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December 27, 2016

VIA ELECTRONIC FILING

The Honorable Jocelyn G. Boyd
Chief Clerk/Administrator
Public Service Commission of South Carolina
101 Executive Center Drive, Suite 100
Columbia, South Carolina 29210

Re: **Duke Energy Progress, LLC – Monthly Fuel Report**
Docket No. 2006-176-E

Dear Mrs. Boyd:

Pursuant to the Commission's Orders in Docket No. 1977-354-E, enclosed for filing is Duke Energy Progress, LLC's Monthly Fuel Report in Docket No. 2006-176-E for the month of November 2016.

Should you have any questions regarding this matter, please do not hesitate to contact me at 803-988-7130.

Sincerely,

Rebecca Dulin

Rebecca J. Dulin

Enclosure

cc: Ms. Dawn Hipp, Office of Regulatory Staff
Mr. Jeffrey M. Nelson, Office of Regulatory Staff
Ms. Shannon Bowyer Hudson, Office of Regulatory Staff
Ms. Nanette Edwards, Office of Regulatory Staff
Michael Seaman-Huynh, Office of Regulatory Staff
Ms. Heather Shirley Smith, Duke Energy
Mr. Scott Elliott, Elliott & Elliott, P.A.
Mr. Garrett Stone, Brickfield, Burchette, Ritts & Stone, PC
Mr. Gary Walsh, Walsh Consulting, LLC

Duke Energy Progress
Summary of Monthly Fuel Report

Schedule 1

Line No.	Item	November 2016
1	Fuel and Fuel-related Costs excluding DERP Incremental costs	$ 103,553,272
	MWH sales:	4,841,220
2	Total System Sales	455,572
3	Less Intersystem sales	
		4,385,648
4	Total sales less Intersystem sales	
5	Total fuel and fuel-related costs (¢/KWH) (Line 1/Line 4)	2.3612
6	Current fuel & fuel-related cost component (¢/KWH) (per Schedule 4)	2.3462
	Generation Mix (MWH):	
	Fossil (By Primary Fuel Type):	
7	Coal	478,496
8	Oil	1,464
9	Natural Gas - Combustion Turbine	684,916
10	Natural Gas - Combined Cycle	948,196
11	Total Fossil	2,113,060
12	Nuclear	2,283,966
13	Hydro - Conventional	10,657
14	Solar Distributed Generation	4,922
15	Total MWH generation	4,412,605

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

Schedule 2

Duke Energy Progress
Details of Fuel and Fuel-Related Costs

Description		November 2016
Fuel and Fuel-Related Costs:		
Steam Generation - Account 501		
0501110 coal consumed - steam		14,094,649
0501310 fuel oil consumed - steam		506,561
Total Steam Generation - Account 501		14,601,210
Nuclear Generation - Account 518		
0518100 burnup of owned fuel		16,273,933
0518600 - Disposal Cost		-
Total Nuclear Generation - Account 518		16,273,933
Other Generation - Account 547		
0547000 natural gas consumed - Combustion Turbine		25,214,679
0547000 natural gas consumed - Combined Cycle		28,314,977
0547200 fuel oil consumed		177,138
Total Other Generation - Account 547		53,706,794
Purchased Power and Net Interchange - Account 555		
Fuel and fuel-related component of purchased power		30,354,618
PURPA purchased power capacity		1,844,556
Total Purchased Power and Net Interchange - Account 555		32,199,174
Less fuel and fuel-related costs recovered through intersystem sales - Account 447		12,767,240
Total Costs Included in Base Fuel Component	$	103,013,872
Environmental Costs		
0509030, 0509212, 0557451 emission allowance expense	$	3,861
0502020, 0502030, 0502040, 0502080, 0502090, 0548020 reagents expense		798,499
Emission Allowance Gains		(90,000)
Less reagents expense recovered through intersystem sales - Account 447		148,721
Less emissions expense recovered through intersystem sales - Account 447		22,238
Total Costs Included in Environmental Component		539,401
Fuel and Fuel-related Costs excluding DERP incremental costs	$	103,553,272
DERP Incremental Costs		94,656
Total Fuel and Fuel-related Costs	$	103,647,928

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

DUKE ENERGY PROGRESS
PURCHASED POWER AND INTERCHANGE
SOUTH CAROLINA

NOVEMBER 2016

Purchased Power	Total	Capacity	Non-capacity		
Marketers, Utilities, Other	$	$	mWh	Fuel$	Non-fuel $
DE Carolinas - Emergency	$ (20,751)	-	-	$ (12,658)	$ (8,093)
Broad River Energy, LLC.	13,435,776	$ 1,042,394	312,562	12,393,382	-
City of Fayetteville	356,972	357,175	-	(203)	-
Haywood EMC	29,650	29,650	-	-	-
NCEMC	2,509,200	1,802,502	18,556	706,698	-
PJM Interconnection, LLC.	(13,783)	-	283	(13,783)	-
Smurfit Stone Container Corp	12,605	-	394	12,605	-
Southern Company Services	2,465,913	864,864	47,820	1,601,049	-
DE Carolinas - Native Load Transfer	2,677,692	-	107,311	2,677,934	(242)
DE Carolinas - Native Load Transfer Benefit	133,588	-	-	133,588	-
Generation Imbalance	1,816		108	1,053	763
	$ 21,588,678	$ 4,096,585	487,034	$ 17,499,665	$ (7,572)
Act 236 PURPA Purchases					
Renewable Energy	$ 11,055,020	-	176,116	$ 11,055,020	$ -
Other Qualifying Facilities	3,644,489	-	57,174	3,644,489	-
	$ 14,699,509	$ -	233,290	$ 14,699,509	$ -
Total Purchased Power	$ 36,288,187	$ 4,096,585	720,324	$ 32,199,174	$ (7,572)

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

DUKE ENERGY PROGRESS
INTERSYSTEM SALES*
SOUTH CAROLINA

NOVEMBER 2016

Sales	Total $	Capacity $	Non-capacity mWh	Non-capacity Fuel$	Non-capacity Non-fuel$
Market Based:					
NCEMC Purchase Power Agreement	$ 915,580	652,500	8,725	$ 278,579	$ (15,499)
PJM Interconnection, LLC.	44,668	-	1,127	37,774	6,894
Other:					
DE Carolinas - Native Load Transfer Benefit	880,465	-	-	880,465	-
DE Carolinas - Native Load Transfer	12,527,492	-	445,667	11,741,326	786,166
Generation Imbalance	67	-	53	55	12
Total Intersystem Sales	$ 14,368,272	$ 652,500	455,572	$ 12,938,199	$ 777,573

* Sales for resale other than native load priority.

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

Duke Energy Progress
Over / (Under) Recovery of Fuel Costs
November 2016

Line No.			Total Residential	General Service Non-Demand	Demand	Lighting	Total
1	Actual System kWh sales	Input					4,385,647,947
2	DERP Net Metered kWh generation	Input					65,583
3	Adjusted System kWh sales	L1 + L2					4,385,713,530
4	Actual S.C. Retail kWh sales	Input	127,271,488	20,115,032	339,068,821	7,492,259	493,947,600
5	DERP Net Metered kWh generation	Input	55,648	9,936	-		65,583
6	Adjusted S.C. Retail kWh sales	L4 + L5	127,327,136	20,124,968	339,068,821	7,492,259	494,013,183
7	Actual S.C. Demand units (kw)	L32/31b * 100			732,900		
Base fuel component of recovery • non-capacity							
8	Incurred System base fuel - non-capacity expense	Input					$101,169,316
9	Eliminate avoided fuel benefit of S.C. net metering	Input					$2,158
10	Adjusted Incurred System base fuel • non-capacity expense	L8 + L9					$101,171,474
11	Adjusted Incurred System base fuel • non-capacity rate (¢/kWh)	L10 / L3 * 100					2.307
12	S.C. Retail portion of adjusted incurred system expense	L6 * L11 / 100	$2,937,236	$464,251	$7,821,781	$172,835	$11,396,103
13	Assign 100 % of Avoided Fuel Benefit of S.C net metering	Input	($1,271)	($123)	($764)	$0	($2,158)
14	S.C. Retail portion of incurred system expense	L12 + L13	$2,935,965	$464,128	$7,821,017	$172,835	$11,393,945
15	Billed base fuel - non-capacity rate (¢/kWh) • Note 1	Input	2.229	2.229	2.229	2.229	2.229
16	Billed base fuel - non-capacity revenue	L4 * L15 / 100	$2,836,999	$448,364	$7,557,844	$167,002	$11,010,209
17	DERP NEM Incentive - fuel component	Input	($301)	($29)	($181)	$0	($512)
18	Adjusted S.C. billed base fuel • non-capacity revenue	L16 + L17	$2,836,698	$448,335	$7,557,663	$167,002	$11,009,697
19	S.C. base fuel - non-capacity over/(under) recovery	L18 - L14	($99,268)	($15,793)	($263,354)	($5,833)	($384,248)
20	Adjustment	Input	$0	$0	$0	$0	$0
21	Total S.C. base fuel - non-capacity over/(under) recovery	L19 + L20	($99,268)	($15,793)	($263,354)	($5,833)	($384,248)
Base fuel component of recovery - capacity							
22a	Incurred base fuel - capacity rates by class (¢/kWh)	L23 / L4 * 100	0.096	0.059			
22b	Incurred base fuel - capacity rate (¢/kW)	L23 / L7 * 100			10		
23	Incurred S.C. base fuel - capacity expense	Input	$122,347	$11,848	573,554		$207,749
24a	Billed base fuel - capacity rates by class (¢/kWh)	Input	0.181	0.128			
24b	Billed base fuel • capacity rate (¢/kW)	Input			30		
25	Billed S.C. base fuel • capacity revenue	L24a * L4 /100	$229,890	$25,747	$ 219,874	$0	$475,511
26	S.C. base fuel • capacity over/(under) recovery	L25 - L23	$107,543	$13,899	$146,320	$0	$267,762
27	Adjustment	Input	$0	$0	$0	$0	$0
28	Total S.C. base fuel - capacity over/(under) recovery	L26 + L27	$107,543	$13,899	$146,320	$0	$267,762
Environmental component of recovery							
29a	Incurred environmental rates by class (¢/kWh)	L30 / L4 * 100	0.028	0.017			
29b	Incurred environmental rate (¢/kW)	L30 / L7 * 100			3		
30	Incurred S.C. environmental expense	Input	$35,778	$3,465	$21,509		$60,752
31a	Billed environmental rates by class (¢/kWh)	Input	0.042	0.031			
31b	Billed environmental rate (¢/kW)	Input			6		
32	Billed S.C. environmental revenue	L31a * L4 /100	$53,052	$6,236	$ 43,974		$103,262
33	S.C. environmental over/(under) recovery	L32 - L30	$17,274	$2,771	$ 22,465	$0	$42,510
34	Adjustment	Input	$0	$0	$0	$0	$0
35	Total S.C. environmental over/(under) recovery	L33 + L34	$17,274	$2,771	$22,465	$0	$42,510
36	Total over / (under) recovery	L21 + L28 + L35	$25,549	$877	($94,569)	($5,833)	($73,976)

Duke Energy Progress
Over / (Under) Recovery of Fuel Costs
November 2016

Year 2016-2017

Cumulative over / (under) recovery	Cumulative	Total Residential	General Service Non-Demand	General Service Demand	Lighting	Subtotal	Prior Period Adjustments	Total
Balance ending February 2016	(8,178,450)							
March 2016 - actual	(5,113,937)	$1,257,169	$149,823	$1,614,366	$43,155	$3,064,513	$0	$3,064,513
_f2 April 2016 - actual	(2,862,055)	$579,097	$91,208	$1,546,143	$35,434	$2,251,882	$0	$2,251,882
May 2016 - actual	(2,055,487)	$166,326	$33,470	$597,607	$9,165	$806,568	$0	$806,568
_f2 June 2016 - actual	(1,637,768)	$134,334	$21,348	$171,533	$18,077	$345,292	$72,427	$417,719
July 2016 - actual	(4,566,718)	($1,099,935)	($153,840)	($1,737,737)	($37,438)	($3,028,950)	$0	($3,028,950)
August 2016 - actual	(6,488,778)	($647,989)	($90,105)	($1,162,202)	($21,762)	($1,922,058)	$0	($1,922,058)
September 2016 - actual	(6,674,119)	($78,301)	($4,082)	($101,162)	($1,798)	($185,343)	$0	($185,343)
October 2016 - actual	(7,344,031)	($115,489)	($21,964)	($382,824)	($9,635)	($569,912)	$0	($569,912)
November 2016 - actual	(7,418,007)	$25,549	$877	($94,569)	($5,833)	($73,976)	$0	($73,976)
_f3 December 2016 - forecast	(7,267,183)	$129,464	($7,043)	$28,502	($99)	$150,824	$0	$150,824
_f3 January 2017 - forecast	(7,353,644)	$58,959	($14,214)	($129,110)	($2,096)	($86,461)	$0	($86,461)
_f3 February 2017 - forecast	(7,332,709)	$58,164	($7,964)	($29,709)	$444	$20,935	$0	$20,935
_f3 March 2017 - forecast	(8,381,305)	($321,664)	($44,048)	($685,738)	($17,146)	($1,048,596)	$0	($1,048,596)
_f3 April 2017 - forecast	(8,336,566)	($71,846)	$3,504	$110,330	$2,751	$44,739	$0	$44,739
_f3 May 2017 - forecast	(7,424,575)	$253,800	$46,260	$597,089	$14,842	$911,991	$0	$911,991
_f3 June 2017 - forecast	(7,402,437)	($22,499)	($1,941)	$45,804	$884	$22,138	$0	$22,138

Line No.			Residential	Commercial	Industrial	Total
Distributed Energy Resource Program component of recovery: incremental costs						
37	Incurred S.C. DERP incremental expense	Input	$55,745	$24,475	$14,436	$94,656
38	Billed S.C. DERP incremental rates by account (Discount)	Input	0.35	0.70	62.56	
39	Billed S.C. DERP incremental revenue	Input	$48,004	$22,471	$15,844	$86,319
40	S.C. DERP incremental over/(under) recovery	L39 - L37	($7,741)	($2,004)	$1,408	($8,337)
41	Adjustment	Input	$0	$0	$0	$0
42	Total S.C. DERP incremental over/(under) recovery	L40 + L41	($7,741)	($2,004)	$1,408	($8,337)

Year 2016-2017

Cumulative over / (under) recovery	Cumulative	Residential	Commercial	Industrial	Subtotal	Prior Period Adjustments	Total
Balance ending February 2016	(409,036)						
March 2016 - actual	(332,983)	$47,587	$24,676	$3,790	$76,053	$0	$76,053
_f2 April 2016 - actual	(239,880)	$57,498	$29,093	$6,512	$93,103	$0	$93,103
May 2016 - actual	(230,645)	$8,264	$7,454	($6,483)	$9,235	$0	$9,235
June 2016 - actual	(363,127)	($75,641)	($29,326)	($27,515)	($132,482)	$0	($132,482)
July 2016 - actual	(227,737)	$76,805	$35,021	$23,764	$135,390	$0	$135,390
August 2016 - actual	(230,217)	($5,161)	($836)	$3,517	($2,480)	$0	($2,480)
September 2016 - actual	(238,229)	($8,705)	($1,534)	$2,227	($8,012)	$0	($8,012)
October 2016 - actual	(239,973)	($5,679)	($1,069)	$3,004	($3,744)	$0	($3,744)
November 2016 - actual	(248,310)	($7,741)	($2,004)	$1,408	($8,337)	$0	($8,337)
_f3 December 2016 - forecast	(263,936)	($11,565)	($5,098)	$1,037	($15,626)	$0	($15,626)
_f3 January 2017 - forecast	(291,177)	($18,310)	($8,106)	($825)	($27,241)	$0	($27,241)
_f3 February 2017 - forecast	(325,990)	($22,743)	($10,080)	($1,990)	($34,813)	$0	($34,813)
_f3 March 2017 - forecast	(422,220)	($58,822)	($25,969)	($11,439)	($96,230)	$0	($96,230)
_f3 April 2017 - forecast	(530,754)	($66,107)	($29,157)	($13,270)	($108,534)	$0	($108,534)
_f3 May 2017 - forecast	(648,739)	($71,670)	($31,571)	($14,744)	($117,985)	$0	($117,985)
_f3 June 2017 - forecast	(776,103)	($77,161)	($33,994)	($16,189)	($127,364)	$0	($127,364)

Notes:

Detail amounts may not recalculate due to percentages presented as rounded.

_f1 Total residential billed fuel rate is a composite rate reflecting the approved residential rate of 2.246 and RECD 5% discount.

_f2 Includes prior period adjustments.

_f3 Forecast amounts based on low end of range of expected fuel rates.

Duke Energy Progress
Fuel and Fuel Related Cost Report
November 2018

Description	Weatherspoon CT	Lee CC	Sutton CC/CT	Robinson Nuclear	Asheville Steam	Asheville CT	Roxboro Steam	Mayo Steam
Cost of Fuel Purchased ($)								
Coal	-	-	-	-	$2,450,312	-	$39,685,384	$56,070
Oil	-	-	-	(5,776)	192,048	-	204,218	461,482
Gas - CC	-	7,954,112	9,564,878	-	-	-	-	-
Gas - CT	24	-	-	-	-	1,055,009	-	-
Total	$24	$7,954,112	$9,564,878	($5,776)	$2,642,360	$1,055,009	$39,889,582	$517,552
Average Cost of Fuel Purchased ($/MBTU)								
Coal	-	-	-	-	291.63	-	314.15	0.00
Oil	-	-	-	-	1,321.28	-	1,219.85	1,264.99
Gas - CC	-	481.82	482.12	-	-	-	-	-
Gas - CT	-	-	-	-	-	357.85	-	-
Weighted Average	-	481.82	482.12	-	309.14	357.85	315.35	1,418.89
Cost of Fuel Burned ($)								
Coal	-	-	-	-	$2,188,402	-	$6,358,181	$5,546,065
Oil - CC	-	-	27,969	-	-	-	-	-
Oil - Steam/CT	24,904	-	4,015	-	101,248	71,817	138,715	268,598
Gas - CC	-	7,954,112	9,564,878	-	-	-	-	-
Gas - CT	24	-	-	-	-	1,055,009	-	-
Nuclear	-	-	-	3,780,137	-	-	-	-
Total	$24,927	$7,954,112	$9,596,862	$3,780,137	$2,289,650	$1,126,825	$6,496,897	$5,814,664
Average Cost of Fuel Burned ($/MBTU)								
Coal	-	-	-	-	149.44	-	326.24	318.20
Oil - CC	-	-	1,947.55	-	-	-	-	-
Oil - Steam/CT	1,549.55	-	2,021.60	-	1,417.64	1,417.64	1,049.07	1,152.66
Gas - CC	-	481.82	482.12	-	-	-	-	-
Gas - CT	-	-	-	-	-	357.85	-	-
Nuclear	-	-	-	65.96	-	-	-	-
Weighted Average	1,551.01	481.82	483.33	65.96	155.59	375.76	331.11	328.13
Average Cost of Generation (¢/kWh)								
Coal	-	-	-	-	1.81	-	3.30	3.36
Oil - CC	-	-	27.03	-	-	-	-	-
Oil - Steam/CT	177.68	-	-	-	16.96	15.68	-	12.18
Gas - CC	-	3.84	3.40	-	-	-	-	-
Gas - CT	-	-	-	-	-	4.02	-	-
Nuclear	-	-	-	0.69	-	-	-	-
Weighted Average	178.05	3.84	3.41	0.69	1.88	4.22	3.41	3.48
Burned MBTU's								
Coal	-	-	-	-	1,464,432	-	1,948,925	1,743,554
Oil - CC	-	-	1,436	-	-	-	-	-
Oil - Steam/CT	1,607	-	199	-	7,142	5,066	13,223	23,129
Gas - CC	-	1,722,345	1,983,879	-	-	-	-	-
Gas - CT	-	-	-	-	-	294,817	-	-
Nuclear	-	-	-	5,730,903	-	-	-	-
Total	1,607	1,722,345	1,985,513.73	5,730,903	1,471,574	299,882.94	1,962,148	1,766,683
Net Generation (mWh)								
Coal	-	-	-	-	121,099	-	192,433	164,964
Oil - CC	-	-	127	-	-	-	-	-
Oil - Steam/CT	14	-	(29)	-	597	453	(1,805)	2,188
Gas - CC	-	207,111	281,491	-	-	-	-	-
Gas - CT	-	-	-	-	-	28,260	-	-
Nuclear	-	-	-	549,817	-	-	-	-
Hydro (Total System)								
Solar (Total System)								
Total	14	207,111	281,589	549,817	121,696	26,713	190,628	167,152
Cost of Reagents Consumed ($)								
Ammonia	-	-	-	-	-	-	$31,382	$30,847
Limestone	-	-	-	-	110,894	-	181,859	181,474
Re-emission Chemical	-	-	-	-	-	-	-	-
Sorbents	-	-	-	-	-	-	74,761	89,355
Urea	-	-	-	-	78,602	-	-	-
Total	-	-	-	-	189,295	-	288,003	301,676

Notes:

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

Schedule excludes in-transit, terminal and tolling agreement 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 DUK Energy Progress.

Lee and Wayne oil burn is associated with inventory consumption shown on Schedule 6 for Wayne.

Duke Energy Progress
Fuel and Fuel Related Cost Report
November 2016

Description	Brunswick Nuclear	Blewett CT	Wayne County CT	Darlington CT	Smith Energy Complex CC/CT	Harris Nuclear	Current Month	Total 12 ME November 2016
Cost of Fuel Purchased ($)								
Coal	-	-	-	-	-	-	$42,191,746	$345,831,443
Oil	(11,564)	-	-	-	-	2,584	842,992	12,596,248
Gas - CC	-	-	-	-	10,796,187	-	28,314,977	522,046,988
Gas - CT	-	-	8,823,957	564,385	14,771,305	-	25,214,679	148,386,948
Total	(11,564)	-	$8,823,957	$564,385	$25,567,492	2,584	$96,564,394	$1,028,861,625
Average Cost of Fuel Purchased (¢/MBTU								
Coal	-	-	-	-	-	-	313.17	318.31
Oil	-	-	-	-	-	250.15	1,225.40	1,017.04
Gas - CC	-	-	-	-	339.22	-	411.02	390.30
Gas - CT	-	-	328.42	361.38	338.97	-	336.40	344.72
Weighted Average	-	-	328.42	361.38	339.08	250.15	345.79	358.88
Cost of Fuel Burned ($)								
Coal	-	-	-	-	-	-	$14,094,649	$387,788,842
Oil - CC	-	-	-	-	22,273	-	50,242	183,998
Oil - Steam/CT	-	-	4,782	21,378	-	-	633,457	14,172,102
Gas - CC	-	-	-	-	10,796,187	-	28,314,977	522,046,988
Gas - CT	-	-	8,823,957	564,385	14,771,305	-	25,214,679	148,386,948
Nuclear	8,581,356	-	-	-	-	2,912,440	15,273,933	193,699,702
Total	$8,581,356	$0	$8,828,739	$585,763	$25,589,766	$2,912,440	$83,581,938	$1,266,238,581
Average Cost of Fuel Burned (¢/MBTU)								
Coal	-	-	-	-	-	-	273.32	325.14
Oil - CC	-	-	-	-	1,677.16	-	1,817.64	1,903.70
Oil - Steam/CT	-	-	1,799.70	1,771.64	-	-	1,222.00	1,299.61
Gas - CC	-	-	-	-	339.22	-	411.02	390.30
Gas - CT	-	-	328.42	361.38	338.97	-	336.40	344.72
Nuclear	64.23	-	-	-	-	64.80	64.76	63.60
Weighted Average	64.23	-	328.56	372.19	339.31	64.80	193.56	210.45
Average Cost of Generation (¢/kWh)								
Coal	-	-	-	-	-	-	2.95	3.44
Oil - CC	-	-	-	-	19.04	-	20.59	-
Oil - Steam/CT	-	-	16.98	-	-	-	52.36	16.86
Gas - CC	-	-	-	-	2.35	-	2.99	2.79
Gas - CT	-	-	3.46	4.38	3.78	-	3.88	3.75
Nuclear	0.65	-	-	-	-	0.70	0.67	0.66
Weighted Average	0.65	-	3.46	4.62	3.01	0.70	1.89	1.98
Burned MBTU's								
Coal	-	-	-	-	-	-	5,156,912	119,260,414
Oil - CC	-	-	-	-	1,328	-	2,764	8,615
Oil - Steam/CT	-	-	266	1,207	-	-	51,838	1,090,486
Gas - CC	-	-	-	-	3,182,670	-	6,888,894	133,753,654
Gas - CT	-	-	2,686,809	156,177	4,357,690	-	7,495,493	43,045,988
Nuclear	13,360,741	-	-	-	-	4,494,642	23,586,286	304,536,449
Total	13,360,741	-	2,687,075	157,384	7,541,688	4,494,642	43,182,187	601,695,606
Net Generation (mWh)								
Coal	-	-	-	-	-	-	478,496	11,260,454
Oil - CC	-	-	-	-	117	-	244	(144)
Oil - Steam/CT	-	(36)	25	(198)	-	-	1,210	84,070
Gas - CC	-	-	-	-	459,594	-	948,196	18,686,217
Gas - CT	-	-	255,238	12,875	390,542	-	684,915	3,957,000
Nuclear	1,318,096	-	-	-	-	416,053	2,283,966	29,324,005
Hydro (Total System)							10,867	555,142
Solar (Total System)							4,922	164,118
Total	1,318,096	(36)	255,263	12,677	850,253	416,053	4,412,605	64,030,862
Cost of Reagents Consumed ($)								
Ammonia	-	-	-	-	$17,524	-	$79,753	$3,151,098
Limestone	-	-	-	-	-	-	474,027	10,090,843
Re-emission Chemical	-	-	-	-	-	-	-	117,168
Sorbents	-	-	-	-	-	-	164,117	3,630,459
Urea	-	-	-	-	-	-	78,602	999,339
Total	-	-	-	-	17,524	-	796,499	17,988,906

Duke Energy Progress
Fuel & Fuel-related Consumption and Inventory Report
November 2016

Description	Weatherspoon	Lee	Sutton	Robinson	Asheville
Coal Data:					
Beginning balance	-	-	-	-	56,622
Tons received during period	-	-	-	-	33,710
Inventory adjustments	-	-	-	-	91,053
Tons burned during period	-	-	-	-	57,901
Ending balance	-	-	-	-	123,484
MBTUs per ton burned	-	-	-	-	25.29
Cost of ending inventory ($/ton)	-	-	-	-	37.80
Oil Data:					
Beginning balance	616,735	-	3,181,492	85,498	3,076,587
Gallons received during period	-	-	-	-	105,325
Miscellaneous use and adjustments	(223)	-	-	-	(3,894)
Gallons burned during period	11,482	-	11,414	7,458	88,623
Ending balance	605,030	-	3,170,078	78,040	3,089,195
Cost of ending inventory ($/gal)	2.17	-	2.80	2.83	1.95
Gas Data:					
Beginning balance	-	-	-	-	-
MCF received during period	-	1,668,176	1,922,535	-	287,138
MCF burned during period	-	1,668,176	1,922,535	-	287,138
Ending balance	-	-	-	-	-
Limestone/Lime Data:					
Beginning balance	-	-	-	-	17,990
Tons received during period	-	-	-	-	1,975
Inventory adjustments	-	-	-	-	-
Tons consumed during period	-	-	-	-	2,970
Ending balance	-	-	-	-	16,995
Cost of ending inventory ($/ton)	-	-	-	-	35.88

Notes:
Detail amounts may not add to totals shown due to rounding.
Schedule excludes in-transit, terminal and tolling agreement activity.
Gas is burned as received; therefore, inventory balances are not maintained.
The oil inventory data for Wayne reflects the common usage of the oil tank used for both Wayne and Lee units.

Duke Energy Progress
Fuel & Fuel-related Consumption and Inventory Report
November 2016

Description	Roxboro	Mayo	Brunswick	Blewett	Wayne County
Coal Data:					
Beginning balance	676,060	419,575	-	-	-
Tons received during period	492,109	-	-	-	-
Inventory adjustments	-	-	-	-	-
Tons burned during period	78,955	68,829	-	-	-
Ending balance	1,089,214	350,746	-	-	-
MBTUs per ton burned	24.68	25.33	-	-	-
Cost of ending inventory ($/ton)	80.49	80.61	-	-	-
Oil Data:					
Beginning balance	441,844	202,671	171,172	806,838	11,853,504
Gallons received during period	121,334	264,353	-	-	-
Miscellaneous use and adjustments	(15,044)	(3,886)	-	-	-
Gallons burned during period	95,817	167,727	4,686	-	1,929
Ending balance	452,317	295,411	166,486	806,838	11,851,575
Cost of ending inventory ($/gal)	1.45	1.59	2.83	2.34	2.48
Gas Data:					
Beginning balance	-	-	-	-	-
MCF received during period	-	-	-	-	2,574,663
MCF burned during period	-	-	-	-	2,574,663
Ending balance	-	-	-	-	-
Limestone/Lime Data:					
Beginning balance	35,461	20,855	-	-	-
Tons received during period	55,497	5,563	-	-	-
Inventory adjustments	-	-	-	-	-
Tons consumed during period	5,079	5,042	-	-	-
Ending balance	85,879	21,376	-	-	-
Cost of ending inventory ($/ton)	33.28	33.77	-	-	-

Duke Energy Progress
Fuel & Fuel-related Consumption and Inventory Report
November 2016

Description	Darlington	Smith Energy Complex	Harris	Current Month	Total 12 ME November 2016
Coal Data:					
Beginning balance	-	-	-	1,152,257	2,022,858
Tons received during period	-	-	-	525,819	4,297,371
Inventory adjustments	-	-	-	91,053	(4,353)
Tons burned during period	-	-	-	205,685	4,752,232
Ending balance	-	-	-	1,563,444	1,563,444
MBTUs per ton burned	-	-	-	25.07	25.10
Cost of ending inventory ($/ton)	-	-	-	77.14	77.14
Oil Data:					
Beginning balance	10,089,667	7,855,756	274,894	38,656,658	38,113,251
Gallons received during period	-	-	7,482	498,494	8,974,768
Miscellaneous use and adjustments	-	-	-	(23,047)	(295,020)
Gallons burned during period	8,744	9,486	-	407,566	8,068,460
Ending balance	10,080,923	7,846,270	282,376	38,724,539	38,724,539
Cost of ending inventory ($/gal)	2.44	2.35	2.63	2.41	2.41
Gas Data:					
Beginning balance	-	-	-	-	-
MCF received during period	151,441	7,306,938	-	13,910,891	170,981,576
MCF burned during period	151,441	7,306,938	-	13,910,891	170,981,576
Ending balance	-	-	-	-	-
Limestone/Lime Data:					
Beginning balance	-	-	-	74,306	113,821
Tons received during period	-	-	-	63,035	291,494
Inventory adjustments	-	-	-	-	11,405
Tons consumed during period	-	-	-	13,091	292,470
Ending balance	-	-	-	124,250	124,250
Cost of ending inventory ($/ton)	-	-	-	33.72	33.72

Schedule 7

DUKE ENERGY PROGRESS

ANALYSIS OF COAL PURCHASED

NOVEMBER 2016

STATION	TYPE	QUANTITY OF TONS DELIVERED	DELIVERED COST	DELIVERED COST PER TON
ASHEVILLE	SPOT	-	$ -	-
	CONTRACT	33,711	2,360,421	70.02
	ADJUSTMENTS	-	89,891	-
	TOTAL	33,711	2,450,312	72.69
MAYO	SPOT	-	-	-
	CONTRACT	-	(41,987)	-
	ADJUSTMENTS	-	98,057	-
	TOTAL	-	56,070	-
ROXBORO	SPOT	-	-	-
	CONTRACT	492,109	39,133,530	79.52
	ADJUSTMENTS	-	551,833	-
	TOTAL	492,109	39,685,364	80.64
ALL PLANTS	SPOT	-	-	-
	CONTRACT	525,819	41,451,964	78.83
	ADJUSTMENTS	-	739,782	-
	TOTAL	525,819	$ 42,191,746	$ 80.24

Schedule 8

DUKE ENERGY PROGRESS

ANALYSIS OF COAL QUALITY RECEIVED

NOVEMBER 2016

STATION	PERCENT MOISTURE	PERCENT ASH	HEAT VALUE	PERCENT SULFUR
ASHEVILLE	6.30	10.39	12,462	1.50
MAYO	6.19	7.62	12,889	2.96
ROXBORO	6.14	8.48	12,835	2.25

DUKE ENERGY PROGRESS

ANALYSIS OF OIL PURCHASED

NOVEMBER 2016

	ASHEVILLE	MAYO	HARRIS
VENDOR	Charlotte Tank Farm	Charlotte Tank Farm and Greensboro Tank Farm	Selma Tank Farm
SPOT/CONTRACT	Contract	Contract	Contract
SULFUR CONTENT %	0	0	0
GALLONS RECEIVED	105,325	264,353	7,482
TOTAL DELIVERED COST	$ 192,048	$ 461,482	$ 2,584
DELIVERED COST/GALLON	$ 1.82	$ 1.75	$ 0.35
BTU/GALLON	138,000	138,000	138,000

	ROXBORO
VENDOR	Charlotte Tank Farm and Greensboro Tank Farm
SPOT/CONTRACT	Contract
SULFUR CONTENT %	0
GALLONS RECEIVED	121,334
TOTAL DELIVERED COST	$ 204,218
DELIVERED COST/GALLON	$ 1.68
BTU/GALLON	138,000

Note:
Price adjustments of $(11,564) and $(5,776) for the Brunswick and Robinson stations, respectively, are excluded.

Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
December, 2015 - November, 2016
Nuclear Units

Unit Name	Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Brunswick 1	7,302,044	938	88.62	88.78
Brunswick 2	8,096,028	932	98.89	99.48
Harris 1	7,494,158	928	91.94	90.14
Robinson 2	6,431,775	741	98.81	96.45

Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
December, 2015 through November, 2016
Combined Cycle Units

Unit Name		Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Lee Energy Complex	1A	1,288,335	196	74.79	85.68
Lee Energy Complex	1B	1,307,916	195	76.32	89.52
Lee Energy Complex	1C	1,334,747	197	77.03	90.18
Lee Energy Complex	ST1	2,529,122	378	76.09	84.05
Lee Energy Complex	Block Total	6,460,120	967	76.06	86.64
Richmond County CC	7	994,702	172	65.82	73.97
Richmond County CC	8	978,902	170	65.44	73.53
Richmond County CC	ST4	1,122,149	169	75.52	73.63
Richmond County CC	9	1,360,336	193	80.26	88.81
Richmond County CC	10	1,360,081	193	80.25	88.42
Richmond County CC	ST5	1,780,813	248	81.64	86.26
Richmond County CC	Block Total	7,596,983	1,146	75.49	81.71
Sutton Energy Complex	1A	1,412,811	198	81.19	95.75
Sutton Energy Complex	1B	1,449,937	198	83.32	97.00
Sutton Energy Complex	ST1	1,766,222	265	75.81	95.86
Sutton Energy Complex	Block Total	4,628,970	662	79.67	96.04

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

Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
December, 2015 through November, 2016

Intermediate Steam Units

Unit Name	Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Mayo 1	1,950,635	735	30.22	87.97
Roxboro 3	2,090,177	694	34.29	91.24
Roxboro 4	2,174,711	703	35.20	95.31

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

Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
December, 2015 through November, 2016

Baseload Steam Units

Unit Name	Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Roxboro 2	2,810,418	672	47.62	89.22

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

Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
December, 2015 through November, 2016
Other Cycling Steam Units

Unit Name	Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Operating Availability (%)
Asheville 1	696,171	190	41.66	81.12
Asheville 2	554,073	190	33.23	80.28
Roxboro 1	1,045,018	379	31.36	98.35

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

Duke Energy Progress
Power Plant Performance Data
Twelve Month Summary
December, 2015 through November, 2016
Combustion Turbine Stations

Station Name	Net Generation (mWh)	Capacity Rating (mW)	Operating Availability (%)
Asheville CT	197,432	343	92.31
Blewett CT	-59	59	98.97
Darlington CT	111,684	808	92.12
Richmond County CT	3,122,478	837	88.75
Sutton CT	-515	67	91.98
Wayne County CT	548,944	903	92.20
Weatherspoon CT	357	143	96.50

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

Duke Energy Progress
Power Plant Performance Data

Twelve Month Summary
December, 2015 through November, 2016
Hydroelectric Stations

Station Name	Net Generation (mWh)	Capacity Rating (mW)	Operating Availability(%)
Blewett	82,723	27.0	72.69
Marshall	8,760	4.0	47.98
Tillery	181,047	84.0	97.35
Walters	282,612	113.0	92.72