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August 30, 2017

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:

Pursuant to the Commission's Orders in the above captioned docket, enclosed please find the following reports for the month of July 2017.

1. Monthly Fuel Cost Report for July 2017 (Exhibit A).
2. Base Load Power Plant Performance Report for July 2017 (Exhibit B).

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. Shannon Hudson, Office Regulatory Staff
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.		July 2017
1	Fuel and Fuel-related Costs excluding DERP incremental costs	$ 185,225,939
	MWH sales:	
2	Total system sales.	8,305,865
3	Less intersystem sales	92,168
4	Total sales less intersystem sales	8,213,697
5	Total fuel and fuel-related costs (¢/KWH) (line 1/line 4)	2.2551
6	Current fuel and fuel-related cost component (¢/KWH) (per Schedule 4, Line 2 + Line 10 + Line 18)	1.6403
	Generation Mix (MWH):	
	Fossil (by primary fuel type):	
7	Coal	3,470,163
8	Fuel Oil	5,800
9	Natural Gas - Combined Cycle	894,199
10	Natural Gas - Combustion Turbine	126,283
11	Natural Gas - Steam	8,312
12	Total fossil	4,504,757
13	Nuclear 100%	5,328,929
14	Hydro - Conventional	105,738
15	Hydro - Pumped storage	(100,514)
16	Total hydro	5,224
17	Solar Distributed Generation	16,768
18	Total MWH generation	9,855,678
19	Less joint owners' portion - Nuclear	1,388,322
20	Adjusted total MWH generation	8,467,356

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

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Exhibit A
Schedule 2

DUKE ENERGY CAROLINAS
DETAILS OF FUEL AND FUEL-RELATED COSTS

Fuel and fuel-related costs:	July 2017
Steam Generation - Account 501	
0501110 coal consumed - steam	$ 99,733,960
0501310 fuel oil consumed - steam	225,274
0501330 fuel oil light-off - steam	436,068
Total Steam Generation - Account 501	100,395,302
Nuclear Generation - Account 518	
0518100 burnup of owned fuel	27,446,315
0518600 nuclear fuel disposal cost	-
Total Nuclear Generation - Account 518	27,446,315
Other Generation - Account 547	
0547100, 0547124 - natural gas consumed - Combustion Turbine	4,779,969
0547100 natural gas consumed - Steam	406,274
0547101 natural gas consumed - Combined Cycle	21,917,641
0547200 fuel oil consumed - Combustion Turbine	34,051
Total Other Generation - Account 547	27,137,935
Purchased Power and Net Interchange - Account 555	
Fuel and fuel-related component of purchased power	22,824,202
Fuel and fuel-related component of DERP purchases	2,381
PURPA purchased power capacity	6,535,281
DERP purchased power capacity	2,228
Total Purchased Power and Net Interchange - Account 555	29,364,092
Less:	
Fuel and fuel-related costs recovered through intersystem sales	2,563,490
Fuel in loss compensation	7,178
Total Fuel Credits - Account 447	2,570,668
Environmental Costs	
0509000, 0557451 emission allowance expense	529
0502020, 0502030, 0502040, 0502082, 0548020 reagent expense	3,234,684
0502080, 0502083, 0502090, 0502150 sorbent expense	277,517
Emission allowance gains	-
Less reagents expense recovered through intersystem sales - Account 447	49,500
Less emissions expense recovered through intersystem sales - Account 447	10,268
Total Environmental Component of Recovery	3,452,962
Total Fuel and Fuel-related Costs excluding DERP incremental costs	$ 185,225,939
DERP incremental costs	575,535
Total Fuel and Fuel-related Costs to be Recovered	$ 185,801,474

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

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DUKE ENERGY CAROLINAS
PURCHASED POWER AND INTERCHANGE
SOUTH CAROLINA

July 2017

Purchased Power	Total	Capacity	Non-capacity		
Marketers, Utilities, Other	$	$	mWh	Fuel $	Non-fuel $
Blue Ridge Electric Membership Corp.	$ 1,408,864	$ 709,669	24,902	$ 699,195	-
Cargill Power Marketers, LLC.	481,900	-	9,100	451,174	$ 30,726
City of Kings Mountain	8,979	8,979	-	-	-
Exelon Generation Company, LLC.	2,375	-	105	2,375	-
Haywood Electric	364,076	174,085	7,221	189,991	-
NCEMC	4,441	4,441	-	-	-
NCMPA	1,116,295	-	40,752	1,116,295	-
Piedmont Electric Membership Corp.	667,789	329,120	11,904	338,669	-
Piedmont Municipal Power Agency	220,247	-	8,150	220,247	-
PJM Interconnection, LLC.	1,271,917	-	46,750	1,271,917	-
Southern Company Services, Inc.	34,660	-	3,466	34,660	-
The Energy Authority	4,330	-	165	4,330	-
Town of Dallas	584	584	-	-	-
Town of Forest City	19,856	19,856	-	-	-
DE Progress - Native Load Transfer	8,937,986	-	361,163	8,898,869	39,117
DE Progress - Native Load Transfer Benefit	384,162	-	-	384,162	-
Generation Imbalance	193,097	-	7,783	114,108	78,989
Energy Imbalance - Purchases	128,031	-	3,151	82,174	45,857
Energy Imbalance - Sales	(31,990)	-	-	(28,935)	(3,055)
	$ 15,217,599	**$ 1,246,734**	**524,612**	**$ 13,779,231**	**$ 191,634**
Act 236 PURPA Purchases					
Cherokee County Cogeneration Partners	$ 5,007,678	$ 3,144,246	58,046	$ 1,863,432	
Renewable Energy	6,385,495	2,084,627	81,068	4,300,868	
DERP	4,609	2,228	50	2,381	
Other Qualifying Facilities	4,159,967	1,306,408	58,969	2,745,894	107,665
	$ 15,557,749	**$ 6,537,509**	**198,133**	**$ 8,912,575**	**$ 107,665**
Other Purchases	**$ 1,104**	**$ -**	**27**	**$ -**	**$ 1,104**
Total Purchased Power	**$ 30,776,452**	**$ 7,784,243**	**722,772**	**$ 22,691,806**	**$ 300,403**
Interchanges In					
Other Catawba Joint Owners	8,050,539	-	699,552	4,506,034	3,544,505
Total Interchanges In	8,050,539	-	699,552	4,506,034	3,544,505
Interchanges Out					
Other Catawba Joint Owners	(7,889,364)	(134,209)	(679,294)	(4,371,257)	(3,383,898)
Catawba- Net Negative Generation	-	-	-	-	-
Total Interchanges Out	(7,889,364)	(134,209)	(679,294)	(4,371,257)	(3,383,898)
Net Purchases and Interchange Power	**$ 30,937,627**	**$ 7,650,034**	**743,030**	**$ 22,826,583**	**$ 461,010**

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

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DUKE ENERGY CAROLINAS
INTERSYSTEM SALES*
SOUTH CAROLINA

JULY 2017

Sales	Total $	Capacity $	Non-capacity mWh	Non-capacity Fuel $	Non-capacity Non-fuel $
Utilities:					
SC Public Service Authority - Emergency	$ 57,089	-	727	$ 35,011	$ 22,078
SC Electric & Gas - Emergency	12,369	-	553	17,610	(5,241)
Market Based:					
Cargill-Alliant, LLC.	19,125	-	425	14,331	4,794
NCMPA	122,613	$ 87,500	898	31,624	3,489
PJM Interconnection, LLC.	23,577	-	325	12,265	11,312
Tennessee Valley Authority	293,700	-	5,400	192,878	100,822
The Energy Authority	3,330	-	62	2,118	1,212
Westar Energy, Inc.	-	-	-	-	-
Other:					
DE Progress - Native Load Transfer Benefit	54,120	-	-	54,120	-
DE Progress - Native Load Transfer	2,611,785	-	85,390	2,356,876	254,909
Generation Imbalance	(130,611)	-	(1,612)	(93,575)	(37,036)
BPM Transmission	(28,096)	-			(28,096)
Total Intersystem Sales	**$ 3,039,001**	**$ 87,500**	**92,168**	**$ 2,623,258**	**$ 328,243**

* Sales for resale other than native load priority.

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

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Duke Energy Carolinas
(Over) / Under Recovery of Fuel Costs
July 2017

Line No.			Residential	Commercial	Industrial	Total
1	Actual System kWh sales	Input				8,213,697,211
2	DERP Net Metered kWh generation	Input				3,620,824
3	Adjusted System kWh sales	L1 + L2				8,217,318,035
4	Actual S.C. Retail kWh sales	Input	665,587,625	540,981,553	798,057,466	2,004,626,644
5	DERP Net Metered kWh generation	Input	3,056,136	389,064	175,624	3,620,824
6	Adjusted S.C. Retail kWh sales	L4 + L5	668,643,761	541,370,617	798,233,090	2,008,247,468
Base fuel component of recovery: non-capacity						
7	Incurred System base fuel - non-capacity expense	Input				$175,233,087
8	Eliminate avoided fuel benefit of S.C. net metering	Input				117,273
9	Adjusted Incurred System base fuel - non-capacity expense	L7 + L8				$175,350,360
10	Adjusted Incurred System base fuel - non-capacity rate (¢/kWh)	L9 / L3 * 100				2.1339
11	S.C. Retail portion of adjusted incurred system expense	L6 * L10 / 100	$14,268,271	$11,552,374	$17,033,594	$42,854,239
12	Assign 100 % of Avoided Fuel Benefit of S.C net metering	Input	(49,378)	(32,760)	(35,135)	(117,273)
13	S.C. Retail portion of incurred system expense	L11 + L12	$14,218,893	$11,519,614	$16,998,459	$42,736,966
14	Billed base fuel - non-capacity rate (¢/kWh)	Input	1.5877	1.5877	1.5877	1.5877
15	Billed base fuel - non-capacity revenue	L4 * L14 / 100	$10,567,535	$8,589,164	$12,670,758	$31,827,457
16	DERP NEM incentive - fuel component	Input	(14,830)	(9,839)	(10,552)	(35,221)
17	Adjusted S.C. billed base fuel - non-capacity revenue	L15 + L16	$10,552,705	$8,579,325	$12,660,206	$31,792,236
18	S.C. base fuel - non-capacity (over)/under recovery [See footnote]	L17 - L13	$3,666,188	$2,940,289	$4,338,253	$10,944,730
19	Adjustment	Input				
20	Total S.C. base fuel - non-capacity (over)/under recovery [See footnote]	L18 + L19	**$3,666,188**	**$2,940,289**	**$4,338,253**	**$10,944,730**
Base fuel component of recovery: capacity						
21	Incurred base fuel - capacity rates by class (¢/kWh)	Input	0.1009	0.0824	0.0599	0.0796
22	Incurred S.C. base fuel - capacity expense	L4 * L21 / 100	$671,582	$445,554	$477,857	$1,594,993
23	Billed base fuel - capacity rates by class (¢/kWh)	Input	0.0797	0.0330	0.0223	0.0442
24	Billed S.C. base fuel - capacity revenue	L4 * L23 / 100	530,473	178,524	177,967	886,964
25	S.C. base fuel - capacity (over)/under recovery [See footnote]	L24 - L22	141,109	267,030	299,890	708,029
26	Adjustment	Input				
27	Total S.C. base fuel - capacity (over)/under recovery [See footnote]	L25 + L26	**$141,109**	**$267,030**	**$299,890**	**$708,029**

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Duke Energy Carolinas
(Over) / Under Recovery of Fuel Costs
July 2017

Line No.			Residential	Commercial	Industrial	Total
Environmental component of recovery						
28	Incurred environmental rates by class (¢/kWh)	Input	0.0533	0.0435	0.0316	0.0420
29	Incurred S.C. environmental expense	L4 * L28 / 100	$354,835	$235,412	$252,479	$842,726
30	Billed environmental rates by class (¢/kWh)	Input	0.0237	0.0065	0.0006	0.0099
31	Billed S.C. environmental revenue	L4 * L30 / 100	157,744	35,164	4,788	197,696
32	S.C. environmental (over)/under recovery [See footnote]	L31 - L29	197,091	200,248	247,691	645,030
33	Adjustment	Input				
34	Total S.C. environmental (over)/under recovery [See footnote]	L32 + L33	**$197,091**	**$200,248**	**$247,691**	**$645,030**
Distributed Energy Resource Program component of recovery: avoided costs						
35	Incurred S.C. DERP avoided cost rates by class (¢/kWh)	Input	0.0001	0.0001	0.0000	0.0001
36	Incurred S.C. DERP avoided cost expense	L4 * L35 / 100	$474	$314	$337	$1,125
37	Billed S.C. DERP avoided cost rates by class (¢/kWh)	Input	(0.0021)	(0.0011)	(0.0013)	(0.0015)
38	Billed S.C. DERP avoided cost revenue	L4 * L37 / 100	(13,977)	(5,951)	(10,375)	(30,303)
39	S.C. DERP avoided cost (over)/under recovery [See footnote]	L38 - L36	14,451	6,265	10,712	31,428
40	Adjustment	Input				
41	Total S.C. DERP avoided cost (over)/under recovery [See footnote]	L39 + L40	**$14,451**	**$6,265**	**$10,712**	**$31,428**
Distributed Energy Resource Program component of recovery: incremental costs						
42	Incurred S.C. DERP incremental expense	Input	$242,333	$160,773	$172,429	$575,535
43	Billed S.C. DERP incremental rates ($/account)	Input	$0.67	$1.83	$80.41	
44	Billed S.C. DERP incremental revenue	Input	326,375	133,216	125,820	585,411
45	S.C. DERP incremental (over)/under recovery [See footnote]	L44 - L42	(84,042)	27,557	46,609	(9,876)
46	Adjustment	Input				
47	Total S.C. DERP incremental (over)/under recovery [See footnote]	L45 + L46	**($84,042)**	**$27,557**	**$46,609**	**($9,876)**
48	Total S.C. Retail (over)/under recovery [See footnote]	L20 + L27 + L34 + L41 + L47	**$3,934,797**	**$3,441,389**	**$4,943,155**	**$12,319,341**

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Duke Energy Carolinas

(Over) / Under Recovery of Fuel Costs
July 2017

Line No.	Year 2016-2017 (over)/under recovery	Cumulative	Residential	Commercial	Industrial	Total Company
_/1	Balance ending May 2016	($40,079,251)				
	June 2016 - actual	(39,387,225)	$105,180	$263,872	$322,974	$692,026
	July 2016 - actual	(33,662,609)	2,011,460	1,613,946	2,099,210	5,724,616
	August 2016 - actual	(32,347,863)	435,366	411,091	468,289	1,314,746
	September 2016 - actual	(37,156,656)	(1,704,788)	(1,284,458)	(1,819,547)	(4,808,793)
	October 2016 - actual	(34,860,318)	570,224	628,686	1,097,428	2,296,338
_/2	November 2016 - actual	(29,994,360)	1,040,510	1,319,944	2,505,504	4,865,958
	December 2016 - actual	(21,804,324)	2,433,081	2,143,905	3,613,050	8,190,036
	January 2017 - actual	(15,455,495)	1,924,735	1,744,099	2,679,995	6,348,829
	February 2017 - actual	(13,640,089)	260,616	543,104	1,011,686	1,815,406
	March 2017 - actual	(6,996,989)	1,679,411	1,831,008	3,132,681	6,643,100
	April 2017 - actual	(7,320,215)	(232,577)	(7,732)	(82,917)	(323,226)
	May 2017 - actual	1,271,719	2,307,359	2,636,042	3,648,533	8,591,934
	June 2017 - actual	7,204,888	1,515,977	1,709,267	2,707,925	5,933,169
	July 2017 - actual	19,524,229	3,934,797	3,441,389	4,943,155	12,319,341
	August 2017 - forecast	28,177,031	4,431,474	1,963,219	2,258,109	8,652,802
	September 2017 - forecast	$30,842,187	$1,155,502	$684,963	$824,691	2,665,156

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 2016 ending balance reflects adjustments pursuant to the docket no. 2016-3-E directive.
The total adjustment of $945,213 was made to the May ending balance and includes true up in June to agree to the settlement.

_/2 Includes prior period adjustments.

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Exhibit A
Schedule 5

DUKE ENERGY CAROLINAS
FUEL AND FUEL RELATED COST REPORT
JULY 2017

Description	Allen Steam	Belews Creek Steam	Buck CC	Catawba Nuclear	Cliffside Steam	Dan River CC	Lee Steam/CT	Lincoln CT	Marshall Steam	McGuire Nuclear	Mill Creek CT	Oconee Nuclear	Rockingham CT	Current Month	Total 12 ME July 2017
Cost of Fuel Purchased ($)															
Coal	$866,538	$31,316,375			$15,297,486				$21,154,517					$68,634,917	$742,672,209
Oil	312,219	119,120	-		131,618	-	-	-	238,250		-		-	801,207	14,141,870
Gas - CC			$10,958,188			$10,959,453								21,917,641	248,830,729
Gas - CT							$454,670	$108,767			$30,480		$4,186,053	4,779,969	39,598,091
Gas - Steam							406,274							406,274	6,374,272
Total	$1,178,757	$31,435,496	$10,958,188		$15,429,104	$10,959,453	$860,944	$108,767	$21,392,767		$30,480		$4,186,053	$96,540,008	$1,051,617,172
Average Cost of Fuel Purchased (¢/MBTU)															
Coal	289.42	292.84			320.36	-			298.87					300.42	320.60
Oil	1,261.34	1,234.00			1,075.40		-	-	1,435.90		-		-	1,266.98	1,194.40
Gas - CC			341.31			340.70								341.00	359.82
Gas - CT							372.49	359.28			362.19		343.77	346.77	344.14
Gas - Steam							369.33							369.33	361.07
Weighted Average	363.64	293.69	341.31		237.86	340.70	370.99	359.28	301.53		362.19		343.77	313.18	333.57
Cost of Fuel Burned ($)															
Coal	$8,263,861	$38,041,968			$20,524,135	-	-		$32,903,996					$99,733,960	$847,862,426
Oil - CC			-			-								-	-
Oil - Steam/CT	281,811	52,838			136,667		$25,533	5,197	190,026		-		-	695,393	14,226,106
Gas - CC			$10,958,188			$10,959,453								21,917,641	248,830,729
Gas - CT							$454,670	$108,767			$30,480		$4,186,053	4,779,969	39,598,091
Gas - Steam							406,274							406,274	6,374,272
Nuclear				$11,747,968						$12,351,333		$12,833,968		36,933,269	438,332,601
Total	8,545,672	$38,094,805	$10,958,188	$11,747,968	20,660,802	$10,959,453	$886,476	$113,964	$33,094,023	$12,351,333	$30,480	$12,833,968	$4,186,053	$164,466,506	$1,595,224,225
Average Cost of Fuel Burned (¢/MBTU)															
Coal	328.77	297.88			317.30		-		310.05					308.15	329.93
Oil - CC														-	-
Oil - Steam/CT	1,138.49	1,155.18			1,284.10		1,880.17	1,378.56	1,145.29		-		-	1,192.85	1,281.33
Gas - CC			341.31			340.70								341.00	359.82
Gas - CT							372.49	359.28			362.19		343.77	346.77	344.14
Gas - Steam							369.33							369.33	361.07
Nuclear				67.35						70.23		66.53		67.99	72.07
Weighted Average	336.66	298.19	341.31	67.35	318.89	340.70	379.77	371.82	311.35	70.23	362.19	66.53	343.77	173.74	168.14
Average Cost of Generation (¢/kWh)															
Coal	3.53	2.72			2.89	-	-	-	2.92					2.87	3.08
Oil - CC			-			-								-	-
Oil - Steam/CT	12.43	10.54			12.06	-	18.82	18.30	10.95		-		-	11.99	13.38
Gas - CC			2.45			2.45								2.45	2.55
Gas - CT							3.70	6.68			44.82		3.73	3.79	3.84
Gas - Steam							4.89	-						4.89	4.48
Nuclear				0.68						0.71		0.68		0.69	0.73
Weighted Average	3.61	2.72	2.45	0.68	2.91	2.45	4.27	6.88	2.94	0.71	44.82	0.68	3.73	1.67	1.61
Burned MBTU's															
Coal	2,513,587	12,770,858			6,468,300		-		10,612,560					32,365,305	256,982,044
Oil - CC														-	-
Oil - Steam/CT	24,753	4,574			10,643		1,358	377	16,592		-		-	58,297	1,110,258
Gas - CC			3,210,633			3,216,789								6,427,422	69,154,255
Gas - CT							122,062	30,273			8,415		1,217,683	1,378,434	11,506,248
Gas - Steam							110,003							110,003	1,765,370
Nuclear				17,443,701						17,587,039		19,291,199		54,321,939	608,221,455
Total	2,538,340	12,775,432	3,210,633	17,443,701	6,478,943	3,216,789	233,424	30,650	10,629,152	17,587,039	8,415	19,291,199	1,217,683	94,661,400	948,739,630
Net Generation (mWh)															
Coal	234,382	1,400,175			709,955				1,125,651					3,470,163	27,541,283
Oil - CC														-	-
Oil - Steam/CT	2,266	501			1,133	-	136	28	1,736		-		-	5,800	106,345
Gas - CC			447,319			446,880	-							894,199	9,765,602
Gas - CT							12,296	1,628			68		112,291	126,283	1,031,505
Gas - Steam							8,312							8,312	142,270
Nuclear 100%				1,719,206						1,733,716		1,876,007		5,328,929	60,271,934
Hydro (Total System)														5,224	453,713
Solar (Total System)														16,768	72,366
Total	236,648	1,400,676	447,319	1,719,206	711,088	446,880	20,744	1,656	1,127,387	1,733,716	68	1,876,007	112,291	9,855,678	99,385,018
Cost of Reagents Consumed ($)															
Ammonia		$352,853	$16,112		$57,218	$14,716								$440,900	$4,621,424
Limestone	$136,972	850,917			830,938				$832,549					2,651,375	19,562,628
Sorbents	-	151,585							125,932					277,517	2,322,520
Urea	-								142,409					142,409	963,261
Activated Carbon	-								-					-	11,100
Total	$136,972	$1,355,355	$16,112		888,156	$14,716			$1,100,890					$3,512,201	$27,480,933

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.
Fuel cost information on this report does not reflect intercompany sharing of fuel-related merger savings between Duke Energy Carolinas and Duke Energy Progress.

DUKE ENERGY CAROLINAS
FUEL AND FUEL RELATED CONSUMPTION AND INVENTORY REPORT
JULY 2017

Description	Allen	Belews Creek	Buck	Cliffside	Dan River	Lee	Lincoln	Marshall	Mill Creek	Rockingham	Current Month	Total 12 ME July 2017
	Steam	Steam	CC	Steam	CC	Steam/CT	CT	Steam	CT	CT		
Coal Data:												
Beginning balance	410,055	1,014,571		467,051		-		938,791			2,830,467	3,478,553
Tons received during period	11,941	427,321		199,978				281,815			921,055	9,398,460
Inventory adjustments	964	(2,377)		(837)		-		3,963			1,713	56,068
Tons burned during period	107,397	510,920		264,507		-		427,069			1,309,893	10,489,738
Ending balance	315,563	928,594		401,685		-		797,499			2,443,342	2,443,342
MBTUs per ton burned	23.40	25.00		24.45		-		24.85			24.71	24.50
Cost of ending inventory ($/ton)	77.59	74.65		77.76		-		76.66			76.20	76.20
Oil Data:												
Beginning balance	86,505	202,150	-	220,875	-	508,650	9,681,922	209,964	3,558,047	2,824,039	17,292,152	17,139,575
Gallons received during period	199,153	74,115	-	81,828	-	-	-	148,846	-	-	503,942	8,592,875
Miscellaneous use and adjustments	(14,953)	(36,847)	-	(11,622)	-	-	-	-	-	-	(62,948)	(352,735)
Gallons burned during period	179,512	33,185		77,235	-	9,915	2,713	120,368	-	-	423,402	8,069,970
Ending balance	91,193	206,233	-	213,846	-	498,735	9,679,209	238,442	3,558,047	2,824,039	17,309,744	17,309,744
Cost of ending inventory ($/gal)	1.56	1.59	-	1.69	-	2.58	1.92	1.58	2.68	1.95	2.08	2.08
Gas Data:												
Beginning balance												
MCF received during period			3,087,898		3,105,822	225,437	29,308		8,175	1,171,456	7,628,095	79,359,957
MCF burned during period			3,087,898		3,105,822	225,437	29,308		8,175	1,171,456	7,628,095	79,359,957
Ending balance												
Limestone Data:												
Beginning balance	25,220	34,864		33,956				84,425			178,465	167,397
Tons received during period	-	27,608		7,138				19,788			54,534	539,690
Inventory adjustments	-	-		-				-			-	(4,826)
Tons consumed during period	3,615	23,528		21,035				25,371			73,549	542,811
Ending balance	21,605	38,944		20,059				78,842			159,450	159,450
Cost of ending inventory ($/ton)	37.89	34.27		35.51				32.81			34.20	34.20

	Qtr Ending June 2017	Total 12 ME June 2017
Ammonia Data:		
Beginning balance	1,207	1,212
Tons received during period	2,069	7,139
Tons consumed during period	1,794	6,869
Ending balance	1,482	1,482
Cost of ending inventory ($/ton)	557.75	557.75

Notes:
Detail amounts may not add to totals shown due to rounding.
Schedule excludes in-transit and terminal activity.
Gas is burned as received; therefore, inventory balances are not maintained.

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DUKE ENERGY CAROLINAS
ANALYSIS OF COAL PURCHASED
JULY 2017

STATION	TYPE	QUANTITY OF TONS DELIVERED	DELIVERED COST	DELIVERED COST PER TON
ALLEN	SPOT	-	-	-
	CONTRACT	11,941	$ 858,691	$ 71.91
	ADJUSTMENTS	-	7,847	-
	TOTAL	11,941	866,538	72.57
BELEWS CREEK	SPOT	70,961	5,435,090	76.59
	CONTRACT	356,360	25,744,389	72.24
	ADJUSTMENTS	-	136,896	-
	TOTAL	427,321	31,316,375	73.29
CLIFFSIDE	SPOT	25,868	1,837,603	71.04
	CONTRACT	174,110	13,175,969	75.68
	ADJUSTMENTS	-	283,915	-
	TOTAL	199,978	15,297,486	76.50
MARSHALL	SPOT	-	-	-
	CONTRACT	281,815	20,602,346	73.11
	ADJUSTMENTS	-	552,171	-
	TOTAL	281,815	21,154,517	75.07
ALL PLANTS	SPOT	96,829	7,272,693	75.11
	CONTRACT	824,226	60,381,395	73.26
	ADJUSTMENTS	-	980,829	-
	TOTAL	921,055	$ 68,634,917	$ 74.52

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DUKE ENERGY CAROLINAS

ANALYSIS OF COAL QUALITY RECEIVED

JULY 2017

STATION	PERCENT MOISTURE	PERCENT ASH	HEAT VALUE	PERCENT SULFUR
ALLEN	5.60	10.34	12,537	0.95
BELEWS CREEK	6.47	10.22	12,513	1.54
CLIFFSIDE	9.41	9.79	11,939	2.21
MARSHALL	6.51	9.97	12,558	1.66

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DUKE ENERGY CAROLINAS

ANALYSIS OF OIL PURCHASED

JULY 2017

	ALLEN	BELEWS CREEK
VENDOR	HighTowers	HighTowers
SPOT/CONTRACT	Contract	Contract
SULFUR CONTENT %	0	0
GALLONS RECEIVED	199,153	74,115
TOTAL DELIVERED COST	$ 312,219	$ 119,120
DELIVERED COST/GALLON	$ 1.57	$ 1.61
BTU/GALLON	137,890	137,840

	CLIFFSIDE	MARSHALL
VENDOR	HighTowers	HighTowers
SPOT/CONTRACT	Contract	Contract
SULFUR CONTENT %	0	0
GALLONS RECEIVED	81,828	148,846
TOTAL DELIVERED COST	$ 131,618	$ 238,250
DELIVERED COST/GALLON	$ 1.61	$ 1.60
BTU/GALLON	137,738	137,847

Duke Energy Carolinas
Power Plant Performance Data
Twelve Month Summary
August, 2016 - July, 2017
Nuclear Units

Unit Name	Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Oconee 1	6,840,005	847	92.19	91.56
Oconee 2	7,555,342	848	101.71	99.99
Oconee 3	7,573,707	859	100.65	99.62
McGuire 1	10,334,571	1,158	101.88	99.97
McGuire 2	9,131,060	1,158	90.01	88.84
Catawba 1	9,512,526	1,152	94.29	92.91
Catawba 2	9,324,723	1,150	92.56	91.78

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Duke Energy Carolinas
Power Plant Performance Data
Twelve Month Summary
August, 2016 through July, 2017
Combined Cycle Units

Unit Name		Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Buck CC	11	1,474,591	185	91.22	93.79
Buck CC	12	1,476,741	184	91.82	93.76
Buck CC	ST10	2,034,418	317	73.29	95.37
Buck CC	Block Total	4,985,750	685	83.09	94.50
Dan River CC	8	1,387,616	181	87.39	88.48
Dan River CC	9	1,392,224	182	87.48	88.66
Dan River CC	ST7	2,000,012	320	71.35	92.37
Dan River CC	Block Total	4,779,852	683	79.90	90.20

Notes:

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

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Duke Energy Carolinas
Power Plant Performance Data
Twelve Month Summary
August, 2016 through July, 2017

Baseload Steam Units

Unit Name	Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Belews Creek 1	5,933,504	1,110	61.02	89.75
Belews Creek 2	5,481,639	1,110	56.37	84.90
Marshall 3	2,770,892	658	48.07	69.54
Marshall 4	3,676,005	660	63.58	83.46

Notes:

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Duke Energy Carolinas
Power Plant Performance Data
Twelve Month Summary
August, 2016 through July, 2017

Intermediate Steam Units

Unit Name	Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Cliffside 6	5,030,283	844	68.04	84.29
Marshall 1	1,482,064	380	44.52	85.64
Marshall 2	1,155,448	380	34.71	75.21

Notes:

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Duke Energy Carolinas
Power Plant Performance Data
Twelve Month Summary
August, 2016 through July, 2017
Other Cycling Steam Units

Unit Name		Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Operating Availability (%)
Allen	1	95,708	165	6.63	78.64
Allen	2	145,458	165	10.07	91.23
Allen	3	306,029	266	13.12	67.40
Allen	4	219,121	280	8.95	68.63
Allen	5	462,326	271	19.46	91.75
Cliffside	5	877,703	555	18.04	90.13
Lee	3	142,270	172	9.46	70.96

Notes:

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Duke Energy Carolinas
Power Plant Performance Data
Twelve Month Summary
August, 2016 through July, 2017
Combustion Turbine Stations

Station Name	Net Generation (mWh)	Capacity Rating (mW)	Operating Availability (%)
Lee CT	81,046	83	89.87
Lincoln CT	6,353	1,395	97.02
Mill Creek CT	64,474	678	97.03
Rockingham CT	891,077	866	90.82

Notes:

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Duke Energy Carolinas
Power Plant Performance Data

Twelve Month Summary
August, 2016 through July, 2017
Hydroelectric Stations

Station Name	Net Generation (mWh)	Capacity Rating (mW)	Operating Availability (%)
Conventional Hydroelectric Stations:			
Bear Creek	2,988	9.5	34.68
Bridgewater	38,563	31.5	98.67
Bryson	3,322	0.9	76.02
Cedar Cliff	11,483	6.8	99.32
Cedar Creek	102,471	45.0	88.96
Cowans Ford	102,135	324.4	55.48
Dearborn	120,402	42.0	97.68
Fishing Creek	99,993	49.6	94.78
Franklin	2,319	1.0	85.30
Gaston Shoals	5,773	4.8	53.57
Great Falls	-30	12.0	98.28
Keowee	30,935	152.0	97.99
Lookout Shoals	70,034	27.4	92.73
Mission	3,064	1.8	68.44
Mountain Island	75,105	62.0	98.93
Nantahala	129,649	50.0	91.03
Ninety-Nine Islands	44,046	12.1	87.53
Oxford	59,365	40.0	47.52
Queens Creek	2,049	1.4	76.16
Rhodhiss	49,505	33.4	99.73
Rocky Creek	-192	12.8	0.00
Tennessee Creek	21,628	9.8	98.62
Thorpe	43,191	19.7	84.35
Tuckasegee	3,117	2.5	93.14
Tuxedo	11,971	6.4	70.43
Wateree	154,070	85.0	90.30
Wylie	87,175	72.0	88.42
Pumped Storage Hydroelectric Stations:			
Gross Generation			
Bad Creek	2,179,242	1,360.0	90.84
Jocassee	1,148,243	780.0	85.73
Energy for Pumping			
Bad Creek	-2,770,581		
Jocassee	-1,377,323		
Net Generation			
Bad Creek	-591,339		
Jocassee	-229,080		

Notes:

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Duke Energy Carolinas
Base Load Power Plant Performance Review Plan

Period: July, 2017

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	07/24/2017 - 07/25/2017	29.52	Unscheduled	Main generator lockout occurred during testing of relay associated with PCB-57 electrical generator output breaker (Turbine/Reactor Trip)	Automatic trip due to short induced by test equipment connection during testing activities	Plant response was as designed. Plant started up.
McGuire	1	None					
	2	None					
Catawba	1	None					
	2	None					

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Duke Energy Carolinas
Base Load Power Plant
Performance Review Plan
July 2017

Belews Creek Station

No Outages at Baseload Units During the Month.

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
9	7/26/2017 12:55:00 PM To 7/26/2017 8:30:00 PM	Unsch	5073	Gas Turbine - Flame Scanners	Closed cooling water leak on cooling coil on CAN 13- Replaced all 4 after inspection.	

Marshall Station

Unit	Duration of Outage	Type of Outage	Cause of Outage		Reason Outage Occurred	Remedial Action Taken
3	7/17/2017 7:44:00 PM To 7/19/2017 9:44:00 PM	Unsch	4279	Turbine - Miscellaneous Turbine Piping	Main Turbine Stop Valve Steam Drain Piping Repairs.	
3	7/19/2017 11:14:00 PM To 7/20/2017 12:33:00 AM	Unsch	0380	Light-off (Igniter) Systems (Including Fuel Supply)	Ignitor Header Relief Valve Leaking Through/ MFT Low Header Pressure.	
3	7/25/2017 2:07:00 AM To 7/25/2017 11:34:00 PM	Unsch	0760	Boiler Recirculation Valves	BCP Suction Header Pressure Transmitter Isolation Valve Packing Failure.	

Notes:

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

Duke Energy Carolinas
Base Load Power Plant Performance Review Plan

July 2017
Oconee Nuclear Station

	Unit 1		Unit 2		Unit 3	
(A) MDC (mW)	847		848		859	
(B) Period Hours	744		744		744	
(C) Net Gen (mWh) and Capacity Factor (%)	632,931	100.44	634,279	100.53	608,797	95.26
(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	25,355	3.97
* (G) Net mWh Not Gen due to Partial Forced Outages	-2,763	-0.44	-3,367	-0.53	4,944	0.77
* (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	630,168	100.00%	630,912	100.00%	639,096	100.00%
(K) Equivalent Availability (%)		100.00		100.00		95.58
(L) Output Factor (%)		100.44		100.53		99.19
(M) Heat Rate (BTU/NkWh)		10,303		10,291		10,255

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

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Duke Energy Carolinas
Base Load Power Plant Performance Review Plan

July 2017
McGuire Nuclear Station

	Unit 1		Unit 2	
(A) MDC (mW)	1158		1158	
(B) Period Hours	744		744	
(C) Net Gen (mWh) and Capacity Factor (%)	864,707	100.37	869,009	100.87
(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	0	0.00	19	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	-3,155	-0.37	-7,476	-0.87
* (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	861,552	100.00%	861,552	100.00%
(K) Equivalent Availability (%)		100.00		99.98
(L) Output Factor (%)		100.37		100.87
(M) Heat Rate (BTU/NkWh)		10,175		10,114

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

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Duke Energy Carolinas
Base Load Power Plant Performance Review Plan

July 2017
Catawba Nuclear Station

	Unit 1		Unit 2	
(A) MDC (mW)	1160		1150	
(B) Period Hours	744		744	
(C) Net Gen (mWh) and Capacity Factor (%)	864,782	100.20	854,424	99.86
(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	0	0.00	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	-1,742	-0.20	1,176	0.14
* (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	863,040	100.00%	855,600	100.00%
(K) Equivalent Availability (%)		100.00		100.00
(L) Output Factor (%)		100.20		99.86
(M) Heat Rate (BTU/NkWh)		10,170		10,122

* Estimate
FOOTNOTE: D and F Include Ramping Losses

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Duke Energy Carolinas
Base Load Power Plant
Performance Review Plan
July 2017

Belews Creek Station

	Unit 1	Unit 2
(A) MDC (mW)	1,110	1,110
(B) Period Hrs	744	744
(C) Net Generation (mWh)	714,174	686,502
(D) Capacity Factor (%)	86.48	83.13
(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	0	0
(J) Forced Outages: percent of Period Hrs	0.00	0.00
(K) Net mWh Not Generated due to Partial Forced Outages	0	387
(L) Forced Derates: percent of Period Hrs	0.00	0.05
(M) Net mWh Not Generated due to Economic Dispatch	111,666	138,951
(N) Economic Dispatch: percent of Period Hrs	13.52	16.83
(O) Net mWh Possible in Period	825,840	825,840
(P) Equivalent Availability (%)	100.00	99.95
(Q) Output Factor (%)	86.48	83.13
(R) Heat Rate (BTU/NkWh)	9,045	9,200

Notes:

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- (R) Includes Light Off BTU's

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Duke Energy Carolinas
Base Load Power Plant
Performance Review Plan
July 2017

Buck Combined Cycle Station

	Unit 11	Unit 12	Unit ST10	Block Total
(A) MDC (mW)	191	190	317	697
(B) Period Hrs	744	744	744	744
(C) Net Generation (mWh)	129,696	129,295	188,328	447,319
(D) Capacity Factor (%)	91.41	91.56	79.90	86.22
(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	9,449	8,779	3,571	21,799
(H) Scheduled Derates: percent of Period Hrs	6.66	6.22	1.52	4.20
(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	2,736	3,137	43,800	49,673
(N) Economic Dispatch: percent of Period Hrs	1.93	2.22	18.58	9.57
(O) Net mWh Possible in Period	141,881	141,211	235,699	518,791
(P) Equivalent Availability (%)	93.34	93.78	98.48	95.80
(Q) Output Factor (%)	91.41	91.56	79.90	86.22
(R) Heat Rate (BTU/NkWh)	11,298	11,029	2,250	7,411

Notes:

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- (R) Includes Light Off BTU's

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Duke Energy Carolinas
Base Load Power Plant
Performance Review Plan
July 2017

Dan River Combined Cycle Station

	Unit 8	Unit 9	Unit ST07	Block Total
(A) MDC (mW)	193	193	320	706
(B) Period Hrs	744	744	744	744
(C) Net Generation (mWh)	129,341	126,425	191,114	446,880
(D) Capacity Factor (%)	90.08	88.04	80.27	85.08
(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	16,368	16,201	0	32,569
(H) Scheduled Derates: percent of Period Hrs	11.40	11.28	0.00	6.20
(I) Net mWh Not Generated due to Full Forced Outages	0	1,464	0	1,464
(J) Forced Outages: percent of Period Hrs	0.00	1.02	0.00	0.28
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	1,122	1,122
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.47	0.21
(M) Net mWh Not Generated due to Economic Dispatch	0	0	45,844	45,844
(N) Economic Dispatch: percent of Period Hrs	0.00	0.00	19.26	8.73
(O) Net mWh Possible in Period	143,592	143,592	238,080	525,264
(P) Equivalent Availability (%)	88.60	87.70	99.53	93.31
(Q) Output Factor (%)	90.08	88.95	80.27	85.31
(R) Heat Rate (BTU/NkWh)	10,753	10,864	2,319	7,178

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Duke Energy Carolinas
Base Load Power Plant
Performance Review Plan
July 2017

Marshall Station

	Unit 3	Unit 4
(A) MDC (mW)	658	660
(B) Period Hrs	744	744
(C) Net Generation (mWh)	363,693	420,148
(D) Capacity Factor (%)	74.29	85.56
(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	47,880	0
(J) Forced Outages: percent of Period Hrs	9.78	0.00
(K) Net mWh Not Generated due to Partial Forced Outages	0	11,160
(L) Forced Derates: percent of Period Hrs	0.00	2.27
(M) Net mWh Not Generated due to Economic Dispatch	77,979	59,732
(N) Economic Dispatch: percent of Period Hrs	15.93	12.16
(O) Net mWh Possible in Period	489,552	491,040
(P) Equivalent Availability (%)	90.22	97.73
(Q) Output Factor (%)	82.34	85.56
(R) Heat Rate (BTU/NkWh)	9,324	9,171

Notes:

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Duke Energy Carolinas
Intermediate Power Plant Performance Review Plan
July 2017

		Cliffside Station
		Cliffside 6
(A)	**MDC (mW)**	844
(B)	**Period Hrs**	744
(C)	**Net Generation (mWh)**	579,510
(D)	**Net mWh Possible in Period**	627,936
(E)	**Equivalent Availability (%)**	99.96
(F)	**Output Factor (%)**	92.29
(G)	**Capacity Factor (%)**	92.29

Notes:

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Duke Energy Carolinas
Peaking Power Plant Performance
Review Plan
July 2017

		Cliffside Station Unit 5
(A)	**MDC (mW)**	556
(B)	**Period Hrs**	744
(C)	**Net Generation (mWh)**	131,578
(D)	**Net mWh Possible in Period**	413,664
(E)	**Equivalent Availability (%)**	98.77
(F)	**Output Factor (%)**	67.60
(G)	**Capacity Factor (%)**	31.81

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Duke Energy Carolinas
Base Load Power Plant Performance Review Plan

August 2016 - July 2017
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 (%)	6,840,005	92.19	7,555,342	101.71	7,573,707	100.65
(D) Net mWh Not Gen due to Full Schedule Outages	606,028	8.17	0	0.00	0	0.00
* (E) Net mWh Not Gen due to Partial Scheduled Outages	15,244	0.21	611	0.01	621	0.01
(F) Net mWh Not Gen due to Full Forced Outages	0	0.00	0	0.00	25,355	0.34
* (G) Net mWh Not Gen due to Partial Forced Outages	-41,557	-0.57	-127,473	-1.72	-74,843	-1.00
* (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 (%)		91.56		99.99		99.62
(L) Output Factor (%)		100.39		101.71		100.99
(M) Heat Rate (BTU/NkWh)		10,281		10,162		10,100

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

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Duke Energy Carolinas
Base Load Power Plant Performance Review Plan

August 2016 - July 2017
McGuire Nuclear Station

	Unit 1		Unit 2	
(A) MDC (mW)	1158		1158	
(B) Period Hours	8760		8760	
(C) Net Gen (mWh) and Capacity Factor (%)	10,334,571	101.88	9,131,060	90.01
(D) Net mWh Not Gen due to Full Schedule Outages	0	0.00	660,909	6.52
* (E) Net mWh Not Gen due to Partial Scheduled Outages	2,412	0.02	57,948	0.57
(F) Net mWh Not Gen due to Full Forced Outages	0	0.00	359,772	3.55
* (G) Net mWh Not Gen due to Partial Forced Outages	-192,903	-1.90	-65,609	-0.65
* (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 (%)		99.97		88.84
(L) Output Factor (%)		101.88		100.08
(M) Heat Rate (BTU/NkWh)		10,015		10,051

* Estimate
FOOTNOTE: D and F Include Ramping Losses

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Duke Energy Carolinas
Base Load Power Plant Performance Review Plan

August 2016 - July 2017
Catawba Nuclear Station

	Unit 1		Unit 2	
(A) MDC (mW)	1160		1150	
(B) Period Hours	8760		8760	
(C) Net Gen (mWh) and Capacity Factor (%)	9,512,526	94.29	9,324,723	92.56
(D) Net mWh Not Gen due to Full Schedule Outages	674,270	6.68	797,870	7.92
* (E) Net mWh Not Gen due to Partial Scheduled Outages	67,552	0.67	32,566	0.32
(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	-166,208	-1.64	-81,159	-0.80
* (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	10,088,140	100.00%	10,074,000	100.00%
(K) Equivalent Availability (%)		92.41		91.78
(L) Output Factor (%)		100.99		100.52
(M) Heat Rate (BTU/NkWh)		10,089		10,014

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

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Duke Energy Carolinas
Base Load Power Plant
Performance Review Plan
August, 2016 through July, 2017

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)	5,933,504	5,481,639
(D) Capacity Factor (%)	61.02	56.37
(E) Net mWh Not Generated due to Full Scheduled Outages	775,465	1,290,357
(F) Scheduled Outages: percent of Period Hrs	7.98	13.27
(G) Net mWh Not Generated due to Partial Scheduled Outages	88,210	0
(H) Scheduled Derates: percent of Period Hrs	0.91	0.00
(I) Net mWh Not Generated due to Full Forced Outages	106,320	113,461
(J) Forced Outages: percent of Period Hrs	1.09	1.17
(K) Net mWh Not Generated due to Partial Forced Outages	27,002	64,748
(L) Forced Derates: percent of Period Hrs	0.28	0.67
(M) Net mWh Not Generated due to Economic Dispatch	2,793,100	2,773,396
(N) Economic Dispatch: percent of Period Hrs	28.72	28.52
(O) Net mWh Possible in Period	9,723,600	9,723,600
(P) Equivalent Availability (%)	89.75	84.90
(Q) Output Factor (%)	85.20	82.37
(R) Heat Rate (BTU/NkWh)	9,077	9,159

Notes:

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Duke Energy Carolinas
Base Load Power Plant
Performance Review Plan
August, 2016 through July, 2017

Buck Combined Cycle Station

	Unit 11	Unit 12	Unit ST10	Block Total
(A) MDC (mW)	185	184	317	685
(B) Period Hrs	8,760	8,760	8,760	8,760
(C) Net Generation (mWh)	1,474,591	1,476,741	2,034,418	4,985,750
(D) Capacity Factor (%)	91.22	91.82	73.29	83.09
(E) Net mWh Not Generated due to Full Scheduled Outages	63,568	64,004	112,153	239,726
(F) Scheduled Outages: percent of Period Hrs	3.93	3.98	4.04	3.99
(G) Net mWh Not Generated due to Partial Scheduled Outages	36,285	33,727	13,715	83,727
(H) Scheduled Derates: percent of Period Hrs	2.24	2.10	0.49	1.40
(I) Net mWh Not Generated due to Full Forced Outages	1,179	2,984	2,605	6,768
(J) Forced Outages: percent of Period Hrs	0.07	0.19	0.09	0.11
(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	40,915	30,832	613,011	684,759
(N) Economic Dispatch: percent of Period Hrs	2.53	1.92	22.08	11.41
(O) Net mWh Possible in Period	1,616,539	1,608,288	2,775,903	6,000,729
(P) Equivalent Availability (%)	93.79	93.76	95.37	94.50
(Q) Output Factor (%)	95.22	95.91	76.45	86.72
(R) Heat Rate (BTU/NkWh)	10,435	10,281	1,926	6,918

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Duke Energy Carolinas
Base Load Power Plant
Performance Review Plan
August, 2016 through July, 2017

Dan River Combined Cycle Station

	Unit 8	Unit 9	Unit ST07	Block Total
(A) MDC (mW)	181	182	320	683
(B) Period Hrs	8,760	8,760	8,760	8,760
(C) Net Generation (mWh)	1,387,616	1,392,224	2,000,012	4,779,852
(D) Capacity Factor (%)	87.39	87.48	71.35	79.90
(E) Net mWh Not Generated due to Full Scheduled Outages	121,879	116,642	202,240	440,761
(F) Scheduled Outages: percent of Period Hrs	7.68	7.33	7.21	7.37
(G) Net mWh Not Generated due to Partial Scheduled Outages	59,688	59,698	0	119,386
(H) Scheduled Derates: percent of Period Hrs	3.76	3.75	0.00	2.00
(I) Net mWh Not Generated due to Full Forced Outages	5,620	8,541	9,125	23,286
(J) Forced Outages: percent of Period Hrs	0.35	0.54	0.33	0.39
(K) Net mWh Not Generated due to Partial Forced Outages	77	53	2,620	2,750
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.09	0.05
(M) Net mWh Not Generated due to Economic Dispatch	12,956	14,351	589,203	616,510
(N) Economic Dispatch: percent of Period Hrs	0.82	0.90	21.02	10.31
(O) Net mWh Possible in Period	1,587,836	1,591,509	2,803,200	5,982,545
(P) Equivalent Availability (%)	88.48	88.66	92.37	90.20
(Q) Output Factor (%)	95.11	94.95	77.17	86.64
(R) Heat Rate (BTU/NkWh)	10,695	10,665	2,109	7,094

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Duke Energy Carolinas
Base Load Power Plant
Performance Review Plan
August, 2016 through July, 2017

Marshall Station

	Unit 3	Unit 4
(A) MDC (mW)	658	660
(B) Period Hrs	8,760	8,760
(C) Net Generation (mWh)	2,770,892	3,676,005
(D) Capacity Factor (%)	48.07	63.58
(E) Net mWh Not Generated due to Full Scheduled Outages	1,608,459	672,474
(F) Scheduled Outages: percent of Period Hrs	27.90	11.63
(G) Net mWh Not Generated due to Partial Scheduled Outages	22,770	30,681
(H) Scheduled Derates: percent of Period Hrs	0.40	0.53
(I) Net mWh Not Generated due to Full Forced Outages	118,352	115,555
(J) Forced Outages: percent of Period Hrs	2.05	2.00
(K) Net mWh Not Generated due to Partial Forced Outages	6,008	137,435
(L) Forced Derates: percent of Period Hrs	0.10	2.38
(M) Net mWh Not Generated due to Economic Dispatch	1,237,599	1,149,450
(N) Economic Dispatch: percent of Period Hrs	21.47	19.88
(O) Net mWh Possible in Period	5,764,080	5,781,600
(P) Equivalent Availability (%)	69.54	83.46
(Q) Output Factor (%)	77.61	79.73
(R) Heat Rate (BTU/NkWh)	9,431	9,498

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Duke Energy Carolinas
Intermediate Power Plant
Performance Review Plan
August, 2016 through July, 2017

Cliffside Station

Units		Unit 6
(A)	**MDC (mW)**	844
(B)	**Period Hrs**	8,760
(C)	**Net Generation (mWh)**	5,030,283
(D)	**Net mWh Possible in Period**	7,393,440
(E)	**Equivalent Availability (%)**	84.29
(F)	**Output Factor (%)**	84.45
(G)	**Capacity Factor (%)**	68.04

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Duke Energy Carolinas
Peaking Power Plant
Performance Review Plan
August, 2016 through July, 2017

Cliffside Station

Units		Unit 5
(A)	**MDC (mW)**	555
(B)	**Period Hrs**	8,760
(C)	**Net Generation (mWh)**	877,703
(D)	**Net mWh Possible in Period**	4,864,704
(E)	**Equivalent Availability (%)**	87.53
(F)	**Output Factor (%)**	67.38
(G)	**Capacity Factor (%)**	18.04

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Duke Energy Carolinas
Outages for 100 mW or Larger Units
July, 2017

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	0.00	0.00	0.00
Catawba 1	1,160	0.00	0.00	0.00
Catawba 2	1,150	0.00	0.00	0.00

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Duke Energy Carolinas
Outages for 100 mW or Larger Units
July 2017

Unit Name	Capacity Rating (mW)	Full Outage Hours Scheduled	Full Outage Hours Unscheduled	Total Outage Hours
Allen Steam 1	167	15.50	0.00	15.50
Allen Steam 2	167	0.00	0.00	0.00
Allen Steam 3	270	0.00	0.00	0.00
Allen Steam 4	282	0.00	0.00	0.00
Allen Steam 5	275	4.00	38.38	42.38
Belews Creek Steam 1	1,110	0.00	0.00	0.00
Belews Creek Steam 2	1,110	0.00	0.00	0.00
Buck CC 11	191	0.00	0.00	0.00
Buck CC 12	190	0.00	0.00	0.00
Buck CC ST10	317	0.00	0.00	0.00
Cliffside Steam 5	556	0.00	0.00	0.00
Cliffside Steam 6	844	0.00	0.00	0.00
Dan River CC 8	193	0.00	0.00	0.00
Dan River CC 9	193	0.00	7.58	7.58
Dan River CC ST7	320	0.00	0.00	0.00
Lee Steam 3	173	143.98	172.25	316.23
Marshall Steam 1	380	0.00	22.85	22.85
Marshall Steam 2	380	26.00	0.00	26.00
Marshall Steam 3	658	0.00	72.77	72.77
Marshall Steam 4	660	0.00	0.00	0.00
Rockingham CT1	179	10.58	0.00	10.58
Rockingham CT2	179	10.28	0.00	10.28
Rockingham CT3	179	0.00	0.00	0.00
Rockingham CT4	179	0.00	0.00	0.00
Rockingham CT5	179	0.00	0.00	0.00

Notes:

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