	10.28%	0.7340	1.7371	2.4711
3	Industrial	12,202,704	$ 673,497,148	$ 69,237,509	10.28%	0.5674	1.8634	2.4308
4	NC Retail	58,234,434	$ 4,591,210,481	$ 471,990,088				

Total Proposed Composite Fuel Rate:

5	Total Fuel Costs for Allocation	Workpaper 7b	$ 1,698,411,934
6	Total of Renewable and QF Purchased Power Capacity	Exhibit 2 Sch 3, Page 2	23,055,563
7	System Other Fuel Costs	Line 5 - Line 6	$ 1,675,356,371
8	Adjusted Projected System MWh Sales for Fuel Factor	Workpaper 7b	88,132,893
9	NC Retail Projected Billing Period MWh Sales	Line 4	58,234,434
10	Allocation %	Line 9 / Line 8	66.08%
11	NC Retail Other Fuel Costs	Line 7 * Line 10	$ 1,107,075,490
12	NC Renewable and QF Purchased Power - Capacity	Exhibit 2 Sch 3, Page 2	15,373,745
13	NC Retail Total Fuel Costs	Line 11 + Line 12	$ 1,122,449,235
14	NC Retail Projected Billing Period MWh Sales	Line 4	58,234,434
15	Calculated Fuel Rate cents/kWh	Line 13 / Line 14 / 10	1.9275
16	Proposed Composite EMF Rate cents/kWh	Exhibit 3 Page 1	0.5597
17	Proposed Composite EMF Rate Interest cents/kWh	Exhibit 3 Page 1	0.0000
18	Total Proposed Composite Fuel Rate	Sum	2.4872

Total Current Composite Fuel Rate - Docket E-7 Sub 1250:

19	Current composite Fuel Rate cents/kWh	Sykes Exhibit 1	1.6414
20	Current composite EMF Rate cents/kWh	Sykes Exhibit 1	0.0353
21	Current composite EMF Interest Rate cents/kWh	Sykes Exhibit 1	0.0000
22	Total Current Composite Fuel Rate	Sum	1.6767
23	Increase/(Decrease) in Composite Fuel rate cents/kWh	Line 18 - Line 22	0.8105
24	NC Retail Projected Billing Period MWh Sales	Line 4	58,234,434
25	Increase/(Decrease) in Fuel Costs	Line 23 * Line 24 * 10	$ 471,990,088

Note: Rounding differences may occur

Duke Energy Carolinas, LLC
North Carolina Annual Fuel and Fuel Related Expense
Calculation of Experience Modification Factor - Proposed Composite
Test Period Ended December 31, 2021
Billing Period September 2022 - August 2023
Docket E-7, Sub 1263

Sykes Revised Exhibit 3

Line No.	Month	Fuel Cost Incurred ¢/kWh (a)	Fuel Cost Billed ¢/kWh (b)	NC Retail MWh Sales (c)	Reported (Over)/ Under Recovery (d)	Correction JDA Purchased Power (e)	Revised (Over)/Under Recovery (f)
1	January 2021			5,785,767	$ 1,309,433	$ -	$ 1,309,433
2	February			4,705,197	$ 24,172,571	$ (1,105,173)	$ 23,067,398
3	March [1]			4,216,102	$ (1,280,088)	$ -	$ (1,280,088)
4	April			4,231,666	$ (3,675,665)	$ -	$ (3,675,665)
5	May [1]			3,784,760	$ 9,106,398	$ -	$ 9,106,398
6	June			4,813,118	$ 15,273,578	$ -	$ 15,273,578
7	July			5,540,576	$ 32,252,591	$ -	$ 32,252,591
8	August			5,890,179	$ 37,907,835	$ -	$ 37,907,835
9	September			5,517,651	$ 13,769,502	$ -	$ 13,769,502
10	October [1]			4,297,619	$ 27,401,885	$ -	$ 27,401,885
11	November			4,396,624	$ 64,806,647	$ -	$ 64,806,647
12	December			4,888,703	$ 49,423,931	$ -	$ 49,423,931
13	**Total Test Period**			**58,067,962**	**$ 270,468,622**	**$ (1,105,173)**	**$ 269,363,445**
14	**Adjustment to remove (Over)/Under Recovery - January-February 2021 [2]**				$ 25,482,004	$ (1,105,173)	$ 24,376,831
15	January 2022				$ 81,987,600	$ -	$ 81,987,600
16	**Total (Over)/Under Recovery - Update Period January 2022 [3]**				**$ 81,987,600**	**$ -**	**$ 81,987,600**
17	**Adjusted (Over)/Under Recovery**						**$ 326,974,214**
18	NC Retail Normalized Test Period MWh Sales					Exhibit 4	58,418,933
19	**Experience Modification Increment (Decrement) cents/kWh**						**0.5597**

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

[2] January and February 2021 filed in Docket E-7, Sub 1250 to update the EMF and included in the current EMF rate. Included for Commission review in accordance with NC Rule R8-55(d)(3) but deducted from total (Over)/Under on Line 17.

[3] January 2022 is included for Commission review in accordance with NC Rule R8-55(d)(3). This period will be subject to review in the next annual fuel and fuel-related costs filing.

Rounding differences may occur

Duke Energy Carolinas, LLC
North Carolina Annual Fuel and Fuel Related Expense
Calculation of Experience Modification Factor - Residential
Test Period Ended December 31, 2021
Billing Period September 2022 - August 2023
Docket E-7, Sub 1263

Line #	Month	Fuel Cost Incurred ¢/kWh (a)	Fuel Cost Billed ¢/kWh (b)	NC Retail MWh Sales (c)	Reported (Over)/ Under Recovery (d)	Correction JDA Purchased Power (e)	Revised (Over)/Under Recovery (f)
1	January 2021	1.4543	1.6027	2,427,681	$ (3,602,217)	$ -	$ (3,602,217)
2	February	1.8056	1.6027	2,047,050	$ 4,154,380	$ (396,210)	$ 3,758,170
3	March [1]	1.2642	1.6027	1,996,845	$ (7,158,737)	$ -	$ (7,158,737)
4	April	1.5283	1.6027	1,585,020	$ (1,178,659)	$ -	$ (1,178,659)
5	May [1]	2.0368	1.6027	1,288,098	$ 5,643,932	$ -	$ 5,643,932
6	June	1.9547	1.6027	1,774,699	$ 6,246,872	$ -	$ 6,246,872
7	July	2.1114	1.6027	2,146,583	$ 10,918,699	$ -	$ 10,918,699
8	August	2.2422	1.6027	2,212,544	$ 14,149,173	$ -	$ 14,149,173
9	September	1.7462	1.5655	2,129,356	$ 3,848,250	$ -	$ 3,848,250
10	October [1]	2.3928	1.5337	1,481,929	$ 11,889,253	$ -	$ 11,889,253
11	November	3.5580	1.5337	1,359,179	$ 27,513,197	$ -	$ 27,513,197
12	December	2.2952	1.5337	1,975,540	$ 15,044,028	$ -	$ 15,044,028
13	**Total Test Period**			**22,424,524**	**$ 87,468,172**	**$ (396,210)**	**$ 87,071,961**
14	Test Period Wtd Avg. ¢/kWh	1.9797	1.5843				
15	Adjustment to remove (Over)/Under Recovery - January-February 2021 [2]				$ 552,163	$ (396,210)	$ 155,953
16	January 2022	2.6876	1.5337		$ 24,571,837	$ -	$ 24,571,837
17	**Total (Over)/Under Recovery - Update Period January 2022** [3]				**$ 24,571,837**	**$ -**	**$ 24,571,837**
18	**Adjusted (Over)/Under Recovery**						**$ 111,487,845**
19	NC Retail Normalized Test Period MWh Sales					Exhibit 4	22,926,377
20	**Experience Modification Increment (Decrement) cents/kWh**						**0.4863**

Notes:

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

[2] January and February 2021 filed in Docket E-7, Sub 1250 to update the EMF and included in the current EMF rate. Included for Commission review in accordance with NC Rule R8-55(d)(3) but deducted from total (Over)/Under on Line 18.

[3] January 2022 is included for Commission review in accordance with NC Rule R8-55(d)(3). This period will be subject to review in the next annual fuel and fuel-related costs filing.

Rounding differences may occur

Duke Energy Carolinas, LLC
North Carolina Annual Fuel and Fuel Related Expense
Calculation of Experience Modification Factor - GS/Lighting
Test Period Ended December 31, 2021
Billing Period September 2022 - August 2023
Docket E-7, Sub 1263

Line #	Month	Fuel Cost Incurred ¢/kWh (a)	Fuel Cost Billed ¢/kWh (b)	NC Retail MWh Sales (c)	Reported (Over)/ Under Recovery (d)	Correction JDA Purchased Power (e)	Revised (Over)/Under Recovery (f)
1	January 2021	1.8948	1.7583	2,224,452	$ 3,036,294	$ -	$ 3,036,294
2	February	2.5796	1.7583	1,711,092	$ 14,053,467	$ (474,850)	$ 13,578,617
3	March [1]	2.0380	1.7583	1,477,172	$ 3,654,007	$ -	$ 3,654,007
4	April	1.6824	1.7583	1,719,557	$ (1,305,025)	$ -	$ (1,305,025)
5	May [1]	1.8862	1.7583	1,656,907	$ 2,072,505	$ -	$ 2,072,505
6	June	2.0391	1.7583	2,021,651	$ 5,677,153	$ -	$ 5,677,153
7	July	2.3469	1.7583	2,284,951	$ 13,448,970	$ -	$ 13,448,970
8	August	2.5564	1.7583	2,286,069	$ 18,244,441	$ -	$ 18,244,441
9	September	1.9616	1.7212	2,297,610	$ 5,524,126	$ -	$ 5,524,126
10	October [1]	2.1455	1.6895	2,004,794	$ 8,129,521	$ -	$ 8,129,521
11	November	3.3527	1.6895	1,759,969	$ 29,272,230	$ -	$ 29,272,230
12	December	2.8474	1.6895	1,952,172	$ 22,604,847	$ -	$ 22,604,847
13	**Total Test Period**			**23,396,396**	**$ 124,412,536**	**$ (474,850)**	**$ 123,937,686**
14	Test Period Wtd Avg. ¢/kWh	2.2762	1.7378				
15	Adjustment to remove (Over)/Under Recovery - January-February 2021 [2]				$ 17,089,761	$ (474,850)	$ 16,614,911
16	January 2022	3.6545	1.6895		$ 37,762,562	$ -	$ 37,762,562
17	**Total (Over)/Under Recovery - Update Period January 2022** [3]				**$ 37,762,562**	**$ -**	**$ 37,762,562**
18	**Adjusted (Over)/Under Recovery**						**$ 145,085,337**
19	NC Retail Normalized Test Period MWh Sales					Exhibit 4	23,198,571
20	**Experience Modification Increment (Decrement) cents/kWh**						**0.6254**

Notes:

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

[2] January and February 2021 filed in Docket E-7, Sub 1250 to update the EMF and included in the current EMF rate. Included for Commission review in accordance with NC Rule R8-55(d)(3) but deducted from total (Over)/Under on Line 18.

[3] January 2022 is included for Commission review in accordance with NC Rule R8-55(d)(3). This period will be subject to review in the next annual fuel and fuel-related costs filing.

Rounding differences may occur

Duke Energy Carolinas, LLC
North Carolina Annual Fuel and Fuel Related Expense
Calculation of Experience Modification Factor - Industrial
Test Period Ended December 31, 2021
Billing Period September 2022 - August 2023
Docket E-7, Sub 1263

Sykes Revised Exhibit 3
Page 4 of 4

Line #	Month	Fuel Cost Incurred ¢/kWh (a)	Fuel Cost Billed ¢/kWh (b)	NC Retail MWh Sales (c)	Reported (Over)/ Under Recovery (d)	Correction JDA Purchased Power (e)	Revised (Over)/Under Recovery (f)
1	January 2021	1.8306	1.6652	1,133,633	$ 1,875,356	$ -	$ 1,875,356
2	February	2.2950	1.6652	947,056	$ 5,964,724	$ (234,113)	$ 5,730,612
3	March [1]	1.9967	1.6652	742,085	$ 2,224,644	$ -	$ 2,224,644
4	April	1.5366	1.6652	927,089	$ (1,191,979)	$ -	$ (1,191,979)
5	May [1]	1.8321	1.6652	839,755	$ 1,389,961	$ -	$ 1,389,961
6	June	1.9946	1.6652	1,016,768	$ 3,349,552	$ -	$ 3,349,552
7	July	2.3762	1.6652	1,109,043	$ 7,884,922	$ -	$ 7,884,922
8	August	2.0615	1.6652	1,391,565	$ 5,514,222	$ -	$ 5,514,222
9	September	2.1003	1.6971	1,090,684	$ 4,397,125	$ -	$ 4,397,125
10	October [1]	2.6966	1.7243	810,897	$ 7,383,110	$ -	$ 7,383,110
11	November	2.3522	1.7243	1,277,476	$ 8,021,220	$ -	$ 8,021,220
12	December	2.9496	1.7243	960,991	$ 11,775,057	$ -	$ 11,775,057
13	**Total Test Period**			**12,247,042**	**$ 58,587,915**	**$ (234,113)**	**$ 58,353,802**
14	Test Period Wtd Avg. ¢/kWh	2.1672	1.6828				
15	Adjustment to remove (Over)/Under Recovery - January-February 2021 [2]				$ 7,840,080	$ (234,113)	$ 7,605,968
16	January 2022	3.8201	1.7243		$ 19,653,201	$ -	$ 19,653,201
17	**Total (Over)/Under Recovery - Update Period January 2022** [3]				**$ 19,653,201**	**$ -**	**$ 19,653,201**
18	**Adjusted (Over)/Under Recovery**						**$ 70,401,036**
19	NC Retail Normalized Test Period MWh Sales					Exhibit 4	12,293,985
20	**Experience Modification Increment (Decrement) cents/KWh**						**0.5726**

Notes:

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

[2] January and February 2021 filed in Docket E-7, Sub 1250 to update the EMF and included in the current EMF rate. Included for Commission review in accordance with NC Rule R8-55(d)(3) but deducted from total (Over)/Under on Line 18.

[3] January 2022 is included for Commission review in accordance with NC Rule R8-55(d)(3). This period will be subject to review in the next annual fuel and fuel-related costs filing.

Rounding differences may occur

Duke Energy Carolinas, LLC
North Carolina Annual Fuel and Fuel Related Expense
Sales, Fuel Revenue, Fuel Expense and System Peak
Test Period Ended December 31, 2021
Billing Period September 2022 - August 2023
Docket E-7, Sub 1263

Sykes Revised Exhibit 4

Line #	Description	Reference	Total Company	North Carolina Retail	North Carolina Residential	North Carolina General Service/Lighting	North Carolina Industrial
1	Test Period MWh Sales (excluding inter system sales)	Exhibit 6 Schedule 1 (Line 4) and Workpaper 11 (NC Retail)	86,551,610	58,067,962	22,424,524	23,396,396	12,247,042
2	Customer Growth MWh Adjustment	Workpaper 13 Pg 1	99,601	(62,454)	162,754	(243,071)	17,862
3	Weather MWh Adjustment	Workpaper 12 Pg 1	587,721	413,425	339,099	45,245	29,081
4	Total Normalized MWh Sales	Sum	87,238,932	58,418,933	22,926,377	23,198,571	12,293,985
5	Test Period Fuel and Fuel Related Revenue *		$ 1,449,831,492	$ 967,961,388			
6	Test Period Fuel and Fuel Related Expense *		$ 1,845,020,858	$ 1,238,430,010			
7	Test Period Unadjusted (Over)/Under Recovery		$ 395,189,366	$ 270,468,622			

Line #	Description	2021 Summer Coincidental Peak (CP) kW
8	Total System Peak	17,241,828
9	NC Retail Peak	11,480,608
10	NC Residential Peak	5,400,475
11	NC General Service/Lighting Peak	4,263,819
12	NC Industrial Peak	1,816,314

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

Rounding differences may occur

Duke Energy Carolinas, LLC
North Carolina Annual Fuel and Fuel Related Expense
Nuclear Capacity Ratings
Test Period Ended December 31, 2021
Billing Period September 2022 - August 2023
Docket E-7, Sub 1263

Sykes Exhibit 5

Unit	Rate Case Docket E-7, Sub 1214	Fuel Docket E-7, Sub 1250	Proposed Capacity Rating MW
Oconee Unit 1	847.0	847.0	847.0
Oconee Unit 2	848.0	848.0	848.0
Oconee Unit 3	859.0	859.0	859.0
McGuire Unit 1	1,158.0	1,158.0	1,158.0
McGuire Unit 2	1,157.6	1,157.6	1,157.6
Catawba Unit 1	1,160.1	1,160.1	1,160.0
Catawba Unit 2	1,150.1	1,150.1	1,150.1
Total Company	7,179.8	7,179.8	7,179.7

Sykes Exhibit 6

DECEMBER 2021 MONTHLY FUEL FILING

Sykes Exhibit 6
Schedule 1

DUKE ENERGY CAROLINAS
SUMMARY OF MONTHLY FUEL REPORT

Docket No. E-7, Sub 1248

Line No.		December 2021	12 Months Ended December 2021
1	Fuel and fuel-related costs	$ 189,923,750	$ 1,841,186,117
	MWH sales:		
2	Total system sales	7,230,301	87,792,832
3	Less intersystem sales	48,877	1,241,222
4	Total sales less intersystem sales	7,181,424	86,551,610
5	Total fuel and fuel-related costs (¢/KWH) (line 1/line 4)	2.6447	2.1273
6	Current fuel and fuel-related cost component (¢/KWH) (per Schedule 4, Line 7a Total)	1.6334	
	Generation Mix (MWH):		
	Fossil (by primary fuel type):		
7	Coal	285,789	13,569,695
8	Fuel Oil	2,720	53,988
9	Natural Gas - Combined Cycle	1,298,695	14,542,974
10	Natural Gas - Combined Heat and Power	9,589	15,739
11	Natural Gas - Combustion Turbine	61,155	1,131,529
12	Natural Gas - Steam	973,777	7,231,653
13	Biogas	1,215	21,502
14	Total fossil	2,632,940	36,567,080
15	Nuclear 100%	5,245,391	60,454,296
16	Hydro - Conventional	65,561	1,950,233
17	Hydro - Pumped storage	(77,236)	(610,077)
18	Total hydro	(11,675)	1,340,156
19	Solar Distributed Generation	15,972	293,289
20	Total MWH generation	7,882,628	98,654,821
21	Less joint owners' portion - Nuclear	1,413,367	15,008,712
22	Less joint owners' portion - Combined Cycle	70,455	744,961
23	Adjusted total MWH generation	6,398,806	82,901,148

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

Sykes Exhibit 6
Schedule 2

DUKE ENERGY CAROLINAS
DETAILS OF FUEL AND FUEL-RELATED COSTS

Docket No. E-7, Sub 1248

Fuel and fuel-related costs:	December 2021	12 Months Ended December 2021
0501110 coal consumed - steam	$ 9,829,322	$ 428,535,150
0501310 fuel oil consumed - steam	86,054	1,264,107
0501330 fuel oil light-off - steam	10,457	1,119,252
Total Steam Generation - Account 501	9,925,833	430,918,509
Nuclear Generation - Account 518		
0518100 burnup of owned fuel	21,591,353	259,578,561
Other Generation - Account 547		
0547100, 0547124 - natural gas consumed - Combustion Turbine	4,412,048	49,551,008
0547100 - Combustion Turbine - credit for inefficient fuel cost	(126,494)	(1,524,868)
0547100 natural gas consumed - Steam	61,810,549	331,328,622
0547101 natural gas consumed - Combined Cycle	54,245,577	392,828,920
0547101 natural gas consumed - Combined Heat and Power	817,949	1,710,128
0547106 biogas consumed - Combined Cycle	65,711	1,161,456
0547200 fuel oil consumed - Combustion Turbine	225,631	6,445,339
Total Other Generation - Account 547	121,450,971	781,500,605
Reagents		
Reagents (lime, limestone, ammonia, urea, dibasic acid, and sorbents)	851,596	18,393,982
Total Reagents	851,596	18,393,982
By-products		
Net proceeds from sale of by-products	905,813	6,884,190
Total By-products	905,813	6,884,190
Total Fossil and Nuclear Fuel Expenses		
Included in Base Fuel Component	154,725,566	1,497,275,847
Purchased Power and Net Interchange - Account 555		
Capacity component of purchased power (economic)	215,310	10,765,481
Capacity component of purchased power (renewables)	662,095	16,335,530
Capacity component of purchased power (PURPA)	281,956	8,934,137
Fuel and fuel-related component of purchased power	36,195,486	353,899,479
Total Purchased Power and Net Interchange - Account 555	37,354,847	389,934,627
Less:		
Fuel and fuel-related costs recovered through intersystem sales	2,010,944	44,191,701
Fuel in loss compensation	138,819	1,368,818
Solar Integration Charge	(2,826)	(2,826)
Lincoln CT marginal fuel revenue	39,124	246,896
Miscellaneous Fees Collected	(29,400)	219,768
Total Fuel Credits - Accounts 447 /456	2,156,661	46,024,357
Total Fuel and Fuel-related Costs	$ 189,923,750	$ 1,841,186,117

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

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

DEC 2021

Sykes Exhibit 6
Schedule 3 - Purchases

Purchased Power	Total	Capacity	Non-capacity			
Economic	$	$	mWh	Fuel $	Fuel-related $	Not Fuel $ Not Fuel-related $
Carolina Power Partners, LLC	$ 573,300	-	11,400	$ 349,713	$ 223,587	
Cherokee County Cogeneration Partners	1,980,350	$ 215,310	32,635	1,605,083	159,957	
DE Progress - Native Load Transfer	20,239,048	-	573,789	19,367,526	861,570	$ 9,952
DE Progress - Native Load Transfer Benefit	3,261,712	-	-	3,261,712	-	
Haywood Electric - Economic	38,342	19,790	332	11,317	7,235	
Macquarie Energy, LLC	357,584	-	7,413	218,126	139,458	
NCMPA - Economic	335,160	-	9,120	204,448	130,712	
Piedmont Municipal Power Agency	710,145	-	21,612	417,565	292,580	
PJM Interconnection, LLC.	12,874	-	300	7,853	5,021	
Town of Dallas	584	584	-	-	-	
Town of Forest City	19,856	19,856	-	-	-	
	$ 28,978,259	**$ 255,540**	**698,740**	**$ 26,295,173**	**$ 2,417,594**	**$ 9,952**
Renewable Energy						
REPS	$ 5,049,069	$ 642,188	91,397	$ -	$ 4,406,882	
DERP - Purchased Power	304,103	19,907	5,264	-	205,494	78,703
DERP - Net Metered Generation	553	-	20			553
	$ 5,353,725	**$ 662,095**	**96,682**	**$ -**	**$ 4,612,376**	**$ 79,256**
HB589 PURPA Purchases						
CPRE - Purchased Power	(20,000)	-	-			(20,000)
Qualifying Facilities	2,710,938	281,956	49,804		2,343,504	85,478
	$ 2,690,938	**$ 281,956**	**49,804**	**$ -**	**$ 2,343,504**	**$ 65,478**
Non-dispatchable / Other						
Blue Ridge Electric Membership Corp.	1,100,555	$ 617,591	25,631	294,608		188,356
Haywood Electric	202,825	104,398	4,343	60,040		38,386
Macquarie Energy, LLC	60,500	-	1,100	36,905		23,595
NCEMC - Other	3,133	3,133	-	-		-
Piedmont Electric Membership Corp.	523,997	293,984	11,904	140,308		89,705
Generation Imbalance	683,926	-	20,622	412,075		271,851
Energy Imbalance - Purchases	63,494	-	6,933	32,476		31,018
Energy Imbalance - Sales	306,460	-	-	(49,070)		355,530
Other Purchases	717	-	28	-		717
	$ 2,945,607	**$ 1,019,107**	**70,561**	**$ 927,342**	**$ -**	**$ 999,158**
	-					
Total Purchased Power	**$ 39,968,528**	**$ 2,218,697**	**915,787**	**$ 27,222,515**	**$ 9,373,473**	**$ 1,153,843**
Interchanges In						
Other Catawba Joint Owners	7,311,950	-	710,249	4,176,265		3,135,685
WS Lee Joint Owner	1,557,572		29,613	1,437,844		119,728
Total Interchanges In	8,869,522	-	739,862	5,614,110	-	3,255,412
Interchanges Out						
Other Catawba Joint Owners	(7,168,642)	(134,209)	(693,456)	(4,077,519)		(2,956,913)
Catawba- Net Negative Generation	-	-	-	-		-
WS Lee Joint Owner	(2,094,784)		(40,405)	(1,937,093)		(157,691)
Total Interchanges Out	(9,263,426)	(134,209)	(733,861)	(6,014,612)	-	(3,114,604)
Net Purchases and Interchange Power	**$ 39,574,624**	**$ 2,084,488**	**921,788**	**$ 26,822,013**	**$ 9,373,473**	**$ 1,294,651**

NOTE: Detail amounts may not add to totals shown due to rounding.
CPRE purchased power amounts are recovered through the CPRE Rider.

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

DEC 2021

Sales	Total $	Capacity $	Non-capacity mWh	Non-capacity Fuel $	Non-capacity Non-fuel $
Utilities:					
SC Public Service Authority - Emergency	-	-	-	-	-
Market Based:					
Central Electric Power Cooperative, Inc.	-	$ -	-	-	-
Macquarie Energy, LLC	46,500	-	1,400	36,695	9,805
NCMPA	91,919	87,500	81	5,027	(608)
PJM Interconnection, LLC.	-	-	-	-	-
Other:					
DE Progress - Native Load Transfer Benefit	274,561	-	-	274,561	-
DE Progress - Native Load Transfer	1,685,438	-	45,652	1,658,000	27,439
Generation Imbalance	42,056	-	1,744	36,660	5,396
Total Intersystem Sales	**$ 2,139,006**	**$ 87,500**	**48,877**	**$ 2,010,944**	**$ 40,562**

* 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
DEC 2021

Sykes Exhibit 6
Schedule 3 - Purchases
Page 3 of 5

Purchased Power	Total	Capacity	Non-capacity			
Economic	$	$	mWh	Fuel $	Fuel-related $	Not Fuel $ Not Fuel-related $
Carolina Power Partners, LLC	$ 1,787,160	-	42,160	$ 1,090,168	$ 696,992	
Cherokee County Cogeneration Partners	25,303,689	$ 10,765,481	370,824	12,687,649	1,850,559	
Cube Yadkin Generation LLC	606,505	-	37,958	369,968	236,537	
DE Progress - Native Load Transfer	185,028,516	-	5,779,506	174,196,837	10,756,889	$ 74,790
DE Progress - Native Load Transfer (Prior Period Adjust)	-	-	-	-	-	
DE Progress - Native Load Transfer Benefit	21,186,870	-	-	21,186,870	-	
DE Progress - Fees	3,126	-	-	-	3,126	
EDF Trading North America, LLC.	-	-	-	-	-	
Exelon Generation Company, LLC.	311,275	-	4,945	189,878	121,397	
Florida Power & Light Company	-	-	-	-	-	
Haywood Electric - Economic	337,984	235,484	1,819	62,525	39,975	
Macquarie Energy, LLC	4,176,326	-	90,110	2,547,559	1,628,767	
NCEMC	-	-	-	-	-	
NCMPA	1,794,926	-	48,595	1,050,744	744,183	
NCMPA Load Following Economic	12,832,732	-	405,883	7,389,860	5,442,872	
Piedmont Municipal Power Agency	3,474,337	-	120,036	2,007,947	1,466,390	
PJM Interconnection, LLC.	189,850	-	5,700	115,809	74,042	
South Carolina Electric & Gas Company / Dominion Energy	152,750	-	3,550	92,690	60,061	
Southern Company Services, Inc.	706,464	-	20,793	430,943	275,521	
Tennesse Valley Authority	280,504	-	7,231	171,107	109,397	
The Energy Authority	69,600	-	2,400	42,456	27,144	
Town of Dallas	7,008	7,008	-	-	-	
Town of Forest City	238,272	238,272	-	-	-	
	$ 258,487,895	**$ 11,246,246**	**6,941,510**	**$ 223,633,007**	**$ 23,533,853**	**$ 74,790**
Renewable Energy						
REPS	$ 73,398,098	$ 16,092,597	1,192,575	$ -	$ 57,305,502	$ -
DERP - Purchased Power	3,789,475	242,933	65,917	-	2,583,689	962,853
DERP - Net Metered Generation	52,349	(56)	1,943	-		52,406
	$ 77,239,922	**$ 16,335,474**	**1,260,435**	**$ -**	**$ 59,889,191**	**$ 1,015,259**
HB589 PURPA Purchases						
CPRE - Purchased Power	$ (70,000)	$ -	-			$ (70,000)
Qualifying Facilities	43,116,103	8,934,138	714,046		$ 33,167,413	1,014,555
	$ 43,046,103	**$ 8,934,138**	**714,046**	**$ -**	**$ 33,167,413**	**$ 944,555**

Sykes Exhibit 6
Schedule 3 - Purchases
Page 4 of 5

Non-dispatchable / Other						
Blue Ridge Electric Membership Corp.	13,391,449	7,266,227	299,086	3,736,386		2,388,837
Carolina Power Partners, LLC	1,101,300	-	26,310	671,793		429,507
DE Progress - As Available Capacity	302,530	302,530	-	-		-
Exelon Generation Company, LLC.	131,200	-	1,600	80,032		51,168
Haywood Electric	2,619,594	1,317,250	55,640	794,430		507,914
Macquarie Energy, LLC	10,866,055	-	182,317	6,628,294		4,237,761
NCEMC - Other	724,944	30,315	8,941	423,724		270,905
NCMPA - Reliability	316,144	-	3,496	192,848		123,296
Piedmont Electric Membership Corp.	6,410,149	3,460,962	140,160	1,799,004		1,150,182
Southern Company Services, Inc.	541,806	-	6,886	330,502		211,304
Generation Imbalance	2,987,298		75,257	1,636,681		1,350,617
Energy Imbalance - Purchases	1,644,938		(77,146)	1,358,681		286,257
Energy Imbalance - Sales	(4,528,599)		-	(4,307,002)		(221,597)
Other Purchases	6,183	-	228	-		6,183
	$ 36,514,991	**$ 12,377,283**	**722,775**	**$ 13,345,372**	**$ -**	**$ 10,792,336**
Total Purchased Power	**$ 415,288,911**	**$ 48,893,141**	**9,638,766**	**$ 236,978,379**	**$ 116,590,457**	**$ 12,826,940**
						(6)
Interchanges In						
Other Catawba Joint Owners	71,832,695	-	7,544,326	42,400,464		29,432,231
WS Lee Joint Owner	15,839,014	-	462,339	13,941,298		1,897,716
Total Interchanges In	87,671,709	-	8,006,664	56,341,761	-	31,329,947
Interchanges Out						
Other Catawba Joint Owners	(74,348,518)	(1,580,207)	(7,701,093)	(43,504,130)		(29,264,180)
Catawba- Net Negative Generation	(258,387)	-	(13,290)	(214,466)		(43,921)
WS Lee Joint Owner	(14,126,778)	-	(402,026)	(12,292,521)		(1,834,257)
Total Interchanges Out	(88,733,683)	(1,580,207)	(8,116,409)	(56,011,117)	-	(31,142,358)
Net Purchases and Interchange Power	**$ 414,226,937**	**$ 47,312,934**	**9,529,021**	**$ 237,309,023**	**$ 116,590,457**	**$ 13,014,529**

NOTES: Detail amounts may not add to totals shown due to rounding.
CPRE purchased power amounts are recovered through the CPRE Rider.

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

Twelve Months Ended
DEC 2021

Sykes Exhibit 6
Schedule 3 - Sales

Sales	Total $	Capacity $	Non-capacity mWh	Non-capacity Fuel $	Non-capacity Non-fuel $
Utilities:					
SC Public Service Authority - Emergency	506,304	-	5,909	429,565	76,740
SC Electric & Gas / Dominion Energy - Emergency	49,990	-	1,091	52,118	(2,128)
Market Based:					
Carolina Power Partners, LLC	134,880	-	2,780	109,765	25,115
Central Electric Power Cooperative, Inc.	4,590,375	$ 4,809,001	(5,516)	(209,410)	(9,216)
Macquarie Energy, LLC	3,477,999	-	97,200	3,350,868	127,130
NCMPA	1,376,522	1,050,000	6,271	337,204	(10,682)
PJM Interconnection, LLC.	219,886	-	8,198	207,112	12,773
SC Electric & Gas / Dominion Energy	191,976	-	3,925	151,852	40,123
Southern Company	18,750	-	1,250	22,085	(3,335)
Tennesse Valley Authority	1,800	-	50	1,674	126
The Energy Authority	246,025	-	3,875	211,674	34,351
Other:					
DE Progress - Native Load Transfer Benefit	5,711,116	-	-	5,711,116	-
DE Progress - Native Load Transfer	35,200,938	-	1,094,952	33,084,586	2,116,352
Generation Imbalance	740,062	-	21,237	731,493	8,569
BPM Transmission	(635,177)	-	-	-	(635,177)
Total Intersystem Sales	**$ 51,831,446**	**$ 5,859,001**	**1,241,222**	**$ 44,191,701**	**$ 1,780,742**

* Sales for resale other than native load priority.

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

Sykes Exhibit 6
Schedule 4
Page 1 of 2

Duke Energy Carolinas
(Over) / Under Recovery of Fuel Costs
Dec 2021

Line No.			Residential	Commercial	Industrial	Total
1	Actual System kWh sales	Input				7,181,424,304
2	DERP Net Metered kWh generation	Input				10,166,360
3	Adjusted System kWh sales	L1 + L2				7,191,590,664
4	N.C. Retail kWh sales	Input	1,975,539,867	1,952,172,317	960,990,889	4,888,703,073
5	NC kWh sales % of actual system kWh sales	L4 T / L1				68.07%
6	NC kWh sales % of adjusted system kWh sales	L4 T / L3				67.98%
7	Approved fuel and fuel-related rates (¢/kWh)					
	7a Billed rates by class (¢/kWh)	Input Annually	1.5337	1.6895	1.7243	1.6334
	7b Billed fuel expense	L7b * L4 / 100	$30,298,855	$32,981,951	$16,570,366	$79,851,172
8	Incurred base fuel and fuel-related (less renewable purchased power capacity) rates by class (¢/kWh)					
	8a Docket E-7, Sub 1228 allocation factor	Input	35.00%	43.03%	21.96%	
	8b System incurred expense	Input				$189,029,546
	8c Incurred base fuel and fuel-related expense	L8b * L6 * 8a	$44,977,890	$55,298,766	$28,221,943	$128,498,599
	8d Incurred base fuel rates by class (¢/kWh)	L8c / L4 * 100	2.2767	2.8327	2.9368	2.6285
9	Incurred renewable purchased power capacity rates by class (¢/kWh)					
	9a NC retail production plant %	Input				66.98%
	9b Production plant allocation factors	Input	47.00%	37.09%	15.90%	100.00%
	9c System incurred expense	Input				$1,159,361
	9d Incurred renewable capacity expense	L9a * L9b * 9c	$364,993	$288,032	$123,480	$776,505
	9e Incurred renewable capacity rates by class (¢/kWh)	(L9a * L9c) * L9b / L4 * 100	0.0185	0.0148	0.0128	0.0159
10	Total incurred rates by class (¢/kWh)	L8d + L9e	2.2952	2.8474	2.9496	2.6444
11	Difference in ¢/kWh (incurred - billed)	L7a - L10	0.7615	1.1579	1.2253	1.0110
12	(Over) / under recovery [See footnote]	(L4 * L11) / 100	$15,044,028	$22,604,847	$11,775,057	$49,423,931
13	Adjustments	Input				
14	Total (over) / under recovery [See footnote]	L12+ L13	$15,044,028	$22,604,847	$11,775,057	$49,423,931
15	Total system incurred expense	L8b + L9c				$190,188,907
16	Less: Jurisdictional allocation adjustment(s)	Input				265,155
17	Total Fuel and Fuel-related Costs per Schedule 2	L15 + L16 + L17				$189,923,752
18	(Over) / under recovery for each month of the current calendar year [See footnote]					

Sykes Exhibit 6
Schedule 4
Page 2 of 2

		(Over) / Under Recovery				
	Year 2021	Total To Date	Residential	Commercial	Industrial	Total Company
	January	$1,309,433	($3,602,217)	$3,036,294	$1,875,356	$1,309,433
	February	25,482,004	$4,154,380	$14,053,467	$5,964,724	$24,172,571
_/1	March	24,201,918	($7,158,737)	$3,654,007	$2,224,644	($1,280,086)
	April	20,526,255	($1,178,659)	($1,305,025)	($1,191,979)	($3,675,663)
_/1	May	29,632,653	$5,643,932	$2,072,505	$1,389,961	$9,106,398
	June	44,906,231	$6,246,872	$5,677,153	$3,349,552	$15,273,578
	July	77,158,822	$10,918,699	$13,448,970	$7,884,922	$32,252,591
	August	115,066,658	$14,149,173	$18,244,441	$5,514,222	$37,907,836
	September	128,836,159	$3,848,250	$5,524,126	$4,397,125	$13,769,501
	October	156,238,043	$11,889,253	$8,129,521	$7,383,110	$27,401,884
	November	$221,044,690	$27,513,197	$29,272,230	$8,021,220	$64,806,647
	December	$270,468,622	$15,044,028	$22,604,847	$11,775,057	$49,423,932
			$87,468,172	$124,412,536	$58,587,915	$270,468,622

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 adjustments.

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

Sykes Exhibit 6
Schedule 5
Page 1 of 2

DUKE ENERGY CAROLINAS
FUEL AND FUEL RELATED COST REPORT
DECEMBER 2021

Description	Buck CC	Dan River CC	Lee CC	Clemson CHP	Lee Steam/CT	Lincoln CT	(A) Lincoln (Unit17) CT	Mill Creek CT	Rockingham CT
Cost of Fuel Purchased ($)									
Coal									
Oil	-	-	-		-	-	-	682,026	342,571
Gas - CC	$18,337,524	$14,701,746	$24,724,237						
Gas - CHP				$817,949					
Gas - CT					$14,021	$6,134	($127,461)	$293,036	$4,099,824
Gas - Steam					3				
Biogas	-	221,776	-						
Total	$18,337,524	$14,923,522	$24,724,237	$817,949	$14,024	$6,134	($127,461)	$975,062	$4,442,395
Average Cost of Fuel Purchased (¢/MBTU)									
Coal		-							
Oil					-	-	-	1,672.86	1,655.96
Gas - CC	632.40	632.14	634.66						
Gas - CHP				715.93					
Gas - CT					-	1,792.50	(1,005.99)	653.43	636.17
Gas - Steam					-				
Biogas	-	2,601.47	-						
Weighted Average	632.40	639.34	634.66	715.93	-	1,792.50	(1,005.99)	1,138.88	667.89
Cost of Fuel Burned ($)									
Coal		-	-		-				
Oil - CC	-	-	-						
Oil - Steam/CT					$49,924	-	154,413	21,294	-
Gas - CC	$18,337,524	$14,701,746	$24,724,237						
Gas - CHP				$817,949					
Gas - CT					14,021	$6,134	($127,461)	$293,036	$4,099,824
Gas - Steam					3				
Biogas	-	221,776	-						
Nuclear									
Total	$18,337,524	$14,923,522	$24,724,237	$817,949	$63,949	$6,134	$26,952	$314,330	$4,099,824
Average Cost of Fuel Burned (¢/MBTU)									
Coal					-				
Oil - CC									
Oil - Steam/CT					1,400.40	-	1,105.56	1,784.91	-
Gas - CC	632.40	632.14	634.66						
Gas - CHP				715.93					
Gas - CT					-	1,792.50	(1,005.99)	653.43	636.17
Gas - Steam					-				
Biogas	-	2,601.47	-						
Nuclear									
Weighted Average	632.40	639.34	634.66	715.93	1,793.79	1,792.50	101.18	682.75	636.17
Average Cost of Generation (¢/kWh)									
Coal		-	-		-	-	-		
Oil - CC	-	-	-						
Oil - Steam/CT		-	-		-	-	15.06	1.68	-
Gas - CC	4.44	4.43	4.47						
Gas - CHP				8.53					
Gas - CT					-	-	-	15.22	6.76
Gas - Steam					-	-	-	-	-
Biogas	-	18.25	-						
Nuclear									
Weighted Average	4.44	4.48	4.47	8.53	-	-	5.90	9.84	6.76
Burned MBTU's									
Coal					-				
Oil - CC									
Oil - Steam/CT					3,565	-	13,967	1,193	-
Gas - CC	2,899,674	2,325,698	3,895,675						
Gas - CHP				114,250					
Gas - CT					-	342	12,670	44,846	644,452
Gas - Steam					-				
Biogas	-	8,525	-						
Nuclear									
Total	2,899,674	2,334,223	3,895,675	114,250	3,565	342	26,637	46,039	644,452
Net Generation (mWh)									
Coal									
Oil - CC									
Oil - Steam/CT		-	-		(34)	-	1,025	1,269	-
Gas - CC	413,337	332,121	553,237		-				
Gas - CHP				9,589					
Gas - CT					(0)	(855)	(568)	1,925	60,653
Gas - Steam					(388)				
Biogas	-	1,215	-						
Nuclear 100%									
Hydro (Total System)									
Solar (Total System)									
Total	413,337	333,336	553,237	9,589	(422)	(855)	457	3,194	60,653
Cost of Reagents Consumed ($)									
Ammonia	$45,251	$0	$27,467						
Limestone									
Sorbents									
Urea									
Re-emission Chemical									
Dibasic Acid									
Activated Carbon									
Lime (water emissions)									
Total	$45,251	$0	$27,467						

Notes:
(A) Lincoln (Unit 17) fuel and fuel related costs represents pre-commercial generation during an extended testing and validation period.
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.

Sykes Exhibit 6
Schedule 5
Page 2 of 2

DUKE ENERGY CAROLINAS
FUEL AND FUEL RELATED COST REPORT
DECEMBER 2021

Description	Allen	Marshall	Belews Creek	Cliffside	Catawba	McGuire	Oconee	Current Month	Total 12 ME December 2021
	Steam	Steam - Dual Fuel	Steam - Dual Fuel	Steam - Dual Fuel	Nuclear	Nuclear	Nuclear		
Cost of Fuel Purchased ($)									
Coal	$9,147	$13,307,577	$3,448,822	$4,617,247				21,382,792	$427,384,699
Oil	17,051	-	-	104,088				1,145,737	8,620,241
Gas - CC								57,763,507	416,957,828
Gas - CHP								817,949	1,710,128
Gas - CT								4,285,554	48,026,140
Gas - Steam		19,910,055	20,938,211	20,962,280				61,810,549	331,328,622
Biogas								221,776	3,513,761
Total	$26,198	$33,217,632	$24,387,033	$25,683,615				$147,427,864	$1,237,541,419
Average Cost of Fuel Purchased (¢/MBTU)									
Coal	-	341.95	388.15	353.46				351.32	311.27
Oil	1,657.42	-	-	1,659.76				1,666.35	1,557.24
Gas - CC								633.30	406.84
Gas - CHP								715.93	718.56
Gas - CT								639.90	378.17
Gas - Steam		632.16	632.96	644.19				636.47	447.74
Biogas				.				2,601.47	2,304.35
Weighted Average	2,546.48	471.76	581.13	562.42				571.14	377.95
Cost of Fuel Burned ($)									
Coal	$65,756	$5,862,319	$2,100,615	$1,800,631				$9,829,322	$428,535,150
Oil - CC								-	-
Oil - Steam/CT	29,766	10,457	-	56,288				322,142	8,828,699
Gas - CC								57,763,507	416,957,828
Gas - CHP								817,949	1,710,128
Gas - CT								4,285,554	48,026,140
Gas - Steam		19,910,055	20,938,211	20,962,280				61,810,549	331,328,622
Biogas								221,776	3,513,761
Nuclear					$10,271,789	$9,549,235	$10,065,209	29,886,234	346,155,577
Total	$95,522	$25,782,831	$23,038,826	$22,819,199	$10,271,789	$9,549,235	$10,065,209	$164,937,032	$1,585,055,905
Average Cost of Fuel Burned (¢/MBTU)									
Coal	308.89	306.80	326.30	296.55				308.80	323.27
Oil - CC								-	-
Oil - Steam/CT	1,714.61	1,448.33	-	1,600.91				1,304.27	1,513.70
Gas - CC								633.30	406.84
Gas - CHP								715.93	718.56
Gas - CT								639.90	378.17
Gas - Steam		632.16	632.96	644.19				636.47	447.74
Biogas								2,601.47	2,304.35
Nuclear					58.89	54.27	58.00	57.04	56.91
Weighted Average	414.88	509.44	583.01	590.45	58.89	54.27	58.00	219.17	170.26
Average Cost of Generation (¢/kWh)									
Coal	-	3.39	3.67	3.13				3.44	3.16
Oil - CC								-	-
Oil - Steam/CT	47.38	22.07	-	16.10				11.84	16.35
Gas - CC								4.45	2.87
Gas - CHP								8.53	10.87
Gas - CT								7.01	4.24
Gas - Steam		5.99	6.50	6.56				6.35	4.58
Biogas								18.25	16.34
Nuclear					0.59	0.54	0.59	0.57	0.57
Weighted Average	-	5.10	6.07	6.04	0.59	0.54	0.59	2.09	1.61
Burned MBTU's									
Coal	21,288	1,910,774	643,767	607,196				3,183,025	132,563,622
Oil - CC								-	-
Oil - Steam/CT	1,736	722	-	3,516				24,699	583,254
Gas - CC								9,121,047	102,486,732
Gas - CHP								114,250	237,993
Gas - CT								702,310	12,699,459
Gas - Steam		3,149,517	3,307,964	3,254,033				9,711,513	74,000,255
Biogas								8,525	152,484
Nuclear					17,441,318	17,596,089	17,353,876	52,391,283	608,224,167
Total	23,024	5,061,013	3,951,731	3,864,745	17,441,318	17,596,089	17,353,876	75,256,653	930,947,966
Net Generation (mWh)									
Coal	(1,949)	172,888	57,288	57,562				285,789	13,569,695
Oil - CC								-	-
Oil - Steam/CT	63	47	-	350				2,720	53,988
Gas - CC								1,298,695	14,542,974
Gas - CHP								9,589	15,739
Gas - CT								61,155	1,131,529
Gas - Steam		332,208	322,315	319,641				973,777	7,231,653
Biogas								1,215	21,502
Nuclear 100%					1,750,213	1,777,245	1,717,933	5,245,391	60,454,296
Hydro (Total System)								(11,675)	1,340,157
Solar (Total System)								15,972	293,289
Total	(1,886)	505,143	379,603	377,553	1,750,213	1,777,245	1,717,933	7,882,628	98,654,822
Cost of Reagents Consumed ($)									
Ammonia			$201,650	$36,996				$311,364	$3,138,382
Limestone	$0	$247,876	50,319	154,001				$452,195	12,981,466
Sorbents	-	31,875	-					$31,875	1,514,963
Urea	-	51,650						$51,650	389,401
Re-emission Chemical	-	-	-	-				$0	316,690
Dibasic Acid	-							$0	-
Activated Carbon	-	-						$0	358,930
Lime (water emissions)	-	-	8,010					$8,010	39,411
Total	-	331,401	$259,978	$190,997				$855,094	$18,739,243

Notes:
(A) Lincoln (Unit 17) fuel and fuel related costs represents pre-commercial generation during an extended testing and validation period.
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.

Sykes Exhibit 6
Schedule 6

DUKE ENERGY CAROLINAS
FUEL AND FUEL RELATED CONSUMPTION AND INVENTORY REPORT
DECEMBER 2021

Description	Buck CC	Dan River CC	Lee CC	Clemson CHP	Lee Steam/CT	Lincoln CT	Lincoln (Unit17) (A) CT	Mill Creek CT	Rockingham CT	Allen Steam	Marshall Steam - Dual Fuel	Belews Creek Steam - Dual Fuel	Cliffside Steam - Dual Fuel	Current Month	Total 12 ME December 2021
Coal Data:															
Beginning balance					-					110,834	714,068	709,231	600,419	2,134,553	2,088,546.52
Tons received during period										-	154,113	36,234	50,335	240,682	5,535,629.00
Inventory adjustments					-					-	0	(0)	0	0	(59,105.14)
Tons burned during period					-					885	74,950	25,810	23,739	125,384	5,315,219.09
Ending balance					-					109,949	793,231	719,654	627,016	2,249,850	2,249,850.29
MBTUs per ton burned					-					144.00	25.49	24.94	25.58	26.23	24.94
Cost of ending inventory ($/ton)					-					74.30	78.22	81.39	75.85	78.38	78.38
Oil Data:															
Beginning balance	-	-	-		644,737	8,458,109	1,345,366	3,435,783	2,760,864	74,474	297,507	95,645	190,014	17,302,499	18,142,757
Gallons received during period	-	-	-		-	-	-	295,436	149,907	7,455	-	-	45,444	498,242	4,011,299
Miscellaneous adjustments	-	-	-		-	-	(24,834)	-	-	-	-	(5,273)	(4,237)	(34,099)	(274,028)
Gallons burned during period		-	-		25,990	-	77,576	8,668	-	12,671	5,273	-	25,712	156,135	4,269,522
Ending balance	-	-	-		618,747	8,458,109	1,242,955	3,722,551	2,910,771	69,258	292,234	90,372	205,509	17,610,506	17,610,506
Cost of ending inventory ($/gal)	-	-	-		1.92	2.10	1.99	2.46	2.12	2.35	1.98	2.25	2.19	2.16	2.16
Natural Gas Data:															
Beginning balance															
MCF received during period	2,807,749	2,247,267	3,791,315	111,221	-	332	(158)	43,738	622,006		3,060,068	3,194,905	3,155,140	19,033,584	183,335,760
MCF burned during period	2,807,749	2,247,267	3,791,315	111,221	-	332	(158)	43,738	622,006		3,060,068	3,194,905	3,155,140	19,033,584	183,335,760
Ending balance															
Biogas Data:															
Beginning balance															
MCF received during period	-	8,237	-											8,237	147,532
MCF burned during period	-	8,237	-											8,237	147,532
Ending balance															
Limestone Data:															
Beginning balance										24,210	45,035	45,723	29,962	144,930	154,428
Tons received during period										-	12,544	1,676	8,277	22,498	281,447
Inventory adjustments										-	-	-	-	-	(1,837)
Tons consumed during period										-	5,699	1,074	1,915	8,688	275,299
Ending balance										24,210	51,880	46,325	36,324	158,739	158,739
Cost of ending inventory ($/ton)										49.08	43.49	46.83	42.16	45.02	45.02

		Qtr Ending December 2021	Total 12 ME December 2021
Ammonia Data: (B)			
Beginning balance	2,650	2,650	1,822
Tons received during period	996	996	5,129
Tons consumed during period	885	885	4,190
Ending balance	2,761	2,761	2,761
Cost of ending inventory ($/ton)	843.38	843.38	843.38

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.
(A) Lincoln (Unit 17) fuel and fuel related costs represents pre-commercial generation during an extended testing and validation period.
(B) Quarterly ammonia inventory amounts are revised to reflect a correction to June quantities, affecting the quarter ending September 2021 beginning balance. Revised amounts for quarter ending June 2021 are revised above.

Sykes Exhibit 6
Schedule 7

DUKE ENERGY CAROLINAS
ANALYSIS OF COAL PURCHASED
DECEMBER 2021

STATION	TYPE	QUANTITY OF TONS DELIVERED	DELIVERED COST	DELIVERED COST PER TON
ALLEN	SPOT	-	$ -	$ -
	CONTRACT	-	-	-
	FIXED TRANSPORTATION / ADJUSTMENTS	-	9,147	-
	TOTAL	-	9,147	-
BELEWS CREEK	SPOT	-	111,089	-
	CONTRACT	36,234	2,920,743	80.61
	FIXED TRANSPORTATION / ADJUSTMENTS	-	416,990	-
	TOTAL	36,234	3,448,822	95.18
CLIFFSIDE	SPOT	13,034	1,151,180	88.32
	CONTRACT	37,301	3,111,563	83.42
	FIXED TRANSPORTATION / ADJUSTMENTS	-	354,504	-
	TOTAL	50,335	4,617,247	91.73
MARSHALL	SPOT	76,949	6,966,864	90.54
	CONTRACT	77,165	5,901,064	76.47
	FIXED TRANSPORTATION / ADJUSTMENTS	-	439,649	-
	TOTAL	154,114	13,307,577	86.35
ALL PLANTS	SPOT	89,983	8,229,133	91.45
	CONTRACT	150,700	11,933,370	79.19
	FIXED TRANSPORTATION / ADJUSTMENTS	-	1,220,290	-
	TOTAL	240,683	21,382,793	$ 88.84

Sykes Exhibit 6
Schedule 8

DUKE ENERGY CAROLINAS
ANALYSIS OF COAL QUALITY RECEIVED
DECEMBER 2021

STATION	PERCENT MOISTURE	PERCENT ASH	HEAT VALUE	PERCENT SULFUR
ALLEN	-	-	-	-
BELEWS CREEK	7.48	10.95	12,261	1.47
CLIFFSIDE	6.18	8.77	12,976	2.99
LEE	-	-	-	-
MARSHALL	6.73	9.31	12,626	1.95

Sykes Exhibit 6
Schedule 9

DUKE ENERGY CAROLINAS
ANALYSIS OF OIL PURCHASED
DECEMBER 2021

	ALLEN	BELEWS CREEK
VENDOR	HighTowers	HighTowers
SPOT/CONTRACT	Contract	Contract
SULFUR CONTENT %	-	-
GALLONS RECEIVED	7,455	-
TOTAL DELIVERED COST	$ 17,051	$ -
DELIVERED COST/GALLON	$ 2.29	$ -
BTU/GALLON	138,000	138,000

	CLIFFSIDE	MARSHALL
VENDOR	HighTowers	HighTowers
SPOT/CONTRACT	Contract	Contract
SULFUR CONTENT %	-	-
GALLONS RECEIVED	45,444	-
TOTAL DELIVERED COST	$ 104,088	$ -
DELIVERED COST/GALLON	$ 2.29	$ -
BTU/GALLON	138,000	138,000

	LEE	MILL CREEK	ROCKINGHAM
VENDOR	HighTowers	HighTowers	HighTowers
SPOT/CONTRACT	Contract	Contract	Contract
SULFUR CONTENT %	-	-	-
GALLONS RECEIVED	-	295,436	149,907
TOTAL DELIVERED COST	$ -	$ 682,026	$ 342,571
DELIVERED COST/GALLON	$ -	$ 2.31	$ 2.29
BTU/GALLON	138,000	138,000	138,000

I/A

Sykes Exhibit 6
Schedule 10

Duke Energy Carolinas Base Load Power Plant Performance Review Plan
Report Period: December 2021 - December 2021

Station	Unit	Date of Outage	Duration of Outage (Hours)	Scheduled / Unscheduled	Cause of Outage	Reason Outage Occurred	Remedial Actions Taken
Oconee	1						
	2	11/12/2021 - 12/07/2021	160.10	Scheduled	Refueling outage O2R30	Normal refueling outage	N/A - Normal refueling outage
	2	12/10/2021 - 12/12/2021	60.35	Unscheduled	Forced outage O2F30A due to spurious reactor protection system (RPS) relay actuation	Spurious reactor protection system (RPS) relay actuation	A failure investigation was started and the 2NI-5 linear amplifier was repaired
	3						
McGuire	1						
	2						
Catawba	1						
	2						

I/A

Sykes Exhibit 6
Schedule 10

Duke Energy Carolinas
Baseload Steam and CHP Units
Performance Review Plan
December 2021

Belews Creek Station

Unit	Duration of Outage	Type of Outage	Cause of Outage		Reason Outage Occurred	Remedial Action Taken
1	12/1/2021 11:30:00 AM To 12/3/2021 5:00:00 PM	Sch	4899	Other miscellaneous generator problems	Generator PT appears to have a loose connection causing issues with closing	

Buck Combined Cycle Station

Unit	Duration of Outage	Type of Outage	Cause of Outage		Reason Outage Occurred	Remedial Action Taken
11	12/19/2021 10:42:00 AM To 12/19/2021 10:46:00 AM	Unsch	6171	IP Startup bypass system valves	12 HRH BYPASS STICKING. WOULD NOT OPERATE BEYOND 35%. CAUSING UPSETS TO OPPOSING UNIT.	
12	12/18/2021 2:00:00 PM To 12/18/2021 8:06:00 PM	Sch	0680	Feedwater valves (not feedwater regulating valve)	12 ECONOMIZER VENT VALVE REPLACEMENT. VALVE PACKING BLOWN OUT AND VALVE WAS STUCK AND WOULD NOT OPERATE.	
ST10	12/19/2021 9:04:00 AM To 12/19/2021 9:47:00 AM	Unsch	6171	IP Startup bypass system valves	12 HRH BYPASS STICKING. WOULD NOT OPERATE BEYOND 35%. CAUSING UPSET TO UNIT.	
ST10	12/19/2021 10:22:00 AM To 12/19/2021 11:04:00 AM	Unsch	6171	IP Startup bypass system valves	12 HRH BYPASS STICKING. WOULD NOT OPERATE BEYOND 35%. CAUSING UPSET TO UNIT	

Clemson CHP

Unit	Duration of Outage	Type of Outage	Cause of Outage		Reason Outage Occurred	Remedial Action Taken
1	11/24/2021 9:30:00 AM To 12/1/2021 9:00:00 AM	Sch	4551	Generator bearings	Planned outage to address generator bearing leaks. New seals installed.	
1	12/8/2021 10:13:00 AM To 12/8/2021 5:28:00 PM	Sch	4552	Generator lube oil system	Short outage for generator oil leakage inspection.	

Dan River Combined Cycle Station

Unit	Duration of Outage	Type of Outage	Cause of Outage		Reason Outage Occurred	Remedial Action Taken
8	12/8/2021 9:59:00 PM To 12/12/2021 1:27:00 PM	Sch	5261	Gas turbine/compressor washing	1x1 Planned Outage for Water Wash of GT8 and minor maintenance	

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- Data is reflected at 100% owne

I/A

Sykes Exhibit 6
Schedule 10

Duke Energy Carolinas
Baseload Steam and CHP Units
Performance Review Plan
December 2021

9	12/4/2021 12:56:00 AM To 12/8/2021 6:52:00 PM	Sch	5261	Gas turbine/compressor washing	GT9 is in Planned Outage for 1X1 outage for Water Wash and Minor Maintenance	

Marshall Station

Unit	Duration of Outage	Type of Outage	Cause of Outage		Reason Outage Occurred	Remedial Action Taken
3	12/10/2021 2:29:00 AM To 12/16/2021 2:30:00 PM	Sch	0541	Cold reheat steam piping up to boiler	Reheat Piping Leak Repairs	
3	12/19/2021 12:44:00 PM To 12/19/2021 2:51:00 PM	Unsch	0530	Other main steam system problems	Superheat steam temp issues	
3	12/19/2021 2:51:00 PM To 12/20/2021 3:00:00 PM	Unsch	4240	Bearings	Unit 3 bearing vibration on attempted start.	
3	12/20/2021 3:00:00 PM To 12/30/2021 7:00:00 PM	Unsch	4240	Bearings	Unit 3 bearing vibration on attempted start. Unit will go into outage to repair the issue.	

WS Lee Combined Cycle

No Outages at Baseload Units During the Month.

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- Data is reflected at 100% ownership.

I/A

Sykes Exhibit 6
Schedule 10

Duke Energy Carolinas Base Load Power Plant Performance Review Plan
Report Period: December 2021 - December 2021

	Oconee 1	Oconee 2	Oconee 3	McGuire 1	McGuire 2	Catawba 1	Catawba 2
(A) MDC (MW)	847	848	859	1158	1158	1160	1150
(B) Period Hours	744	744	744	744	744	744	744
(C1) Net Gen (MWH)	643,930	419,589	654,414	888,551	888,694	880,196	870,017
(C2) Capacity Factor (%)	102.18	66.51	102.40	103.13	103.15	101.99	101.69
(D1) Net MWH Not Gen. Due to Full Schedule Outages	0	135,765	0	0	0	0	0
(D2) % Net MWH Not Gen. Due to Full Schedule Outages	0.00	21.52	0.00	0.00	0.00	0.00	0.00
(E1) Net MWH Not Gen. Due to Partial Scheduled Outages	0	18,509	0	0	0	0	0
(E2) % Net MWH Not Gen. Due to Partial Scheduled Outages	0.00	2.93	0.00	0.00	0.00	0.00	0.00
(F1) Net MWH Not Gen Due to Full Forced Outages	0	51,177	0	0	0	0	0
(F2) % Net MWH Not Gen Due to Full Forced Outages	0.00	8.11	0.00	0.00	0.00	0.00	0.00
(G1) Net MWH Not Gen due to Partial Forced Outages	-13,762	5,872	-15,318	-26,999	-27,142	-17,156	-14,417
(G2) % Net MWH Not Gen Due to Partial Forced Outages	-2.18	0.93	-2.40	-3.13	-3.15	-1.99	-1.69
(H1) Net MWH Not Gen Due to Economic Dispatch	0	0	0	0	0	0	0
(H2) %Net MWH Not Gen Due to Economic Dispatch	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(I1) Core Conservation	0	0	0	0	0	0	0
(I2) % Core Conservation	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(J1) Net MWH Possible in Period	630,168	630,912	639,096	861,552	861,552	863,040	855,600
(J2) % Net mwh Possible in Period	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
(K) Equivalent Availability (%)	100.00	65.78	100.00	100.00	100.00	100.00	100.00
(L) Output Factor (%)	102.18	94.51	102.40	103.13	103.15	101.99	101.69
(M) Heat Rate (BTU/Net KWH)	10,130	10,277	9,961	9,901	9,901	9,991	9,939

Notes:
1) Fields (E1), (E2), (G1), (G2), (H1), (H2), (I1) and (I2) are estimates
2) Fields (D1), (D2), (F1) and (F2) include ramping losses
EAF is calculated using Standard NERC calculation and excludes OMC events

I/A

Sykes Exhibit 6
Schedule 10

Duke Energy Carolinas
Baseload Steam and CHP Units
Performance Review Plan
December 2021

Belews Creek Station

	Unit 1	Unit 2
(A) MDC (mW)	1,110	1,110
(B) Period Hrs	744	744
(C) Net Generation (mWh)	-1,362	380,965
(D) Capacity Factor (%)	0.00	46.13
(E) Net mWh Not Generated due to Full Scheduled Outages	59,385	0
(F) Scheduled Outages: percent of Period Hrs	7.19	0.00
(G) Net mWh Not Generated due to Partial Scheduled Outages	0	33,600
(H) Scheduled Derates: percent of Period Hrs	0.00	4.07
(I) Net mWh Not Generated due to Full Forced Outages	0	0
(J) Forced Outages: percent of Period Hrs	0.00	0.00
(K) Net mWh Not Generated due to Partial Forced Outages	0	770
(L) Forced Derates: percent of Period Hrs	0.00	0.09
(M) Net mWh Not Generated due to Economic Dispatch	766,455	410,505
(N) Economic Dispatch: percent of Period Hrs	92.81	49.71
(O) Net mWh Possible in Period	825,840	825,840
(P) Equivalent Availability (%)	92.81	95.84
(Q) Output Factor (%)	0.00	46.13
(R) Heat Rate (BTU/NkWh)	0	10,986

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- (R) Includes Light Off BTU's
- Data is reflected at 100% ownership.

I/A

Sykes Exhibit 6
Schedule 10

Duke Energy Carolinas
Baseload Steam and CHP Units
Performance Review Plan
December 2021

Buck Combined Cycle Station

	Unit 11	Unit 12	Unit ST10	Block Total
(A) MDC (mW)	206	206	306	718
(B) Period Hrs	744	744	744	744
(C) Net Generation (mWh)	127,292	114,031	172,014	413,337
(D) Capacity Factor (%)	83.05	74.40	75.56	77.38
(E) Net mWh Not Generated due to Full Scheduled Outages	0	1,257	0	1,257
(F) Scheduled Outages: percent of Period Hrs	0.00	0.82	0.00	0.24
(G) Net mWh Not Generated due to Partial Scheduled Outages	231	231	525	987
(H) Scheduled Derates: percent of Period Hrs	0.15	0.15	0.23	0.18
(I) Net mWh Not Generated due to Full Forced Outages	14	0	434	447
(J) Forced Outages: percent of Period Hrs	0.01	0.00	0.19	0.08
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	383	383
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.17	0.07
(M) Net mWh Not Generated due to Economic Dispatch	25,727	37,745	54,308	117,781
(N) Economic Dispatch: percent of Period Hrs	16.79	24.63	23.85	22.05
(O) Net mWh Possible in Period	153,264	153,264	227,664	534,192
(P) Equivalent Availability (%)	99.84	99.03	99.41	99.42
(Q) Output Factor (%)	83.06	83.25	75.70	79.88
(R) Heat Rate (BTU/NkWh)	10,525	10,190	2,366	7,037

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- (R) Includes Light Off BTU's
- Data is reflected at 100% ownership.

I/A

Sykes Exhibit 6
Schedule 10

Duke Energy Carolinas
Baseload Steam and CHP Units
Performance Review Plan
December 2021

Clemson CHP

	Clemson CHP1
(A) MDC (mW)	16
(B) Period Hrs	744
(C) Net Generation (mWh)	9,589
(D) Capacity Factor (%)	83.15
(E) Net mWh Not Generated due to Full Scheduled Outages	252
(F) Scheduled Outages: percent of Period Hrs	2.18
(G) Net mWh Not Generated due to Partial Scheduled Outages	0
(H) Scheduled Derates: percent of Period Hrs	0.00
(I) Net mWh Not Generated due to Full Forced Outages	0
(J) Forced Outages: percent of Period Hrs	0.00
(K) Net mWh Not Generated due to Partial Forced Outages	0
(L) Forced Derates: percent of Period Hrs	0.00
(M) Net mWh Not Generated due to Economic Dispatch	1,691
(N) Economic Dispatch: percent of Period Hrs	14.66
(O) Net mWh Possible in Period	11,532
(P) Equivalent Availability (%)	97.82
(Q) Output Factor (%)	86.79
(R) Heat Rate (BTU/NkWh)	11,176

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- (R) Includes Light Off BTU's
- Data is reflected at 100% ownership.

I/A

Sykes Exhibit 6
Schedule 10

Duke Energy Carolinas
Baseload Steam and CHP Units
Performance Review Plan
December 2021

Dan River Combined Cycle Station

	Unit 8	Unit 9	Unit ST07	Block Total
(A) MDC (mW)	206	206	308	720
(B) Period Hrs	744	744	744	744
(C) Net Generation (mWh)	84,374	107,001	141,961	333,336
(D) Capacity Factor (%)	55.05	69.81	61.95	62.23
(E) Net mWh Not Generated due to Full Scheduled Outages	18,018	23,470	0	41,488
(F) Scheduled Outages: percent of Period Hrs	11.76	15.31	0.00	7.74
(G) Net mWh Not Generated due to Partial Scheduled Outages	0	0	0	0
(H) Scheduled Derates: percent of Period Hrs	0.00	0.00	0.00	0.00
(I) Net mWh Not Generated due to Full Forced Outages	0	0	0	0
(J) Forced Outages: percent of Period Hrs	0.00	0.00	0.00	0.00
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	127	127
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.06	0.02
(M) Net mWh Not Generated due to Economic Dispatch	50,872	22,793	87,064	160,729
(N) Economic Dispatch: percent of Period Hrs	33.19	14.87	37.99	30.00
(O) Net mWh Possible in Period	153,264	153,264	229,152	535,680
(P) Equivalent Availability (%)	88.24	84.69	99.94	92.23
(Q) Output Factor (%)	82.25	82.44	61.95	72.22
(R) Heat Rate (BTU/NkWh)	11,217	10,612	2,470	7,297

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- (R) Includes Light Off BTU's
- Data is reflected at 100% ownership.

I/A

Sykes Exhibit 6
Schedule 10

Duke Energy Carolinas
Baseload Steam and CHP Units
Performance Review Plan
December 2021

Marshall Station

	Unit 3	Unit 4
(A) MDC (mW)	658	660
(B) Period Hrs	744	744
(C) Net Generation (mWh)	77,447	297,472
(D) Capacity Factor (%)	15.82	60.58
(E) Net mWh Not Generated due to Full Scheduled Outages	102,659	0
(F) Scheduled Outages: percent of Period Hrs	20.97	0.00
(G) Net mWh Not Generated due to Partial Scheduled Outages	0	0
(H) Scheduled Derates: percent of Period Hrs	0.00	0.00
(I) Net mWh Not Generated due to Full Forced Outages	177,836	0
(J) Forced Outages: percent of Period Hrs	36.33	0.00
(K) Net mWh Not Generated due to Partial Forced Outages	0	0
(L) Forced Derates: percent of Period Hrs	0.00	0.00
(M) Net mWh Not Generated due to Economic Dispatch	131,610	193,568
(N) Economic Dispatch: percent of Period Hrs	26.88	39.42
(O) Net mWh Possible in Period	489,552	491,040
(P) Equivalent Availability (%)	42.70	100.00
(Q) Output Factor (%)	53.10	60.58
(R) Heat Rate (BTU/NkWh)	10,746	9,696

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- (R) Includes Light Off BTU's
- Data is reflected at 100% ownership.

I/A

Duke Energy Carolinas
Baseload Steam and CHP Units
Performance Review Plan
December 2021

Sykes Exhibit 6
Schedule 10

WS Lee Combined Cycle

	Unit 11	Unit 12	Unit ST10	Block Total
(A) MDC (mW)	248	248	313	809
(B) Period Hrs	744	744	744	744
(C) Net Generation (mWh)	158,470	164,031	230,736	553,237
(D) Capacity Factor (%)	85.89	88.90	99.08	91.92
(E) Net mWh Not Generated due to Full Scheduled Outages	0	0	0	0
(F) Scheduled Outages: percent of Period Hrs	0.00	0.00	0.00	0.00
(G) Net mWh Not Generated due to Partial Scheduled Outages	0	0	0	0
(H) Scheduled Derates: percent of Period Hrs	0.00	0.00	0.00	0.00
(I) Net mWh Not Generated due to Full Forced Outages	0	0	0	0
(J) Forced Outages: percent of Period Hrs	0.00	0.00	0.00	0.00
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	0	0
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.00	0.00
(M) Net mWh Not Generated due to Economic Dispatch	26,042	20,481	2,136	48,659
(N) Economic Dispatch: percent of Period Hrs	14.11	11.10	0.92	8.08
(O) Net mWh Possible in Period	184,512	184,512	232,872	601,896
(P) Equivalent Availability (%)	100.00	100.00	100.00	100.00
(Q) Output Factor (%)	85.89	91.67	99.08	92.78
(R) Heat Rate (BTU/NkWh)	10,989	10,610	2,508	7,340

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- (R) Includes Light Off BTU's
- Data is reflected at 100% ownership.

I/A

Duke Energy Carolinas
Intermediate Power Plant Performance Review Plan
December 2021

Sykes Exhibit 6
Schedule 10

		Cliffside Station Cliffside 6
(A)	**MDC (mW)**	849
(B)	**Period Hrs**	744
(C)	**Net Generation (mWh)**	380,358
(D)	**Net mWh Possible in Period**	631,656
(E)	**Equivalent Availability (%)**	96.32
(F)	**Output Factor (%)**	60.22
(G)	**Capacity Factor (%)**	60.22

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

I/A

Duke Energy Carolinas
Peaking Power Plant Performance Review Plan
December 2021

Sykes Exhibit 6
Schedule 10

	Cliffside Station Unit 5
(A) MDC (mW)	546
(B) Period Hrs	744
(C) Net Generation (mWh)	-2,805
(D) Net mWh Possible in Period	406,224
(E) Equivalent Availability (%)	0.00
(F) Output Factor (%)	0.00
(G) Capacity Factor (%)	0.00

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

I/A

Sykes Exhibit 6
Schedule 10

Duke Energy Carolinas Base Load Power Plant Performance Review Plan
Report Period: January 2021 - December 2021

	Oconee 1	Oconee 2	Oconee 3	McGuire 1	McGuire 2	Catawba 1	Catawba 2
(A) MDC (MW)	847	848	859	1158	1158	1160	1150
(B) Period Hours	8,760	8,760	8,760	8,760	8,760	8,760	8,760
(C1) Net Gen (MWH)	7,579,868	6,981,796	7,644,799	10,361,236	9,300,878	9,571,297	9,014,422
(C2) Capacity Factor (%)	102.16	93.99	101.59	102.14	91.69	94.19	89.48
(D1) Net MWH Not Gen. Due to Full Schedule Outages	0	503,797	0	0	840,901	523,488	883,200
(D2) % Net MWH Not Gen. Due to Full Schedule Outages	0.00	6.78	0.00	0.00	8.29	5.15	8.77
(E1) Net MWH Not Gen. Due to Partial Scheduled Outages	141	39,112	252	403	26,161	47,272	90,598
(E2) % Net MWH Not Gen. Due to Partial Scheduled Outages	0.00	0.53	0.00	0.00	0.26	0.47	0.90
(F1) Net MWH Not Gen Due to Full Forced Outages	0	51,177	0	0	81,871	78,396	147,045
(F2) % Net MWH Not Gen Due to Full Forced Outages	0.00	0.69	0.00	0.00	0.81	0.77	1.46
(G1) Net MWH Not Gen due to Partial Forced Outages	-160,289	-147,402	-120,211	-217,559	-105,731	-58,853	-61,265
(G2) % Net MWH Not Gen Due to Partial Forced Outages	-2.16	-1.99	-1.59	-2.14	-1.05	-0.58	-0.61
(H1) Net MWH Not Gen Due to Economic Dispatch	0	0	0	0	0	0	0
(H2) %Net MWH Not Gen Due to Economic Dispatch	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(I1) Core Conservation	0	0	0	0	0	0	0
(I2) % Core Conservation	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(J1) Net MWH Possible in Period	7,419,720	7,428,480	7,524,840	10,144,080	10,144,080	10,161,600	10,074,000
(J2) % Net mwh Possible in Period	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
(K) Equivalent Availability (%)	100.00	90.67	100.00	100.00	90.25	93.06	88.87
(L) Output Factor (%)	102.16	101.58	101.59	102.14	100.86	100.12	99.68
(M) Heat Rate (BTU/Net KWH)	10,129	10,085	10,042	9,996	10,073	10,090	10,026

Notes:
1) Fields (E1), (E2), (G1), (G2), (H1), (H2), (I1) and (I2) are estimates
2) Fields (D1), (D2), (F1) and (F2) include ramping losses
EAF is calculated using Standard NERC calculation and excludes OMC events

I/A

Sykes Exhibit 6
Schedule 10

Duke Energy Carolinas
Baseload Steam and CHP Units
Performance Review Plan
January, 2021 through December, 2021

Belews Creek Station

	Unit 1	Unit 2
(A) MDC (mW)	1,110	1,110
(B) Period Hrs	8,760	8,760
(C) Net Generation (mWh)	4,275,170	4,734,846
(D) Capacity Factor (%)	43.97	48.69
(E) Net mWh Not Generated due to Full Scheduled Outages	1,696,635	1,108,465
(F) Scheduled Outages: percent of Period Hrs	17.45	11.40
(G) Net mWh Not Generated due to Partial Scheduled Outages	13,357	54,149
(H) Scheduled Derates: percent of Period Hrs	0.14	0.56
(I) Net mWh Not Generated due to Full Forced Outages	157,731	277,075
(J) Forced Outages: percent of Period Hrs	1.62	2.85
(K) Net mWh Not Generated due to Partial Forced Outages	188,070	72,653
(L) Forced Derates: percent of Period Hrs	1.93	0.75
(M) Net mWh Not Generated due to Economic Dispatch	3,392,638	3,476,412
(N) Economic Dispatch: percent of Period Hrs	34.81	35.75
(O) Net mWh Possible in Period	9,723,600	9,723,600
(P) Equivalent Availability (%)	78.86	84.45
(Q) Output Factor (%)	66.62	59.52
(R) Heat Rate (BTU/NkWh)	9,382	9,959

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- Data is reflected at 100% ownership.
- Footnote: (R) Includes Light Off BTU's

I/A

Sykes Exhibit 6
Schedule 10

Duke Energy Carolinas
Baseload Steam and CHP Units
Performance Review Plan
January, 2021 through December, 2021

Buck Combined Cycle Station

	Unit 11	Unit 12	Unit ST10	Block Total
(A) MDC (mW)	206	206	306	718
(B) Period Hrs	8,760	8,760	8,760	8,760
(C) Net Generation (mWh)	1,350,380	1,370,919	1,814,076	4,535,375
(D) Capacity Factor (%)	74.83	75.97	67.68	72.11
(E) Net mWh Not Generated due to Full Scheduled Outages	106,389	81,507	123,379	311,276
(F) Scheduled Outages: percent of Period Hrs	5.90	4.52	4.60	4.95
(G) Net mWh Not Generated due to Partial Scheduled Outages	114,711	117,301	11,070	243,082
(H) Scheduled Derates: percent of Period Hrs	6.36	6.50	0.41	3.86
(I) Net mWh Not Generated due to Full Forced Outages	14	1,507	434	1,955
(J) Forced Outages: percent of Period Hrs	0.00	0.08	0.02	0.03
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	3,024	3,024
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.11	0.05
(M) Net mWh Not Generated due to Economic Dispatch	233,066	233,325	728,577	1,194,969
(N) Economic Dispatch: percent of Period Hrs	12.92	12.93	27.18	19.00
(O) Net mWh Possible in Period	1,804,560	1,804,560	2,680,560	6,289,680
(P) Equivalent Availability (%)	87.75	88.90	94.86	91.11
(Q) Output Factor (%)	82.76	82.91	72.45	78.35
(R) Heat Rate (BTU/NkWh)	9,691	10,236	1,616	6,626

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- Data is reflected at 100% ownership.
- Footnote: (R) Includes Light Off BTU's

I/A

Sykes Exhibit 6
Schedule 10

Duke Energy Carolinas
Baseload Steam and CHP Units
Performance Review Plan
January, 2021 through December, 2021

Clemson CHP

	Clemson CHP1
(A) MDC (mW)	16
(B) Period Hrs	8,760
(C) Net Generation (mWh)	15,739
(D) Capacity Factor (%)	11.59
(E) Net mWh Not Generated due to Full Scheduled Outages	24,977
(F) Scheduled Outages: percent of Period Hrs	18.40
(G) Net mWh Not Generated due to Partial Scheduled Outages	11,069
(H) Scheduled Derates: percent of Period Hrs	8.15
(I) Net mWh Not Generated due to Full Forced Outages	10,258
(J) Forced Outages: percent of Period Hrs	7.55
(K) Net mWh Not Generated due to Partial Forced Outages	0
(L) Forced Derates: percent of Period Hrs	0.00
(M) Net mWh Not Generated due to Economic Dispatch	73,736
(N) Economic Dispatch: percent of Period Hrs	54.13
(O) Net mWh Possible in Period	135,780
(P) Equivalent Availability (%)	65.90
(Q) Output Factor (%)	80.91
(R) Heat Rate (BTU/NkWh)	11,851

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- Data is reflected at 100% ownership.
- Footnote: (R) Includes Light Off BTU's

I/A

Sykes Exhibit 6
Schedule 10

Duke Energy Carolinas
Baseload Steam and CHP Units
Performance Review Plan
January, 2021 through December, 2021

Dan River Combined Cycle Station

	Unit 8	Unit 9	Unit ST07	Block Total
(A) MDC (mW)	206	206	308	720
(B) Period Hrs	8,760	8,760	8,760	8,760
(C) Net Generation (mWh)	1,228,210	1,262,306	1,682,928	4,173,444
(D) Capacity Factor (%)	68.06	69.95	62.38	66.17
(E) Net mWh Not Generated due to Full Scheduled Outages	157,624	164,209	208,321	530,155
(F) Scheduled Outages: percent of Period Hrs	8.73	9.10	7.72	8.41
(G) Net mWh Not Generated due to Partial Scheduled Outages	138,404	138,401	283,369	560,174
(H) Scheduled Derates: percent of Period Hrs	7.67	7.67	10.50	8.88
(I) Net mWh Not Generated due to Full Forced Outages	11,268	8,992	13,003	33,263
(J) Forced Outages: percent of Period Hrs	0.62	0.50	0.48	0.53
(K) Net mWh Not Generated due to Partial Forced Outages	524	524	1,751	2,799
(L) Forced Derates: percent of Period Hrs	0.03	0.03	0.06	0.04
(M) Net mWh Not Generated due to Economic Dispatch	268,530	230,128	508,708	1,007,366
(N) Economic Dispatch: percent of Period Hrs	14.88	12.75	18.85	15.97
(O) Net mWh Possible in Period	1,804,560	1,804,560	2,698,080	6,307,200
(P) Equivalent Availability (%)	82.94	82.70	81.23	82.14
(Q) Output Factor (%)	80.86	81.25	70.26	76.33
(R) Heat Rate (BTU/NkWh)	10,791	10,678	1,695	7,089

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- Data is reflected at 100% ownership.
- Footnote: (R) Includes Light Off BTU's

I/A

Sykes Exhibit 6
Schedule 10

Duke Energy Carolinas
Baseload Steam and CHP Units
Performance Review Plan
January, 2021 through December, 2021

Marshall Station

	Unit 3	Unit 4
(A) MDC (mW)	658	660
(B) Period Hrs	8,760	8,760
(C) Net Generation (mWh)	1,592,995	3,404,773
(D) Capacity Factor (%)	27.64	58.89
(E) Net mWh Not Generated due to Full Scheduled Outages	2,776,058	686,268
(F) Scheduled Outages: percent of Period Hrs	48.16	11.87
(G) Net mWh Not Generated due to Partial Scheduled Outages	0	0
(H) Scheduled Derates: percent of Period Hrs	0.00	0.00
(I) Net mWh Not Generated due to Full Forced Outages	309,786	223,256
(J) Forced Outages: percent of Period Hrs	5.37	3.86
(K) Net mWh Not Generated due to Partial Forced Outages	240,971	118,342
(L) Forced Derates: percent of Period Hrs	4.18	2.05
(M) Net mWh Not Generated due to Economic Dispatch	844,270	1,348,961
(N) Economic Dispatch: percent of Period Hrs	14.56	23.33
(O) Net mWh Possible in Period	5,764,080	5,781,600
(P) Equivalent Availability (%)	42.28	82.22
(Q) Output Factor (%)	64.91	71.49
(R) Heat Rate (BTU/NkWh)	10,324	9,746

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- Data is reflected at 100% ownership.
- Footnote: (R) Includes Light Off BTU's

I/A

Duke Energy Carolinas
Baseload Steam and CHP Units
Performance Review Plan
January, 2021 through December, 2021

Sykes Exhibit 6
Schedule 10

WS Lee Combined Cycle

	Unit 11	Unit 12	Unit ST10	Block Total
(A) MDC (mW)	248	248	313	809
(B) Period Hrs	8,760	8,760	8,760	8,760
(C) Net Generation (mWh)	1,739,729	1,714,227	2,401,701	5,855,657
(D) Capacity Factor (%)	80.08	78.91	87.59	82.63
(E) Net mWh Not Generated due to Full Scheduled Outages	188,306	237,257	244,781	670,345
(F) Scheduled Outages: percent of Period Hrs	8.67	10.92	8.93	9.46
(G) Net mWh Not Generated due to Partial Scheduled Outages	51,608	54,497	0	106,105
(H) Scheduled Derates: percent of Period Hrs	2.38	2.51	0.00	1.50
(I) Net mWh Not Generated due to Full Forced Outages	9,507	0	1,951	11,458
(J) Forced Outages: percent of Period Hrs	0.44	0.00	0.07	0.16
(K) Net mWh Not Generated due to Partial Forced Outages	139	0	0	139
(L) Forced Derates: percent of Period Hrs	0.01	0.00	0.00	0.00
(M) Net mWh Not Generated due to Economic Dispatch	183,191	166,498	93,446	443,136
(N) Economic Dispatch: percent of Period Hrs	8.43	7.66	3.41	6.25
(O) Net mWh Possible in Period	2,172,480	2,172,480	2,741,880	7,086,840
(P) Equivalent Availability (%)	88.51	86.57	91.00	88.88
(Q) Output Factor (%)	88.72	89.14	96.57	91.91
(R) Heat Rate (BTU/NkWh)	10,545	10,515	2,312	7,160

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- Data is reflected at 100% ownership.
- Footnote: (R) Includes Light Off BTU's

I/A

Sykes Exhibit 6
Schedule 10

Duke Energy Carolinas
Intermediate Power Plant
Performance Review Plan
January, 2021 through December, 2021

Cliffside Station

Units	Unit 6
(A) MDC (mW)	849
(B) Period Hrs	8,760
(C) Net Generation (mWh)	4,021,882
(D) Net mWh Possible in Period	7,437,240
(E) Equivalent Availability (%)	74.43
(F) Output Factor (%)	72.44
(G) Capacity Factor (%)	54.08

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

I/A

Sykes Exhibit 6
Schedule 10

Duke Energy Carolinas
Peaking Power Plant
Performance Review Plan
January, 2021 through December, 2021

Cliffside Station

Units	Unit 5
(A) MDC (mW)	546
(B) Period Hrs	8,760
(C) Net Generation (mWh)	729,303
(D) Net mWh Possible in Period	4,782,960
(E) Equivalent Availability (%)	42.38
(F) Output Factor (%)	37.28
(G) Capacity Factor (%)	15.25

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

Duke Energy Carolinas, LLC
North Carolina Annual Fuel and Fuel Related Expense
Proposed Nuclear Capacity Factor
Billing Period September 2022 through August 2023
Docket E-7, Sub 1263

Sykes Workpaper 1

	Catawba 1	Catawba 2	McGuire 1	McGuire 2	Oconee 1	Oconee 2	Oconee 3	Total
MWhs	9,185,657	9,129,849	9,990,936	9,257,839	6,686,733	7,360,722	7,473,786	59,085,520
Cost (Gross of Joint Owners)	$ 56,075,776	$ 52,811,775	$ 55,286,006	$ 50,528,496	$ 38,964,977	$ 42,478,337	$ 44,926,459	$ 341,071,825
$/MWh	6.1047	5.7845	5.5336	5.4579	5.8272	5.7709	6.0112	
Avg $/MWh		**5.7725**						
Cents per kWh		**0.5773**						

			Sept 2022 - August 2023
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	859.0
			7,179.7
Hours In Year			8,760
Generation GWhs			
CATA_UN01	Catawba	GWh	9,186
CATA_UN02	Catawba	GWh	9,130
MCGU_UN01	McGuire	GWh	9,991
MCGU_UN02	McGuire	GWh	9,258
OCON_UN01	Oconee	GWh	6,687
OCON_UN02	Oconee	GWh	7,361
OCON_UN03	Oconee	GWh	7,474
			59,086
	Proposed Nuclear Capacity Factor		93.94%

rounding differences may occur

Duke Energy Carolinas, LLC **Sykes Workpaper 2**
North Carolina Annual Fuel and Fuel Related Expense
NERC 5 Year Average Nuclear Capacity Factor
Billing Period September 2022 through August 2023
Docket E-7, Sub 1263

	Catawba 1	Catawba 2	McGuire 1	McGuire 2	Oconee 1	Oconee 2	Oconee 3	Total
MWhs with NERC applied	9,295,832	9,216,497	9,279,804	9,276,599	6,911,469	6,919,629	7,009,388	57,909,218
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	91.48%	91.48%	91.48%	91.48%	93.15%	93.15%	93.15%	92.07%
Cost	$ 53,660,292	$ 53,202,329	$ 53,567,774	$ 53,549,271	$ 39,896,533	$ 39,943,636	$ 40,461,773	$ 334,281,608

Avg $/MWh **5.7725**
Cents per kWh **0.5773**

2016-2020	Capacity Rating	NCF Rating	Weighted Average	
Oconee 1	847.0	93.15	10.99%	
Oconee 2	848.0	93.15	11.00%	
Oconee 3	859.0	93.15	11.14%	
McGuire 1	1,158.0	91.48	14.75%	
McGuire 2	1,157.6	91.48	14.75%	
Catawba 1	1,160.0	91.48	14.78%	
Catawba 2	1,150.1	91.48	14.65%	
	7,179.7		**92.07%**	Wtd Avg on Capacity Rating

rounding differences may occur

Duke Energy Carolinas, LLC **Sykes Workpaper 3**
North Carolina Annual Fuel and Fuel Related Expense
North Carolina Generation and Purchased Power in MWhs
Billing Period September 2022 through August 2023
Docket E-7, Sub 1263

Resource Type	Sept 2022 - August 2023	
NUC Total (Gross)	59,085,520	
COAL Total	9,117,091	
Gas CT and CC total (Gross)	29,962,094	
Run of River	4,980,701	
Net pumped Storage	(3,411,289)	
Total Hydro	1,569,412	
Catawba Joint Owners	(14,848,200)	
Lee CC Joint Owners	(876,000)	
DEC owned solar	364,048	
Total Generation		84,373,966
Purchases for REPS Compliance	1,376,121	
Qualifying Facility Purchases - Non-REPS compliance	2,705,790	
Other Purchases	11,994	
Allocated Economic Purchases	610,715	
Joint Dispatch Purchases	4,735,740	
	9,440,360	
Total Generation and Purchased Power		93,814,326
Fuel Recovered Through Intersystem Sales	(1,964,801)	

rounding differences may occur

Duke Energy Carolinas, LLC **Sykes Workpaper 4**
North Carolina Annual Fuel and Fuel Related Expense
Projected Fuel and Fuel Related Costs
Billing Period September 2022 through August 2023
Docket E-7, Sub 1263

Resource Type	Sept 2022 - August 2023	
Nuclear Total (Gross)	$ 341,071,825	
COAL Total	292,853,648	
Gas CT and CC total (Gross)	932,067,312	
Catawba Joint Owner costs	(85,734,604)	
CC Joint Owner costs	(20,639,342)	
Non-Economic Fuel Expense Recovered through Reimbursement	(14,027,557)	
Reagents and gain/loss on sale of By-Products	9,519,806	Workpaper 9
Purchases for REPS Compliance - Energy	66,782,210	
Purchases for REPS Compliance - Capacity	14,610,064	
Purchases of Qualifying Facilities - Energy	40,652,503	
Purchases of Qualifying Facilities - Capacity	8,445,498	
Other Purchases	7,489,994	
JDA Savings Shared	20,748,035	Workpaper 5
Allocated Economic Purchase cost	14,263,480	Workpaper 5
Joint Dispatch purchases	108,842,049	Workpaper 6
Total Purchases	281,833,833	
Fuel Expense recovered through intersystem sales	(66,325,343)	Workpaper 5
Total System Fuel and Fuel Related Costs	**$ 1,670,619,578**	

rounding differences may occur

Duke Energy Carolinas, LLC
North Carolina Annual Fuel and Fuel Related Expense
Projected Joint Dispatch Fuel Impacts
Billing Period September 2022 through August 2023
Docket E-7, Sub 1263

Sykes Workpaper 5

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
9/1/2022	$ 2,677,577	$ 3,781,762	$ (395,675)	$ (452,046)	$ (1,193,008)	$ 1,193,008	$ 136,476	$ (136,476)
10/1/2022	$ 542,827	$ 803,362	$ (661,032)	$ (762,575)	$ 3,557,663	$ (3,557,663)	$ 1,505,004	$ (1,505,004)
11/1/2022	$ 695,591	$ 1,037,984	$ (1,296,867)	$ (557,594)	$ (13,651,324)	$ 13,651,324	$ (2,905,662)	$ 2,905,662
12/1/2022	$ 569,647	$ 813,687	$ (4,426,520)	$ (2,671,233)	$ (8,969,486)	$ 8,969,486	$ (1,818,339)	$ 1,818,339
1/1/2023	$ 717,874	$ 1,045,814	$ (9,234,760)	$ (8,881,053)	$ (10,170,634)	$ 10,170,634	$ (3,592,449)	$ 3,592,449
2/1/2023	$ 158,723	$ 222,173	$ (7,642,791)	$ (9,248,399)	$ (5,978,839)	$ 5,978,839	$ (1,638,766)	$ 1,638,766
3/1/2023	$ 159,011	$ 226,144	$ (2,542,480)	$ (1,638,517)	$ (11,192,203)	$ 11,192,203	$ (2,501,768)	$ 2,501,768
4/1/2023	$ 956,508	$ 1,344,592	$ (1,195,044)	$ (315,259)	$ (3,210,699)	$ 3,210,699	$ (1,096,821)	$ 1,096,821
5/1/2023	$ 270,733	$ 388,566	$ (1,797,811)	$ (767,211)	$ (5,555,240)	$ 5,555,240	$ (2,753,841)	$ 2,753,841
6/1/2023	$ 1,051,586	$ 1,467,004	$ (701,390)	$ (742,280)	$ (2,897,748)	$ 2,897,748	$ (1,195,439)	$ 1,195,439
7/1/2023	$ 867,969	$ 1,183,718	$ (953,263)	$ (1,239,118)	$ (5,539,686)	$ 5,539,686	$ (3,293,157)	$ 3,293,157
8/1/2023	$ 1,368,896	$ 1,948,674	$ (968,553)	$ (940,559)	$ (5,931,346)	$ 5,931,346	$ (1,593,273)	$ 1,593,273
Sept 22 - Aug 23		$ 14,263,480		$ (28,215,845)		$ 70,732,550		$ 20,748,035

rounding differences may occur

$ 108,842,049	Workpaper 6 - Transfer - Purchases
$ (38,109,498)	Workpaper 6 - Transfer - Sales
$ 70,732,550	Sept 22-Aug 23 Net Fuel Transfer Payment
$ (38,109,498)	Workpaper 6 - Transfer - Sales
$ (28,215,845)	Sept 22-Aug 23 Economic Sales Cost
$ (66,325,343)	**Total Fuel expense recovered through intersystem sales**

Duke Energy Carolinas, LLC
North Carolina Annual Fuel and Fuel Related Expense
Projected Merger Payments
Billing Period September 2022 through August 2023
Docket E-7, Sub 1263

Sykes Workpaper 6

	Transfer Projection		Purchase Allocation Delta		Purchase Adjusted Transfer	Sale Adjusted Transfer	Fossil Gen Cost		Sale Pre-Net Payments	Purchase Pre-Net Payments
	PECtoDEC	DECtoPEC	PEC	DEC	PECtoDEC	DECtoPEC	PEC	DEC	PECtoDEC	DECtoPEC
9/1/2022	253,674	164,537	(35,758)	35,758	253,674	200,295	$ 29.07	$ 30.86	$ 6,180,396	$ 7,373,404
10/1/2022	212,025	305,749	(12,976)	12,976	212,025	318,726	$ 27.42	$ 29.40	$ 9,371,770	$ 5,814,107
11/1/2022	637,224	24,450	(141)	141	637,224	24,591	$ 22.69	$ 32.95	$ 810,289	$ 14,461,612
12/1/2022	387,962	37,723	(4,500)	4,500	387,962	42,223	$ 26.82	$ 34.00	$ 1,435,605	$ 10,405,091
1/1/2023	392,052	31,019	(2,330)	2,330	392,052	33,350	$ 28.90	$ 34.73	$ 1,158,324	$ 11,328,958
2/1/2023	268,628	41,858	(177)	177	268,628	42,035	$ 27.60	$ 34.15	$ 1,435,273	$ 7,414,112
3/1/2023	574,004	66,898	(447)	447	574,004	67,344	$ 23.22	$ 31.75	$ 2,137,998	$ 13,330,201
4/1/2023	385,453	158,440	(17,432)	17,432	385,453	175,872	$ 19.76	$ 25.05	$ 4,405,256	$ 7,615,955
5/1/2023	492,081	72,823	(5,284)	5,284	492,081	78,107	$ 15.12	$ 24.14	$ 1,885,732	$ 7,440,972
6/1/2023	343,644	136,582	3,192	(3,192)	346,836	136,582	$ 18.88	$ 26.73	$ 3,650,423	$ 6,548,171
7/1/2023	369,531	98,967	7,217	(7,217)	376,748	98,967	$ 22.05	$ 27.97	$ 2,768,573	$ 8,308,259
8/1/2023	393,768	106,684	15,285	(15,285)	409,053	106,684	$ 21.52	$ 26.90	$ 2,869,860	$ 8,801,206
Sept 22 - Aug 23	4,710,046	1,245,731	(53,351)	53,351	4,735,740	1,324,776			$ 38,109,498	$ 108,842,049
									Net Pre-Net Payments	$ 70,732,550

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 93.94%
Billing Period September 2022 through August 2023
Docket E-7, Sub 1263

Sykes Revised Workpaper 7

Fall 2021 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	22,809,193		22,809,193
	General	22,983,240		22,983,240
	Industrial	12,202,704		12,202,704
	Lighting	239,297		239,297
	NC RETAIL	58,234,434	-	58,234,434
South Carolina:				
	Residential	6,851,656	133,318	6,984,975
	General	5,765,026	42,173	5,807,199
	Industrial	8,959,835	429	8,960,264
	Lighting	39,929	-	39,929
	SC RETAIL	21,616,446	175,921	21,792,367
Total Retail Sales				
	Residential	29,660,849	133,318	29,794,168
	General	28,748,266	42,173	28,790,439
	Industrial	21,162,539	429	21,162,968
	Lighting	279,226	-	279,226
	Retail Sales	79,850,880	175,921	80,026,801
	Wholesale	8,106,092	-	8,106,092
Projected System MWH Sales for Fuel Factor		87,956,972	175,921	88,132,893
NC as a percentage of total		**66.21%**		**66.08%**
SC as a percentage of total		24.58%		24.73%
Wholesale as a percentage of total		9.22%		9.20%
		100.00%		100.00%

SC Net Metering allocation adjustment

Total projected SC NEM MWhs	175,921	
Marginal fuel rate per MWh for SC NEM	$ 26.07	
Fuel benefit to be directly assigned to SC Retail	$ 4,586,518	

System Fuel Expense	$ 1,670,619,578	Sykes Exhibit 2 Schedule 1 Page 1 of 3
Fuel benefit to be directly assigned to SC Retail	$ 4,586,518	
Total Fuel Costs for Allocation	$ 1,675,206,096	Sykes Exhibit 2 Schedule 1 Page 3 of 3, L5

Reconciliation	**System**	**NC Retail Customers**	**Wholesale**	**South Carolina Retail**	
Total system fuel expense from Sykes Exhibit 2 Schedule 1 Page 1	$ 1,670,619,578				
QF and REPS Compliance Purchased Power - Capacity	$ 23,055,563				
Other fuel costs	$ 1,647,564,015				
SC Net Metering Fuel Allocation adjustment	$ 4,586,518				
Jurisdictional fuel costs after adj.	$ 1,652,150,533				
Allocation to states/classes		66.08%	9.20%	24.73%	
Jurisdictional fuel costs	$ 1,652,150,533	$ 1,091,670,180	$ 151,957,842	$ 408,522,511	66.68%
Direct Assignment of Fuel benefit to SC Retail	$ (4,586,518)		$ -	$ (4,586,518)	
Total system actual fuel costs	$ 1,647,564,015	$ 1,091,670,180	$ 151,957,842	$ 403,935,993	
QF and REPS Compliance Purchased Power - Capacity	23,055,563	15,373,745			
Total system fuel expense from Sykes Exhibit 2 Schedule 1 Page 1	$ 1,670,619,578	**$ 1,107,043,925**			
		Exh.2, Sch. 1 page 3, Line 13			

rounding differences may occur

Duke Energy Carolinas, LLC **Sykes Revised Workpaper 7a**
North Carolina Annual Fuel and Fuel Related Expense
Projected and Adjusted Projected Sales and Costs
Proposed Nuclear Capacity Factor of 93.94% and Normalized Test Period Sales
Billing Period September 2022 through August 2023
Docket E-7, Sub 1263

Fall 2021 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	58,067,962	(62,454)	413,425	-	58,418,933
SC RETAIL	20,481,464	93,667	133,245	175,921	20,884,297
Wholesale	8,002,184	68,388	41,052	-	8,111,624
Normalized System MWH Sales for Fuel Factor	86,551,610	99,601	587,721	175,921	87,414,853
NC as a percentage of total	**67.09%**				**66.83%**
SC as a percentage of total	23.66%				23.89%
Wholesale as a percentage of total	9.25%				9.28%
	100.00%				100.00%

SC Net Metering allocation adjustment

Total projected SC NEM MWhs	175,921	
Marginal fuel rate per MWh for SC NEM	$ 26.07	
Fuel benefit to be directly assigned to SC Retail	$ 4,586,518	
System Fuel Expense	$ 1,647,555,144	Sykes Exhibit 2 Schedule 2 Page 1 of 3
Fuel benefit to be directly assigned to SC Retail	$ 4,586,518	
Total Fuel Costs for Allocation	$ 1,652,141,662	Sykes Exhibit 2 Schedule 2 Page 3 of 3, L5

Reconciliation	**System**	**NC Retail Customers**	**Wholesale**	**South Carolina Retail**
Total system fuel expense from Sykes Exhibit 2 Schedule 2 Page 1	$ 1,647,555,144			
QF and REPS Compliance Purchased Power - Capacity	$ 23,055,563			
Other fuel costs	$ 1,624,499,581			
SC Net Metering Fuel Allocation adjustment	$ 4,586,518			
Jurisdictional fuel costs after adj.	$ 1,629,086,100			
Allocation to states/classes		66.83%	9.28%	23.89%
Jurisdictional fuel costs	$ 1,629,086,100	$ 1,088,718,240	$ 151,179,190	$ 389,188,669
Direct Assignment of Fuel benefit to SC Retail	$ (4,586,518)		$ -	$ (4,586,518)
Total system actual fuel costs	$ 1,624,499,581	$ 1,088,718,240	$ 151,179,190	$ 384,602,151
QF and REPS Compliance Purchased Power - Capacity	23,055,563	15,373,745		
Total system fuel expense from Sykes Exhibit 2 Schedule 2 Page 1	$ 1,647,555,144	**$ 1,104,091,985**		
		Exh. 2, Sch 2 page 3, Line 13		

rounding differences may occur

Duke Energy Carolinas, LLC **Sykes Revised Workpaper 7b**
North Carolina Annual Fuel and Fuel Related Expense
Projected and Adjusted Projected Sales and Costs
NERC 5 Year Average Nuclear Capacity Factor of 92.07%
Billing Period September 2022 through August 2023
Docket E-7, Sub 1263

Fall 2021 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	22,809,193		22,809,193
	General	22,983,240		22,983,240
	Industrial	12,202,704		12,202,704
	Lighting	239,297		239,297
	NC RETAIL	58,234,434	-	58,234,434
South Carolina:				
	Residential	6,851,656	133,318	6,984,975
	General	5,765,026	42,173	5,807,199
	Industrial	8,959,835	429	8,960,264
	Lighting	39,929	0	39,929
	SC RETAIL	21,616,446	175,921	21,792,367
Total Retail Sales				
	Residential	29,660,849	133,318	29,794,167
	General	28,748,266	42,173	28,790,440
	Industrial	21,162,539	429	21,162,968
	Lighting	279,226	-	279,226
	Retail Sales	79,850,880	175,921	80,026,801
	Wholesale	8,106,092	-	8,106,092
Projected System MWh Sales for Fuel Factor		87,956,972	175,921	88,132,893
NC as a percentage of total		**66.21%**		**66.08%**
SC as a percentage of total		24.58%		24.73%
Wholesale as a percentage of total		9.22%		9.20%
		100.01%		100.00%

SC Net Metering allocation adjustment		
Total projected SC NEM MWhs	175,921	
Marginal fuel rate per MWh for SC NEM	$ 26.07	
Fuel benefit to be directly assigned to SC Retail	$ 4,586,511	
System Fuel Expense	$ 1,693,825,422	Sykes Exhibit 2 Schedule 3 Page 1 of 3
Fuel benefit to be directly assigned to SC Retail	$ 4,586,511	
Total Fuel Costs for Allocation	$ 1,698,411,934	Sykes Exhibit 2 Schedule 3 Page 3 of 3, Line 5

Reconciliation	**System**	**NC Retail Customers**	**Wholesale**	**South Carolina Retail**
Total system fuel expense from Sykes Exhibit 2 Schedule 3 Page 1	$ 1,693,825,422			
QF and REPS Compliance Purchased Power - Capacity	$ 23,055,563			
Other fuel costs	$ 1,670,769,860			
SC Net Metering Fuel Allocation adjustment	$ 4,586,511			
Jurisdictional fuel costs after adj.	$ 1,675,356,371			
Allocation to states/classes		66.08%	9.20%	24.73%
Jurisdictional fuel costs	$ 1,675,523,907	$ 1,107,075,490	$ 154,132,786	$ 414,315,631
Direct Assignment of Fuel benefit to SC Retail	$ (4,586,511)		$ -	$ (4,586,511)
Total system actual fuel costs	$ 1,670,937,395	$ 1,107,075,490	$ 154,132,786	$ 409,729,119
QF and REPS Compliance Purchased Power - Capacity	23,055,563	15,373,745		
Total system fuel expense from Sykes Exhibit 2 Schedule 3 Page 1	$ 1,693,992,958	**$ 1,122,449,235**		
		Exh. 2, Sch.3 page 3, Line 13		

rounding differences may occur

Duke Energy Carolinas, LLC
North Carolina Annual Fuel and Fuel Related Expense
Annualized Revenue
Billing Period September 2022 through August 2023
Docket E-7, Sub 1263

Sykes Workpaper 8

	January 2022 Actuals			Normalized Sales	
	Revenue	kWh Sales	Cents/ kWh	Sykes Exhibit 4	Total Annualized Revenues
	(a)	(b)	(a)/(b) *100 = (c)	(d)	(c) * (d) * 10
Residential	$ 209,556,609	2,129,408,268	9.8411	22,961,890	$ 2,259,696,240
General	$ 137,324,675	1,921,732,056	7.1459	23,202,419	$ 1,658,017,092
Industrial	$ 51,372,485	937,750,891	5.4783	12,293,985	$ 673,497,148
Total	$ 398,253,769	4,988,891,215		58,458,294	$ 4,591,210,481

rounding differences may occur

Duke Energy Carolinas, LLC
North Carolina Annual Fuel and Fuel Related Expense
Projected Reagents and ByProducts
Billing Period September 2022 through August 2023
Docket E-7, Sub 1263

Sykes 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**
9/1/2022	$ 108,717	$ 13,489	$ 449,691	$ 48,393	$ 29,036	$ 34,615	**$ 683,941**	$ 128,362	$ (74,398)	$ (226,533)	**$ (172,570)**
10/1/2022	$ 51,960	$ 6,447	$ 214,926	$ 26,942	$ 16,165	$ 34,615	**$ 351,056**	$ 61,400	$ (31,726)	$ (223,486)	**$ (193,812)**
11/1/2022	$ 79,604	$ 9,877	$ 329,272	$ 36,588	$ 21,953	$ 34,615	**$ 511,909**	$ 84,600	$ (43,313)	$ (220,444)	**$ (179,157)**
12/1/2022	$ 314,933	$ 39,076	$ 1,302,676	$ 112,128	$ 67,277	$ 34,615	**$ 1,870,705**	$ 386,006	$ (232,116)	$ (217,449)	**$ (63,559)**
1/1/2023	$ 413,327	$ 51,284	$ 1,709,669	$ 144,939	$ 86,964	$ 34,615	**$ 2,440,799**	$ 512,709	$ (261,016)	$ (214,680)	**$ 37,013**
2/1/2023	$ 337,638	$ 41,893	$ 1,396,591	$ 110,882	$ 66,529	$ 34,615	**$ 1,988,148**	$ 415,640	$ (237,071)	$ (211,979)	**$ (33,410)**
3/1/2023	$ 106,399	$ 13,202	$ 440,102	$ 49,926	$ 29,955	$ 34,615	**$ 674,199**	$ 115,952	$ (59,337)	$ (209,446)	**$ (152,831)**
4/1/2023	$ 55,930	$ 6,940	$ 231,348	$ 31,061	$ 18,637	$ 34,615	**$ 378,532**	$ 53,252	$ (22,526)	$ (207,253)	**$ (176,528)**
5/1/2023	$ 33,535	$ 4,161	$ 138,712	$ 24,580	$ 14,748	$ 34,615	**$ 250,351**	$ 32,046	$ (8,814)	$ (206,220)	**$ (182,988)**
6/1/2023	$ 81,768	$ 10,146	$ 338,222	$ 42,487	$ 25,492	$ 34,615	**$ 532,731**	$ 91,664	$ (49,255)	$ (205,355)	**$ (162,945)**
7/1/2023	$ 115,903	$ 14,381	$ 479,414	$ 54,842	$ 32,905	$ 34,615	**$ 732,059**	$ 132,485	$ (71,586)	$ (204,536)	**$ (143,637)**
8/1/2023	$ 108,411	$ 13,451	$ 448,427	$ 49,538	$ 29,723	$ 34,615	**$ 684,165**	$ 112,582	$ (63,166)	$ (203,781)	**$ (154,364)**
	$ 1,808,126	$ 224,347	$ 7,479,051	$ 732,305	$ 439,383	$ 415,382	**$ 11,098,593**	$ 2,126,699	$ (1,154,325)	$ (2,551,161)	**$ (1,578,787)**

Total Reagent cost and Sale of By-products **$ 9,519,806**

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, 2021
Billing Period September 2022 through August 2023
Docket E-7, Sub 1263

Sykes Revised Workpaper 10

Line No.	Description	Forecast $	(Over)/Under Collection $	Total $
1	Amount in current docket	100,735,755	13,526,437	114,262,192
2	Amount in Sub 1250, prior year docket	102,740,263	(4,999,624)	97,740,638
3	Increase/(Decrease)	(2,004,507)	18,526,061	16,521,554
4	2.5% of 2021 NC retail revenue of $4,720,136,851			118,003,421
	Excess of purchased power growth over 2.5% of revenue			0

	E-7, Sub 1263			
WP 4	Purchases for REPS Compliance - Energy	66,782,210	66.08%	44,126,819
WP 4	Purchases for REPS Compliance - Capacity	14,610,064	66.68%	9,742,178
WP 4	Purchases	7,489,994	66.08%	4,949,066
WP 4	QF Energy	40,652,503	66.08%	26,861,429
WP 4	QF Capacity	8,445,498	66.68%	5,631,567
WP 4	Allocated Economic Purchase cost	14,263,480	66.08%	9,424,695
		152,243,749		100,735,755
	E-7, Sub 1250			
	Purchases for REPS Compliance	62,808,851	65.99%	41,447,561
	Purchases for REPS Compliance Capacity	13,866,978	66.90%	9,276,635
	Purchases	2,586,674	65.99%	1,706,946
	QF Energy	53,822,291	65.99%	35,517,330
	QF Capacity	11,169,971	66.90%	7,472,410
	Allocated Economic Purchase cost	11,091,651	65.99%	7,319,380
		155,346,415		102,740,263

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, 2021
Docket E-7, Sub 1263

Sykes Workpaper 10a

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
Less:													
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	
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	$ 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	$ 776,505	$ 24,135,215
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	
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	$ (636,024)	$ 7,140,417
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**	**$ 1,007,004**	**$ 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
2.5% Calculation Test
Twelve Months Ended December 31, 2020
Docket E-7, Sub 1263

Sykes Workpaper 10b

2020	**Jan-20**	**Feb-20**	**Mar-20**	**Apr-20**	**May-20**	**Jun-20**	**Jul-20**	**Aug-20**	**Sep-20**	**Oct-20**	**Nov-20**	**Dec-20**	**12 ME**
System KWH Sales - Sch 4, Adjusted	7,193,812,943	7,229,160,762	6,557,632,220	5,948,571,625	5,649,816,171	6,745,745,153	8,113,658,335	8,454,195,025	7,632,668,505	6,227,418,819	7,077,137,814	6,283,453,698	83,113,271,070
NC Retail KWH Sales - Sch 4	4,799,050,153	4,852,514,770	4,419,004,658	4,009,530,882	3,737,497,506	4,445,349,080	5,381,133,760	5,679,285,065	5,143,265,080	4,161,108,724	4,768,316,561	4,115,807,397	55,511,863,636
NC Retail % of Sales, Adjusted (Calc)	66.71%	67.12%	67.39%	67.40%	66.15%	65.90%	66.32%	67.18%	67.38%	66.82%	67.38%	65.50%	66.79%
NC retail production plant %	67.55%	67.55%	67.55%	67.55%	67.55%	67.75%	67.75%	67.75%	67.75%	67.75%	67.75%	67.75%	67.71%
Fuel and Fuel related component of purchased power													
System Actual $ - Sch 3 Fuel$:	$ 11,218,315	$ 12,607,762	$ 5,300,111	$ 6,352,200	$ 8,395,303	$ 6,771,661	$ 12,440,459	$ 7,247,711	$ 9,073,495	$ 15,331,837	$ 6,958,738	$ 24,648,415	$ 126,346,007
System Actual $ - Sch 3 Fuel-related$; Economic Purchases	1,491,771	1,826,422	990,649	729,743	909,315	1,057,292	2,012,867	1,346,379	1,036,893	1,743,448	1,074,835	4,774,389	$ 18,994,003
System Actual $ - Sch 3 Fuel-related$; Purchased Power for REPS Compliance	3,745,116	4,068,302	3,681,838	4,276,231	5,491,472	4,795,757	5,305,337	6,084,262	5,064,982	4,676,649	4,553,039	4,091,116	$ 55,834,101
System Actual$ - Sch 3 Fuel-related$; SC DERP	13,291	13,282	28,563	39,932	44,069	110,923	38,018	129,601	69,181	87,074	68,782	37,283	$ 679,999
System Acutal $ - Sch 3 Fuel-related$; HB589 purpa Purchases	2,051,485	2,097,916	2,123,359	2,681,961	3,213,134	2,547,168	2,552,543	2,889,199	2,519,264	2,799,837	2,863,763	2,568,618	$ 30,908,248
Total System Economic & QF$	18,519,978	20,613,684	12,124,520	14,080,067	18,053,293	15,282,801	22,349,224	17,697,152	17,763,815	24,638,845	15,519,157	36,119,821	232,762,358
Less:													
Native Load Transfers, Native Load Transfer Benefit & DE - Progress fees	$ 9,403,952	$ 10,746,417	$ 3,681,146	$ 5,959,074	$ 8,211,008	$ 5,694,556	$ 12,728,156	$ 6,086,984	$ 8,789,272	$ 15,071,913	$ 5,685,045	$ 21,638,297	$ 113,695,820
Total System Economic $ without Native Load Transfers	$ 9,116,026	$ 9,867,267	$ 8,443,374	$ 8,120,993	$ 9,842,285	$ 9,588,245	$ 9,621,068	$ 11,610,168	$ 8,974,543	$ 9,566,932	$ 9,834,112	$ 14,481,524	$ 119,066,539
NC Actual $ (Calc)	$ 6,081,374	$ 6,623,322	$ 5,689,753	$ 5,473,813	$ 6,510,923	$ 6,318,516	$ 6,380,877	$ 7,799,377	$ 6,047,486	$ 6,392,544	$ 6,625,865	$ 9,485,733	$ 79,429,582
Billed rate (¢/kWh):	0.1533	0.1533	0.1533	0.1533	0.1533	0.1533	0.1533	0.1533	0.1689	0.1689	0.1689	0.1689	
Billed $:	$ 7,356,944	$ 7,438,905	$ 6,774,334	$ 6,146,611	$ 5,729,584	$ 6,814,720	$ 8,249,278	$ 8,706,344	$ 8,689,317	$ 7,030,008	$ 8,055,859	$ 6,953,473	$ 87,945,377
(Over)/ Under $:	$ (1,275,570)	$ (815,583)	$ (1,084,581)	$ (672,798)	$ 781,339	$ (496,204)	$ (1,868,401)	$ (906,967)	$ (2,641,831)	$ (637,464)	$ (1,429,993)	$ 2,532,260	$ (8,515,795)
Capacity component of purchased power													
System Actual $ - Capacity component of Cherokee County Cogen Purchases	$ 430,619	$ 430,619	$ 215,310	$ 215,310	$ 322,964	$ 1,399,512	$ 3,229,644	$ 3,229,644	$ 645,929	$ 215,310	$ 215,310	$ 215,310	$ 10,765,481
System Actual $ - Capacity component of Purchased Power for REPS Compliance	645,345	680,159	573,260	641,154	778,381	625,715	2,302,254	2,743,308	2,223,872	1,950,062	637,418	610,344	$ 14,411,272
System Actual $ - Capacity component of HB589 Purpa QF purchases	264,275	306,973	236,219	277,976	283,502	204,320	1,125,235	1,384,219	1,116,138	1,010,084	297,176	256,193	$ 6,762,310
System Actual $ - Capacity component of SC DERP	1,869	1,868	12,351	6,569	4,675	15,765	4,866	18,466	9,471	10,816	8,919	5,142	$ 100,777
System Actual $ - Sch 2 pg 1 ANNUAL VIEW	$ 1,342,109	$ 1,419,619	$ 1,037,140	$ 1,141,008	$ 1,389,523	$ 2,245,312	$ 6,661,999	$ 7,375,637	$ 3,995,410	$ 3,186,272	$ 1,158,823	$ 1,086,989	$ 32,039,840
NC Actual $ (Calc) (1)	$ 906,558	$ 958,914	$ 700,560	$ 770,720	$ 938,585	$ 1,521,128	$ 4,513,293	$ 4,996,760	$ 2,706,763	$ 2,158,598	$ 785,065	$ 736,399	$ 21,693,343
Billed rate (¢/kWh):	0.0327	0.0327	0.0327	0.0327	0.0327	0.0327	0.0327	0.0327	0.0328	0.0328	0.0328	0.0328	
Billed $:	$ 1,570,139	$ 1,587,631	$ 1,445,797	$ 1,311,826	$ 1,222,823	$ 1,454,416	$ 1,760,583	$ 1,858,131	$ 1,686,991	$ 1,364,844	$ 1,564,008	$ 1,349,985	$ 18,177,174
(Over)/Under $:	$ (663,581)	$ (628,718)	$ (745,237)	$ (541,106)	$ (284,239)	$ 66,712	$ 2,752,710	$ 3,138,628	$ 1,019,773	$ 793,755	$ (778,942)	$ (613,586)	$ 3,516,169
TOTAL (Over)/ Under $:	**$ (1,939,151)**	**$ (1,444,300)**	**$ (1,829,818)**	**$ (1,213,904)**	**$ 497,100**	**$ (429,492)**	**$ 884,309**	**$ 2,231,661**	**$ (1,622,059)**	**$ 156,290**	**$ (2,208,936)**	**$ 1,918,674**	**$ (4,999,624)**

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 2019 production plant allocation factor. Actual true-up related to allocator was made as prior period adjustment in June 2020 of Schedule 4.

rounding differences may occur

Duke Energy Carolinas, LLC **Sykes Workpaper 11**
North Carolina Annual Fuel and Fuel Related Expense
Actual Sales by Jursidiction - Subject to Weather
Twelve Months Ended December 31, 2021
Docket E-7, Sub 1263

Line #	Description	Reference	MWhs NORTH CAROLINA	MWhs SOUTH CAROLINA	MWhs TOTAL COMPANY	% NC	% SC
1	Residential	Company Records	22,424,524	6,819,677	29,244,200	76.68	23.32
2	Total General Service	Company Records	23,396,396	5,297,993	28,694,389		
3	less Lighting and Traffic Signals		249,725	50,082	299,807		
4	General Service subject to weather		23,146,672	5,247,911	28,394,582	81.52	18.48
5	Industrial	Company Records	12,247,042	8,363,794	20,610,836	59.42	40.58
6	Total Retail Sales	1+2+5	58,067,962	20,481,464	78,549,426		
7	Total Retail Sales subject to weather	1+4+5	57,818,237	20,431,382	78,249,619	73.89	26.11

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, 2021
Docket E-7, Sub 1263

Sykes Revised Workpaper 12
Page 1

Line #	Description	REFERENCE	Total Company MWh	NC RETAIL % To Total	NC RETAIL MWh	SC RETAIL % To Total	SC RETAIL MWh
	Residential						
1	Total Residential		442,226	76.68	339,099	23.32	103,127
	General Service						
2	Total General Service		55,501	81.52	45,245	18.48	10,257
	Industrial						
3	Total Industrial		48,942	59.42	29,081	40.58	19,861
4	Total Retail	L1+ L2+ L3	546,669		413,425		133,245
5	Wholesale		41,052				
6	Total Company	L4 + L5	587,721		413,425		133,245

rounding differences may occur

Duke Energy Carolinas, LLC
North Carolina Annual Fuel and Fuel Related Expense
Weather Normalization Adjustment by Class by Month
Twelve Months Ended December 31, 2021
Docket E-7, Sub 1263

Sykes Revised Workpaper 12
Page 2

	Residential	Commercial	Industrial
2021	**TOTAL MWH ADJUSTMENT**	**TOTAL MWH ADJUSTMENT**	**TOTAL MWH ADJUSTMENT**
JAN	(32,231)	(6,216)	-
FEB	76,342	6,207	5,074
MAR	(28,114)	-	-
APR	87,225	-	-
MAY	22,994	7,646	8,603
JUN	5,003	2,379	1,202
JUL	132,023	60,904	22,835
AUG	115,041	51,399	31,162
SEP	(100,540)	(54,870)	(24,544)
OCT	(63,328)	(35,264)	(17,356)
NOV	37,621	7,905	21,965
DEC	190,190	15,412	-
Total	**442,226**	**55,501**	**48,942**

	Wholesale		
2021	**TOTAL MWH ADJUSTMENT**	Note:	**The Resale customers include:**
JAN	(3,069)	1	Concord[1]
FEB	4,989	2	Dallas
MAR	(935)	3	Forest City
APR	-	4	Kings Mountain[1]
MAY	(242)	5	Due West
JUN	333	6	Prosperity[2]
JUL	10,240	7	Lockhart
AUG	7,544	8	Western Carolina University
SEP	(3,038)	9	City of Highlands
OCT	(194)	10	Haywood
NOV	7,750	11	Piedmont
DEC	17,674	12	Rutherford
		13	Blue Ridge
Total	**41,052**	14	Greenwood[1]

[1]Wholesale load is no longer being served by Duke as of December 2018.
[2]Wholesale load is no longer being served by Duke as of December 2019.

rounding differences may occur

Duke Energy Carolinas, LLC
North Carolina Annual Fuel and Fuel Related Expense
Customer Growth Adjustment to kWh Sales
Twelve Months Ended December 31, 2021
Docket E-7, Sub 1263

Line	Estimation Method [1]	Rate Schedule	NC Proposed kWh [1] Adjustment	SC Proposed kWh Adjustment	Wholesale Proposed kWh Adjustment	Total Company
1	*Regression*	Residential	162,754,384	82,196,305		
2						
3		**General Service (Excluding Lighting):**				
4	*Customer*	General Service Small and Large	(239,177,414)	(13,727,966)		
5	*Regression*	Miscellaneous	(212,139)	117,569		
6		Total General	(239,389,552)	(13,610,396)		
7						
8		**Lighting:**				
9	*Regression*	T & T2 (GL/FL/PL/OL)[2]	(3,686,189)	(1,600,396)		
10	*Regression*	TS	5,186	(3,988)		
11		Total Lighting	(3,681,003)	(1,604,384)		
12						
13		**Industrial:**				
14	*Customer*	I - Textile	675,995	3,411,534		
15	*Customer*	I - Nontextile	17,186,010	23,274,269		
16		Total Industrial	17,862,005	26,685,803		
17						
18						
19		Total	(62,454,166)	93,667,327	68,388,286	99,601,448
					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, 2021
Docket E-7, Sub 1263

Sykes Revised Workpaper 13
Page 2

Calculation of Customer Growth Adjustment to kWh Sales - Wholesale

Line No.		Reference	
1	Total System Resale (kWh Sales)	Company Records	9,405,969,890
2	Less Intersystem Sales	Exhibit 6, Sch 1	1,241,221,539
3	Total kWh Sales Excluding Intersystem Sales	L1 - L2	8,164,748,350
4	Residential Growth Factor	Line 8	0.8376
5	Adjustment to kWhs - Wholesale	L3 * L4 / 100	68,388,286
6	Total System Retail Residential kWh Sales	Company Records	29,244,200,232
7	2021 Proposed Adjustment kWh - Residential (NC+SC)	WP 13-1	244,950,689
8	Percent Adjustment	L7 / L6 * 100	0.8376

rounding differences may occur

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, non-coal commodity and emission prices, environmental permit and emissions constraints, projected renewable energy production, and wholesale energy imports and exports.
- Station and system inventory targets are developed to provide generational reliability, insulation from short-term market volatility, and adaptability 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 changes in supply needs.
- All qualified suppliers are invited to participate in Request for Proposals to satisfy additional supply needs.
- Spot market solicitations are conducted on an on-going basis to supplement existing purchase commitments.
- Contracts are awarded based on the highest customer value, 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 energy production, and fleet maintenance and availability schedules.
- Physical procurement targets are developed to procure a cost effective and reliable natural gas supply.
- Natural gas supply is contracted utilizing a portfolio of long term, short term, spot market and physical call option agreements
- Short-term and long-term Requests for Proposals and market solicitations are conducted with potential suppliers, as needed, 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 determine changes in supply and transportation 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 60-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, 2021 & 2020
Tons

Line No.	Month	Contract (Tons)	Net Spot Purchase and Sales(Tons)	Total (Tons)
1	January 2021	323,175	272,905	596,079
2	February	178,088	352,765	530,853
3	March	307,174	179,526	486,700
4	April	244,734	259,026	503,760
5	May	214,001	267,134	481,135
6	June	167,453	305,774	473,227
7	July	408,398	114,825	523,222
8	August	477,986	126,407	604,393
9	September	405,691	50,464	456,155
10	October	276,793	140,002	416,795
11	November	75,126	75,590	150,716
12	December	150,700	89,983	240,683
13	**Total** (Sum L1:L12)	**3,229,319**	**2,234,401**	**5,463,718**

Line No.	Month	Contract (Tons)	Net Spot Purchase and Sales(Tons)	Total (Tons)
14	January 2020	719,300	39,752	759,052
15	February	377,885	130,203	508,088
16	March	511,418	51,906	563,324
17	April	454,145	23,566	477,712
18	May	203,960	12,873	216,833
19	June	306,915	11,563	318,478
20	July	395,057	50,851	445,908
21	August	548,061	25,831	573,892
22	September	400,170	99,692	499,862
23	October	531,876	52,647	584,523
24	November	360,487	111,351	471,838
25	December	326,439	52,176	378,615
26	**Total (Sum L14:L25)**	**5,135,713**	**662,411**	**5,798,125**

DUKE ENERGY CAROLINAS
Summary of Gas Purchases
Twelve Months Ended December 31, 2021 & 2020
MBTUs

Line No.	Month	MBTUs
1	January 2021	15,219,115
2	February	10,438,520
3	March	10,115,378
4	April	8,394,699
5	May	10,080,567
6	June	13,869,501
7	July	23,083,528
8	August	21,334,474
9	September	17,254,822
10	October	17,385,461
11	November	22,756,045
12	December	19,657,646
13	**Total (Sum L1:L12)**	**189,589,756**

Line No.	Month	MBTUs
14	January 2020	13,098,158
15	February	13,151,481
16	March	13,043,284
17	April	6,893,840
18	May	10,414,617
19	June	9,651,972
20	July	13,975,803
21	August	12,871,773
22	September	11,262,855
23	October	11,076,024
24	November	9,927,112
25	December	10,055,686
26	**Total (Sum L14:L25)**	**135,422,605**

STATE OF NORTH CAROLINA
UTILITIES COMMISSION
RALEIGH

DOCKET NO. E-7, SUB 1263

BEFORE THE NORTH CAROLINA UTILITIES COMMISSION

In the Matter of	)
Application of Duke Energy Carolinas, LLC	)
Pursuant to G.S. 62-133.2 and NCUC Rule	)
R8-55 Relating to Fuel and Fuel-Related	)
Charge Adjustments for Electric Utilities	)

JOHN A. VERDERAME CONFIDENTIAL EXHIBIT 3

FILED UNDER SEAL

MARCH 1, 2022