Rebecca J. Dulin
Senior Counsel

Duke Energy
1201 Main Street
Capital Center Building
Suite 1180
Columbia, SC 29201

o: 803.988.7130
f: 803.988.7123
Rebecca.Dulin@duke-energy.com

ELECTRONICALLY FILED - 2018 October 29 2:58 PM - SCPSC - Docket # 1989-9-E - Page 1 of 50

October 29, 2018

VIA ELECTRONIC FILING

The Honorable Jocelyn G. Boyd
Chief Clerk/Administrator
Public Service Commission of South Carolina
Post Office Drawer 11649
Columbia, South Carolina 29211

RE: Duke Energy Carolinas, LLC – Monthly Fuel Cost Report and Base Load Power Plant Performance Report
Docket No. 1989-9-E

Dear Ms. Boyd:

On October 26, 2018, Duke Energy Carolinas, LLC ("DEC") filed the September 2018 Fuel and Power Plant Performance Reports pursuant to the Commission's Orders in the above captioned docket. Enclosed for filing is a revised version of the September 2018 fuel report which includes the following revisions:

1. Schedule 2 has been revised to reflect the correct DERP incremental costs.
2. Schedule 4 has been revised to reflect the correct DERP incremental costs reflected on line 42: Incurred S.C Derp incremental expense and line 47: Total S.C. DERP incremental (over)/under recovery.

Should you have any questions regarding this matter, please do not hesitate to contact me at 803.988.7130.

Sincerely,

Rebecca J. Dulin

Enclosures

cc: Ms. Dawn Hipp, Office Regulatory Staff
Mr. Scott Elliott, Elliott & Elliott, P.A.
Ms. Nanette Edwards, Office Regulatory Staff
Mr. Jeff Nelson, Office Regulatory Staff
Michael Seaman-Huynh, Office of Regulatory Staff
Ms. Heather Shirley Smith, Duke Energy

Exhibit A
Schedule 1

DUKE ENERGY CAROLINAS
SUMMARY OF MONTHLY FUEL REPORT

Line No.		September 2018
1	Fuel and Fuel-related Costs excluding DERP incremental costs	$ 168,540,836
	MWH sales:	
2	Total system sales.	9,735,145
3	Less intersystem sales	237,387
4	Total sales less intersystem sales	9,497,758
5	Total fuel and fuel-related costs (¢/KWH) (line 1/line 4)	1.7745
6	Current fuel and fuel-related cost component (¢/KWH) (per Schedule 4, Line 2 + Line 10 + Line 18)	1.8453
	Generation Mix (MWH):	
	Fossil (by primary fuel type):	
7	Coal	2,167,417
8	Fuel Oil	7,266
9	Natural Gas - Combined Cycle	1,264,600
10	Natural Gas - Combustion Turbine	289,829
11	Natural Gas - Steam	3,557
12	Biogas	3,622
13	Total fossil	3,736,291
14	Nuclear 100%	4,722,758
15	Hydro - Conventional	221,091
16	Hydro - Pumped storage	(80,316)
17	Total hydro	140,775
18	Solar Distributed Generation	9,889
19	Total MWH generation	8,609,713
20	Less joint owners' portion - Nuclear	1,340,764
21	Less joint owners' portion - Combined Cycle	66,446
22	Adjusted total MWH generation	7,202,503

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

ELECTRONICALLY FILED - 2018 October 29 2:58 PM - SCPSC - Docket # 1989-9-E - Page 2 of 50

REVISED
Exhibit A
Schedule 2

DUKE ENERGY CAROLINAS
DETAILS OF FUEL AND FUEL-RELATED COSTS

Fuel and fuel-related costs:	September 2018
Steam Generation - Account 501	
0501110 coal consumed - steam	$ 66,201,664
0501310 fuel oil consumed - steam	710,258
0501330 fuel oil light-off - steam	431,774
Total Steam Generation - Account 501	67,343,696
Nuclear Generation - Account 518	
0518100 burnup of owned fuel	20,886,708
Other Generation - Account 547	
0547100, 0547124 natural gas consumed - Combustion Turbine	10,076,077
0547100, 0547124 natural gas capacity - Combustion Turbine	796,804
0547100 natural gas consumed - Steam	183,855
0547101 natural gas consumed - Combined Cycle	26,098,729
0547101 natural gas capacity - Combined Cycle	2,002,516
0547106 biogas consumed - Combined Cycle	68,491
0547200 fuel oil consumed - Combustion Turbine	15,990
Total Other Generation - Account 547	39,242,462
Purchased Power and Net Interchange - Account 555	
Fuel and fuel-related component of purchased power	44,059,510
Fuel and fuel-related component of DERP purchases	213
PURPA purchased power capacity	4,333,985
DERP purchased power capacity	72
Total Purchased Power and Net Interchange - Account 555	48,393,780
Less:	
Fuel and fuel-related costs recovered through intersystem sales	9,620,937
Fuel in loss compensation	52,945
Total Fuel Credits - Account 447	9,673,882
Environmental Costs	
0509000, 0557451 emission allowance expense	432
0502020, 0502030, 0502040, 0502082, 0548020 reagent expense	2,162,394
0502080, 0502083, 0502090, 0502150 sorbent expense	195,116
Emission allowance gains	-
Less reagents expense recovered through intersystem sales - Account 447	1,489
Less emissions expense recovered through intersystem sales - Account 447	8,377
Total Environmental Component of Recovery	2,348,076
Total Fuel and Fuel-related Costs excluding DERP incremental costs	$ 168,540,836
DERP incremental costs	878,934
Total Fuel and Fuel-related Costs to be Recovered	$ 169,419,770

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

ELECTRONICALLY FILED - 2018 October 29 2:58 PM - SCPSC - Docket # 1989-9-E - Page 3 of 50

DUKE ENERGY CAROLINAS
PURCHASED POWER AND INTERCHANGE
SOUTH CAROLINA

September 2018

Purchased Power	Total	Capacity	Non-capacity		
Marketers, Utilities, Other	$	$	mWh	Fuel $	Non-fuel $
Blue Ridge Electric Membership Corp.	$ 1,385,396	$ 741,204	24,076	$ 644,192	-
City of Kings Mountain	8,979	8,979	-	-	-
Haywood Electric	421,575	178,118	8,099	243,457	-
Macquarie Energy, LLC	10,945,413	-	252,470	10,945,413	-
NCEMC	321,198	4,398	3,840	316,800	-
NCMPA	1,264,248	-	36,955	1,264,248	-
NTE Carolinas LLC	1,238,180	-	33,940	1,238,180	-
Piedmont Electric Membership Corp.	669,613	354,080	11,520	315,533	-
Piedmont Municipal Power Agency	7,063	-	216	7,063	-
PJM Interconnection, LLC.	2,727,936	-	88,814	2,727,936	-
South Carolina Electric & Gas Company	299,000	-	6,000	299,000	-
Southern Company Services, Inc.	230,930	-	7,442	215,005	$ 15,925
Town of Dallas	584	584	-	-	-
Town of Forest City	19,856	19,856	-	-	-
DE Progress - Native Load Transfer	15,112,331	-	425,441	15,137,005	(24,674)
DE Progress - Native Load Transfer Benefit	400,217	-	-	400,217	-
DE Progress - Fees	(114,710)	-	-	(114,710)	-
Generation Imbalance	856,201	-	29,259	510,535	345,666
Energy Imbalance - Purchases	200,036	-	(1,810)	123,083	76,953
Energy Imbalance - Sales	(300,651)	-	-	(283,214)	(17,437)
	$ 35,693,395	**$ 1,307,219**	**926,262**	**$ 33,989,743**	**$ 396,433**
Act 236 PURPA Purchases					
Cherokee County Cogeneration Partners	$ 2,343,795	$ 630,852	53,199	$ 1,712,943	
Renewable Energy	7,270,486	2,451,979	92,574	4,818,507	
DERP	285	72	5	213	
Other Qualifying Facilities	3,834,808	1,251,154	52,573	2,471,326	112,328
	$ 13,449,374	**$ 4,334,057**	**198,351**	**$ 9,002,989**	**$ 112,328**
Other Purchases	**$ 1,146**	**$ -**	**32**	**$ -**	**$ 1,146**
Total Purchased Power	**$ 49,143,915**	**$ 5,641,276**	**1,124,645**	**$ 42,992,732**	**$ 509,907**
Interchanges In					
Other Catawba Joint Owners	7,678,521	-	672,934	4,495,551	3,182,970
WS Lee Joint Owner	1,188,231	-	44,282	1,006,806	181,425
Total Interchanges In	8,866,752	-	717,216	5,502,357	3,364,395
Interchanges Out					
Other Catawba Joint Owners	(5,520,174)	(129,880)	(477,377)	(3,190,786)	(2,199,508)
Catawba- Net Negative Generation	-	-	-	-	-
WS Lee Joint Owner	(1,451,422)	-	(46,950)	(1,244,580)	(206,842)
Total Interchanges Out	(6,971,596)	(129,880)	(524,327)	(4,435,366)	(2,406,350)
Net Purchases and Interchange Power	**$ 51,039,071**	**$ 5,511,396**	**1,317,534**	**$ 44,059,723**	**$ 1,467,952**

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

ELECTRONICALLY FILED - 2018 October 29 2:58 PM - SCPSC - Docket # 1989-9-E - Page 4 of 50

DUKE ENERGY CAROLINAS
INTERSYSTEM SALES*
SOUTH CAROLINA

SEPTEMBER 2018

Sales	Total $	Capacity $	Non-capacity mWh	Non-capacity Fuel $	Non-capacity Non-fuel $
Utilities:					
Market Based:					
NCMPA	$ 81,047	$ -	1,602	$ 73,904	$ 7,143
PJM Interconnection, LLC.	1,159	-	-	-	1,159
Other:					
Cargill-Alliant, LLC - Mitigation sales	-	-	-	-	-
DE Progress - Native Load Transfer Benefit	201,360	-	-	201,360	-
DE Progress - Native Load Transfer	8,433,723	-	209,943	8,380,137	53,586
Generation Imbalance	1,979,349	-	25,842	975,402	1,003,947
BPM Transmission	-	-			-
Total Intersystem Sales	**$ 10,696,638**	**$ -**	**237,387**	**$ 9,630,803**	**$ 1,065,835**

* Sales for resale other than native load priority.

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

ELECTRONICALLY FILED - 2018 October 29 2:58 PM - SCPSC - Docket # 1989-9-E - Page 5 of 50

Duke Energy Carolinas
(Over) / Under Recovery of Fuel Costs
September 2018

Line No.			Residential	Commercial	Industrial	Total
1	Actual System kWh sales	Input				9,497,758,228
2	DERP Net Metered kWh generation	Input				10,205,632
3	Adjusted System kWh sales	L1 + L2				9,507,963,860
4	Actual S.C. Retail kWh sales	Input	696,736,494	608,217,191	1,144,811,435	2,449,765,120
5	DERP Net Metered kWh generation	Input	6,281,293	2,347,049	1,577,290	10,205,632
6	Adjusted S.C. Retail kWh sales	L4 + L5	703,017,787	610,564,240	1,146,388,725	2,459,970,752
	Base fuel component of recovery: non-capacity					
7	Incurred System base fuel - non-capacity expense	Input				$159,059,176
8	Eliminate avoided fuel benefit of S.C. net metering	Input				330,116
9	Adjusted Incurred System base fuel - non-capacity expense	L7 + L8				$159,389,292
10	Adjusted Incurred System base fuel - non-capacity rate (¢/kWh)	L9 / L3 * 100				1.6764
11	S.C. Retail portion of adjusted incurred system expense	L6 * L10 / 100	$11,785,226	$10,235,357	$19,217,794	$41,238,377
12	Assign 100 % of Avoided Fuel Benefit of S.C net metering	Input	(127,695)	(93,368)	(109,053)	(330,116)
13	S.C. Retail portion of incurred system expense	L11 + L12	$11,657,531	$10,141,989	$19,108,741	$40,908,261
14	Billed base fuel - non-capacity rate (¢/kWh)	Input	1.7270	1.7270	1.7270	1.7270
15	Billed base fuel - non-capacity revenue	L4 * L14 / 100	$12,032,639	$10,503,911	$19,770,893	$42,307,443
16	DERP NEM incentive - fuel component	Input	(60,250)	(44,054)	(51,454)	(155,758)
17	Adjusted S.C. billed base fuel - non-capacity revenue	L15 + L16	$11,972,389	$10,459,857	$19,719,439	$42,151,685
		0				
18	S.C. base fuel - non-capacity (over)/under recovery [See footnote]	L17 - L13	($314,858)	($317,868)	($610,698)	($1,243,424)
19	Adjustment	Input	-	-	-	-
20	Total S.C. base fuel - non-capacity (over)/under recovery [See footnote]	L18 + L19	($314,858)	($317,868)	($610,698)	($1,243,424)
	Base fuel component of recovery: capacity					
21	Incurred base fuel - capacity rates by class (¢/kWh)	Input	0.1021	0.0856	0.0531	0.0751
22	Incurred S.C. base fuel - capacity expense	L4 * L21 / 100	$711,708	$520,387	$607,804	$1,839,899
23	Billed base fuel - capacity rates by class (¢/kWh)	Input	0.1183	0.0959	0.0623	0.0866
24	Billed S.C. base fuel - capacity revenue	L4 * L23 / 100	824,239	583,280	713,218	2,120,737
25	S.C. base fuel - capacity (over)/under recovery [See footnote]	L24 - L22	(112,531)	(62,893)	(105,414)	(280,838)
26	Adjustment	Input	(9,703)	3,775	5,928	-
27	Total S.C. base fuel - capacity (over)/under recovery [See footnote]	L25 + L26	($122,234)	($59,118)	($99,486)	($280,838)
	Environmental component of recovery					
28	Incurred environmental rates by class (¢/kWh)	Input	0.0336	0.0282	0.0175	0.0247
29	Incurred S.C. environmental expense	L4 * L28 / 100	$234,274	$171,296	$200,072	$605,642
30	Billed environmental rates by class (¢/kWh)	Input	0.0331	0.0415	0.0267	0.0322
31	Billed S.C. environmental revenue	L4 * L30 / 100	230,620	252,410	305,665	788,695
32	S.C. environmental (over)/under recovery [See footnote]	L31 - L29	3,654	(81,114)	(105,593)	(183,053)
33	Adjustment	Input	(3,528)	1,373	2,155	-
34	Total S.C. environmental (over)/under recovery [See footnote]	L32 + L33	$126	($79,741)	($103,438)	($183,053)

ELECTRONICALLY FILED - 2018 October 29 2:58 PM - SCPSC - Docket # 1989-9-E - Page 6 of 50

Duke Energy Carolinas
(Over) / Under Recovery of Fuel Costs
September 2018

Line No.			Residential	Commercial	Industrial	Total
	Distributed Energy Resource Program component of recovery: avoided costs					
35	Incurred S.C. DERP avoided cost rates by class (¢/kWh)	Input	0.0000	0.0000	0.0000	0.0000
36	Incurred S.C. DERP avoided cost expense	L4 * L35 / 100	$29	$21	$24	$74
37	Billed S.C. DERP avoided cost rates by class (¢/kWh)	Input	(0.0015)	(0.0005)	0.0001	(0.0005)
38	Billed S.C. DERP avoided cost revenue	L4 * L37 / 100	(10,451)	(3,041)	1,145	(12,347)
39	S.C. DERP avoided cost (over)/under recovery [See footnote]	L38 - L36	10,480	3,062	(1,121)	12,421
40	Adjustment	Input	-	-	-	-
41	Total S.C. DERP avoided cost (over)/under recovery [See footnote]	L39 + L40	$10,480	$3,062	($1,121)	$12,421
	Distributed Energy Resource Program component of recovery: incremental costs					
42	Incurred S.C. DERP incremental expense	Input	$339,988	$248,593	$290,353	$878,934
43	Billed S.C. DERP incremental rates ($/account)	Input	$0.06	$1.85	$90.87	
44	Billed S.C. DERP incremental revenue	Input	29,631	138,451	142,450	310,532
45	S.C. DERP incremental (over)/under recovery [See footnote]	L44 - L42	310,357	110,142	147,903	568,402
46	Adjustment	Input	(46,487)	(3,082)	(0)	(49,569)
47	Total S.C. DERP incremental (over)/under recovery [See footnote]	L45 + L46	$263,870	$107,060	$147,903	$518,833
48	Total S.C. Retail (over)/under recovery [See footnote]	L20 + L27 + L34 + L41 + L47	(162,616)	(346,605)	(666,840)	(1,176,061)

Year 2017-2018
Cumulative (over) / under recovery - BASE FUEL NON-CAPACITY

		Cumulative	Residential	Commercial	Industrial	Total Company
_/1	Balance ending May 2017	$7,670,353				
	June 2017 - actual	13,449,460	1,683,035	1,578,049	2,518,023	5,779,107
	July 2017 - actual	24,394,190	3,666,188	2,940,289	4,338,253	10,944,730
	August 2017 - actual	31,753,031	2,416,417	1,967,342	2,975,082	7,358,841
	September 2017 - actual	32,960,962	385,770	328,438	493,723	1,207,931
_/2	October 2017 - actual	35,054,781	580,506	567,122	946,191	2,093,819
_/2	November 2017 - actual	37,180,032	572,446	559,008	993,797	2,125,251
	December 2017 - actual	41,488,217	1,426,729	1,094,030	1,787,426	4,308,185
	January 2018 - actual	67,352,774	10,683,542	6,389,946	8,791,069	25,864,557
	February 2018 - actual	61,497,389	(1,980,001)	(1,493,552)	(2,381,832)	(5,855,385)
_/3	March 2018 - actual	64,558,373	839,488	844,887	1,376,609	3,060,984
_/3	April 2018 - actual	60,837,441	(955,646)	(1,003,225)	(1,762,061)	(3,720,932)
	May 2018 - actual	64,562,411	969,780	1,002,808	1,752,382	3,724,970
	June 2018 - actual	68,657,780	1,313,984	1,104,598	1,676,787	4,095,369
	July 2018 - actual	74,109,474	1,918,193	1,509,942	2,023,559	5,451,694
	August 2018 - actual	79,557,481	1,778,046	1,439,863	2,230,098	5,448,007
	September 2018 - actual	78,314,057	(314,858)	(317,868)	(610,698)	(1,243,424)

ELECTRONICALLY FILED - 2018 October 29 2:58 PM - SCPSC - Docket # 1989-9-E - Page 7 of 50

ELECTRONICALLY FILED - 2018 October 29 2:58 PM - SCPSC - Docket # 1989-9-E - Page 8 of 50

Duke Energy Carolinas
(Over) / Under Recovery of Fuel Costs
September 2018

Line No.			Residential	Commercial	Industrial	Total

Year 2017-2018

	Cumulative (over) / under recovery - BASE FUEL CAPACITY	**Cumulative**	Residential	Commercial	Industrial	Total Company
_/1	Beginning Balance	792,577				
	June 2017 - actual	570,796	(190,890)	(14,544)	(16,347)	(221,781)
	July 2017 - actual	1,278,825	141,109	267,030	299,890	708,029
	August 2017 - actual	2,002,267	153,106	270,732	299,604	723,442
	September 2017 - actual	2,114,516	(66,180)	80,918	97,511	112,249
_/2	October 2017 - actual	2,645,632	219,532	152,698	158,886	531,116
_/2	November 2017 - actual	2,276,167	(64,714)	(131,148)	(173,603)	(369,465)
	December 2017 - actual	1,539,233	(324,148)	(201,363)	(211,423)	(736,934)
	January 2018 - actual	499,785	(650,749)	(239,010)	(149,689)	(1,039,448)
	February 2018 - actual	(225,601)	(378,572)	(186,620)	(160,194)	(725,386)
_/3	March 2018 - actual	(590,072)	(143,790)	(116,996)	(103,685)	(364,471)
	April 2018 - actual	(687,545)	(21,209)	(42,459)	(33,805)	(97,473)
	May 2018 - actual	(910,631)	(27,234)	(93,938)	(101,914)	(223,086)
	June 2018 - actual	(1,231,472)	(168,835)	(109,798)	(42,208)	(320,841)
	July 2018 - actual	(705,685)	97,201	127,214	301,372	525,787
	August 2018 - actual	(167,087)	148,770	144,110	245,718	538,598
	September 2018 - actual	(447,925)	(122,234)	(59,118)	(99,486)	(280,838)

Year 2017-2018

	Cumulative (over) / under recovery - ENVIRONMENTAL	**Cumulative**	Residential	Commercial	Industrial	Total Company
_/1	Beginning Balance	(2,985,690)				
	June 2017 - actual	(2,638,275)	89,738	109,641	148,036	347,415
	July 2017 - actual	(1,993,245)	197,091	200,248	247,691	645,030
	August 2017 - actual	(1,348,280)	197,709	199,702	247,554	644,965
	September 2017 - actual	(978,949)	93,949	117,186	158,196	369,331
_/2	October 2017 - actual	(884,259)	47,728	14,743	32,219	94,690
_/2	November 2017 - actual	(1,043,811)	14,131	(77,957)	(95,726)	(159,552)
_/4	December 2017 - actual	(1,256,534)	(39,019)	(85,650)	(88,054)	(212,723)
	January 2018 - actual	(942,904)	105,548	69,388	138,694	313,630
	February 2018 - actual	(1,173,641)	(64,654)	(89,012)	(77,071)	(230,737)
	March 2018 - actual	(1,291,975)	997	(62,440)	(56,891)	(118,334)
	April 2018 - actual	(1,476,169)	(16,754)	(81,283)	(86,157)	(184,194)
	May 2018 - actual	(1,461,873)	75,807	(30,869)	(30,642)	14,296
	June 2018 - actual	(1,205,989)	146,842	32,175	76,867	255,884
	July 2018 - actual	(1,154,407)	48,770	(30,136)	32,948	51,582
	August 2018 - actual	(1,205,112)	23,971	(50,943)	(23,733)	(50,705)
	September 2018 - actual	(1,388,165)	126	(79,741)	(103,438)	(183,053)

Duke Energy Carolinas
(Over) / Under Recovery of Fuel Costs
September 2018

Line No.			Residential	Commercial	Industrial	Total
	Year 2017-2018					
	Cumulative (over) / under recovery - DERP AVOIDED COSTS	**Cumulative**	Residential	Commercial	Industrial	Total Company
_/1	Beginning Balance	(235,095)				
	June 2017 - actual	(205,588)	12,082	6,229	11,196	29,507
	July 2017 - actual	(174,160)	14,451	6,265	10,712	31,428
	August 2017 - actual	(146,480)	12,617	5,182	9,881	27,680
	September 2017 - actual	(118,095)	12,017	5,917	10,451	28,385
_/2	October 2017 - actual	(100,558)	8,189	3,920	5,428	17,537
_/2	November 2017 - actual	(92,854)	6,215	2,179	(690)	7,704
	December 2017 - actual	(83,147)	8,225	2,179	(697)	9,707
	January 2018 - actual	(68,540)	12,546	2,601	(540)	14,607
	February 2018 - actual	(57,709)	9,208	2,310	(687)	10,831
	March 2018 - actual	(44,108)	8,786	3,630	1,185	13,601
	April 2018 - actual	(31,990)	8,181	3,283	654	12,118
	May 2018 - actual	(24,302)	6,186	2,253	(751)	7,688
	June 2018 - actual	(13,250)	9,165	2,683	(796)	11,052
	July 2018 - actual	(878)	10,304	2,796	(728)	12,372
	August 2018 - actual	10,665	9,627	2,710	(794)	11,543
	September 2018 - actual	23,086	10,480	3,062	(1,121)	12,421
	Year 2017-2018					
	Cumulative (over) / under recovery - DERP INCREMENTAL COSTS	**Cumulative**	Residential	Commercial	Industrial	Total Company
_/1	Balance ending May 2017	(4,214,128)				
	June 2017 - actual	(4,215,207)	(77,988)	29,892	47,017	(1,079)
	July 2017 - actual	(4,225,083)	(84,042)	27,557	46,609	(9,876)
	August 2017 - actual	(4,177,526)	(59,126)	43,515	63,168	47,557
	September 2017 - actual	(4,162,117)	(73,225)	34,386	54,248	15,409
_/2	October 2017 - actual	(4,033,395)	65,300	25,710	37,712	128,722
_/2	November 2017 - actual	(3,771,761)	209,966	23,706	27,962	261,634
	December 2017 - actual	(3,436,123)	241,155	43,757	50,726	335,638
	January 2018 - actual	(3,072,072)	231,174	53,349	79,528	364,051
	February 2018 - actual	(2,677,941)	242,564	61,277	90,290	394,131
_/3	March 2018 - actual	(2,290,955)	240,021	59,723	87,242	386,986
_/3	April 2018 - actual	(1,466,181)	414,238	182,013	228,523	824,774
	May 2018 - actual	(961,616)	285,918	91,952	126,695	504,565
	June 2018 - actual	(445,234)	289,414	95,385	131,583	516,382
	July 2018 - actual	89,934	297,559	99,538	138,071	535,168
	August 2018 - actual	648,125	306,707	106,165	145,319	558,191
	September 2018 - actual	1,166,958	263,870	107,060	147,903	518,833

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 May 2017 ending balance reflects adjustments pursuant to the docket no. 2017-3-E directive. The total adjustment of $(243,702) was made to the May ending balance
_/2 Reflects a prorated rate and prorated allocation factor for periods in which the approved rates changed.
_/3 Includes prior period adjustments.
_/4 December 2017 cumulative (over)/under recovery updated to reflect accurate balance as filed.

ELECTRONICALLY FILED - 2018 October 29 2:58 PM - SCPSC - Docket # 1989-9-E - Page 9 of 50

ELECTRONICALLY FILED - 2018 October 29 2:58 PM - SCPSC - Docket # 1989-9-E - Page 10 of 50

DUKE ENERGY CAROLINAS
FUEL AND FUEL RELATED COST REPORT
SEPTEMBER 2018

Description	Allen Steam	Belews Creek Steam	Buck CC	Catawba Nuclear	Cliffside Steam	Dan River CC	Lee CC	Lee Steam/CT	Lincoln CT	Marshall Steam	McGuire Nuclear	Mill Creek CT	Oconee Nuclear	Rockingham CT	Current Month	Total 12 ME September 2018
Cost of Fuel Purchased ($)																
Coal	$3,925,060	$19,163,415			$16,076,027					$24,521,509					$63,686,011	$665,654,015
Oil	309,376	495,151	-		175,043	-	-	342,223	-	137,415		-		228,435	1,687,642	50,070,440
Gas - CC			$11,068,258			$7,032,782	$11,462,690								29,563,730	355,161,434
Gas - CT								71,165	$159,906			$1,557,135		$9,084,675	10,872,880	95,350,023
Gas - Steam								183,855							183,855	2,512,580
Biogas			-			377,464	-								377,464	3,222,267
Total	$4,234,436	$19,658,566	$11,068,258		$16,251,070	$7,410,246	$11,462,690	$597,243	$159,906	$24,658,924		$1,557,135		$9,313,110	$106,371,583	$1,171,970,759
Average Cost of Fuel Purchased (¢/MBTU)																
Coal	338.21	316.98			353.68	-				313.10					325.21	313.71
Oil	1,694.96	1,398.73			1,659.41			1,714.11	-	1,741.08		-		1,728.47	1,603.08	1,709.53
Gas - CC			327.90			328.17	327.78								328.00	390.29
Gas - CT								363.17	340.21			326.77		331.28	330.94	341.74
Gas - Steam								-							-	349.92
Biogas			-			1,468.16	-								1,468.16	1,619.11
Weighted Average	359.22	323.28	327.90		356.70	341.68	327.78	660.27	340.21	314.54		326.77		337.98	331.72	349.91
Cost of Fuel Burned ($)																
Coal	$4,694,539	$18,969,548			$15,681,436	-	-	-		$26,856,141					$66,201,664	$685,906,312
Oil - CC			-			-	-								-	-
Oil - Steam/CT	299,779	541,114			174,023			4,315	$9,693	127,117		-		-	1,158,023	42,824,142
Gas - CC			$11,068,258			$7,032,782	$11,462,690								29,563,730	355,161,434
Gas - CT								$71,165	159,906			$1,557,135		$9,084,675	10,872,880	95,350,023
Gas - Steam								183,855							183,855	2,512,580
Biogas			-			377,464	-								377,464	3,222,267
Nuclear				$10,412,657							$7,960,405		$10,922,283		29,295,345	381,246,566
Total	$4,994,318	$19,510,662	$11,068,258	$10,412,657	$15,855,459	$7,410,246	$11,462,690	$259,335	$169,598	$26,983,257	$7,960,405	$1,557,135	$10,922,283	$9,084,675	$137,652,961	$1,566,223,324
Average Cost of Fuel Burned (¢/MBTU)																
Coal	343.74	314.84			323.06			-		314.44					318.50	310.04
Oil - CC															-	-
Oil - Steam/CT	1,647.14	1,661.79			1,649.82			1,698.70	1,519.27	1,610.50		-		-	1,652.08	1,579.51
Gas - CC			327.90			328.17	327.78								328.00	390.29
Gas - CT								363.17	340.21			326.77		331.28	330.94	341.74
Gas - Steam								-							-	349.92
Biogas			-			1,468.16	-								1,468.16	1,619.11
Nuclear				61.68							63.88		57.67		60.68	62.40
Weighted Average	360.89	322.08	327.90	61.68	325.94	341.68	327.78	366.59	356.00	315.64	63.88	326.77	57.67	331.28	168.87	164.06
Average Cost of Generation (¢/kWh)								178.28	237.42							
Coal	3.36	3.03			3.11	-	-	-	-	2.99					3.05	2.91
Oil - CC			-			-	-								-	-
Oil - Steam/CT	15.76	15.95			15.93	-	-	17.83	23.74	15.61		-		-	15.94	18.57
Gas - CC			2.38			2.33	2.30								2.34	2.80
Gas - CT								3.81	5.36			4.07		3.68	3.75	3.82
Gas - Steam								5.17	-						5.17	4.67
Biogas			-			10.42	-								10.42	11.63
Nuclear				0.63							0.65		0.60		0.62	0.63
Weighted Average	3.53	3.10	2.38	0.63	3.14	2.43	2.30	4.76	5.61	3.00	0.65	4.07	0.60	3.68	1.60	1.54

ELECTRONICALLY FILED - 2018 October 29 2:58 PM - SCPSC - Docket # 1989-9-E - Page 11 of 50

DUKE ENERGY CAROLINAS
FUEL AND FUEL RELATED COST REPORT
SEPTEMBER 2018

Description	Allen	Belews Creek	Buck	Catawba	Cliffside	Dan River	Lee	Lee	Lincoln	Marshall	McGuire	Mill Creek	Oconee	Rockingham	Current Month	Total 12 ME September 2018
	Steam	Steam	CC	Nuclear	Steam	CC	CC	Steam/CT	CT	Steam	Nuclear	CT	Nuclear	CT		
Burned MBTU's																
Coal	1,365,706	6,025,104			4,853,959			-		8,540,809					20,785,578	221,231,787
Oil - CC															-	-
Oil - Steam/CT	18,200	32,562			10,548			254	638	7,893		-		-	70,095	2,711,228
Gas - CC			3,375,544			2,143,033	3,497,039								9,015,616	90,998,341
Gas - CT								19,595	47,002			476,529		2,742,331	3,285,457	27,901,408
Gas - Steam								50,894							50,894	718,050
Biogas			-			25,710	-								25,710	199,015
Nuclear				16,880,687							12,461,488		18,937,811		48,279,986	610,930,127
Total	1,383,906	6,057,666	3,375,544	16,880,687	4,864,507	2,168,743	3,497,039	70,743	47,640	8,548,702	12,461,488	476,529	18,937,811	2,742,331	81,513,336	954,689,956
Net Generation (mWh)																
Coal	139,554	626,618			504,087					897,157					2,167,417	23,555,961
Oil - CC															-	-
Oil - Steam/CT	1,903	3,392			1,092	-	-	24	41	815		-		-	7,266	230,597
Gas - CC			464,220			301,913	498,467	-							1,264,600	12,684,386
Gas - CT								1,867	2,981			38,258		246,723	289,829	2,498,671
Gas - Steam								3,557							3,557	53,770
Biogas			-			3,622	-								3,622	27,699
Nuclear 100%				1,660,307							1,227,849		1,834,602		4,722,758	60,691,368
Hydro (Total System)															140,775	1,750,268
Solar (Total System)															9,889	136,610
Total	141,457	630,010	464,220	1,660,307	505,179	305,535	498,467	5,448	3,022	897,972	1,227,849	38,258	1,834,602	246,723	8,609,713	101,629,330
Cost of Reagents Consumed ($)																
Ammonia		$110,388	$17,067		$36,219	$11,591	$14,911								$190,176	$3,695,241
Limestone	$171,322	504,779			592,462					$596,420					1,864,982	19,779,099
Sorbents	-	134,491								60,625					195,116	2,420,063
Urea	-									109,135					109,135	1,053,511
Re-emission Chemical		-													-	(35,383)
Dibasic Acid	-														-	-
Activated Carbon	-									-					-	136,318
Total	$171,322	$749,657	$17,067		628,681	$11,591	$14,911			$766,181					$2,359,409	$27,048,849

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

DUKE ENERGY CAROLINAS
FUEL AND FUEL RELATED CONSUMPTION AND INVENTORY REPORT
SEPTEMBER 2018

Description	Allen	Belews Creek	Buck	Cliffside	Dan River	Lee	Lee	Lincoln	Marshall	Mill Creek	Rockingham	Current Month	Total 12 ME September 2018
	Steam	Steam	CC	Steam	CC	CC	Steam/CT	CT	Steam	CT	CT		
Coal Data:													
Beginning balance	260,574	650,010		515,632			-		696,971			2,123,187	2,433,383
Tons received during period	47,837	240,841		188,356					306,503			783,537	8,603,694
Inventory adjustments	(157)	0		0			-		0			(157)	18,638
Tons burned during period	61,062	240,030		198,756			-		341,566			841,414	8,990,561
Ending balance	247,192	650,821		505,232			-		661,908			2,065,153	2,065,153
MBTUs per ton burned	22.37	25.10		24.42			-		25.00			24.70	24.61
Cost of ending inventory ($/ton)	76.93	79.03		78.90			-		78.63			78.62	78.62
Oil Data:													
Beginning balance	89,035	201,158	-	239,547	-	-	580,670	9,920,911	265,865	4,291,381	3,305,520	18,894,088	17,213,626
Gallons received during period	133,137	213,152	-	75,115	-	-	145,732	-	59,236	75,401	96,466	798,239	21,970,975
Miscellaneous adjustments	(7,702)	(20,639)	-	(7,987)	-	-	-	-	-	-	-	(45,319)	(339,965)
Gallons burned during period	131,360	236,778		76,550	-	-	1,854	4,625	57,126	-	-	499,302	19,696,932
Ending balance	83,110	156,893	-	230,125	-	-	724,548	9,916,286	267,975	4,366,782	3,401,986	19,147,705	19,147,705
Cost of ending inventory ($/gal)	2.29	2.29	-	2.27	-	-	2.33	2.10	2.23	2.47	2.17	2.21	2.21
Natural Gas Data:													
Beginning balance													
MCF received during period			3,262,069		2,100,776	3,415,694	68,913	45,825		463,400	2,647,946	12,004,622	116,397,491
MCF burned during period			3,262,069		2,100,776	3,415,694	68,913	45,825		463,400	2,647,946	12,004,622	116,397,491
Ending balance													
Biogas Data:													
Beginning balance													
MCF received during period			-		25,336	-						25,336	194,285
MCF burned during period			-		25,336	-						25,336	194,285
Ending balance													
Limestone Data:													
Beginning balance	31,463	39,754		28,527					53,120			152,865	158,608
Tons received during period	-	13,427		15,123					12,446			40,997	472,898
Inventory adjustments	-	-		-					-			-	13,347
Tons consumed during period	4,179	13,206		13,060					17,189			47,634	498,626
Ending balance	27,284	39,976		30,591					48,377			146,228	146,228
Cost of ending inventory ($/ton)	41.00	34.76		37.66					34.70			36.61	36.61

	Qtr Ending September 2018	Total 12 ME September 2018
Ammonia Data:		
Beginning balance	1,522	1,025
Tons received during period	902	4,790
Tons consumed during period	1,111	4,502
Ending balance	1,313	1,313
Cost of ending inventory ($/ton)	518.99	518.99

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.

Exhibit A
Schedule 6

ELECTRONICALLY FILED - 2018 October 29 2:58 PM - SCPSC - Docket # 1989-9-E - Page 12 of 50

ELECTRONICALLY FILED - 2018 October 29 2:58 PM - SCPSC - Docket # 1989-9-E - Page 13 of 50

DUKE ENERGY CAROLINAS

ANALYSIS OF COAL PURCHASED

SEPTEMBER 2018

STATION	TYPE	QUANTITY OF TONS DELIVERED	DELIVERED COST	DELIVERED COST PER TON
ALLEN	SPOT	11,923	$ 1,006,566	$ 84
	CONTRACT	35,915	2,867,014	79.83
	ADJUSTMENTS	-	51,480	-
	TOTAL	47,837	3,925,060	82.05
BELEWS CREEK	SPOT	30,673	2,566,645	83.68
	CONTRACT	210,168	16,425,376	78.15
	ADJUSTMENTS	-	171,394	-
	TOTAL	240,841	19,163,415	79.57
CLIFFSIDE	SPOT	61,453	5,746,436	93.51
	CONTRACT	126,904	10,041,264	79.12
	ADJUSTMENTS	-	288,328	-
	TOTAL	188,356	16,076,027	85.35
MARSHALL	SPOT	114,811	9,506,873	82.80
	CONTRACT	191,693	14,523,205	75.76
	ADJUSTMENTS	-	491,431	-
	TOTAL	306,503	24,521,509	80.00
ALL PLANTS	SPOT	218,860	18,826,520	86.02
	CONTRACT	564,680	43,856,859	77.67
	ADJUSTMENTS	-	1,002,633	-
	TOTAL	783,537	$ 63,686,011	$ 81.28

DUKE ENERGY CAROLINAS

ANALYSIS OF COAL QUALITY RECEIVED

SEPTEMBER 2018

STATION	PERCENT MOISTURE	PERCENT ASH	HEAT VALUE	PERCENT SULFUR
ALLEN	6.28	12.67	12,130	0.89
BELEWS CREEK	6.34	10.07	12,551	1.79
CLIFFSIDE	8.80	10.31	12,066	1.69
MARSHALL	6.24	8.99	12,776	2.06

ELECTRONICALLY FILED - 2018 October 29 2:58 PM - SCPSC - Docket # 1989-9-E - Page 14 of 50

ELECTRONICALLY FILED - 2018 October 29 2:58 PM - SCPSC - Docket # 1989-9-E - Page 15 of 50

DUKE ENERGY CAROLINAS
ANALYSIS OF OIL PURCHASED
SEPTEMBER 2018

	ALLEN	BELEWS CREEK	CLIFFSIDE
VENDOR	HighTowers	HighTowers	HighTowers
SPOT/CONTRACT	Contract	Contract	Contract
SULFUR CONTENT %	0	0	0
GALLONS RECEIVED	133,137	213,152	75,115
TOTAL DELIVERED COST	$ 309,376	$ 495,151	$ 175,043
DELIVERED COST/GALLON	$ 2.32	$ 2.32	$ 2.33
BTU/GALLON	138,550	137,520	137,798

	LEE	MARSHALL
VENDOR	HighTowers	HighTowers
SPOT/CONTRACT	Contract	Contract
SULFUR CONTENT %	0	0
GALLONS RECEIVED	145,732	59,236
TOTAL DELIVERED COST	$ 342,223	$ 137,415
DELIVERED COST/GALLON	$ 2.35	$ 2.32
BTU/GALLON	137,000	138,160

	MILL CREEK	ROCKINGHAM
VENDOR	HighTowers	HighTowers
SPOT/CONTRACT	Contract	Contract
SULFUR CONTENT %	0	0
GALLONS RECEIVED	75,401	96,466
TOTAL DELIVERED COST	$ -	$ 228,435
DELIVERED COST/GALLON	$ -	$ 2.37
BTU/GALLON	-	137,000

Duke Energy Carolinas
Power Plant Performance Data
Twelve Month Summary
October, 2017 - September, 2018
Nuclear Units

Unit Name	Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Oconee 1	7,481,214	847	100.83	99.40
Oconee 2	6,897,895	848	92.86	91.70
Oconee 3	6,962,288	859	92.52	92.12
McGuire 1	9,897,083	1,158	97.57	95.07
McGuire 2	9,893,937	1,158	97.53	95.51
Catawba 1	10,280,297	1,160	101.17	99.99
Catawba 2	9,278,654	1,150	92.10	91.84

ELECTRONICALLY FILED - 2018 October 29 2:58 PM - SCPSC - Docket # 1989-9-E - Page 16 of 50

ELECTRONICALLY FILED - 2018 October 29 2:58 PM - SCPSC - Docket # 1989-9-E - Page 17 of 50

Duke Energy Carolinas
Power Plant Performance Data
Twelve Month Summary
October, 2017 through September, 2018
Combined Cycle Units

Unit Name		Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Buck CC	11	1,476,921	202	83.41	89.35
Buck CC	12	1,486,728	202	84.05	90.06
Buck CC	ST10	2,274,287	313	82.89	96.95
Buck CC	Block Total	5,237,936	717	83.36	92.82
Dan River CC	8	1,415,602	198	81.83	84.58
Dan River CC	9	1,383,728	198	79.98	83.32
Dan River CC	ST7	2,137,001	320	76.23	91.27
Dan River CC	Block Total	4,936,331	715	78.82	87.22
WS Lee CC	11	709,811	223	72.47	79.58
WS Lee CC	12	778,108	223	79.45	83.23
WS Lee CC	ST10	979,056	337	66.15	81.99
WS Lee CC	Block Total	2,466,975	783	71.74	81.66

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.

ELECTRONICALLY FILED - 2018 October 29 2:58 PM - SCPSC - Docket # 1989-9-E - Page 18 of 50

Duke Energy Carolinas
Power Plant Performance Data
Twelve Month Summary
October, 2017 through September, 2018

Baseload Steam Units

Unit Name	Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Belews Creek 1	3,725,254	1,110	38.31	74.85
Belews Creek 2	4,331,737	1,110	44.55	83.13
Marshall 3	3,551,590	658	61.62	90.02
Marshall 4	3,847,948	660	66.56	88.01

Notes:

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

ELECTRONICALLY FILED - 2018 October 29 2:58 PM - SCPSC - Docket # 1989-9-E - Page 19 of 50

Duke Energy Carolinas
Power Plant Performance Data
Twelve Month Summary
October, 2017 through September, 2018

Intermediate Steam Units

Unit Name	Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Cliffside 6	4,416,091	844	59.73	79.27
Marshall 1	787,879	380	23.67	71.14
Marshall 2	875,819	380	26.31	80.14

Notes:

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

ELECTRONICALLY FILED - 2018 October 29 2:58 PM - SCPSC - Docket # 1989-9-E - Page 20 of 50

Duke Energy Carolinas
Power Plant Performance Data
Twelve Month Summary
October, 2017 through September, 2018
Other Cycling Steam Units

Unit Name		Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Operating Availability (%)
Allen	1	76,853	167	5.25	83.64
Allen	2	88,986	167	6.08	79.30
Allen	3	175,714	270	7.43	83.08
Allen	4	169,441	271	7.14	84.64
Allen	5	292,491	263	12.69	79.81
Cliffside	5	1,309,563	549	27.25	64.46
Lee	3	53,770	173	3.55	36.97

Notes:

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

ELECTRONICALLY FILED - 2018 October 29 2:58 PM - SCPSC - Docket # 1989-9-E - Page 21 of 50

Duke Energy Carolinas
Power Plant Performance Data
Twelve Month Summary
October, 2017 through September, 2018
Combustion Turbine Stations

Station Name	Net Generation (mWh)	Capacity Rating (mW)	Operating Availability (%)
Lee CT	105,615	93	84.00
Lincoln CT	91,116	1,546	96.76
Mill Creek CT	166,593	736	98.13
Rockingham CT	2,272,538	895	84.61

Notes:

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

Duke Energy Carolinas
Power Plant Performance Data

Twelve Month Summary
October, 2017 through September, 2018
Hydroelectric Stations

Station Name	Net Generation (mWh)	Capacity Rating (mW)	Operating Availability (%)
Conventional Hydroelectric Stations:			
Bear Creek	29,712	9.5	64.51
Bridgewater	94,513	31.5	98.41
Bryson	4,991	0.9	85.00
Cedar Cliff	25,483	6.8	92.39
Cedar Creek	138,377	45.0	82.31
Cowans Ford	230,011	324.0	61.25
Dearborn	189,000	42.0	93.27
Fishing Creek	159,475	50.0	93.34
Franklin	3,717	1.0	59.64
Gaston Shoals	12,484	4.9	87.31
Great Falls	-51	12.0	100.00
Keowee	83,161	152.0	98.87
Lookout Shoals	137,538	27.0	99.27
Mission	5,451	1.8	51.52
Mountain Island	157,762	62.0	95.32
Nantahala	242,563	50.0	99.66
Ninety-Nine Islands	71,367	13.8	91.20
Oxford	72,975	40.0	30.03
Queens Creek	3,849	1.4	96.82
Rhodhiss	101,515	33.4	94.77
Rocky Creek	-83	3.0	0.00
Tennessee Creek	42,956	9.8	93.17
Thorpe	93,271	19.7	94.30
Tuckasegee	5,624	2.5	87.20
Tuxedo	27,101	6.4	91.90
Wateree	238,104	85.0	80.55
Wylie	153,466	72.0	63.91
Pumped Storage Hydroelectric Stations:			
Gross Generation			
Bad Creek	1,414,238	1,360.0	65.84
Jocassee	1,231,832	780.0	94.43
Energy for Pumping			
Bad Creek	-1,806,551		
Jocassee	-1,413,583		
Net Generation			
Bad Creek	-392,313		
Jocassee	-181,751		

Notes:

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

ELECTRONICALLY FILED - 2018 October 29 2:58 PM - SCPSC - Docket # 1989-9-E - Page 22 of 50

ELECTRONICALLY FILED - 20 ober 29 2:58 PM - SCPSC - Docket # 1989-9-E - Page 23 of 50

Duke Energy Carolinas
Power Plant Performance Data
Twelve Month Summary
October 2017 through September 2018
Pre-commercial Combined Cycle Units

Note: The Power Plant Performance Data reports are limited to capturing data beginning the first month a station is in commercial operation. During the months identified, Lee CC produced pre-commercial generation.

Unit Name		Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
November 2017					
Lee	11	14	n/a	n/a	n/a
Lee	12	1,090	n/a	n/a	n/a
Lee	ST10	0	n/a	n/a	n/a
Lee	Block Total	1,104	n/a	n/a	n/a
December 2017					
Lee	11	2,384	n/a	n/a	n/a
Lee	12	584	n/a	n/a	n/a
Lee	ST10	0	n/a	n/a	n/a
Lee	Block Total	2,968	n/a	n/a	n/a
January 2018					
Lee	11	-10	n/a	n/a	n/a
Lee	12	-11	n/a	n/a	n/a
Lee	ST10	0	n/a	n/a	n/a
Lee	Block Total	-21	n/a	n/a	n/a
February 2018					
Lee	11	-1,575	n/a	n/a	n/a
Lee	12	-1,120	n/a	n/a	n/a
Lee	ST10	0	n/a	n/a	n/a
Lee	Block Total	-2,695	n/a	n/a	n/a
March 2018					
Lee	11	25,973	n/a	n/a	n/a
Lee	12	14,939	n/a	n/a	n/a
Lee	ST10	-1,349	n/a	n/a	n/a
Lee	Block Total	39,563	n/a	n/a	n/a
April 1 - 4					
Lee	11	14,158	n/a	n/a	n/a
Lee	12	6,771	n/a	n/a	n/a
Lee	ST10	8,994	n/a	n/a	n/a
Lee	Block Total	29,923	n/a	n/a	n/a
Total		70,843			

ELECTRONICALLY FILED - 2018 October 29 2:58 PM - SCPSC - Docket # 1989-9-E - Page 24 of 50

Duke Energy Carolinas
Base Load Power Plant Performance Review Plan

Period: September, 2018

Station	Unit	Date of Outage	Duration of Outage	Scheduled / Unscheduled	Cause of Outage	Reason Outage Occurred	Remedial Action Taken
Oconee	1	None					
	2	None					
	3	None					
McGuire	1	None					
	2	09/15/2018 - 10/01/2018	380.00	Scheduled	End-of-cycle 25 refueling outage	Planned refueling outage	Completed refueling outage
Catawba	1	None					
	2	None					

Duke Energy Carolinas
Base Load Power Plant
Performance Review Plan
September 2018

Belews Creek Station

Unit	Duration of Outage	Type of Outage	Cause of Outage		Reason Outage Occurred	Remedial Action Taken
2	9/8/2018 3:00:00 AM To 10/1/2018 12:00:00 AM	Sch	4520	Gen. Stator Windings; Bushings; And Terminals	Unit 2 planned fall outage.	

Buck Combined Cycle Station

No Outages at Baseload Units During the Month.

Dan River Combined Cycle Station

Unit	Duration of Outage	Type of Outage	Cause of Outage		Reason Outage Occurred	Remedial Action Taken
8	9/7/2018 10:47:00 PM To 9/12/2018 11:59:00 PM	Sch	5261	Gas Turbine Cleaning	Fall 2018 GMS outage.	
8	9/13/2018 12:00:00 AM To 9/14/2018 11:31:00 AM	Unsch	6110	Hp Steam Piping Up To Turbine Stop Valves>600 Psig	Forced Outage due to main steam piping leak on 09SM-MOV-0010.	
9	9/7/2018 11:11:00 PM To 9/12/2018 11:59:00 PM	Sch	5261	Gas Turbine Cleaning	Fall 2018 GMS outage.	
9	9/13/2018 12:00:00 AM To 9/14/2018 12:29:00 PM	Unsch	6110	Hp Steam Piping Up To Turbine Stop Valves>600 Psig	Forced outage due to main steam piping leak on 09SM-MOV-0010.	
ST7	9/7/2018 10:27:00 PM To 9/12/2018 11:59:00 PM	Sch	5261	Gas Turbine Cleaning	Fall 2018 GMS outage.	
ST7	9/13/2018 12:00:00 AM To 9/14/2018 1:15:00 PM	Unsch	6110	Hp Steam Piping Up To Turbine Stop Valves>600 Psig	Forced outage due to main steam piping leak on 09SM-MOV-0010.	

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.

ELECTRONICALLY FILED - 2018 October 29 2:58 PM - SCPSC - Docket # 1989-9-E - Page 25 of 50

Duke Energy Carolinas
Base Load Power Plant
Performance Review Plan
September 2018

Marshall Station

Unit	Duration of Outage	Type of Outage	Cause of Outage		Reason Outage Occurred	Remedial Action Taken
3	9/17/2018 3:00:00 AM To 9/17/2018 1:12:00 PM	Unsch	9910	Maintenance Error	MFT- Loss of ID fans control power during battery charger maintenance.	

WS Lee Combined Cycle

Unit	Duration of Outage	Type of Outage	Cause of Outage		Reason Outage Occurred	Remedial Action Taken
WS Lee CC ST 10	9/29/2018 7:00:00 AM To 10/1/2018 12:00:00 AM	Sch	4401	Inspection	Maintenance outage.	
WS Lee CC GT 11	9/29/2018 7:00:00 AM To 10/1/2018 12:00:00 AM	Sch	5274	General Gas Turbine Unit Inspection	Maintenance outage.	
WS Lee CC GT 12	9/29/2018 7:00:00 AM To 10/1/2018 12:00:00 AM	Sch	5274	General Gas Turbine Unit Inspection	Maintenance outage.	

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.

ELECTRONICALLY FILED - 2018 October 29 2:58 PM - SCPSC - Docket # 1989-9-E - Page 26 of 50

Duke Energy Carolinas
Base Load Power Plant Performance Review Plan

September 2018
Oconee Nuclear Station

	Unit 1		Unit 2		Unit 3	
(A) MDC (mW)	847		848		859	
(B) Period Hours	720		720		720	
(C) Net Gen (mWh) and Capacity Factor (%)	605,221	99.24	612,559	100.33	616,822	99.73
(D) Net mWh Not Gen due to Full Schedule Outages	0	0.00	0	0.00	0	0.00
* (E) Net mWh Not Gen due to Partial Scheduled Outages	0	0.00	0	0.00	0	0.00
(F) Net mWh Not Gen due to Full Forced Outages	0	0.00	0	0.00	0	0.00
* (G) Net mWh Not Gen due to Partial Forced Outages	4,619	0.76	-1,999	-0.33	1,658	0.27
* (H) Net mWh Not Gen due to Economic Dispatch	0	0.00	0	0.00	0	0.00
* (I) Core Conservation	0	0.00	0	0.00	0	0.00
(J) Net mWh Possible in Period	609,840	100.00%	610,560	100.00%	618,480	100.00%
(K) Equivalent Availability (%)		100.00		100.00		100.00
(L) Output Factor (%)		99.24		100.33		99.73
(M) Heat Rate (BTU/NkWh)		10,441		10,298		10,231

*** Estimate**
FOOTNOTE: D and F Include Ramping Losses

ELECTRONICALLY FILED - 2018 October 29 2:58 PM - SCPSC - Docket # 1989-9-E - Page 27 of 50

Duke Energy Carolinas
Base Load Power Plant Performance Review Plan

September 2018
McGuire Nuclear Station

	Unit 1		Unit 2	
(A) MDC (mW)	1158		1158	
(B) Period Hours	720		720	
(C) Net Gen (mWh) and Capacity Factor (%)	842,365	101.03	385,484	46.23
(D) Net mWh Not Gen due to Full Schedule Outages	0	0.00	440,040	52.78
* (E) Net mWh Not Gen due to Partial Scheduled Outages	0	0.00	8,236	0.99
(F) Net mWh Not Gen due to Full Forced Outages	0	0.00	0	0.00
* (G) Net mWh Not Gen due to Partial Forced Outages	-8,605	-1.03	0	0.00
* (H) Net mWh Not Gen due to Economic Dispatch	0	0.00	0	0.00
* (I) Core Conservation	0	0.00	0	0.00
(J) Net mWh Possible in Period	833,760	100.00%	833,760	100.00%
(K) Equivalent Availability (%)		100.00		46.33
(L) Output Factor (%)		101.03		97.91
(M) Heat Rate (BTU/NkWh)		10,108		10,239

*** Estimate**
FOOTNOTE: D1 and F Include Ramping Losses

ELECTRONICALLY FILED - 2018 October 29 2:58 PM - SCPSC - Docket # 1989-9-E - Page 28 of 50

Duke Energy Carolinas
Base Load Power Plant Performance Review Plan

September 2018
Catawba Nuclear Station

	Unit 1		Unit 2	
(A) MDC (mW)	1160		1150	
(B) Period Hours	720		720	
(C) Net Gen (mWh) and Capacity Factor (%)	834,117	99.87	826,190	99.78
(D) Net mWh Not Gen due to Full Schedule Outages	0	0.00	0	0.00
* (E) Net mWh Not Gen due to Partial Scheduled Outages	339	0.04	0	0.00
(F) Net mWh Not Gen due to Full Forced Outages	0	0.00	0	0.00
* (G) Net mWh Not Gen due to Partial Forced Outages	744	0.09	1,810	0.22
* (H) Net mWh Not Gen due to Economic Dispatch	0	0.00	0	0.00
* (I) Core Conservation	0	0.00	0	0.00
(J) Net mWh Possible in Period	835,200	100.00%	828,000	100.00%
(K) Equivalent Availability (%)		99.96		100.00
(L) Output Factor (%)		99.87		99.78
(M) Heat Rate (BTU/NkWh)		10,203		10,132

*** Estimate**
FOOTNOTE: D and F Include Ramping Losses

ELECTRONICALLY FILED - 2018 October 29 2:58 PM - SCPSC - Docket # 1989-9-E - Page 29 of 50

Duke Energy Carolinas
Base Load Power Plant
Performance Review Plan
September 2018

Belews Creek Station

	Unit 1	Unit 2
(A) MDC (mW)	1,110	1,110
(B) Period Hrs	720	720
(C) Net Generation (mWh)	517,359	112,651
(D) Capacity Factor (%)	64.73	14.10
(E) Net mWh Not Generated due to Full Scheduled Outages	0	609,390
(F) Scheduled Outages: percent of Period Hrs	0.00	76.25
(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	0	0
(J) Forced Outages: percent of Period Hrs	0.00	0.00
(K) Net mWh Not Generated due to Partial Forced Outages	71,622	1,076
(L) Forced Derates: percent of Period Hrs	8.96	0.13
(M) Net mWh Not Generated due to Economic Dispatch	210,219	76,083
(N) Economic Dispatch: percent of Period Hrs	26.30	9.52
(O) Net mWh Possible in Period	799,200	799,200
(P) Equivalent Availability (%)	91.04	23.62
(Q) Output Factor (%)	64.73	59.35
(R) Heat Rate (BTU/NkWh)	9,580	9,779

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.

ELECTRONICALLY FILED - 2018 October 29 2:58 PM - SCPSC - Docket # 1989-9-E - Page 30 of 50

Duke Energy Carolinas
Base Load Power Plant
Performance Review Plan
September 2018

Buck Combined Cycle Station

	Unit 11	Unit 12	Unit ST10	Block Total
(A) MDC (mW)	206	206	312	724
(B) Period Hrs	720	720	720	720
(C) Net Generation (mWh)	124,822	123,442	215,956	464,220
(D) Capacity Factor (%)	84.16	83.23	96.13	89.05
(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	20,160	20,160	0	40,320
(H) Scheduled Derates: percent of Period Hrs	13.59	13.59	0.00	7.73
(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	3,338	4,718	8,684	16,740
(N) Economic Dispatch: percent of Period Hrs	2.25	3.18	3.87	3.21
(O) Net mWh Possible in Period	148,320	148,320	224,640	521,280
(P) Equivalent Availability (%)	86.41	86.41	100.00	92.27
(Q) Output Factor (%)	84.77	84.29	97.09	89.95
(R) Heat Rate (BTU/NkWh)	10,443	10,256	3,123	6,988

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.

ELECTRONICALLY FILED - 2018 October 29 2:58 PM - SCPSC - Docket # 1989-9-E - Page 31 of 50

ELECTRONICALLY FILED - 2018 October 29 2:58 PM - SCPSC - Docket # 1989-9-E - Page 32 of 50

Duke Energy Carolinas
Base Load Power Plant
Performance Review Plan
September 2018

Dan River Combined Cycle Station

	Unit 8	Unit 9	Unit ST07	Block Total
(A) MDC (mW)	199	199	320	718
(B) Period Hrs	720	720	720	720
(C) Net Generation (mWh)	92,403	93,180	119,952	305,535
(D) Capacity Factor (%)	64.49	65.03	52.06	59.10
(E) Net mWh Not Generated due to Full Scheduled Outages	24,119	24,039	38,891	87,049
(F) Scheduled Outages: percent of Period Hrs	16.83	16.78	16.88	16.84
(G) Net mWh Not Generated due to Partial Scheduled Outages	15,772	15,756	0	31,528
(H) Scheduled Derates: percent of Period Hrs	11.01	11.00	0.00	6.10
(I) Net mWh Not Generated due to Full Forced Outages	7,068	7,260	11,920	26,248
(J) Forced Outages: percent of Period Hrs	4.93	5.07	5.17	5.08
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	35,124	35,124
(L) Forced Derates: percent of Period Hrs	0.00	0.00	15.24	6.79
(M) Net mWh Not Generated due to Economic Dispatch	3,919	3,044	24,513	31,476
(N) Economic Dispatch: percent of Period Hrs	2.73	2.12	10.64	6.09
(O) Net mWh Possible in Period	143,280	143,280	230,400	516,960
(P) Equivalent Availability (%)	67.23	67.16	62.70	65.19
(Q) Output Factor (%)	82.43	83.21	66.79	75.69
(R) Heat Rate (BTU/NkWh)	10,808	10,677	1,401	7,075

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.

Duke Energy Carolinas
Base Load Power Plant
Performance Review Plan
September 2018

Marshall Station

	Unit 3	Unit 4
(A) MDC (mW)	658	660
(B) Period Hrs	720	720
(C) Net Generation (mWh)	336,283	386,201
(D) Capacity Factor (%)	70.98	81.27
(E) Net mWh Not Generated due to Full Scheduled Outages	0	0
(F) Scheduled Outages: percent of Period Hrs	0.00	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	6,712	0
(J) Forced Outages: percent of Period Hrs	1.42	0.00
(K) Net mWh Not Generated due to Partial Forced Outages	1,309	0
(L) Forced Derates: percent of Period Hrs	0.28	0.00
(M) Net mWh Not Generated due to Economic Dispatch	129,456	88,999
(N) Economic Dispatch: percent of Period Hrs	27.33	18.73
(O) Net mWh Possible in Period	473,760	475,200
(P) Equivalent Availability (%)	98.31	100.00
(Q) Output Factor (%)	72.00	81.27
(R) Heat Rate (BTU/NkWh)	9,500	9,423

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.

ELECTRONICALLY FILED - 2018 October 29 2:58 PM - SCPSC - Docket # 1989-9-E - Page 33 of 50

Duke Energy Carolinas
Base Load Power Plant
Performance Review Plan
September 2018

WS Lee Combined Cycle

	Unit 11	Unit 12	Unit ST10	Block Total
(A) MDC (mW)	223	223	337	783
(B) Period Hrs	720	720	720	720
(C) Net Generation (mWh)	145,512	148,950	204,005	498,467
(D) Capacity Factor (%)	90.63	92.77	84.08	88.42
(E) Net mWh Not Generated due to Full Scheduled Outages	9,143	9,143	13,817	32,103
(F) Scheduled Outages: percent of Period Hrs	5.69	5.69	5.69	5.69
(G) Net mWh Not Generated due to Partial Scheduled Outages	4,753	4,753	10,864	20,370
(H) Scheduled Derates: percent of Period Hrs	2.96	2.96	4.48	3.61
(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	1,152	0	13,954	15,106
(N) Economic Dispatch: percent of Period Hrs	0.72	0.00	5.75	2.68
(O) Net mWh Possible in Period	160,560	160,560	242,640	563,760
(P) Equivalent Availability (%)	91.35	91.35	89.83	90.69
(Q) Output Factor (%)	96.74	98.98	89.80	94.39
(R) Heat Rate (BTU/NkWh)	10,926	10,646	2,138	7,246

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.

ELECTRONICALLY FILED - 2018 October 29 2:58 PM - SCPSC - Docket # 1989-9-E - Page 34 of 50

Duke Energy Carolinas
Intermediate Power Plant Performance Review Plan
September 2018

		Cliffside Station
		Cliffside 6
(A)	**MDC (mW)**	844
(B)	**Period Hrs**	720
(C)	**Net Generation (mWh)**	292,763
(D)	**Net mWh Possible in Period**	607,680
(E)	**Equivalent Availability (%)**	53.80
(F)	**Output Factor (%)**	69.10
(G)	**Capacity Factor (%)**	48.18

Notes:

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

ELECTRONICALLY FILED - 2018 October 29 2:58 PM - SCPSC - Docket # 1989-9-E - Page 35 of 50

Duke Energy Carolinas
Peaking Power Plant Performance
Review Plan
September 2018

		Cliffside Station Unit 5
(A)	**MDC (mW)**	546
(B)	**Period Hrs**	720
(C)	**Net Generation (mWh)**	212,416
(D)	**Net mWh Possible in Period**	393,120
(E)	**Equivalent Availability (%)**	65.96
(F)	**Output Factor (%)**	81.90
(G)	**Capacity Factor (%)**	54.03

Notes:

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

ELECTRONICALLY FILED - 2018 October 29 2:58 PM - SCPSC - Docket # 1989-9-E - Page 36 of 50

Duke Energy Carolinas
Base Load Power Plant Performance Review Plan

October 2017 - September 2018
Oconee Nuclear Station

	Unit 1		Unit 2		Unit 3	
(A) MDC (mW)	847		848		859	
(B) Period Hours	8760		8760		8760	
(C) Net Gen (mWh) and Capacity Factor (%)	7,481,214	100.83	6,897,895	92.86	6,962,288	92.52
(D) Net mWh Not Gen due to Full Schedule Outages	0	0.00	606,857	8.17	582,288	7.74
* (E) Net mWh Not Gen due to Partial Scheduled Outages	268	0.00	58,883	0.79	46,355	0.62
(F) Net mWh Not Gen due to Full Forced Outages	32,976	0.44	0	0.00	0	0.00
* (G) Net mWh Not Gen due to Partial Forced Outages	-94,738	-1.27	-135,155	-1.82	-66,091	-0.88
* (H) Net mWh Not Gen due to Economic Dispatch	0	0.00	0	0.00	0	0.00
* (I) Core Conservation	0	0.00	0	0.00	0	0.00
(J) Net mWh Possible in Period	7,419,720	100.00%	7,428,480	100.00%	7,524,840	100.00%
(K) Equivalent Availability (%)		99.40		91.70		92.12
(L) Output Factor (%)		101.28		101.12		100.28
(M) Heat Rate (BTU/NkWh)		10,204		10,154		10,109

*** Estimate**
FOOTNOTE: D and F Include Ramping Losses

ELECTRONICALLY FILED - 2018 October 29 2:58 PM - SCPSC - Docket # 1989-9-E - Page 37 of 50

Duke Energy Carolinas
Base Load Power Plant Performance Review Plan

October 2017 - September 2018
McGuire Nuclear Station

	Unit 1		Unit 2	
(A) MDC (mW)	1158		1158	
(B) Period Hours	8760		8760	
(C) Net Gen (mWh) and Capacity Factor (%)	9,897,083	97.57	9,893,937	97.53
(D) Net mWh Not Gen due to Full Schedule Outages	435,428	4.29	440,040	4.34
* (E) Net mWh Not Gen due to Partial Scheduled Outages	12,860	0.13	16,473	0.16
(F) Net mWh Not Gen due to Full Forced Outages	34,991	0.34	0	0.00
* (G) Net mWh Not Gen due to Partial Forced Outages	-236,282	-2.33	-206,370	-2.03
* (H) Net mWh Not Gen due to Economic Dispatch	0	0.00	0	0.00
* (I) Core Conservation	0	0.00	0	0.00
(J) Net mWh Possible in Period	10,144,080	100.00%	10,144,080	100.00%
(K) Equivalent Availability (%)		95.07		95.51
(L) Output Factor (%)		102.31		101.96
(M) Heat Rate (BTU/NkWh)		9,956		10,000

*** Estimate**
FOOTNOTE: D andF Include Ramping Losses

ELECTRONICALLY FILED - 2018 October 29 2:58 PM - SCPSC - Docket # 1989-9-E - Page 38 of 50

Duke Energy Carolinas
Base Load Power Plant Performance Review Plan

October 2017 - September 2018
Catawba Nuclear Station

	Unit 1		Unit 2	
(A) MDC (mW)	1160		1150	
(B) Period Hours	8760		8760	
(C) Net Gen (mWh) and Capacity Factor (%)	10,280,297	101.17	9,278,654	92.10
(D) Net mWh Not Gen due to Full Schedule Outages	0	0.00	777,783	7.72
* (E) Net mWh Not Gen due to Partial Scheduled Outages	1,436	0.01	76,723	0.76
(F) Net mWh Not Gen due to Full Forced Outages	0	0.00	0	0.00
* (G) Net mWh Not Gen due to Partial Forced Outages	-120,133	-1.18	-59,160	-0.58
* (H) Net mWh Not Gen due to Economic Dispatch	0	0.00	0	0.00
* (I) Core Conservation	0	0.00	0	0.00
(J) Net mWh Possible in Period	10,161,600	100.00%	10,074,000	100.00%
(K) Equivalent Availability (%)		99.99		91.84
(L) Output Factor (%)		101.17		99.81
(M) Heat Rate (BTU/NkWh)		10,073		10,038

*** Estimate**
FOOTNOTE: D and F Include Ramping Losses

ELECTRONICALLY FILED - 2018 October 29 2:58 PM - SCPSC - Docket # 1989-9-E - Page 39 of 50

ELECTRONICALLY FILED - 2018 October 29 2:58 PM - SCPSC - Docket # 1989-9-E - Page 40 of 50

Duke Energy Carolinas
Base Load Power Plant
Performance Review Plan
October, 2017 through September, 2018

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)	3,725,254	4,331,737
(D) Capacity Factor (%)	38.31	44.55
(E) Net mWh Not Generated due to Full Scheduled Outages	2,099,843	1,419,671
(F) Scheduled Outages: percent of Period Hrs	21.60	14.60
(G) Net mWh Not Generated due to Partial Scheduled Outages	1,040	4,224
(H) Scheduled Derates: percent of Period Hrs	0.01	0.04
(I) Net mWh Not Generated due to Full Forced Outages	246,846	169,349
(J) Forced Outages: percent of Period Hrs	2.54	1.74
(K) Net mWh Not Generated due to Partial Forced Outages	97,896	46,788
(L) Forced Derates: percent of Period Hrs	1.01	0.48
(M) Net mWh Not Generated due to Economic Dispatch	3,552,722	3,751,831
(N) Economic Dispatch: percent of Period Hrs	36.54	38.58
(O) Net mWh Possible in Period	9,723,600	9,723,600
(P) Equivalent Availability (%)	74.85	83.13
(Q) Output Factor (%)	70.70	71.38
(R) Heat Rate (BTU/NkWh)	9,363	9,398

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

ELECTRONICALLY FILED - 2018 October 29 2:58 PM - SCPSC - Docket # 1989-9-E - Page 41 of 50

Duke Energy Carolinas
Base Load Power Plant
Performance Review Plan
October, 2017 through September, 2018

Buck Combined Cycle Station

	Unit 11	Unit 12	Unit ST10	Block Total
(A) MDC (mW)	202	202	313	717
(B) Period Hrs	8,760	8,760	8,760	8,760
(C) Net Generation (mWh)	1,476,921	1,486,728	2,274,287	5,237,936
(D) Capacity Factor (%)	83.41	84.05	82.89	83.36
(E) Net mWh Not Generated due to Full Scheduled Outages	57,079	48,408	61,839	167,327
(F) Scheduled Outages: percent of Period Hrs	3.22	2.74	2.25	2.66
(G) Net mWh Not Generated due to Partial Scheduled Outages	128,862	129,017	19,894	277,773
(H) Scheduled Derates: percent of Period Hrs	7.28	7.29	0.73	4.42
(I) Net mWh Not Generated due to Full Forced Outages	4,003	354	1,519	5,876
(J) Forced Outages: percent of Period Hrs	0.23	0.02	0.06	0.09
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	277	277
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.01	0.00
(M) Net mWh Not Generated due to Economic Dispatch	103,897	104,267	385,907	594,072
(N) Economic Dispatch: percent of Period Hrs	5.87	5.89	14.07	9.45
(O) Net mWh Possible in Period	1,770,762	1,768,774	2,743,723	6,283,260
(P) Equivalent Availability (%)	89.35	90.06	96.95	92.82
(Q) Output Factor (%)	86.72	86.81	85.15	86.06
(R) Heat Rate (BTU/NkWh)	10,230	9,944	2,484	6,786

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

ELECTRONICALLY FILED - 2018 October 29 2:58 PM - SCPSC - Docket # 1989-9-E - Page 42 of 50

Duke Energy Carolinas
Base Load Power Plant
Performance Review Plan
October, 2017 through September, 2018

Dan River Combined Cycle Station

	Unit 8	Unit 9	Unit ST07	Block Total
(A) MDC (mW)	198	198	320	715
(B) Period Hrs	8,760	8,760	8,760	8,760
(C) Net Generation (mWh)	1,415,602	1,383,728	2,137,001	4,936,331
(D) Capacity Factor (%)	81.83	79.98	76.23	78.82
(E) Net mWh Not Generated due to Full Scheduled Outages	132,879	153,318	195,685	481,882
(F) Scheduled Outages: percent of Period Hrs	7.68	8.86	6.98	7.69
(G) Net mWh Not Generated due to Partial Scheduled Outages	127,203	125,842	0	253,045
(H) Scheduled Derates: percent of Period Hrs	7.35	7.27	0.00	4.04
(I) Net mWh Not Generated due to Full Forced Outages	7,216	9,462	12,064	28,742
(J) Forced Outages: percent of Period Hrs	0.42	0.55	0.43	0.46
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	36,895	36,895
(L) Forced Derates: percent of Period Hrs	0.00	0.00	1.32	0.59
(M) Net mWh Not Generated due to Economic Dispatch	47,087	57,635	421,555	526,277
(N) Economic Dispatch: percent of Period Hrs	2.72	3.33	15.04	8.40
(O) Net mWh Possible in Period	1,729,986	1,729,986	2,803,200	6,263,172
(P) Equivalent Availability (%)	84.58	83.32	91.27	87.22
(Q) Output Factor (%)	89.34	88.52	82.58	86.07
(R) Heat Rate (BTU/NkWh)	10,585	10,685	2,575	7,145

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

ELECTRONICALLY FILED - 2018 October 29 2:58 PM - SCPSC - Docket # 1989-9-E - Page 43 of 50

Duke Energy Carolinas
Base Load Power Plant
Performance Review Plan
October, 2017 through September, 2018

Marshall Station

	Unit 3	Unit 4
(A) MDC (mW)	658	660
(B) Period Hrs	8,760	8,760
(C) Net Generation (mWh)	3,551,590	3,847,948
(D) Capacity Factor (%)	61.62	66.56
(E) Net mWh Not Generated due to Full Scheduled Outages	324,482	522,665
(F) Scheduled Outages: percent of Period Hrs	5.63	9.04
(G) Net mWh Not Generated due to Partial Scheduled Outages	2,091	12,896
(H) Scheduled Derates: percent of Period Hrs	0.04	0.22
(I) Net mWh Not Generated due to Full Forced Outages	103,207	83,259
(J) Forced Outages: percent of Period Hrs	1.79	1.44
(K) Net mWh Not Generated due to Partial Forced Outages	145,499	74,352
(L) Forced Derates: percent of Period Hrs	2.52	1.29
(M) Net mWh Not Generated due to Economic Dispatch	1,637,211	1,240,480
(N) Economic Dispatch: percent of Period Hrs	28.40	21.46
(O) Net mWh Possible in Period	5,764,080	5,781,600
(P) Equivalent Availability (%)	90.02	88.01
(Q) Output Factor (%)	72.80	77.22
(R) Heat Rate (BTU/NkWh)	9,391	9,255

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

Duke Energy Carolinas
Base Load Power Plant
Performance Review Plan
October, 2017 through September, 2018

WS Lee Combined Cycle

	Unit 11	Unit 12	Unit ST10	Block Total
(A) MDC (mW)	223	223	337	783
(B) Period Hrs	4,392	4,392	4,392	4,392
(C) Net Generation (mWh)	709,811	778,108	979,056	2,466,975
(D) Capacity Factor (%)	72.47	79.45	66.15	71.74
(E) Net mWh Not Generated due to Full Scheduled Outages	128,511	115,960	183,328	427,799
(F) Scheduled Outages: percent of Period Hrs	13.12	11.84	12.39	12.44
(G) Net mWh Not Generated due to Partial Scheduled Outages	24,032	25,192	57,991	107,216
(H) Scheduled Derates: percent of Period Hrs	2.45	2.57	3.92	3.12
(I) Net mWh Not Generated due to Full Forced Outages	47,454	23,058	25,292	95,804
(J) Forced Outages: percent of Period Hrs	4.85	2.35	1.71	2.79
(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	69,607	37,098	234,437	341,142
(N) Economic Dispatch: percent of Period Hrs	7.11	3.79	15.84	9.92
(O) Net mWh Possible in Period	979,416	979,416	1,480,104	3,438,936
(P) Equivalent Availability (%)	79.58	83.23	81.99	81.66
(Q) Output Factor (%)	95.28	98.16	83.39	90.97
(R) Heat Rate (BTU/NkWh)	10,528	10,325	1,380	6,833

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

ELECTRONICALLY FILED - 2018 October 29 2:58 PM - SCPSC - Docket # 1989-9-E - Page 44 of 50

Duke Energy Carolinas
Base Load Power Plant
Performance Review Plan
October 2017 through September 2018

Pre-Commercial
Lee Combined Cycle Station

	Unit 11	Unit 12	Unit ST10	Block Total
(A) MDC (mW)				
(B) Period Hrs				
(C) Net Generation (mWh)	40,943	22,255	7,645	70,843
(D) Capacity Factor (%)				
(E) Net mWh Not Generated due to Full Scheduled Outages				
(F) Scheduled Outages: percent of Period Hrs				
(G) Net mWh Not Generated due to Partial Scheduled Outages				
(H) Scheduled Derates: percent of Period Hrs				
(I) Net mWh Not Generated due to Full Forced Outages				
(J) Forced Outages: percent of Period Hrs				
(K) Net mWh Not Generated due to Partial Forced Outages				
(L) Forced Derates: percent of Period Hrs				
(M) Net mWh Not Generated due to Economic Dispatch				
(N) Economic Dispatch: percent of Period Hrs				
(O) Net mWh Possible in Period				
(P) Equivalent Availability (%)				
(Q) Output Factor (%)				
(R) Heat Rate (BTU/NkWh)				

Note: The Power Plant Performance Data reports are limited to capturing data beginning the first month a station is in commercial operation. Lee CC began commercial operations April 5, 2018.

ELECTRONICALLY FILED - 2018 October 29 2:58 PM - SCPSC - Docket # 1989-9-E - Page 45 of 50

Duke Energy Carolinas
Intermediate Power Plant
Performance Review Plan
October, 2017 through September, 2018

Cliffside Station

Units		Unit 6
(A)	**MDC (mW)**	844
(B)	**Period Hrs**	8,760
(C)	**Net Generation (mWh)**	4,416,091
(D)	**Net mWh Possible in Period**	7,393,440
(E)	**Equivalent Availability (%)**	79.27
(F)	**Output Factor (%)**	80.50
(G)	**Capacity Factor (%)**	59.73

Notes:

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

ELECTRONICALLY FILED - 2018 October 29 2:58 PM - SCPSC - Docket # 1989-9-E - Page 46 of 50

Duke Energy Carolinas
Peaking Power Plant
Performance Review Plan
October, 2017 through September, 2018

Cliffside Station

Units		**Unit 5**
(A)	**MDC (mW)**	549
(B)	**Period Hrs**	8,760
(C)	**Net Generation (mWh)**	1,309,563
(D)	**Net mWh Possible in Period**	4,805,050
(E)	**Equivalent Availability (%)**	62.85
(F)	**Output Factor (%)**	71.33
(G)	**Capacity Factor (%)**	27.25

Notes:

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

ELECTRONICALLY FILED - 2018 October 29 2:58 PM - SCPSC - Docket # 1989-9-E - Page 47 of 50

Duke Energy Carolinas
Outages for 100 mW or Larger Units
September, 2018

Unit Name	Capacity Rating (mW)	Full Outage Hours		
		Scheduled	Unscheduled	Total
Oconee 1	847	0.00	0.00	0.00
Oconee 2	848	0.00	0.00	0.00
Oconee 3	859	0.00	0.00	0.00
McGuire 1	1,158	0.00	0.00	0.00
McGuire 2	1,158	380.00	0.00	380.00
Catawba 1	1,160	0.00	0.00	0.00
Catawba 2	1,150	0.00	0.00	0.00

ELECTRONICALLY FILED - 2018 October 29 2:58 PM - SCPSC - Docket # 1989-9-E - Page 48 of 50

Duke Energy Carolinas
Outages for 100 mW or Larger Units
September 2018

Unit Name	Capacity Rating (mW)	Full Outage Hours Scheduled	Full Outage Hours Unscheduled	Total Outage Hours
Allen Steam 1	167	137.00	0.00	137.00
Allen Steam 2	167	137.00	0.00	137.00
Allen Steam 3	270	10.00	0.00	10.00
Allen Steam 4	267	0.00	0.00	0.00
Allen Steam 5	259	0.00	21.43	21.43
Belews Creek Steam 1	1,110	0.00	0.00	0.00
Belews Creek Steam 2	1,110	549.00	0.00	549.00
Buck CC 11	206	0.00	0.00	0.00
Buck CC 12	206	0.00	0.00	0.00
Buck CC ST10	312	0.00	0.00	0.00
Cliffside Steam 5	546	192.00	47.32	239.32
Cliffside Steam 6	844	218.03	0.00	218.03
Dan River CC 8	199	121.20	35.52	156.72
Dan River CC 9	199	120.80	36.48	157.28
Dan River CC ST7	320	121.53	37.25	158.78
Lee Steam 3	173	627.55	0.00	627.55
Marshall Steam 1	380	7.00	51.53	58.53
Marshall Steam 2	380	552.55	0.00	552.55
Marshall Steam 3	658	0.00	10.20	10.20
Marshall Steam 4	660	0.00	0.00	0.00
Rockingham CT1	179	0.00	0.00	0.00
Rockingham CT2	179	0.00	0.00	0.00
Rockingham CT3	179	0.00	5.30	5.30
Rockingham CT4	179	370.28	0.00	370.28
Rockingham CT5	179	89.08	0.00	89.08

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.

ELECTRONICALLY FILED - 2018 October 29 2:58 PM - SCPSC - Docket # 1989-9-E - Page 49 of 50

Duke Energy Carolinas
Outages for 100 mW or Larger Units
September 2018

Unit Name	Capacity Rating (mW)	Full Outage Hours Scheduled	Full Outage Hours Unscheduled	Total Outage Hours
WS Lee CC 11	223	41.00	0.00	41.00
WS Lee CC 12	223	41.00	0.00	41.00
WS Lee CC ST 10	337	41.00	0.00	41.00

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.

ELECTRONICALLY FILED - 2018 October 29 2:58 PM - SCPSC - Docket # 1989-9-E - Page 50 of 50