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August 21, 2020

VIA ELECTRONIC FILING

Ms. Kimberley A. Campbell, Chief Clerk North Carolina Utilities Commission 4325 Mail Service Center Raleigh, North Carolina 27699-4300

RE: Duke Energy Progress, LLC's Supplemental Testimony and Revised Exhibits and Workpapers of Dana M. Harrington Docket No. E-2, Sub 1250

Dear Ms. Campbell:

Enclosed please find the Supplemental Testimony and Revised Exhibits and Workpapers of Dana M. Harrington.

If you have any questions, please do not hesitate to contact me. Thank you for your assistance with this matter.

Sincerely,

Jack E. Jirak

Enclosure

cc: Parties of Record

CERTIFICATE OF SERVICE

I certify that a copy of Duke Energy Progress, LLC's Supplemental Testimony and Revised Exhibits and Workpapers of Dana M. Harrington, in Docket No. E-2, Sub 1250, has been served by electronic mail, hand delivery, or by depositing a copy in the United States mail, postage prepaid to parties of record.

This the 21st day of August, 2020.

Jack E. Jirak Associate General Counsel Duke Energy Corporation P.O. Box 1551/NCRH 20 Raleigh, North Carolina 27602 (919) 546-3257 Jack.jirak@duke-energy.com

BEFORE THE NORTH CAROLINA UTILITIES COMMISSION

DOCKET NO. E-2, SUB 1250

In the Matter of)	
Application of Duke Energy Progress, LLC)	SUPPLEMENTAL TESTIMONY
Pursuant to G.S. 62-133.2 and NCUC Rule)	OF DANA M. HARRINGTON FOR
R8-55 Relating to Fuel and Fuel-Related)	DUKE ENERGY PROGRESS, LLC
Charge Adjustments for Electric Utilities)	

1	Q.	PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.
2	A.	My name is Dana M. Harrington and my business address is 550 South Tryon Street,
3		Charlotte, North Carolina.
4	Q.	HAVE YOU PREVIOUSLY FILED TESTIMONY IN THIS PROCEEDING?
5	A.	Yes, on June 9, 2020, I caused to be pre-filed with the Commission direct testimony
6		including six exhibits and eighteen supporting workpapers.
7	Q.	YOUR SUPPLEMENTAL TESTIMONY INCLUDES THREE REVISED
8		EXHIBITS AND THREE REVISED WORKPAPERS. WERE THESE
9		SUPPLEMENTAL EXHIBITS AND WORKPAPERS PREPARED BY YOU OR
10		AT YOUR DIRECTION AND UNDER YOUR SUPERVISION?
11	A.	Yes. These exhibits and workpapers were prepared by me and consist of the following:
12	•	Revised Exhibit 1: Summary Comparison of Fuel and Fuel-Related Costs Factors.
13	•	Revised Exhibit 2:
14		o Schedule 1, Pages 2 and 3: Fuel and Fuel-Related Costs Factors and Calculation
15		of Uniform Percentage Average Bill Adjustment by Customer Class, respectively
16		- reflecting a 94.46% proposed nuclear capacity factor and projected billing period
17		megawatt hour ("MWh") sales,
18		o Schedule 2, Pages 2 and 3: Fuel and Fuel-Related Costs Factors and Calculation
19		of Uniform Percentage Average Bill Adjustment by Customer Class, respectively
20		- reflecting a 94.46% proposed nuclear capacity factor and normalized test period
21		MWh sales, and
22		o Schedule 3, Page 2 and 3: Fuel and Fuel-Related Costs Factors and Calculation of
23		Uniform Percentage Average Bill Adjustment by Customer Class, respectively -
24		reflecting an 92.72% North American Electric Reliability Corporation ("NERC")

1		five-year national weighted average nuclear capacity factor for comparable units
2		and projected billing period MWh sales.
3	•	Revised Exhibit 3, Pages 1 through 6: Calculation of the Proposed Composite Experience
4		Modification Factor ("EMF") rate.
5	•	Revised Workpaper 8: Projected MWh Sales
6	•	Revised Workpaper 12 (originally mislabeled Workpaper 11): Annualized Revenues at
7		Current Rates, and
8	•	Revised Workpaper 14: 2019 Production Plant Allocation Factors
9	Q.	WHAT IS THE PURPOSE OF YOUR SUPPLEMENTAL TESTIMONY IN THIS
10		PROCEEDING?
11	A.	The purpose of my testimony is to present the revised rates reflecting the impacts related to
12		four updates in my direct exhibits and workpapers.
13		At the time of filing initial direct testimony in this proceeding, the 2019 production
14		plant allocator to be applied to renewable and qualifying facility capacity costs for the purpose
15		of determining the billing period over or under collection, as approved for use in DEP's most
16		recent general rate case, was unavailable. The 2019 production demand allocator was used as
17		a proxy. At this time, the Company has revised Exhibits 1 and 2 to reflect the updated
18		allocation factor. Supporting details are also provided on revised Workpaper 14.
19		Second, after discussion with the Public Staff on Harris Unit 1 outage (3/23/2020 -
20		3/25/2020), the Company and Public Staff agree that a \$100,000 credit to North Carolina's
21		retail share of system fuel expense in this case is a reasonable adjustment to the replacement
22		power costs incurred as a result of the outage that occurred. This adjustment is shown on
23		revised Exhibit 3, page 1 and is further itemized by customer class according to March 2020

MWh sales on Exhibit 3, pages 2 through 6.

24

- Finally, during discovery, a typographical error was noted on Workpaper 8 and Workpaper 12 was mislabeled as Workpaper 11. These errors had no impact on the filing but have been revised and are being refiled for accuracy.
- 4 Q. WHAT IS THE COST IMPACT OF THESE UPDATES TO NORTH CAROLINA
 5 RETAIL CUSTOMERS?
- A. North Carolina's retail share of projected billing period costs was decreased by \$404,893 and North Carolina's retail test period under-collected balance was reduced by \$100,000.

8 Q. WHAT IS THE RATE IMPACT OF THESE UPDATES TO NORTH CAROLINA 9 RETAIL CUSTOMERS?

10 A. These updates yield a net .001 cents per kWh decrease for Residential, Small General Service,
11 and Medium General Service customers, a .002 cents per kWh decrease for Lighting
12 customers, but no impact to the cents per kWh rate of Large General Service customers. The
13 components of the proposed fuel and fuel-related cost factors by customer class, as shown on
14 Revised Harrington Exhibit 1, are as follows:

		Small	Medium	Large	
		General	General	General	
	Residential	Service	Service	Service	Lighting
Description	cents/KWh	cents/KWh	cents/KWh	cents/KWh	cents/KWh
Total adjusted Fuel and Fuel-Related Costs Factors	2.080	2.126	2.228	2.204	1.392
EMF Increment/(Decrement)	0.180	0.049	0.096	0.267	0.381
Proposed Net Fuel and Fuel-Related Costs Factors	2.260	2.175	2.324	2.471	1.773

16 Q. DOES THIS CONCLUDE YOUR PRE-FILED SUPPLEMENTAL TESTIMONY?

17 A. Yes, it does.

15

Duke Energy Progress, LLC
North Carolina Annual Fuel and Fuel-Related Expense
Summary Comparison of Fuel and Fuel-Related Cost Factors
Twelve Months Ended March 31, 2020
Billing Period December 1, 2020 - November 30, 2021
Docket No. E-2, Sub 1250

			Residential	Small General Service	Medium General Service	Large General Service	Lighting
Line No.	Description	Reference	cents/KWh	cents/KWh	cents/KWh	cents/KWh	cents/KWh
	Current Fuel and Fuel-Related Cost Factors (Approved Fuel Rider Docket No. E-2, Sub 120	<u>4)</u>					
1	Approved Fuel and Fuel-Related Costs Factors	Input	2.326	2.499	2.456	2.054	2.217
2	EMF Increment / (Decrement)	Input	0.373	0.198	0.218	0.648	0.530
3	EMF Interest Decrement cents/kWh, if applicable	n/a	-	-	-	-	-
4	Approved Net Fuel and Fuel-Related Costs Factors	Sum	2.699	2.697	2.674	2.702	2.747
	Other Fuel and Fuel-Related Cost Factors						
5	NERC Capacity Factor of 92.72% with Projected Billing Period MWh Sales	Exh 2 Sch 3 pg 3	2.335	2.264	2.384	2.510	1.939
6	Proposed Nuclear Capacity Factor of 94.46% with Normalized Test Period MWh Sales	Exh 2 Sch 2 pg 3	2.278	2.194	2.359	2.466	1.736
	Proposed Fuel and Fuel-Related Cost Factors using Proposed Nuclear Capacity Factor of 9	4.46% with Projected Bi	illing Period MV	Vh Sales			
7	Fuel and Fuel-Related Costs excluding Purchased Capacity	Exh 2 Sch 1 pg 2	1.962	1.982	2.115	2.133	1.392
8	Renewable and Qualifying Facilities Purchased Power Capacity	Exh 2 Sch 1 pg 2	0.118	0.144	0.113	0.071	
9	Total adjusted Fuel and Fuel-Related Costs Factors	Sum	2.080	2.126	2.228	2.204	1.392
10	EMF Increment/(Decrement)	Exh 2 Sch 1 pg 2	0.180	0.049	0.096	0.267	0.381
11	EMF Interest Decrement, if applicable	n/a		-	-	-	
12	Proposed Net Fuel and Fuel-Related Costs Factors	Exh 2 Sch 1 pg 2	2.260	2.175	2.324	2.471	1.773

Note: The above rates do not include state regulatory fees.

Duke Energy Progress, LLC

North Carolina Annual Fuel and Fuel-Related Expense

Calculation of Fuel and Fuel-Related Cost Factors Using:

Proposed Nuclear Capacity Factor of 94.46% with Projected Billing Period MWh Sales

Billing Period December 1, 2020 - November 30, 2021

Docket No. E-2, Sub 1250

Harrington Exhibit 2
Schedule 1
Page 1 of 3

			Generation	Unit Cost	Fuel Cost
Line No.	Unit	Reference	(MWh)	(cents/KWh)	(\$)
			Α	C/A/10=B	С
1	Total Nuclear	Workpaper 3-4	29,730,338	0.6204 \$	184,443,928
2	Coal	Workpaper 3 - 4	7,940,674	3.0592	242,921,665
3	Gas - CT and CC	Workpaper 3 - 4	18,943,545	2.5883	490,311,290
4	Reagents & Byproducts	Workpaper 5	-		20,467,213
5	Total Fossil	Sum of Lines 2 - 4	26,884,219		753,700,168
6	Hydro	Workpaper 3	650,353		-
7	Net Pumped Storage				-
8	Total Hydro	Sum of Lines 6 - 7	650,353		-
9	Utility Owned Solar Generation	Workpaper 3	256,176		
10	Total Generation	Line 1 + Line 5 + Line 8 + Line 9	57,521,087		938,144,096
11	Purchases	Workpaper 3 - 4	9,918,206		464,539,663
12	JDA Savings Shared	Workpaper 5	<u>-</u>		(6,373,541)
13	Total Purchases	Sum of Lines 11 - 12	9,918,206		458,166,122
14	Total Generation and Purchases	Line 10 + Line 13	67,439,293		1,396,310,218
15	Fuel expense recovered through intersystem sales	Workpaper 3 - 4	(4,048,662)		(82,750,327)
16	Line losses and Company use	Line 18 - Line 15 - Line 14	(1,906,330)		-
17	System Fuel Expense for Fuel Factor	Line 14 + Line 15 + Line 16	-	\$	1,313,559,891
18	Projected System MWh Sales for Fuel Factor	Workpaper 3	61,484,301		61,484,301
19	Fuel and Fuel-Related Costs cents/kWh	Line 17 /Line 18 / 10			2.136

Note: Rounding differences may occur

Duke Energy Progress, LLC
North Carolina Annual Fuel and Fuel-Related Expense
Calculation of Fuel and Fuel-Related Cost Factors Using:
Proposed Nuclear Capacity Factor of 94.46% with Projected Billing Period MWh Sales
Billing Period December 1, 2020 - November 30, 2021
Docket No. E-2, Sub 1250

				General Service	General Service	General Service		
Line No.	Description	_ -	Residential	Small	Medium	Large	Lighting	Total
1	NC Projected Billing Period MWh Sales	Revised Workpaper 8	16,171,290	1,784,993	10,287,749	9,128,353	377,978	37,750,364
Calculation	of Renewable and Qualifying Facilities Purchased Power Capacity Rate by Class							Amount
2	Renewable Purchased Power Capacity	Workpaper 4					_	\$ 26,962,441
3	Purchases from Qualifying Facilities Capacity	Workpaper 4						39,344,300
4	Total of Renewable and Qualifying Facilities Purchased Power Capacity	Line 2 + Line 3						66,306,741
5	NC Portion - Jurisdictional % based on Production Plant Allocator	Revised Workpaper 14					_	60.07%
6	NC Renewable and Qualifying Facilities Purchased Power Capacity	Line 5 * Line 6					ç	39,828,420
7	Production Plant Allocation Factors	Revised Workpaper 14	48.01%	6.46%	29.31%	16.22%	0.00%	100.000%
8	Renewable and Qualifying Facilities Purchased Power Capacity allocated on Production Plant 9	6 Line 6 * Line 7	\$ 19,120,155 \$	2,571,682 \$	11,675,300 \$	6,461,283 \$	- 5	39,828,420
9	Renewable and Qualifying Facilities Purchased Power Capacity cents/kWh based on Projected							
9	Billing Period Sales	Line 8 / Line 1 / 10	0.118	0.144	0.113	0.071	-	0.106
Summary of	f Total Rate by Class	_	cents/KWh	cents/KWh	cents/KWh	cents/KWh	cents/KWh	
10	Fuel and Fuel-Related Costs excluding Renewable and Qualifying Facilities Purchased Power	Line 15 - Line 11 - Line 13 -						
10	Capacity cents/kWh	Line 14	1.962	1.982	2.115	2.133	1.392	
11	Renewable and Qualifying Facilities Purchased Power Capacity cents/kWh	Line 9	0.118	0.144	0.113	0.071	-	
12	Total adjusted Fuel and Fuel-Related Costs cents/kWh	Line 10 + Line 11	2.080	2.126	2.228	2.204	1.392	
13	EMF Increment/(Decrement) cents/kWh	Exh 3 pg 2, 3, 4, 5, 6	0.180	0.049	0.096	0.267	0.381	
14	EMF Interest Increment/(Decrement) cents/kWh	Exh 3 pg 2, 3, 4, 5, 6	-	-	-	-	-	
15	Net Fuel and Fuel-Related Costs Factors cents/kWh	Exh 2 Sch 1 Page 3	2.260	2.175	2.324	2.471	1.773	

Note: Rounding differences may occur

Duke Energy Progress, LLC
North Carolina Annual Fuel and Fuel Related Expense
Calculation of Uniform Percentage Average Bill Adjustment by Customer Class
Proposed Nuclear Capacity Factor of 94.46% with Projected Billing Period MWh Sales
Billing Period December 1, 2020 - November 30, 2021
Docket No. E-2, Sub 1250

Rounding differences may occur

Line No.	Rate Class	Projected Billing Period MWh Sales	Annual Revenue at Current rates	Allocate Fuel Costs Increase/(Decrease) to Customer Class	Increase/Decrease as % of Annual Revenue at Current Rates	Total Fuel Rate Increase/(Decrease) cents/kwh	Current Total Fuel Rate (including renewables and EMF) E-2, Sub 1204 cents/kwh	Rate (including
		A	В	С	D	E	F	G
		Revised Workpaper 8	Revised Workpaper 12	Line 27 as a % of Column B	C/B	If D=0 then 0 if not then (C*100)/(A*1000)	Exhibit 1, Line 4	E + F = G
1	Residential	16,171,290	\$ 1,782,445,149	\$ (71,070,756)	-4.0%	(0.439)	2.699	2.260
2	Small General Service	1,784,993	233,805,982	(9,322,457)		(0.522)		2.175
3	Medium General Service	10,287,749	902,487,703	(35,984,548)		(0.350)		2.324
4	Large General Service	9,128,353	529,838,208	(21,126,037)		(0.231)		2.471
5	Lighting	377,978	92,358,220	(3,682,564)		(0.974)		1.773
6	NC Retail	37,750,364				,		
	Total Proposed Composite Fuel Rate:							
7	Adjusted System Total Fuel Costs	Revised Workpaper 8	\$ 1,314,547,846					
8	System Renewable and Qualifying Facilities Purchased Power Capacity	Exhibit 2 Sch 1, Page 2	66,306,741					
9	Adjusted System Other Fuel Costs	Line 7 - Line 8	\$ 1,248,241,105					
10	NC Retail Allocation % - sales at generation	Workpaper 11	61.59%					
11	NC Retail Other Fuel Costs	Line 9 * Line 10	\$ 768,791,697					
12	NC Renewable and Qualifying Facilities Purchased Power Capacity	Exhibit 2 Sch 1, Page 2	39,828,420					
13	NC Retail Total Fuel Costs before 2.5% Purchase Power Test	Line 11 + Line 12	\$ 808,620,116	_				
14	NC Retail Reduction due to 2.5% Purchased Power Test	Workpaper 16	0	ı				
15	NC Retail Total Fuel Costs	Line 13 + Line 14	\$ 808,620,116	-				
16	NC Projected Billing Period MWh Sales	Line 6, col A	37,750,364					
17	Calculated Fuel Rate cents/kWh	Line 15 / Line 16 / 10	2.142					
18	Proposed Composite EMF Rate cents/kWh	Exhibit 3 Page 1	0.171					
19	Proposed Composite EMF Rate Interest cents/kWh	Exhibit 3 Page 1	0.000					
20	Total Proposed Composite Fuel Rate	Sum of Lines 17-19	2.313	_				
	Total Current Composite Fuel Rate - Docket E-2 Sub 1204:							
21	Current composite Fuel Rate cents/kWh	2019 Revised Harrington Exh 2, Sch 1, Pg 3, Ln 17	2.306					
22	Current composite EMF Rate cents/kWh	2019 Revised Harrington Exh 2, Sch 1, Pg 3, Ln 18	0.381					
23	Current composite EMF Interest cents/kWh	2019 Revised Harrington Exh 2, Sch 1, Pg 3, Ln 19	0.000	-				
24	Total Current Composite Fuel Rate	Sum of Lines 21-23	2.687					
25	Increase/(Decrease) in Composite Fuel rate cents/kWh	Line 20 - Line 24	(0.374)					
26	NC Projected Billing Period MWh Sales	Line 6, col A	37,750,364					
27	Increase/(Decrease) in Fuel Costs	Line 25 * Line 26 * 10	\$ (141,186,362)					
	Notes:							

Harrington Exhibit 2 Schedule 2 Page 1 of 3

			Generation	Unit Cost	Fuel Cost
Line No.	Unit	Reference	(MWh)	(cents/KWh)	(\$)
			Α	C/A/10=B	С
1	Total Nuclear	Workpaper 3-4	29,730,338	0.6204 \$	184,443,928
2	Coal	Workpaper 15	8,861,608	3.0592	271,094,943
3	Gas - CT and CC	Workpaper 3-4	18,943,545	2.5883	490,311,290
4	Reagents & Byproducts	Workpaper 4			20,467,213
5	Total Fossil	Sum of Lines 2 - 4	27,805,153		781,873,446
6	Hydro	Workpaper 3	650,353		-
7	Net Pumped Storage				-
8	Total Hydro	Sum of Lines 6 - 7	650,353		-
9	Utility Owned Solar Generation	Workpaper 3	256,176		<u>-</u>
10	Total Generation	Line 1 + Line 5 + Line 8 + Line 9	58,442,021		966,317,374
11	Purchases	Workpaper 3 - 4	9,918,206		464,539,663
12	JDA Savings Shared	Workpaper 5			(6,373,541)
13	Total Purchases	Sum of Lines 11 - 12	9,918,206		458,166,122
14	Total Generation and Purchases	Line 10 + Line 13	68,360,227		1,424,483,496
15	Fuel expense recovered through intersystem sales	Workpaper 3 - 4	(4,048,662)		(82,750,327)
16	Line losses and Company use	Line 18 - Line 15 - Line 14	(1,935,872)		-
17	System Fuel Expense for Fuel Factor	Lines 14 + Line 15 + Line 16	-	\$	1,341,733,169
18	Normalized Test Period MWh Sales for Fuel Factor	Exhibit 4	62,375,693		62,375,693
19	Fuel and Fuel-Related Costs cents/kWh	Line 17 / Line 18 / 10			2.151

Note: Rounding differences may occur

Duke Energy Progress, LLC
North Carolina Annual Fuel and Fuel-Related Expense
Calculation of Fuel and Fuel Related Cost Factors Using:
Proposed Nuclear Capacity Factor of 94.46% with Normalized Test Period MWh Sales
Billing Period December 1, 2020 - November 30, 2021
Docket No. E-2, Sub 1250

				General	General	General		
Line No.	Description		Residential	Service Small	Service Medium	Service Large	Lighting	Total
		-					88	
1	NC Normalized Test Period MWh Sales	Workpaper 9	16,191,429	1,777,668	10,949,334	8,584,996	349,444	37,852,870
Calculation	of Renewable and Qualifying Facilities Purchased Power Capacity Rate by Class							<u>Amount</u>
2	Renewable Purchased Power Capacity	Workpaper 4					\$	26,962,441
3	Purchases from Qualifying Facilities Capacity	Workpaper 4						39,344,300
4	Total of Renewable and Qualifying Facilities Purchased Power Capacity	Line 2 + Line 3					\$	66,306,741
5	NC Portion - Jurisdictional % based on Production Plant Allocator	Revised Workpaper 14						60.07%
6	NC Renewable and Qualifying Facilities Purchased Power Capacity	Line 5 * Line 6					\$	39,828,420
7	Production Plant Allocation Factors	Revised Workpaper 14	48.01%	6.46%	29.31%	16.22%	0.00%	100.000%
8	Renewable and Qualifying Facilities Purchased Power Capacity allocated on Production Plant %	Line 6 * Line 7	\$ 19,120,155 \$	2,571,682 \$	11,675,300 \$	6,461,283 \$	- \$	39,828,420
9	Renewable and Qualifying Facilities Purchased Power Capacity cents/kWh based on Projected							
J	Billing Period Sales	Line 8 / Line 1 / 10	0.118	0.145	0.107	0.075	-	0.105
Summary of	of Total Rate by Class		cents/KWh	cents/KWh	cents/KWh	cents/KWh	cents/KWh	
10	Fuel and Fuel-Related Costs excluding Renewable and Qualifying Facilities Purchased Power	Line 15 - Line 11 - Line 13						
10	Capacity cents/kWh	- Line 14	1.980	2.000	2.156	2.124	1.355	
11	Renewable and Qualifying Facilities Purchased Power Capacity cents/kWh	Line 9	0.118	0.145	0.107	0.075	-	
12	Total adjusted Fuel and Fuel-Related Costs cents/kWh	Line 10 + Line 11	2.098	2.145	2.263	2.199	1.355	
13	EMF Increment/(Decrement) cents/kWh	Exh 3 pg 2, 3, 4, 5, 6	0.180	0.049	0.096	0.267	0.381	
14	EMF Interest Increment/(Decrement) cents/kWh	Exh 3 pg 2, 3, 4, 5, 6	-	-	-	-	-	
15	Net Fuel and Fuel-Related Costs Factors cents/kWh	Exh 2 Sch 2 Page 3	2.278	2.194	2.359	2.466	1.736	

Note: Rounding differences may occur

Duke Energy Progress, LLC
North Carolina Annual Fuel and Fuel Related Expense
Calculation of Uniform Percentage Average Bill Adjustment by Customer Class
Proposed Nuclear Capacity Factor of 94.46% with Normalized Test Period MWh Sales
Billing Period December 1, 2020 - November 30, 2021
Docket No. E-2, Sub 1250

Line No.	Rate Class	Normalized Test Period MWh Sales	Annual Revenue at Current rates	Allocate Fuel Costs Increase/(Decrease) to Customer Class	Increase/Decrease as % of Annual Revenue at Current Rates		Current Total Fuel Rate (including renewables and EMF) E-2, Sub 1204 cents/kwh	Rate (including
		A	В	С	D	E	F	G
		Workpaper 9	Revised Workpaper 12	Line 27 as a % of Column E	B C/B	If D=0 then 0 if not then (C*100)/(A*1000)	Exhibit 1, Line 4	E + F = G
1	Residential	16,191,429	9 \$ 1,782,445,149	\$ (68,215,023	-3.8%	(0.421	2.699	2.278
2	Small General Service	1,777,66		(8,947,866	•	(0.503		2.194
3	Medium General Service	10,949,33		(34,538,633	,	(0.315	•	2.359
4	Large General Service	8,584,99		(20,277,160		(0.236		2.466
5	Lighting	349,44		(3,534,593		(1.011		1.736
6	NC Retail	37,852,870				(1.011	2.747	1./30
U	NC Netali	57,632,670	3,340,333,200	\$ (155,515,275	<u>'1</u>			
	Total Proposed Composite Fuel Rate:							
7	Adjusted System Total Fuel Costs	Workpaper 9	\$ 1,342,721,124					
8	System Renewable and Qualifying Facilities Purchased Power Capacity	Exhibit 2 Sch 2, Page 2	66,306,741					
9	System Other Fuel Costs	Line 7 - Line 8	\$ 1,276,414,383	•				
,	System other rue, costs	Line / Line o	ų 1,270, 111,303					
10	NC Retail Allocation % - sales at generation	Workpaper 11	60.88%					
11	NC Retail Other Fuel Costs	Line 9 * Line 10	\$ 777,081,077					
12	NC Renewable and Qualifying Facilities Purchased Power Capacity	Exhibit 2 Sch 2, Page 2	39,828,420					
13	NC Retail Total Fuel Costs	Line 11 + Line 12	\$ 816,909,496	•				
14	NC Retail Reduction due to 2.5% Purchased Power Test	Workpaper 17	0					
15	NC Retail Total Fuel Costs	Line 13 + Line 14	\$ 816,909,496	•				
16	Adjusted NC Normalized Test Period MWh Sales	Line 6, col A	37,852,870					
17	Calculated Fuel Rate cents/kWh	Line 15 / Line 16 /10	2.158					
18	Proposed Composite EMF Rate cents/kWh	Exhibit 3 Page 1	0.171					
19	Proposed Composite EMF Rate Interest cents/kWh	Exhibit 3 Page 1	0.000					
20	Total Proposed Composite Fuel Rate	Sum of Lines 17-19	2.329	•				
	Total Current Composite Fuel Rate - Docket E-2 Sub 1204:							
21	Current composite Fuel Rate cents/kWh	2019 Revised Harrington Exh 2, Sch 1, Pg 3, Ln 17	2.306					
22	Current composite EMF Rate cents/kWh	2019 Revised Harrington Exh 2, Sch 1, Pg 3, Ln 18	0.381					
23	Current composite EMF Interest cents/kWh	2019 Revised Harrington Exh 2, Sch 1, Pg 3, Ln 19	0.000					
24	Total Current Composite Fuel Rate	Sum of Lines 21 - 23	2.687	•				
25	Increase/(Decrease) in Composite Fuel rate cents/kWh	Line 20 - Line 24	(0.358)					
26	Adjusted NC Normalized Test Period MWh Sales	Line 6, col A	37,852,870					
27	Increase/(Decrease) in Fuel Costs	Line 25 * Line 26 * 10	\$ (135,513,275)					
	Note: Rounding differences may occur							

Harrington Exhibit 2
Schedule 3
Page 1 of 3

Line No.	Unit	Reference	Generation (MWh)	Unit Cost (cents/KWh)	Fuel Cost (\$)
			Α	C/A/10=B	C
1	Total Nuclear	Workpaper 2	28,123,601	0.6204 \$	174,475,894
2	Coal	Workpaper 15	9,547,412	3.0592	292,075,099
3	Gas - CT and CC	Workpaper 3 - 4	18,943,545	2.5883	490,311,290
4	Reagents & Byproducts	Workpaper 5	-		20,467,213
5	Total Fossil	Sum of Lines 2 - 4	28,490,957		802,853,602
6	Hydro	Workpaper 3	650,353		-
7	Net Pumped Storage		<u> </u>		-
8	Total Hydro	Sum of Lines 6 - 7	650,353		-
9	Utility Owned Solar Generation	Workpaper 3	256,176		-
10	Total Generation	Line 1 + Line 5 + Line 8 + Line 9	57,521,087		977,329,497
11	Purchases	Workpaper 3 - 4	9,918,206		464,539,663
12	JDA Savings Shared	Workpaper 5	-		(6,373,541)
13	Total Purchases	Sum of Lines 11- 12	9,918,206		458,166,122
14	Total Generation and Purchases	Line 10 + Line 13	67,439,293		1,435,495,619
15	Fuel expense recovered through intersystem sales	Workpaper 3 - 4	(4,048,662)		(82,750,327)
16	Line losses and Company use	Line 18 - Line 15 - Line 14	(1,906,330)		-
17	System Fuel Expense for Fuel Factor	Line 14 + Line 15 + Line 16	-	\$	1,352,745,292
18	System MWh Sales for Fuel Factor	Workpaper 3	61,484,301		61,484,301
19	Fuel and Fuel-Related Costs cents/kWh	Line 17 / Line 18 / 10			2.200

Note: Rounding differences may occur

Duke Energy Progress, LLC
North Carolina Annual Fuel and Fuel-Related Expense
Calculation of Fuel and Fuel-Related Cost Factors Using:
NERC Capacity Factor of 92.72% with Projected Billing Period MWh Sales
Billing Period December 1, 2020 - November 30, 2021
Docket No. E-2, Sub 1250

				General Service	General Service	General Service		
Line No.	Description	_	Residential	Small	Medium	Large	Lighting	Total
1	NC Projected Billing Period MWh Sales	Revised Workpaper 8	16,171,290	1,784,993	10,287,749	9,128,353	377,978	37,750,364
Calculation	of Renewable and Qualifying Facilities Purchased Power Capacity Rate by Class							<u>Amount</u>
2	Renewable Purchased Power Capacity	Workpaper 4					\$	26,962,441
3	Purchases from Qualifying Facilities Capacity	Workpaper 4						39,344,300
4	Total of Renewable and Qualifying Facilities Purchased Power Capacity	Line 2 + Line 3					\$	66,306,741
5	NC Portion - Jurisdictional % based on Production Plant Allocator	Revised Workpaper 14					_	60.07%
6	NC Renewable and Qualifying Facilities Purchased Power Capacity	Line 5 * Line 6					\$	39,828,420
7	Production Plant Allocation Factors	Revised Workpaper 14	48.01%	6.46%	29.31%	16.22%	0.00%	100.000%
8	Renewable and Qualifying Facilities Purchased Power Capacity allocated on Production Plant %	Line 6 * Line 7	\$ 19,120,155 \$	2,571,682 \$	11,675,300 \$	6,461,283 \$	- \$	39,828,420
9	Renewable and Qualifying Facilities Purchased Power Capacity cents/kWh based on Projected							<u> </u>
9	Billing Period Sales	Line 8 / Line 1 / 10	0.118	0.144	0.113	0.071	-	0.106
Summary o	f Total Rate by Class		cents/KWh	cents/KWh	cents/KWh	cents/KWh	cents/KWh	
10	Fuel and Fuel-Related Costs excluding Renewable and Qualifying Facilities Purchased Power	Line 15 - Line 11 - Line 13 -						
10	Capacity cents/kWh	Line 14	2.037	2.071	2.175	2.172	1.558	
11	Renewable and Qualifying Facilities Purchased Power Capacity cents/kWh	Line 9	0.118	0.144	0.113	0.071	<u> </u>	
12	Total adjusted Fuel and Fuel-Related Costs cents/kWh	Line 10 + Line 11	2.155	2.215	2.288	2.243	1.558	
13	EMF Increment/(Decrement) cents/kWh	Exh 3 pg 2, 3, 4, 5, 6	0.180	0.049	0.096	0.267	0.381	
14	EMF Interest Increment/(Decrement) cents/kWh	Exh 3 pg 2, 3, 4, 5, 6		-	-	-	-	
15	Net Fuel and Fuel-Related Costs Factors cents/kWh	Exh 2 Sch 3 Page 3	2.335	2.264	2.384	2.510	1.939	

Note: Rounding differences may occur

Duke Energy Progress, LLC
North Carolina Annual Fuel and Fuel Related Expense
Calculation of Uniform Percentage Average Bill Adjustment by Customer Class
NERC Capacity Factor of 92.72% with Projected Billing Period MWh Sales
Billing Period December 1, 2020 - November 30, 2021
Docket No. E-2, Sub 1250

Line No.	Rate Class	Projected Billing Period MWh Sales		al Revenue at rrent rates	Allocate Fuel Costs Increase/(Decrease) to Customer Class	Increase/Decrease as % of Annual Revenue at Current Rates	Total Fuel Rate Increase/(Decrease) cents/kwh	Current Total Fuel Rate (including renewables and EMF) E-2, Sub 1204 cents/kwh	Proposed Total Fuel Rate (including renewables and EMF) cents /kwh
		A		В	С	D	Ε	F	G
					27 0/ 60 1		If D=0 then 0 if not		
		Revised Workpaper 8 R	Revised W	orkpaper 12	Line 27 as a % of Column B	C/B	then (C*100)/(A*1000)	Exhibit 1, Line 4	E + F = H
		nevised Workpaper 6	veviseu vv	rorkpaper 12	ь	C/ B	(C 100)/(A 1000)	Exhibit 1, Line 4	211-11
1	Residential	16,171,290	0 \$ 1	1,782,445,149	\$ (58,908,915)	-3.3%	(0.364)	2.699	2.335
2	Small General Service	1,784,993	3	233,805,982	(7,727,170)	-3.3%	(0.433)	2.697	2.264
3	Medium General Service	10,287,749	9	902,487,703	(29,826,764)	-3.3%	(0.290)	2.674	2.384
4	Large General Service	9,128,353	3	529,838,208	(17,510,886)	-3.3%	(0.192)	2.702	2.510
5	Lighting	377,978	8	92,358,220	(3,052,393)	-3.3%	(0.808)	2.747	1.939
6	NC Retail	37,750,364	4 \$ 3	3,540,935,260	\$ (117,026,128)				
_	Total Proposed Composite Fuel Rate:								
7	Adjusted System Total Fuel Costs	Workpaper 10	\$ 1	1,353,733,247					
8	System Renewable and Qualifying Facilities Purchased Power Capacity	Exhibit 2 Sch 3, Page 2		66,306,741	•				
9	System Other Fuel Costs	Line 7 - Line 8	\$ 1	1,287,426,506					
10	NC Retail Allocation % - sales at generation	Workpaper 11		61.59%					
11	NC Retail Other Fuel Costs	Line 9 * Line 10	Ś	792,925,985					
12	NC Renewable and Qualifying Facilities Purchased Power Capacity	Exhibit 2 Sch 3, Page 2		39,828,420					
13	NC Retail Total Fuel Costs	Line 11 + Line 12	\$	832,754,405	•				
14	NC Retail Reduction due to 2.5% Purchased Power Test	Workpaper 16		0	:				
15	NC Retail Total Fuel Costs	Line 13 + Line 14	\$	832,754,405					
16	NC Projected Billing Period MWh Sales	Line 6, col A		37,750,364					
17	Calculated Fuel Rate cents/kWh	Line 15 / Line 16 /10		2.206					
18	Proposed Composite EMF Rate cents/kWh	Exhibit 3 Page 1		0.171					
19	Proposed Composite EMF Rate Interest cents/kWh	Exhibit 3 Page 1		0.000					
20	Total Proposed Composite Fuel Rate	Sum of Lines 15-17		2.377	•				
	Total Current Composite Fuel Rate - Docket E-2 Sub 1204:								
21	Current composite Fuel Rate cents/kWh	2019 Revised Harrington Exh 2, Sch 1, Pg 3, Ln 17		2.306					
22	Current composite FMF Rate cents/kWh	2019 Revised Harrington Exh 2, Sch 1, Pg 3, En 17		0.381					
23	Current composite EMF Interest cents/kWh	2019 Revised Harrington Exh 2, Sch 1, Pg 3, Lh 19		0.000					
24	Total Current Composite Fuel Rate	Sum of Lines 21 - 23		2.687	•				
24	Total current composite ruci nate	Sum of Lines 21 25		2.007					
25	Increase/(Decrease) in Composite Fuel rate cents/kWh	Line 20 - Line 24		(0.310)					
26	NC Projected Billing Period MWh Sales	Line 6, col A		37,750,364					
27	Increase/(Decrease) in Fuel Costs	Line 25* Line 26 * 10	\$	(117,026,128)					
	Note: Rounding differences may occur								

Duke Energy Progress, LLC
North Carolina Annual Fuel and Fuel Related Expense
Calculation of Proposed Composite Experience Modification Factor
Twelve Months Ended March 31, 2020
Docket No. E-2, Sub 1250

Line		Fuel Cost Incurred ¢/ kWh (a)	Fuel Cost Billed ¢/ kWh (b)	NC Retail MWh Sales (c)	Reported (Over)/Under Recovery (d)	Adjustments (e)	((Adjusted Over)/Under Recovery (f)
No.	Month							
1	April 2019 (Sub 1173)	2.686	2.236	2,728,574	\$ 12,291,799	-	\$	12,291,799
2	May	2.782	2.239	2,833,194	15,364,636	-		15,364,636
3	June	2.680	2.249	3,213,527	13,827,917	-		13,827,917
4	July	2.754	2.252	3,688,282	18,528,663	-		18,528,663
5	August	2.735	2.254	3,723,369	17,897,273	-		17,897,273
6	September	2.540	2.249	3,556,134	10,361,598	-		10,361,598
7	October	2.432	2.240	3,108,120	5,957,660	-		5,957,660
8	November	2.896	2.229	2,604,857	17,356,270	-		17,356,270
9	December (New Rates - Sub 1204)	2.307	2.275	3,103,485	988,481	-		988,481
10	January 2020	2.074	2.310	3,148,281	(7,449,740)	-		(7,449,740)
11	February	2.137	2.311	3,069,536	(5,335,053)	-		(5,335,053)
12	March	2.154	2.306	2,878,564	(4,356,037)	-		(4,356,037)
13	Total Test Period			37,655,926	\$ 95,433,467	-	\$	95,433,467
14	Booked 12-month (Over) / Under Recovery						\$	95,433,467
15	Adjustment to exclude Under Recovery - April - June 2019 (1)							(41,484,352)
16	Total 9-month (Over) / Under Recovery						\$	53,949,115
17	Adjustment to exclude test period by-product net gain/loss accrued exp	oense per Docket No. E-2	Sub 1204 Order					(1,651,186)
18	Adjustment to include test period by-product net gain/loss cash payme	ents per Docket No. E-2 S	ub 1204 Order					5,296,291
19	Adjustment to include Docket No. E-2 Sub 1204 costs per Order							7,260,171
20	Replacement power cost adjustment							(100,000)
21	Total Adjusted (Over) / Under Recovery Request						\$	64,754,391
22	Normalized Test Period MWh Sales	Exhibit 4						37,852,870
23	Experience Modification Increment / (Decrement) cents/KWh							0.171

Notes:

⁽¹⁾ April - June 2019 filed in fuel Docket E-2, Sub 1204 are included in current EMF rate.

Included for Commission review in accordance with NC Rule R8-55 (d)(3) but deducted from total (O)/ U on Line 15.

Duke Energy Progress, LLC
North Carolina Annual Fuel and Fuel Related Expense
Calculation of Experience Modification Factor - Residential
Twelve Months Ended March 31, 2020
Docket No. E-2, Sub 1250

Line No.	Month	Fuel Cost Incurred ¢/ kWh (a)	Fuel Cost Billed ¢/ kWh (b)	NC Retail MWh Sales (c)	(Over)/Under Recovery (d)	Adjustments (e)	((Adjusted Over)/Under Recovery (f)
1	April 2019 (Sub 1173)	3.033	2.311	1,060,985	\$ 7,664,663		\$	7,664,663
2	May	3.295	2.311	1,051,096	10,340,265		Ψ	10,340,265
3	June	2.843	2.311	1,331,074	7,081,848			7,081,848
4	July	2.794	2.311	1,602,414	7,741,904			7,741,904
5	August	2.784	2.311	1,612,109	7,629,308			7,629,308
6	September	2.723	2.311	1,460,214	6,009,364			6,009,364
7	October	2.841	2.311	1,166,428	6,177,517			6,177,517
8	November	3.306	2.311	999,969	9,946,288			9,946,288
9	December (New Rates - Sub 1204)	2.207	2.317	1,410,306	(1,556,451)			(1,556,451)
10	January 2020	1.956	2.326	1,438,353	(5,324,375)			(5,324,375)
11	February	2.031	2.326	1,391,776	(4,103,653)			(4,103,653)
12	March	2.160	2.326	1,235,463	(2,055,811)			(2,055,811)
13	Total Test Period			15,760,190	49,550,869	-		49,550,869
14	Booked 12-month (Over) / Under Recovery						\$	49,550,869
15	Adjustment to exclude Under Recovery - April - June 2019 (1)							(25,086,775)
16	Total 9-month (Over) / Under Recovery						\$	24,464,093
17	Adjustment to exclude test period by-product net gain/loss accrued exp	ense per Docket No. E-	2 Sub 1204 Order					(748,674)
18	Adjustment to include test period by-product net gain/loss cash payme	ents per Docket No. E-2	Sub 1204 Order					2,401,422
19	Adjustment to include Docket No. E-2 Sub 1204 costs per Order							3,080,009
20	Replacement power cost adjustment							(42,919)
21	Total Adjusted (Over) / Under Recovery Request						\$	29,153,931
22	Normalized Test Period MWh Sales	Exhibit 4						16,191,429
23	Experience Modification Increment (Decrement) cents/KWh							0.180

Notes:

⁽¹⁾ April - June 2019 filed in fuel Docket E-2, Sub 1204 are included in current EMF rate.
Included for Commission review in accordance with NC Rule R8-55 (d)(3) but deducted from total (O)/ U on Line 15.

Duke Energy Progress, LLC
North Carolina Annual Fuel and Fuel Related Expense
Calculation of Experience Modification Factor - Small General Service
Twelve Months Ended March 31, 2020
Docket No. E-2, Sub 1250

Line		Fuel Cost Incurred ¢/ kWh (a)	Fuel Cost Billed ¢/ kWh (b)	NC Retail MWh Sales (c)	(Over)/Under Recovery (d)	Adjustments (e)	((Adjusted Over)/Under Recovery (f)
No.	Month							
1	April 2019 (Sub 1173)	2.930	2.556	136,059	. ,		\$	508,889
2	May	2.974	2.556	144,225	603,324			603,324
3	June	2.793	2.556	167,849	397,399			397,399
4	July	2.873	2.556	193,031	612,524			612,524
5	August	2.758	2.556	201,636	406,378			406,378
6	September	2.604	2.556	189,089	91,426			91,426
7	October	2.447	2.556	167,741	(183,357)			(183,357)
8	November	3.270	2.556	125,205	894,152			894,152
9	December (New Rates - Sub 1204)	2.451	2.533	154,918	(127,643)			(127,643)
10	January 2020	2.156	2.499	155,579	(533,274)			(533,274)
11	February	2.177	2.499	154,850	(498,540)			(498,540)
12	March	2.249	2.499	141,377	(352,792)			(352,792)
13	Total Test Period			1,931,559	1,818,485	-		1,818,485
14	Booked 12-month (Over) / Under Recovery						\$	1,818,485
15	Adjustment to exclude Under Recovery - April - June 2019 (1)							(1,509,612)
16	Total 9-month (Over) / Under Recovery						\$	308,873
17	Adjustment to exclude test period by-product net gain/loss accrued ex	pense per Docket No. E-2	Sub 1204 Order					(83,298)
18	Adjustment to include test period by-product net gain/loss cash paym	ents per Docket No. E-2 S	ub 1204 Order					267,184
19	Adjustment to include Docket No. E-2 Sub 1204 costs per Order							375,378
20	Replacement power cost adjustment							(4,911)
21	Total Adjusted (Over) / Under Recovery Request						\$	863,226
22	Normalized Test Period MWh Sales	Exhibit 4						1,777,668
23	Experience Modification Increment (Decrement) cents/KWh							0.049

Notes:

⁽¹⁾ April - June 2019 filed in fuel Docket E-2, Sub 1204 are included in current EMF rate.
Included for Commission review in accordance with NC Rule R8-55 (d)(3) but deducted from total (O)/ U on Line 15.

Duke Energy Progress, LLC
North Carolina Annual Fuel and Fuel Related Expense
Calculation of Experience Modification Factor - Medium General Service
Twelve Months Ended March 31, 2020
Docket No. E-2, Sub 1250

Line		Fuel Cost Incurred ¢/ kWh (a)	Fuel Cost Billed ¢/ kWh (b)	NC Retail MWh Sales (c)	(Over)/Under Recovery (d)	Adjustments (e)	Adjusted Over)/Under Recovery (f)
No.	Month	2.00		227.244	4		
1	April 2019 (Sub 1173)	2.697	2.477	827,811			\$ 1,817,211
2	May	2.639	2.477	908,898	1,474,141		1,474,141
3	June	2.710	2.477	967,184	2,251,604		2,251,604
4	July	2.893	2.477	1,066,966	4,436,980		4,436,980
5	August	2.849	2.477	1,085,771	4,042,108		4,042,108
6	September	2.555	2.477	1,074,880	843,243		843,243
7	October	2.349	2.477	980,376	(1,250,862)		(1,250,862)
8	November	2.942	2.477	781,506	3,635,799		3,635,799
9	December (New Rates - Sub 1204)	2.526	2.468	849,236	487,730		487,730
10	January 2020	2.235	2.456	851,930	(1,879,357)		(1,879,357)
11	February	2.287	2.456	836,428	(1,410,803)		(1,410,803)
12	March	2.269	2.456	797,215	(1,487,684)		 (1,487,684)
13	Total Test Period			11,028,202	12,960,111	-	12,960,111
14	Booked 12-month (Over) / Under Recovery						\$ 12,960,111
15	Adjustment to exclude Under Recovery - April - June 2019 (1)						 (5,542,956)
16	Total 9-month (Over) / Under Recovery						\$ 7,417,155
17	Adjustment to exclude test period by-product net gain/loss accrued ex	pense per Docket No. E-	2 Sub 1204 Order				(449,937)
18	Adjustment to include test period by-product net gain/loss cash paym	ents per Docket No. E-2	Sub 1204 Order				1,443,204
19	Adjustment to include Docket No. E-2 Sub 1204 costs per Order						2,123,029
20	Replacement power cost adjustment						(27,695)
21	Total Adjusted (Over) / Under Recovery Request						\$ 10,505,756
22	Normalized Test Period MWh Sales	Exhibit 4					10,949,334
23	Experience Modification Increment (Decrement) cents/KWh						0.096

Notes:

⁽¹⁾ April - June 2019 filed in fuel Docket E-2, Sub 1204 are included in current EMF rate.
Included for Commission review in accordance with NC Rule R8-55 (d)(3) but deducted from total (O)/ U on Line 15.

Duke Energy Progress, LLC
North Carolina Annual Fuel and Fuel Related Expense
Calculation of Experience Modification Factor - Large General Service
Twelve Months Ended March 31, 2020
Docket No. E-2, Sub 1250

Line		Fuel Cost Incurred ¢/ kWh (a)	Fuel Cost Billed ¢/ kWh (b)	NC Retail MWh Sales (c)	(Over)/Under Recovery (d)	Adjustments (e)	(0	Adjusted Over)/Under Recovery (f)
No.	Month	2.005		67.1.10	4 2215 225			2 245 225
1	April 2019 (Sub 1173)	2.086	1.757	674,418			\$	2,215,935
2	May	2.160	1.757	699,442	2,816,304			2,816,304
3	June	2.297	1.757	718,601	3,877,285			3,877,285
4	July	2.436	1.757	796,174	5,404,669			5,404,669
5	August	2.446	1.757	794,681	5,473,681			5,473,681
6	September	2.151	1.757	803,124	3,166,077			3,166,077
7	October	1.902	1.757	763,680	1,111,002			1,111,002
8	November	2.165	1.757	670,112	2,734,527			2,734,527
9	December (New Rates - Sub 1204)	2.196	1.877	660,159	2,102,953			2,102,953
10	January 2020	2.097	2.053	673,577	290,408			290,408
11	February	2.157	2.054	657,799	675,428			675,428
12	March	1.990	2.054	675,674	(430,337)			(430,337)
13	Total Test Period			8,587,442	29,437,932	-		29,437,932
14	Booked 12-month (Over) / Under Recovery						\$	29,437,932
15	Adjustment to exclude Under Recovery - April - June 2019 (1)							(8,909,524)
16	Total 9-month (Over) / Under Recovery						\$	20,528,408
17	Adjustment to exclude test period by-product net gain/loss accrued exp	oense per Docket No. E-2	Sub 1204 Order					(353,848)
18	Adjustment to include test period by-product net gain/loss cash payme	ents per Docket No. E-2 S	ub 1204 Order					1,134,991
19	Adjustment to include Docket No. E-2 Sub 1204 costs per Order							1,614,722
20	Replacement power cost adjustment							(23,473)
21	Total Adjusted (Over) / Under Recovery Request						\$	22,900,801
22	Normalized Test Period MWh Sales	Exhibit 4						8,584,996
23	Experience Modification Increment (Decrement) cents/KWh							0.267

Notes:

⁽¹⁾ April - June 2019 filed in fuel Docket E-2, Sub 1204 are included in current EMF rate.
Included for Commission review in accordance with NC Rule R8-55 (d)(3) but deducted from total (O)/ U on Line 15.

Duke Energy Progress, LLC
North Carolina Annual Fuel and Fuel Related Expense
Calculation of Experience Modification Factor - Lighting
Twelve Months Ended March 31, 2020
Docket No. E-2, Sub 1250

Line		Fuel Cost Incurred ¢/ kWh (a)	Fuel Cost Billed ¢/ kWh (b)	NC Retail MWh Sales (c)	(Over)/Under Recovery (d)	Adjustments (e)	Adjusted Over)/Under Recovery (f)
No.	Month						
1	April 2019 (Sub 1173)	2.541	2.251	29,301			\$ 85,101
2	May	2.693	2.251	29,533	130,603		130,603
3	June	3.014	2.251	28,819	219,780		219,780
4	July	3.371	2.251	29,697	332,585		332,585
5	August	3.436	2.251	29,171	345,798		345,798
6	September	3.123	2.251	28,826	251,488		251,488
7	October	2.597	2.251	29,896	103,360		103,360
8	November	2.769	2.251	28,066	145,504		145,504
9	December (New Rates - Sub 1204)	2.521	2.237	28,866	81,892		81,892
10	January 2020	2.206	2.217	28,842	(3,142)		(3,142)
11	February	2.226	2.217	28,683	2,515		2,515
12	March	2.115	2.217	28,834	(29,414)		 (29,414)
13	Total Test Period			348,533	1,666,070	-	 1,666,070
14	Booked 12-month (Over) / Under Recovery						\$ 1,666,070
15	Adjustment to exclude Under Recovery - April - June 2019 (1)						 (435,484)
16	Total 9-month (Over) / Under Recovery						\$ 1,230,586
17	Adjustment to exclude test period by-product net gain/loss accrued ex	pense per Docket No. E-2	Sub 1204 Order				(15,429)
18	Adjustment to include test period by-product net gain/loss cash payment	ents per Docket No. E-2 S	ub 1204 Order				49,490
19	Adjustment to include Docket No. E-2 Sub 1204 costs per Order						67,033
20	Replacement power cost adjustment						(1,002)
21	Total Adjusted (Over) / Under Recovery Request						\$ 1,330,678
22	Normalized Test Period MWh Sales	Exhibit 4					349,444
23	Experience Modification Increment (Decrement) cents/KWh						0.381

Notes:

⁽¹⁾ April - June 2019 filed in fuel Docket E-2, Sub 1204 are included in current EMF rate.
Included for Commission review in accordance with NC Rule R8-55 (d)(3) but deducted from total (O)/ U on Line 15.

North Carolina Annual Fuel and Fuel-Related Expense

Normalized Test Period MWh Sales, Fuel and Fuel-Related Revenue, Fuel and Fuel-Related Expense, and System Peak

Twelve Months Ended March 31, 2020

Billing Period December 1, 2020 - November 30, 2021

Docket No. E-2, Sub 1250

Line No.	Description	Reference	1	otal Company	North Carolina Retail	North Carolina Residential	North Carolina Small General Service	North Carolina Medium General Service	North Carolina Large General Service	North Carolina Lighting
1	Test Period MWh Sales	Workpaper 9		61,765,556	37,655,926	15,760,190	1,931,559	11,028,202	8,587,442	348,533
2	Customer Growth MWh Adjustment	Workpaper 9		198,273	88,359	101,073	809	(18,408)	3,976	911
3	Weather MWh Adjustment	Workpaper 9		411,864	108,585	330,167	(154,700)	(60,460)	(6,422) -
4	Total Adjusted MWh Sales	Sum Lines 1-3		62,375,693	37,852,870	16,191,429	1,777,668	10,949,334	8,584,996	349,444
5	Test Period Fuel and Fuel-Related Revenue *		\$	1,397,284,269	\$ 852,009,744					
6	Test Period Fuel and Fuel-Related Expense *		\$	1,557,246,310	\$ 947,443,211					
7	Test Period Unadjusted (Over)/Under Recovery	Line 5 - Line 6	\$	159,962,041	\$ 95,433,467					

2019 Winter Coincidental Peak (CP)

		, <i>,</i>
		KW
8	Total System Peak	13,207,703
9	NC Retail	8,014,112
10	NC Residential Peak	4,560,461
11	NC Small General Service	427,579
12	NC Medium General Service	1,994,881
13	NC Large General Service	1,031,190

Notes:

* Total Company Fuel and Fuel-Related Revenue and Fuel and Fuel-Related Expense are quantifed based on NC Retail's knowr share of revenues and expenses grossed up to also include the percentage of sales not belonging to NC Retail.

Rounding differences may occur.

Harrington Exhibit 5

Duke Energy Progress, LLC
North Carolina Annual Fuel and Fuel-Related Expense
Nuclear Capacity Ratings - MWs
Twelve Months Ended March 31, 2020
Billing Period December 1, 2020 - November 30, 2021
Docket No. E-2, Sub 1250

	Rate Case	Fuel	Proposed
	Docket E-2,	Docket E-2,	Capacity Rating
Unit	Sub 1142	Sub 1204	MW
Brunswick 1	938	938	938
Brunswick 2	932	932	932
Harris 1	928	964	964
Robinson 2	741	741	759
Total Company	3,539	3,575	3,593

Duke Energy Progress, LLC
North Carolina Annual Fuel and Fuel-Related Expense
Monthly Fuel and Baseload Report for March 2020
Twelve Months Ended March 31, 2020
Docket No. E-2, Sub 1250

March 2020 Monthly Fuel Filing and Baseload Report Cover Sheet

Schedule 1

DUKE ENERGY PROGRESS SUMMARY OF MONTHLY FUEL REPORT

Docket No. E-2, Sub 1225

Line No.	Fuel Expenses:	_	March 2020	12 Months Ended March 2020
1	Total Fuel and Fuel-Related Costs	\$	97,552,730	\$ 1,546,653,740
	MWH sales:			
2	Total System Sales		4,793,325	67,320,898
3	Less intersystem sales	=	242,171	5,555,343
4	Total sales less intersystem sales	=	4,551,154	61,765,555
5	Total fuel and fuel-related costs (¢/KWH)			
Ū	(Line 1/Line 4)	=	2.143	2.504
6	Current fuel & fuel-related cost component (¢/KWH) (per Schedule 4, Line 5a Total)	=	2.306	
	Generation Mix (MWH):			
	Fossil (By Primary Fuel Type):			
7	Coal		233,017	8,371,720
8	Oil		986	59,067
9	Natural Gas - Combustion Turbine		198,698	2,350,810
10	Natural Gas - Combined Cycle		1,486,370	19,405,345
11	Biogas		1,544	12,032
12	Total Fossil		1,920,615	30,198,973
13	Nuclear		2,006,698	28,861,332
14	Hydro - Conventional		73,324	662,207
15	Solar Distributed Generation		19,038	258,435
16	Total MWH generation	<u>-</u>	4,019,675	59,980,947

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

Schedule 2

DUKE ENERGY PROGRESS DETAILS OF FUEL AND FUEL-RELATED COSTS

Docket No. E-2, Sub 1225

0501310 fuel oil consumed - steam Total Steam Generation - Account 501 215,303 9,580,028 6,5 318,2 Nuclear Generation - Account 518 0518100 burnup of owned fuel 11,643,238 175,6 Other Generation - Account 547 0547000 natural gas consumed - Combustion Turbine 5,077,428 90,4 40,711,781 532,1 55,6 0547000 natural gas consumed - Combined Cycle 40,711,781 532,1 55,6 532,785 4,3 70,811 5 5,077,428 90,4 40,711,781 532,1 55,6 532,785 4,3 70,811 5 5,077,428 90,4 40,711,781 532,1 55,6 532,785 4,3 70,811 5 5,077,428 90,4 40,711,781 532,1 55,6 532,785 4,3 70,811 5 5,077,428 90,4 40,711,781 532,1 5,5 5,7 5,2 5,2 5,3 4,3 7,3 5,2 5,3 5,3 5,3 5,3 5,3 5,3 5,3 5,3 5,3 5,3	Description		larch 2020		Months Ended March 2020
Section Sect	Fuel and Fuel-Related Costs:				
Display Disp				_	
Total Steam Generation - Account 501 9,580,028 318,2		\$		\$	311,732,857
Nuclear Generation - Account 518 0518100 burnup of owned fuel 11,643,238 175,6 Other Generation - Account 547 0547000 natural gas consumed - Combustion Turbine 5,077,428 90,4 0547000 natural gas consumed - Combined Cycle 40,711,781 532,1 0547100 biogas consumed - Combined Cycle 70,811 5 0547200 fuel oil consumed 23,785 4,3 Total Other Generation - Account 547 45,883,805 627,4 Reagents Catalyst Depreciation 114,923 1,5 Reagents (lime, limestone, ammonia, urea, dibasic acid, and sorbents) 511,642 15,4 Total Reagents 511,642 15,4 Total Reagents 626,565 16,9 By-products Net proceeds from sale of by-products 825,205 11,9 Total Fossil and Nuclear Fuel Expenses Included in Base Fuel Component 68,558,841 1,150,2 Purchased Power and Net Interchange - Account 555 Capacity component of purchased power (PURPA) 1,566,684 40,8 Capacity component of purchased power (renewables) 2,103,735 44,4 Fuel and fuel-related component of purchased power (Purewables) 29,257,564 427,	***************************************				6,525,088
0518100 burnup of owned fuel 11,643,238 175,6 0Cher Generation - Account 547 5,077,428 90,4 0547000 natural gas consumed - Combined Cycle 40,711,781 532,1 0547200 fuel oil consumed - Combined Cycle 70,811 5 0547200 fuel oil consumed 23,785 4,3 Total Other Generation - Account 547 45,883,805 627,4 Reagents 114,923 1,5 Catalyst Depreciation 114,923 1,5 Reagents (lime, limestone, ammonia, urea, dibasic acid, and sorbents) 511,642 15,4 Total Reagents 626,565 16,9 By-products 825,205 11,9 Net proceeds from sale of by-products 825,205 11,9 Total Fossil and Nuclear Fuel Expenses Included in Base Fuel Component 68,558,841 1,150,2 Purchased Power and Net Interchange - Account 555 Capacity component of purchased power (PURPA) 1,566,684 40,8 Capacity component of purchased power (renewables) 2,103,735 44,4 Fuel and fuel-related component of purchased power 29,257,564 427,2	l otal Steam Generation - Account 501		9,580,028		318,257,945
Other Generation - Account 547 0547000 natural gas consumed - Combined Cycle 5,077,428 90,4 0547000 natural gas consumed - Combined Cycle 40,711,781 532,1 0547106 biogas consumed - Combined Cycle 70,811 5 0547200 fuel oil consumed 23,785 4,3 Total Other Generation - Account 547 45,883,805 627,4 Reagents Catalyst Depreciation 114,923 1,5 Reagents (lime, limestone, ammonia, urea, dibasic acid, and sorbents) 511,642 15,4 Total Reagents 511,642 15,4 Total Reagents form sale of by-products 825,205 11,9 By-products 825,205 11,9 Total By-products 825,205 11,9 Total Fossil and Nuclear Fuel Expenses Included in Base Fuel Component 68,558,841 1,150,2 Purchased Power and Net Interchange - Account 555 Capacity component of purchased power (PURPA) 1,566,684 40,8 Capacity component of purchased power (renewables) 2,103,735 44,4 Fuel and fuel-related component of purchased power 29,257,564 427,2	Nuclear Generation - Account 518				
0547000 natural gas consumed - Combustion Turbine 5,077,428 90,4 0547000 natural gas consumed - Combined Cycle 40,711,781 532,1 0547200 fuel oil consumed - Combined Cycle 70,811 5 0547200 fuel oil consumed Total Other Generation - Account 547 45,883,805 627,4 Reagents Catalyst Depreciation 114,923 1,5 Reagents (lime, limestone, ammonia, urea, dibasic acid, and sorbents) 511,642 15,4 Total Reagents 626,565 16,9 By-products 825,205 11,9 Net proceeds from sale of by-products 825,205 11,9 Total By-products 825,205 11,9 Total Fossil and Nuclear Fuel Expenses Included in Base Fuel Component 68,558,841 1,150,2 Purchased Power and Net Interchange - Account 555 Capacity component of purchased power (PURPA) 1,566,684 40,8 Capacity component of purchased power (renewables) 2,103,735 44,4 Fuel and fuel-related component of purchased power 29,257,564 427,2	0518100 burnup of owned fuel		11,643,238		175,626,194
0547000 natural gas consumed - Combined Cycle 40,711,781 532,1 0547106 biogas consumed - Combined Cycle 70,811 5 0547200 fuel oil consumed 23,785 4,3 Total Other Generation - Account 547 45,883,805 627,4 Reagents Catalyst Depreciation 114,923 1,5 Reagents (lime, limestone, ammonia, urea, dibasic acid, and sorbents) 511,642 15,4 Total Reagents 626,565 16,9 By-products 825,205 11,9 Net proceeds from sale of by-products 825,205 11,9 Total Fossil and Nuclear Fuel Expenses Included in Base Fuel Component 68,558,841 1,150,2 Purchased Power and Net Interchange - Account 555 Capacity component of purchased power (PURPA) 1,566,684 40,8 Capacity component of purchased power (renewables) 2,103,735 44,4 Fuel and fuel-related component of purchased power 29,257,564 427,2	Other Generation - Account 547				
0547106 biogas consumed - Combined Cycle 70,811 5 0547200 fuel oil consumed 23,785 4,3 Total Other Generation - Account 547 45,883,805 627,4 Reagents Catalyst Depreciation 114,923 1,5 Reagents (lime, limestone, ammonia, urea, dibasic acid, and sorbents) 511,642 15,4 Total Reagents 626,565 16,9 By-products 825,205 11,9 Net proceeds from sale of by-products 825,205 11,9 Total By-products 825,205 11,9 Total Fossil and Nuclear Fuel Expenses Included in Base Fuel Component 68,558,841 1,150,2 Purchased Power and Net Interchange - Account 555 Capacity component of purchased power (PURPA) 1,566,684 40,8 Capacity component of purchased power (renewables) 2,103,735 44,4 Fuel and fuel-related component of purchased power 29,257,564 427,2			5,077,428		90,464,471
0547200 fuel oil consumed 23,785 4,3 Total Other Generation - Account 547 45,883,805 627,4 Reagents Catalyst Depreciation 114,923 1,5 Reagents (lime, limestone, ammonia, urea, dibasic acid, and sorbents) 511,642 15,4 Total Reagents 626,565 16,9 By-products Net proceeds from sale of by-products 825,205 11,9 Total By-products 825,205 11,9 Total Fossil and Nuclear Fuel Expenses Included in Base Fuel Component 68,558,841 1,150,2 Purchased Power and Net Interchange - Account 555 Capacity component of purchased power (PURPA) 1,566,684 40,8 Capacity component of purchased power (renewables) 2,103,735 44,4 Fuel and fuel-related component of purchased power 29,257,564 427,2			40,711,781		532,121,009
Total Other Generation - Account 547 45,883,805 627,4			,		571,723
Reagents Catalyst Depreciation 114,923 1,5 Reagents (lime, limestone, ammonia, urea, dibasic acid, and sorbents) 511,642 15,4 Total Reagents 626,565 16,9 By-products 825,205 11,9 Total By-products 825,205 11,9 Total Fossil and Nuclear Fuel Expenses Included in Base Fuel Component 68,558,841 1,150,2 Purchased Power and Net Interchange - Account 555 Capacity component of purchased power (PURPA) 1,566,684 40,8 Capacity component of purchased power (renewables) 2,103,735 44,4 Fuel and fuel-related component of purchased power 29,257,564 427,2					4,305,680
Catalyst Depreciation 114,923 1,5 Reagents (lime, limestone, ammonia, urea, dibasic acid, and sorbents) 511,642 15,4 Total Reagents 626,565 16,9 By-products 825,205 11,9 Net proceeds from sale of by-products 825,205 11,9 Total By-products 825,205 11,9 Total Fossil and Nuclear Fuel Expenses Included in Base Fuel Component 68,558,841 1,150,2 Purchased Power and Net Interchange - Account 555 Capacity component of purchased power (PURPA) 1,566,684 40,8 Capacity component of purchased power (renewables) 2,103,735 44,4 Fuel and fuel-related component of purchased power 29,257,564 427,2	Total Other Generation - Account 547		45,883,805		627,462,883
Reagents (lime, limestone, ammonia, urea, dibasic acid, and sorbents) 511,642 15,4 Total Reagents 626,565 16,9 By-products 825,205 11,9 Net proceeds from sale of by-products 825,205 11,9 Total By-products 825,205 11,9 Total Fossil and Nuclear Fuel Expenses Included in Base Fuel Component 68,558,841 1,150,2 Purchased Power and Net Interchange - Account 555 Capacity component of purchased power (PURPA) 1,566,684 40,8 Capacity component of purchased power (renewables) 2,103,735 44,4 Fuel and fuel-related component of purchased power 29,257,564 427,2	Reagents				
Total Reagents 626,565 16,9 By-products 825,205 11,9 Net proceeds from sale of by-products 825,205 11,9 Total By-products 825,205 11,9 Total Fossil and Nuclear Fuel Expenses Included in Base Fuel Component 68,558,841 1,150,2 Purchased Power and Net Interchange - Account 555 2 1,566,684 40,8 Capacity component of purchased power (PURPA) 1,566,684 40,8 Capacity component of purchased power (renewables) 2,103,735 44,4 Fuel and fuel-related component of purchased power 29,257,564 427,2	Catalyst Depreciation				1,555,239
By-products Net proceeds from sale of by-products Total By-products Total Fossil and Nuclear Fuel Expenses Included in Base Fuel Component Purchased Power and Net Interchange - Account 555 Capacity component of purchased power (PURPA) Capacity component of purchased power (renewables) Fuel and fuel-related component of purchased power 1,566,684 40,8 2,103,735 44,4 427,2					15,418,914
Net proceeds from sale of by-products 825,205 11,9 Total By-products 825,205 11,9 Total Fossil and Nuclear Fuel Expenses Included in Base Fuel Component 68,558,841 1,150,2 Purchased Power and Net Interchange - Account 555 Capacity component of purchased power (PURPA) 1,566,684 40,8 Capacity component of purchased power (renewables) 2,103,735 44,4 Fuel and fuel-related component of purchased power 29,257,564 427,2	Total Reagents		626,565		16,974,153
Total By-products 825,205 11,9 Total Fossil and Nuclear Fuel Expenses 68,558,841 1,150,2 Purchased Power and Net Interchange - Account 555 Capacity component of purchased power (PURPA) 1,566,684 40,8 Capacity component of purchased power (renewables) 2,103,735 44,4 Fuel and fuel-related component of purchased power (PURPA) 29,257,564 427,2					
Total Fossil and Nuclear Fuel Expenses Included in Base Fuel Component Purchased Power and Net Interchange - Account 555 Capacity component of purchased power (PURPA) Capacity component of purchased power (renewables) Fuel and fuel-related component of purchased power 29,257,564 1,150,2 1,566,684 40,8 2,103,735 44,4 427,2					11,977,751
Included in Base Fuel Component 68,558,841 1,150,2 Purchased Power and Net Interchange - Account 555 Capacity component of purchased power (PURPA) 1,566,684 40,8 Capacity component of purchased power (renewables) 2,103,735 44,4 Fuel and fuel-related component of purchased power 29,257,564 427,2	Total By-products		825,205		11,977,751
Purchased Power and Net Interchange - Account 555 Capacity component of purchased power (PURPA) Capacity component of purchased power (renewables) Fuel and fuel-related component of purchased power 29,257,564 40,8 2,103,735 44,4 427,2	·				
Capacity component of purchased power (PURPA)1,566,68440,8Capacity component of purchased power (renewables)2,103,73544,4Fuel and fuel-related component of purchased power29,257,564427,2	Included in Base Fuel Component		68,558,841		1,150,298,926
Capacity component of purchased power (renewables)2,103,73544,4Fuel and fuel-related component of purchased power29,257,564427,2					
Fuel and fuel-related component of purchased power 29,257,564 427,2					40,857,994
					44,459,825
Total Purchased Power and Net Interchange - Account 555 32.927.983 512.5			<u> </u>		427,271,568
<u> </u>	Total Purchased Power and Net Interchange - Account 555		32,927,983		512,589,387
Less:					
					116,225,906
Solar Integration Charge					8,667
Total Fuel Credits - Accounts 447/456 3,934,094 116,2	Total Fuel Credits - Accounts 447/456		3,934,094		116,234,573
Total Fuel and Fuel-Related Costs \$ 97,552,730 \$ 1,546,6	Total Fuel and Fuel-Related Costs	<u> \$ </u>	97,552,730	\$	1,546,653,740

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

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

MARCH 2020

Schedule 3, Purchases Page 1 of 4

Purchased Power	 Total	apacity	•		Non-	сара	acity		
Economic	\$	\$	mWh		Fuel \$	_	uel-related \$		ot Fuel \$ uel-related \$
Economic	 Φ	 Φ	IIIVVII		ruei \$	Е	uei-reialeu ş	NOL F	uei-reiateu \$
Alcoa Power Marketing Inc.	-	-	-		-		-		
Broad River Energy, LLC.	\$ 1,627,028	\$ 996,440	10,226	\$	336,614	\$	293,974		
City of Fayetteville	687,231	702,000	-		(14,769)		-		
DE Carolinas - Native Load Transfer	3,278,662	-	193,690		2,826,692		476,361	\$	(24,391)
DE Carolinas - Native Load Transfer Benefit	638,770	-	-		638,770				
DE Carolinas - Fees	(5,573)		-		-		(5,573)		
Haywood EMC	28,550	28,550	-		-		-		
NCEMC	2,872,255	2,635,688	6,663		206,223		30,344		
PJM Interconnection, LLC.	528	-	-		4 700 000		528		
Southern Company Services	\$ 2,760,936 11,888,387	\$ 687,323 5,050,001	94,186 304,765	¢	1,700,829 5,694,359	¢	372,784 1,168,418	\$	(24,391)
Bonovichia Encorp.									
Renewable Energy									
REPS	\$ 13,061,139	-	205,875		-	\$	13,061,139		-
DERP Qualifying Facilities	44,087	-	917		-		44,087		-
	\$ 13,105,226	 -	206,792		-	\$	13,105,226		-
HB589 PURPA Purchases									
Qualifying Facilities	12,945,019	 	270,356			\$	12,945,019		-
	 12,945,019	 -	270,356		-	\$	12,945,019		-
Non-dispatchable									
DE Carolinas - Emergency	\$ 11,826	-	500	\$	7,214		-	\$	4,612
Dominion Energy South Carolina - Emergency	5,150	-	103		3,142		-		2,008
Energy Imbalance	4,608	-	270		4,208		-		400
Generation Imbalance Qualifying Facilities	651 -	-	47		397		-		254
, , ,	\$ 22,235	•	920	\$	14,961		-	\$	7,274
Total Purchased Power	\$ 37,960,867	\$ 5,050,001	782,833	\$	5,709,320	\$	27,218,663	\$	(17,117)

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

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

MARCH 2020

Schedule 3, Sales Page 2 of 4

	 Total	 Capacity		Non-capacity			
Sales	 \$	 \$	mWh		Fuel \$	N	on-fuel \$
Market Based:							
NCEMC Purchase Power Agreement	\$ 898,429	\$ 652,500	9,474	\$	153,777	\$	92,152
PJM Interconnection, LLC.	238,782	-	18,913		279,031		(40,249)
Other:							
DE Carolinas - Native Load Transfer Benefit	\$ 546,006	-	-	\$	546,006		-
DE Carolinas - Native Load Transfer	3,130,805	-	213,775		2,955,180	\$	175,625
Generation Imbalance	· · ·	-	9		-	•	, <u>-</u>
Total Intersystem Sales	\$ 4,814,022	\$ 652,500	242,171	\$	3,933,994	\$	227,528

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

^{*} Sales for resale other than native load priority.

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

Twelve Months Ended MARCH 2020

Schedule 3, Purchases Page 3 of 4

Purchased Power	Total	 Capacity		Non	-сар	acity		
	_	_			_			ot Fuel \$
Economic	\$	 \$	mWh	Fuel \$	F	Fuel-related \$	Not F	uel-related \$
Broad River Energy, LLC.	\$ 63,826,838	\$ 44,358,458	365,707	\$ 12,819,480	\$	6,648,900		
City of Fayetteville	13,551,418	12,493,350	16,660	779,150		278,918		
DE Carolinas - Native Load Transfer	38,316,583	-	1,608,874	32,145,110		6,144,973	\$	26,499
DE Carolinas - Native Load Transfer Benefit	4,193,107	-	-	4,193,107		-		
DE Carolinas - Fees	98,267	-	-	-		98,267		
Haywood EMC	362,219	356,383	168	5,836		-		
NCEMC	43,861,751	36,366,933	190,587	6,980,814		514,004		
PJM Interconnection, LLC.	270,556	-	8,237	161,533		109,023		
Southern Company Services	47,215,492	 14,213,809	1,223,097	26,600,709		6,400,974		
	\$ 211,696,231	\$ 107,788,933	3,413,330	\$ 83,685,739	\$	20,195,059	\$	26,499
Renewable Energy								
REPS	\$ 219,298,567	-	3,196,429	-	\$	219,298,567		-
DERP Net Metering Excess Generation	16,899	\$ 2,915	394	-		-	\$	13,984
DERP Qualifying Facilities	600,306	, <u>-</u>	12,314	-		600,306		, <u> </u>
, 0	\$ 219,915,772	\$ 2,915	3,209,137	-	\$	219,898,873	\$	13,984
HB589 PURPA Purchases								
Qualifying Facilities	\$ 187,902,788	 	3,206,430	-	\$	187,902,788		-
	\$ 187,902,788	 -	3,206,430	-	\$	187,902,788		-
Non-dispatchable								
DE Carolinas - Emergency	\$ 44,432	-	1,869	\$ 27,104		-	\$	17,328
DE Carolinas - Reliability	1,163,688	-	20,232	709,850		-		453,838
Dominion Energy South Carolina - Emergency	5,150	-	103	3,142		-		2,008
Virginia Electric and Power Company - Emergency	43,433	-	1,415	26,358		-		17,075
Energy Imbalance	147,661	-	5,751	137,267		-		10,394
Generation Imbalance	4,656	-	434	3,207		-		1,449
	\$ 1,409,020	-	29,804	\$ 906,928		-	\$	502,092
Total Purchased Power	\$ 620,923,811	\$ 107,791,848	9,858,701	\$ 84,592,667	\$	427,996,720	\$	542,575

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

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

Twelve Months Ended MARCH 2020

Schedule 3, Sales Page 4 of 4

		Total Capacity			Non-capacity					
Sales		\$		\$	mWh		Fuel\$		Non-fuel \$	
Utilities:										
DE Carolinas - Emergency	\$	132,012		-	1,452	\$	80,527	\$	51,485	
DE Carolinas - As Available Capacity		216,196	\$	216,196	-		-		-	
Market Based:										
NCEMC Purchase Power Agreement	\$	11,415,531	\$	7,830,001	113,371	\$	2,901,323	\$	684,206	
PJM Interconnection, LLC.	·	1,321,164	·	-	66,917		1,234,943	·	86,220	
Other:										
DE Carolinas - Native Load Transfer Benefit	\$	12,206,819		_	-	\$	12,206,819		_	
DE Carolinas - Native Load Transfer	*	105,109,458		_	5,372,692	*	99,782,117	\$	5,327,342	
Generation Imbalance		23,750		_	911		20,177	Ψ	3,572	
	•	130,424,930	•	8,046,197	5,555,343	¢	116,225,906	¢		
Total Intersystem Sales	<u> </u>	130,424,930	Ψ	0,040,197	5,555,343	φ	110,225,906	φ	6,152,825	

^{*} Sales for resale other than native load priority.

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

Schedule 4

DUKE ENERGY PROGRESS (OVER) / UNDER RECOVERY OF FUEL COSTS MARCH 2020

Line No.			Residential	Small General Service	Medium General Service	Large General Service	Lighting	Total
1	1a. System Retail kWh sales	Input						4,551,154,460
	1b. System kWh Sales at generation	Input						4,710,432,773
2	2a. DERP Net Metered kWh generation	Input						2,529,301
	2b. Line loss percentage from Cost of Service	Input Annually						3.909%
	2c. DERP Net Metered kWh at generation	L2a * (1 + 2b)						2,628,171
3	Adjusted System kWh sales	L1b + L2c						4,713,060,944
4	4a. N.C. Retail kWh sales	Input	1,235,463,083	141,377,071	797,215,462	675,674,106	28,834,155	2,878,563,877
	4b. Line loss percentage from Cost of Service	Input Annually	4.505%	4.504%	4.332%	3.206%	4.502%	
	4c. NC kWh Sales at generation	4a * (1+4b)	1,291,120,695	147,744,694	831,750,836	697,336,218	30,132,269	2,998,084,712
	4d. NC allocation % by customer class	Calculated	43.065%	4.928%	27.743%	23.259%	1.005%	
	NC retail % of actual system total NC retail % of adjusted system total	L4c NC Total / L1b Total System						63.648%
	41. NC Tetali % 0i aujusteu system total	L4c NC Total / L3 Total System						63.612%
5	Approved fuel and fuel-related rates (¢/kWh)							
	5a Billed rates by class (¢/kWh)	Input Annually	2.326	2.499	2.456	2.054	2.217	2.306
	5b Billed fuel expense	L4a * L5a / 100	\$28,736,871	\$3,533,013	\$19,579,612	\$13,878,346	\$639,253	\$66,367,095
6	Incurred base fuel and fuel-related (less renewable purchased power capacity) rates by cla	ss (¢/kWh)						
	6a New approved Docket E-2, Sub 1204 allocation factor	Input Annually	42.78%	5.09%	29.21%	21.90%	1.02%	100.00%
	6b System incurred expense	Input						\$93,963,527
	6c NC incurred expense by class	L4f * L6a * L6b	\$25,570,495	\$3,042,399	\$17,459,424	\$13,090,085	\$609,675	\$59,772,079
	6d NC Incurred base fuel rates (¢/kWh)	L6c / L4a * 100	2.06971	2.15197	2.19005	1.93734	2.11442	2.07645
7	Incurred renewable purchased power capacity rates (¢/kWh)							
	7a NC retail production plant %	Input Annually	40 5000/	/ 15/0/	20.2520/	15.00/0/	0.0070/	61.001% 100.00%
	7b Production plant allocation factors 7c System incurred expense	Input Annually	49.599%	6.156%	28.252%	15.986%	0.007%	\$3,670,419
	7d NC incurred renewable capacity expense	Input L7a* L7b* L7c	\$1.110.514	\$137.825	\$632.549	\$357.934	\$163	\$2,238,985
	7e NC incurred rates by class	L7d / L4a * 100	0.08989	0.09749	0.07934	0.05297	0.00057	0.07778
	76 No incurred rates by class	2747244 100	0.00707	0.07747	0.07734	0.03247	0.00037	0.07776
8	Total incurred rates by class (¢/kWh)	L6h + 7e	2.1596	2.2495	2.2694	1.9903	2.1150	
9	Difference in ¢/kWh (incurred - billed)	L8 - L5a	(0.16640)	(0.24954)	(0.18661)	(0.06369)	(0.10201)	
10	(Over) / under recovery [See footnote]	L9 * L4a / 100	(\$2,055,811)	(\$352,792)	(\$1,487,684)	(\$430,337)	(\$29,414)	(\$4,356,038)
11	Prior period adjustments	Input						
12	Total (over) / under recovery [See footnote]	L10 + L11	(\$2,055,811)	(\$352,792)	(\$1,487,684)	(\$430,337)	(\$29,414)	(\$4,356,038)
13	Total System Incurred Expenses							\$97.633.946
14	Less: Jurisdictional allocation adjustment	Input						81,216
15	Total Fuel and Fuel-related Costs per Schedule 2	- T						\$97,552,730

16 (Over) / under recovery for each month of the current test period [See footnote]

			(Over)	Under Recovery			
	Total To Date	Residential	Small General Service	Medium General Service	Large General Service	Lighting	Total Company
April 2019	\$ 12,291,799	7,664,663	508,889	1,817,211	2,215,935	85,101	\$ 12,291,799
May	27,656,436	10,340,265	603,324	1,474,141	2,816,304	130,603	15,364,637
June	41,484,352	7,081,848	397,399	2,251,604	3,877,285	219,780	13,827,916
July	60,013,014	7,741,904	612,524	4,436,980	5,404,669	332,585	18,528,662
August	77,910,287	7,629,308	406,378	4,042,108	5,473,681	345,798	17,897,273
September	88,271,887	6,009,366	91,425	843,244	3,166,077	251,488	10,361,600
October	94,229,547	6,177,517	(183,357)	(1,250,862)) 1,111,002	103,360	5,957,660
November	111,585,817	9,946,288	894,152	3,635,799	2,734,527	145,504	17,356,270
December	112,574,298	(1,556,451)	(127,643)	487,730	2,102,953	81,892	988,481
January 2020	105,124,558	(5,324,375	(533,274)	(1,879,357)) 290,408	(3,142)	(7,449,740)
February	99,789,505	(4,103,653	(498,540)	(1,410,803)	675,428	2,515	(5,335,053)
March	95,433,467	(2,055,811	(352,792)	(1,487,684)	(430,337)	(29,414)	(4,356,038)
Total	\$	49,550,869	\$ 1,818,485	\$ 12,960,111	\$ 29,437,932 \$	1,666,070	\$ 95,433,467

Notes:

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

Presentation of over or under collected amounts reflects a regulatory asset or liability. Over collections, or regulatory liabilities, are shown as negative amounts. Under collections, or regulatory assets, are shown as positive amounts.

_/1 Includes prior period adjustments.

Duke Energy Progress Fuel and Fuel Related Cost Report March 2020

				Cmith Engrav			
	Mayo	Roxboro	Asheville	Smith Energy Complex	Sutton	Lee	Blewett
Description	Steam	Steam	CC/CT	CC/CT	CC/CT	CC	СТ
Cost of Fuel Purchased (\$)							
Coal	\$2,420,963	\$7,824,994	-	-	-	-	-
Oil	204,995	14,078	\$3,465	-	-	-	-
Gas - CC	-	-	4,725,951	\$9,361,202	\$11,514,782	\$15,109,846	-
Gas - CT	-	-	1,856,581	2,804,626	416,159	-	-
Biogas	-	-	-	404,835	-	-	-
Total	\$2,625,958	\$7,839,072	\$6,585,997	\$12,165,828	\$11,930,941	\$15,109,846	-
Average Cost of Fuel Purchased (¢/MBTU)							
Coal	392.25	414.98	_	-	-	_	-
Oil	1,318.64	1,357.57	-	-	-	-	-
Gas - CC	-	-	423.17	319.30	406.82	345.22	-
Gas - CT	-	-	332.10	318.05	447.68	-	-
Biogas	-	-	-	2,697.10	-	-	-
Weighted Average	415.01	415.49	392.79	329.30	408.12	345.22	-
Cost of Fuel Burned (\$)							
Coal	\$2,306,334	\$7,058,391	_	_	_	_	-
Oil - CC	-	-	_	_	_	_	-
Oil - Steam/CT	139,059	76,244	\$1,792		-	_	\$4,939
Gas - CC	-		4,725,951	\$9,361,202	\$11,514,782	\$15,109,846	-
Gas - CT	-	_	1,856,581	2,804,626	416,159	-	_
Biogas	_	-	-	404,835	-	-	-
Nuclear	-	_	_	-	_	-	_
Total	\$2,445,393	\$7,134,635	\$6,584,324	\$12,570,663	\$11,930,941	\$15,109,846	\$4,939
Average Cont of First Downed (4/MPTI)							
Average Cost of Fuel Burned (¢/MBTU) Coal	343.97	345.74	_	=	=	_	=
Oil - CC	343.97	343.74					
Oil - Steam/CT	1,423.91	1,448.68	1,367.94		-		1,685.55
Gas - CC	1,423.91	1,440.00	423.17	319.30	406.82	345.22	1,005.55
Gas - CT	-	-	332.10	318.05	447.68	545.22	
Biogas	_	-	-	2,697.10	-	_	
Nuclear	-	-	-	2,097.10	-	•	-
Weighted Average	359.48	348.58	392.87	328.34	408.12	345.22	1,685.55
Average Cost of Generation (¢/kWh)	4.00	4.00					
Coal	4.08	4.00	-	-	-	-	-
Oil - CC	-	-	-	-	-	-	-
Oil - Steam/CT	16.88	16.43	16.57	-	-	-	-
Gas - CC	-	-	2.92	2.85	2.90	2.52	-
Gas - CT	-	-	4.03	1.95	4.28	-	-
Biogas Nuclear	-	-		-	-	-	-
Weighted Average	4.26	4.03	3.17	2.66	2.94	2.52	
Weighted / Weilage	4.20	4.00	0.17	2.00	2.04	2.02	
Burned MBTU's							
Coal	670,496	2,041,525	-	-	-	-	-
Oil - CC	-	-	-	-	-	-	-
Oil - Steam/CT	9,766	5,263	131		·		293
Gas - CC	-	-	1,116,797	2,931,744	2,830,444	4,376,842	-
Gas - CT	-	-	559,045	881,811	92,958	-	-
Biogas	-	-	-	15,010	-	-	-
Nuclear Total	680,262	2,046,788	1,675,973	3,828,565	2,923,402	4,376,842	293
	300,202	2,040,700	.,010,010	3,020,000	2,020,702	.,070,042	200
Net Generation (mWh)							
Coal	56,570	176,447	-	-	-	-	-
Oil - CC	-	-	-	-	-	-	-
Oil - Steam/CT	824	464	11		-	-	(88)
Gas - CC	-	-	161,897	328,030	396,470	599,973	-
Gas - CT	-	-	46,053	143,798	9,719	-	-
Biogas	-	-	-	1,544	-	-	-
Nuclear	-	-	-	-	-	-	-
Hydro (Total System)							
Solar (Total System) Total	57 204	176 011	207.061	A72 272	ADE 190	500 072	/001
ı utal	57,394	176,911	207,961	473,372	406,189	599,973	(88)
Cost of Reagents Consumed (\$)							
Ammonia	\$9,305	\$45,466	-	\$21,317	-	-	-
Limestone	93,028	194,463	-	-	-	-	-
Re-emission Chemical	-	-	-	-	-	-	-
Sorbents	62,552	85,511	-	-	-	-	-
Urea			-	-	-	-	-
Total	\$164,885	\$325,440	-	\$21,317	-	-	-

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.

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

Asheville Steam was retired effective January 29, 2020.

Re-emission chemical reagent expense is not recoverable in NC.

Duke Energy Progress Fuel and Fuel Related Cost Report March 2020

Description	Darlington CT	Wayne County CT	Weatherspoon CT	Brunswick Nuclear	Harris Nuclear	Robinson Nuclear	Current Month	Total 12 ME March 2020
Cost of Fuel Purchased (\$)	CI	Ci	Ci	Nuclear	Nuclear	Nuclear	WOITH	Warch 2020
Coal	_	_	_	_	_	_	\$10,245,957	\$346,278,799
Oil	_		_	\$42	\$12,658	-	235,238	12,051,112
Gas - CC	_	_	_	ψ	ψ12,000 -	_	40,711,781	532,121,009
Gas - CT	\$10	\$28	\$24	-	-	_	5,077,428	90,464,471
Biogas	-	-	Ψ <u>-</u> .	_	_	_	404,835	2,449,337
Total	\$10	\$28	\$24	\$42	\$12,658	-	\$56,675,239	\$983,364,728
Average Cost of Fuel Purchased (¢/MBTU)								
Coal	-	-	-	-	-	-	409.37	343.77
Oil	-	-	-	-	1,223.00	-	1,335.21	1,482.46
Gas - CC	-	-	-	-	-	-	361.70	375.66
Gas - CT	333.33	17.95	-	-	-	-	331.00	364.34
Biogas	-	-	-	-	-	-	2,697.10	2,817.08
Weighted Average	333.33	17.95	-	-	1,223.00	•	370.09	366.82
Cost of Fuel Burned (\$)								
Coal	-	-	-	-	-	-	\$9,364,725	\$311,732,857
Oil - CC	-	-	-	-	-	-	-	525,645
Oil - Steam/CT	-	-	\$17,054	-	-	-	239,088	10,305,123
Gas - CC	-	-	-	-	-	-	40,711,781	532,121,009
Gas - CT	\$10	\$28	24	-	-	-	5,077,428	90,464,471
Biogas	-	-	-	-	-	-	404,835	2,449,337
Nuclear	- 640	-	- #47.070	\$4,451,280	\$3,888,768	\$3,303,190	11,643,238	175,626,195
Total	\$10	\$28	\$17,078	\$4,451,280	\$3,888,768	\$3,303,190	\$67,441,094	\$1,123,224,637
Average Cost of Fuel Burned (¢/MBTU) Coal	_	_	_	_			345.30	342.62
Oil - CC	-		-	-	-	-	345.30	1,568.39
Oil - Steam/CT	-	-	1,590.86				1,446.82	1,436.22
Gas - CC			1,590.00			-	361.70	375.66
Gas - CT	333.33	17.95			_		331.00	364.34
Biogas	-	-	_	_		_	2,697.10	2,817.08
Nuclear	_	_	_	55.89	56.40	55.67	56.00	58.34
Weighted Average	333.33	17.95	1,593.10	55.89	56.40	55.67	185.65	200.80
Average Cost of Generation (¢/kWh)								
Coal	-	-	-	-	-	-	4.02	3.72
Oil - CC	-	-	-	-	-	-	-	15.77
Oil - Steam/CT	-	-	-	-	-	-	24.25	18.49
Gas - CC	-	-	-	-	-	-	2.74	2.74
Gas - CT	-	-	-	-	-	-	2.56	3.85
Biogas	-	-	-	-	-	-	26.22	20.36
Nuclear Weighted Average			-	0.60	0.57 0.57	0.56 0.56	0.58 1.68	0.61 1.87
Weighted Average	•	-	•	0.00	0.57	0.30	1.00	1.07
Burned MBTU's								
Coal	-	-	-	-	-	-	2,712,021	90,985,978
Oil - CC	-	-	-	-	-	-	-	33,515
Oil - Steam/CT	-	-	1,072	-	-	-	16,525	717,518
Gas - CC	-	-	-	-	-	-	11,255,827	141,650,895
Gas - CT	3	156	-	-	-	-	1,533,973	24,829,552
Biogas	-	-	-		-	-	15,010	86,946
Nuclear	-	- 150		7,964,872	6,894,876	5,933,271	20,793,019	301,060,528
Total	3	156	1,072	7,964,872	6,894,876	5,933,271	36,326,375	559,364,932
Net Generation (mWh)								
Coal	-	-	-	-	-	-	233,017	8,371,720
Oil - CC	-	-	-	-	-	-	-	3,334
Oil - Steam/CT	(201)	-	(24)	-	-	-	986	55,733
Gas - CC	-	-	-	-	-	-	1,486,370	19,405,345
Gas - CT	(237)	(635)	-	-	-	-	198,698	2,350,810
Biogas	-	-	-	-	-	-	1,544	12,032
Nuclear	-	-	-	744,316	677,007	585,375	2,006,698	28,861,332
Hydro (Total System)							73,324	662,207
Solar (Total System)	(400)	(005)	/o.t	744.040	677.007	F0F 07F	19,038	258,435
Total	(438)	(635)	(24)	744,316	677,007	585,375	4,019,675	59,980,947
Cost of Reagents Consumed (\$)								
Ammonia	-	-	-	-	-	-	\$76,088	\$1,980,709
Limestone	-	-	-	-	-	-	287,491	9,805,521
Re-emission Chemical	-	-	-	-	-	-	-	-
Sorbents	-	-	-	-	-	-	148,063	2,979,668
Urea	-	-	-	-	-	-	-	653,016
Total	-	-	-	-	-	-	\$511,642	\$15,418,914

Duke Energy Progress Fuel & Fuel-related Consumption and Inventory Report March 2020

Schedule 6

				Smith Energy			
Description	Мауо	Roxboro	Asheville	Complex	Sutton	Lee	Blewett
OI B-t-							
Coal Data:							
Beginning balance	575,815	1,186,269	-	-	-	-	-
Tons received during period	25,898	76,231	-	-	-	-	-
Inventory adjustments	-	-	-	-	-	-	-
Tons burned during period	27,394	80,375	-	-	-	-	-
Ending balance	574,319	1,182,125	-	-	-	-	-
MBTUs per ton burned	24.48	25.40	-	-	-	-	-
Cost of ending inventory (\$/ton)	84.19	87.70	-	-	-	-	-
Oil Data:							
Beginning balance	259,555	424,889	4,567,776	8,007,162	2,608,517	-	758,372
Gallons received during period	112,649	7,516	-	-	-	-	-
Miscellaneous use and adjustments	(388)	(7,516)	-	-	-	-	-
Gallons burned during period	70,951	38,094	856	-	-	-	2,087
Ending balance	300,865	386,795	4,566,920	8,007,162	2,608,517	-	756,285
Cost of ending inventory (\$/gal)	1.96	2.00	2.09	2.33	2.80	-	2.37
Natural Gas Data:							
Beginning balance	-	-	-	-	-	-	-
MCF received during period	-	-	1,623,167	3,681,099	2,823,091	4,226,526	-
MCF burned during period	_	_	1,623,167	3,681,099	2,823,091	4,226,526	-
Ending balance	-	-	-	-	-	-	-
Biogas Data:							
Beginning balance	_	_	-	-	-	-	-
MCF received during period	_	_	-	14,493	-	_	_
MCF burned during period	_	_	-	14,493	_	-	_
Ending balance	-	-	-	-	-	-	-
Limestone/Lime Data:							
Beginning balance	13,075	123,479	5,379	_	_	_	_
Tons received during period	-	191	23	-	_	_	_
Inventory adjustments	_	-	-	_	_	_	_
Tons consumed during period	1,609	4,483	-	_	_	-	_
Ending balance	11,466	119,187	5,402	_	_	-	_
Cost of ending inventory (\$/ton)	58.08	39.66	67.63				

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.

Asheville Steam was retired effective January 29, 2020.

Duke Energy Progress Fuel & Fuel-related Consumption and Inventory Report March 2020

Schedule 6

Description	Darlington	Wayne County	Weatherspoon	Brunswick	Harris	Robinson	Current Month	Total 12 ME March 2020
Coal Data:								
Beginning balance	-	-	-	-	-	-	1,762,084	1,369,435
Tons received during period	-	-	-	-	-	-	102,129	3,993,739
Inventory adjustments	-	-	-	-	-	-	-	63,924
Tons burned during period	-	-	-	-	-	-	107,769	3,631,494
Ending balance	-	-	-	-	-	-	1,756,444	1,756,444
MBTUs per ton burned	-	-	-	-	-	-	25.17	25.05
Cost of ending inventory (\$/ton)	-	-	-	-	-	-	86.32	86.32
Oil Data:								
Beginning balance	10,082,557	11,323,612	601,018	161,668	289,531	78,040	39,162,697	38,635,967
Gallons received during period	-	-	-	-	7,499	-	127,664	5,890,663
Miscellaneous use and adjustments	-	-	-	-	-	-	(7,904)	(172,779)
Gallons burned during period	-	-	7,660	3,800	-	-	123,448	5,194,842
Ending balance	10,082,557	11,323,612	593,358	157,868	297,030	78,040	39,159,009	39,159,009
Cost of ending inventory (\$/gal)	2.39	2.40	2.23	2.32	2.32	2.32	2.36	2.36
Natural Gas Data:								
Beginning balance	-	-	-	-	-	-	-	-
MCF received during period	3	151	-	-	-	-	12,354,037	161,208,866
MCF burned during period	3	151	-	-	-	-	12,354,037	161,208,866
Ending balance	-	-	-	-	-	-	-	-
Biogas Data:								
Beginning balance	-	-	-	-	-	-	-	-
MCF received during period	-	-	-	-	-	-	14,493	84,148
MCF burned during period	-	-	-	-	-	-	14,493	84,148
Ending balance	-	-	-	-	-	-	-	-
Limestone/Lime Data:								
Beginning balance	-	-	-	-	-	-	141,933	84,576
Tons received during period	-	-	-	-	-	-	214	258,882
Inventory adjustments	-	-	-	-	-	-	-	12,499
Tons consumed during period	-	-	-	-	-	-	6,092	219,902
Ending balance	-	-	-	-	-	-	136,055	136,055
Cost of ending inventory (\$/ton)	-	-	-	-	-	-	42.32	42.32

Schedule 7

DUKE ENERGY PROGRESS ANALYSIS OF COAL PURCHASED MARCH 2020

STATION	ТҮРЕ	QUANTITY OF TONS DELIVERED	DELIVERED COST	DELIVERED COST PER TON
МАҮО	SPOT	12,929	792,414	61.29
	CONTRACT	12,969	934,292	72.04
	FIXED TRANSPORTATION/ADJUSTMENTS		694,257	
	TOTAL	25,898	2,420,963	93.48
ROXBORO	SPOT	25,684	1,746,247	67.99
	CONTRACT	50,547	3,462,512	68.50
	FIXED TRANSPORTATION/ADJUSTMENTS	-	2,616,235	-
	TOTAL	76,231	7,824,994	102.65
ALL PLANTS	SPOT	38,613	2,538,661	65.75
	CONTRACT	63,516	4,396,804	69.22
	FIXED TRANSPORTATION/ADJUSTMENTS		3,310,492	
	TOTAL	102,129	\$ 10,245,957	\$ 100.32

Note: Asheville Steam was retired effective January 29, 2020.

Schedule 8

DUKE ENERGY PROGRESS ANALYSIS OF COAL QUALITY RECEIVED MARCH 2020

STATION	PERCENT MOISTURE	PERCENT ASH	HEAT VALUE	PERCENT SULFUR
MAYO	7.68	12.59	11,916	0.72
ROXBORO	7.13	10.10	12,368	1.51

Schedule 9

DUKE ENERGY PROGRESS ANALYSIS OF OIL PURCHASED MARCH 2020

	Н	HARRIS		MAYO		ROXBORO	
VENDOR	Hightower	Hightowers Petroleum Co.		ooro Tank Farm	Greensboro Tank Farm		
SPOT/CONTRACT	C	Contract	Contract		Contract		
SULFUR CONTENT %		0	0		0		
GALLONS RECEIVED		7,499		112,649		7,516	
TOTAL DELIVERED COST	\$	12,658	\$	204,995	\$	14,078	
DELIVERED COST/GALLON	\$	1.69	\$	1.82	\$	1.87	
BTU/GALLON		138,000		138,000		138,000	

Notes: Sampling charges of \$3,465 for the Asheville station as well as a price adjustment of \$42 at the Brunswick station are excluded.

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Schedule 10

Duke Energy Progress Power Plant Performance Data Twelve Month Summary

April, 2019 - March, 2020 Nuclear Units

Unit Name	Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Brunswick 1	7,128,000	938	86.51	86.63
Brunswick 2	7,769,042	932	94.90	95.08
Harris 1	7,573,813	964	89.44	88.78
Robinson 2	6,390,477	746	97.59	93.36

Twelve Month Summary April, 2019 through March, 2020 Combined Cycle Units

Unit Name		Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Lee Energy Complex	1A	1,335,397	225	67.57	79.83
Lee Energy Complex	1B	1,324,225	227	66.41	79.42
Lee Energy Complex	1C	1,327,528	228	66.29	78.35
Lee Energy Complex	ST1	2,583,040	379	77.59	85.96
Lee Energy Complex	Block Total	6,570,190	1,059	70.63	81.62
Richmond County CC	7	1,238,043	194	72.65	84.85
Richmond County CC	8	1,207,755	194	70.87	83.83
Richmond County CC	ST4	1,402,448	182	87.72	92.23
Richmond County CC	9	1,111,924	216	58.60	67.03
Richmond County CC	10	1,126,860	216	59.39	67.38
Richmond County CC	ST5	1,517,693	248	69.67	72.67
Richmond County CC	Block Total	7,604,723	1,250	69.26	77.25
Sutton Energy Complex	1A	1,369,913	224	69.62	81.09
Sutton Energy Complex	1B	1,363,885	224	69.32	78.83
Sutton Energy Complex	ST1	1,669,503	271	70.13	86.87
Sutton Energy Complex	Block Total	4,403,301	719	69.72	82.57
Asheville CC	ACC CT5	442,184	122	41.29	95.33
Asheville CC	ACC CT7	212,473	109	22.35	97.81
Asheville CC	ACC ST6	188,230	47	45.83	91.08
Asheville CC	Block Total	842,887	278	34.65	95.54

Notes:

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 April, 2019 through March, 2020

Intermediate Steam Units

Unit Name	Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Mayo 1	1,309,878	746	19.99	78.39
Roxboro 2	1,338,613	673	22.64	72.78
Roxboro 3	2,360,440	698	38.50	78.81
Roxboro 4	2,074,949	711	33.22	75.61

Notes:

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

Twelve Month Summary April, 2019 through March, 2020 Other Cycling Steam Units

Unit Name		Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Operating Availability (%)
Asheville	1	521,985	192	37.30	95.85
Asheville	2	252,671	192	18.05	93.30
Roxboro	1	555,880	380	16.65	64.18

Notes:

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

Twelve Month Summary April, 2019 through March, 2020 Combustion Turbine Stations

Station Name	Net Generation (mWh)	Capacity Rating (mW)	Operating Availability (%)
Asheville CT	382,417	364	91.89
Blewett CT	-689	68	96.98
Darlington CT	20,462	767	91.00
Richmond County CT	1,620,095	934	88.42
Sutton Fast Start CT	211,140	98	90.80
Wayne County CT	130,617	963	94.81
Weatherspoon CT	-196	164	80.15

Notes:

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

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Twelve Month Summary April, 2019 through March, 2020 Hydroelectric Stations

Station Name	Net Generation (mWh)	Capacity Rating (mW)	Operating Availability (%)
Blewett	-421	27.0	0.00
Marshall	-271	4.0	5.26
Tillery	214,200	84.0	84.85
Walters	448,699	113.0	68.08

Notes:

 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 April, 2019 through March, 2020 Pre-commercial Combined Cycle Units

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

Production Month	Unit Name		Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
November 2019	Asheville	ST8	97	n/a	n/a	n/a
December 2019	Asheville	ST8	-	n/a	n/a	n/a
January 2020	Asheville	ST8	-	n/a	n/a	n/a
February 2020	Asheville	ST8	-	n/a	n/a	n/a
March 2020	Asheville	ST8	(487)	n/a	n/a	n/a

Notes:

Asheville CT5 and ST6 were placed in service during December 2019, and Asheville CT7 was placed in service during January 2020; pre-commercial generation for those units is presented on the Twelve Month Summary for Combined Cycle Units.

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Duke Energy Progress Base Load Power Plant Performance Review Plan

Period:	March.	2020
I CIIUU.	IVIAI CII,	2020

Station	Unit	Date of Outage	Duration of Outage	Scheduled / Unscheduled		Reason Outage Occurred	Remedial Action Taken
Brunswick	1	02/29/2020 - 03/25/2020	575.75	Scheduled	B1R23 refueling outage	Refueling outage.	None
	1	03/25/2020 - 03/28/2020	72.02	Unscheduled	B1R23 refueling outage - outage extension due to safety relief valve leak	Safety relief valve leak.	The valve leak was repaired.
	2	None					
Harris	1	03/23/2020 - 03/25/2020	51.52	Unscheduled	Unit trip from full power on hydraulic control header pressure loss	Solenoid valve was opened causing a pressure transient that caused a pressure setpoint to be reached, which initiated an automatic reactor trip through the reactor protection system.	Site taking action to review valve online maintenance/replacement procedures to ensure similar situations are executed in a manner that avoids an automatic reactor trip in the future.
Robinson	2	None					

DEP Asheville CC

Unit	Duration of Outage	Type of Outage	Cause	of Outage	Reason Outage Occurred	Remedial Action Taken
ACC CT5	3/23/2020 1:36:00 AM To 4/1/2020 12:00:00 AM	Sch	9300	Transmission System Problems Other Than Catastroph	Transmission GMS outage	
ACC ST6	3/23/2020 1:30:00 AM To 4/1/2020 12:00:00 AM	Sch	9300	Transmission System Problems Other Than Catastroph	Planned Transmission GMS Outage	
ACC CT7	3/2/2020 5:33:00 PM To 3/2/2020 7:32:00 PM	Unsch	5190	Other Gas Turbine Auxiliary System Problems	All air compressors tripped by vendor	

Lee Energy Complex

No Outages at Baseload Units During the Month.

Mayo Station

No Outages at Baseload Units During the Month.

Richmond County Station

Unit	Duration of Outage	Type of Outage	Cause	of Outage	Reason Outage Occurred	Remedial Action Taken
7	3/5/2020 9:34:00 PM To 3/5/2020 11:08:00 PM	Unsch	3619	Other Switchyard Equipment	Fire in switchyard reactor bank.	
8	3/5/2020 9:34:00 PM To 3/5/2020 11:31:00 PM	Unsch	3619	Other Switchyard Equipment	Fire in switchyard reactor bank.	
ST4	3/5/2020 9:34:00 PM To 3/6/2020 12:39:00 AM	Unsch	3619	Other Switchyard Equipment	Fire in switchyard reactor bank.	
9	2/28/2020 12:04:00 PM To 3/30/2020 8:00:00 PM	Sch	4840	Generator Inspection	Perform robotic inspection, Gen Med.	
10	2/28/2020 10:42:00 AM To 4/5/2020 10:14:00 AM	Sch	4899	Other Miscellaneous Generator Problems	Replace cracked support fixator. Perform Gen Med.	
ST5	2/28/2020 11:20:00 AM To 3/30/2020 8:00:00 PM	Sch	4640	Generator Seal Oil System And Seals	Replace seal oil regulator.	

Notes:

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

Roxboro Station

Unit	Duration of Outage	Type of Outage	Cause	of Outage	Reason Outage Occurred	Remedial Action Taken
2	2/29/2020 12:00:00 AM To 4/1/2020 12:00:00 AM	Sch	1800	Major Boiler Overhaul (720 Hours or Longer)	Planned Outage	
3	3/31/2020 7:00:00 AM To 4/7/2020 4:30:00 PM	Sch	4260	Turbine Main Stop Valves	Turbine Stop Valve Inspection	
4	3/7/2020 12:00:00 AM To 4/1/2020 12:00:00 AM	Sch	1800	Major Boiler Overhaul (720 Hours or Longer)	Planned Outage	

Sutton Energy Complex

No Outages at Baseload Units During the Month.

Notes:

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

March 2020 **Brunswick Nuclear Station**

	Unit	<u>1</u>	Unit	2
(A) MDC (mW)	938		932	
(B) Period Hours	743		743	
(C) Net Gen (mWh) and Capacity Factor (%)	45,281	6.50	699,035	100.95
(D) Net mWh Not Gen due to Full Schedule Outages	540,054	77.49	0	0.00
* (E) Net mWh Not Gen due to Partial Scheduled Outages	17,651	2.53	0	0.00
(F) Net mWh Not Gen due to Full Forced Outages	67,552	9.69	0	0.00
* (G) Net mWh Not Gen due to Partial Forced Outages	26,396	3.79	-6,559	-0.95
* (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	696,934	100.00%	692,476	100.00%
(K) Equivalent Availability (%)		7.05		99.69
(L) Output Factor (%)		50.69		100.95
(M) Heat Rate (BTU/NkWh)		12,888		10,559

March 2020 **Harris Nuclear Station**

	Unit 1	
(A) MDC (mW)	964	
(B) Period Hours	743	
(C) Net Gen (mWh) and Capacity Factor (%)	677,007	94.52
(D) Net mWh Not Gen due to Full Schedule Outages	0	0.00
* (E) Net mWh Not Gen due to Partial Scheduled Outages	0	0.00
(F) Net mWh Not Gen due to Full Forced Outages	49,662	6.93
* (G) Net mWh Not Gen due to Partial Forced Outages	-10,417	-1.45
* (H) Net mWh Not Gen due to Economic Dispatch	0	0.00
* (I) Core Conservation	0	0.00
(J) Net mWh Possible in Period	716,252	100.00%
(K) Equivalent Availability (%)		91.95
(L) Output Factor (%)		101.56
(M) Heat Rate (BTU/NkWh)		10,184

March 2020 **Robinson Nuclear Station**

Unit 2

(A) MDC (mW)	759	
(B) Period Hours	743	
(C) Net Gen (mWh) and Capacity Factor (%)	585,375	103.80
(D) Net mWh Not Gen due to Full Schedule Outages	0	0.00
* (E) Net mWh Not Gen due to Partial Scheduled Outages	0	0.00
(F) Net mWh Not Gen due to Full Forced Outages	0	0.00
* (G) Net mWh Not Gen due to Partial Forced Outages	-21,438	-3.80
* (H) Net mWh Not Gen due to Economic Dispatch	0	0.00
* (I) Core Conservation	0	0.00
(J) Net mWh Possible in Period	563,937	100.00%
(K) Equivalent Availability (%)		100.00
(L) Output Factor (%)		103.80

10,136

(M) Heat Rate (BTU/NkWh)

DEP Asheville CC

	ACC CT5	ACC ST6	Block Total
(A) MDC (mW)	190	90	280
(B) Period Hrs	743	743	743
(C) Net Generation (mWh)	89,323	46,132	135,455
(D) Capacity Factor (%)	63.27	68.99	65.11
(E) Net mWh Not Generated due to	40.726	10.205	60.041
Full Scheduled Outages	40,736	19,305	60,041
(F) Scheduled Outages: percent of	28.86	28.87	28.86
Period Hrs	20.00	20.07	20.00
(G) Net mWh Not Generated due to	9,779	1,585	11,365
Partial Scheduled Outages	3,773	1,505	11,505
(H) Scheduled Derates: percent of	6.93	2.37	5.46
Period Hrs			
(I) Net mWh Not Generated due to	0	0	0
Full Forced Outages			
(J) Forced Outages: percent	0.00	0.00	0.00
of Period Hrs			
(K) Net mWh Not Generated due to	0	0	0
Partial Forced Outages			
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.00
(M) Net mWh Not Generated due			
to Economic Dispatch	1,332	0	1,332
(N) Economic Dispatch: percent			
of Period Hrs	0.94	0.00	0.64
(O) Net mWh Possible in Period	141,170	66,870	208,040
(P) Equivalent Availability (%)	64.22	68.76	65.68
(Q) Output Factor (%)	88.94	96.99	91.52
(R) Heat Rate (BTU/NkWh)	8,372	0	5,521
(1) 11000 Hute (DI C/IIII III)	0,372	U	3,321

- 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

DEP Asheville CC

	ACC CT7	Block Total
(A) MDC (mW)	190	190
(B) Period Hrs	743	743
(C) Net Generation (mWh)	26,929	26,929
(D) Capacity Factor (%)	19.08	19.08
(E) Net mWh Not Generated due to	0	0
Full Scheduled Outages	U	O
(F) Scheduled Outages: percent of	0.00	0.00
Period Hrs	0.00	0.00
(G) Net mWh Not Generated due to	13,709	13,709
Partial Scheduled Outages	13,705	13,709
(H) Scheduled Derates: percent of	9.71	9.71
Period Hrs	,,,, ₁	21,2
(I) Net mWh Not Generated due to	377	377
Full Forced Outages		
(J) Forced Outages: percent	0.27	0.27
of Period Hrs		
(K) Net mWh Not Generated due to	0	0
Partial Forced Outages		
(L) Forced Derates: percent of	0.00	0.00
Period Hrs		
(M) Net mWh Not Generated due to Economic Dispatch	100,155	100,155
(N) Economic Dispatch: percent		
of Period Hrs	70.95	70.95
(O) Net mWh Possible in Period	141,170	141,170
(P) Equivalent Availability (%)	90.02	90.02
(Q) Output Factor (%)	72.79	72.79
(R) Heat Rate (BTU/NkWh)	13,678	13,678

- 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

Lee Energy Complex

	Unit 1A	Unit 1B	Unit 1C	Unit ST1	Block Total
(A) MDC (mW)	225	227	228	379	1,059
(B) Period Hrs	743	743	743	743	743
(C) Net Generation (mWh)	119,013	117,351	120,225	243,384	599,973
(D) Capacity Factor (%)	71.19	69.58	70.97	86.43	76.25
(E) Net mWh Not Generated due to Full Scheduled Outages	0	0	0	0	0
(F) Scheduled Outages: percent of Period Hrs	0.00	0.00	0.00	0.00	0.00
(G) Net mWh Not Generated due to Partial Scheduled Outages	20,433	21,175	21,547	371	63,526
(H) Scheduled Derates: percent of Period Hrs	12.22	12.56	12.72	0.13	8.07
(I) Net mWh Not Generated due to Full Forced Outages	0	0	0	0	0
(J) Forced Outages: percent of Period Hrs	0.00	0.00	0.00	0.00	0.00
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	0	0	0
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.00	0.00	0.00
(M) Net mWh Not Generated due to Economic Dispatch	27,730	30,135	27,632	37,842	123,338
(N) Economic Dispatch: percent of Period Hrs	16.59	17.87	16.31	13.44	15.68
(O) Net mWh Possible in Period	167,175	168,661	169,404	281,597	786,837
(P) Equivalent Availability (%)	87.78	87.44	87.28	99.87	91.93
(Q) Output Factor (%)	71.19	69.58	70.97	86.43	76.25
(R) Heat Rate (BTU/NkWh)	9,405	9,688	9,529	4,014	7,298

- 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

Richmond County Station

(A) MDC (mW) 194 194 182 570 (B) Period Hrs 743		Unit 7	Unit 8	Unit ST4	Block Total
(C) Net Generation (mWh) 105,582 101,705 122,737 330,024 (D) Capacity Factor (%) 73.25 70.56 90.76 77.93 (E) Net mWh Not Generated due to Full Scheduled Outages 0 0 0 0 0 (F) Scheduled Outages 0.00 0.00 0.00 0.00 0.00 0.00 Period Hrs 14,829 14,821 4,809 34,459 (H) Scheduled Derates: percent of Period Hrs 10.29 10.28 3.56 8.14 (I) Net mWh Not Generated due to Feriod Hrs 304 378 561 1,243 (J) Forced Outages: percent of Period Hrs 0.21 0.26 0.41 0.29 (K) Net mWh Not Generated due to Partial Forced Outages 0 0 0 0 0 (L) Forced Derates: percent of Period Hrs 0.00 0.00 0.00 0.00 0.00 (M) Net mWh Not Generated due to Economic Dispatch 23,427 27,238 7,118 57,783 (N) Economic Dispatch: percent of Period Hrs 16.25 18.90 5.26 1	(A) MDC (mW)	194	194	182	570
(D) Capacity Factor (%) 73.25 70.56 90.76 77.93 (E) Net mWh Not Generated due to Full Scheduled Outages 0 0 0 0 0 (F) Scheduled Outages: percent of Period Hrs 0.00 0.00 0.00 0.00 0.00 (G) Net mWh Not Generated due to Partial Scheduled Outages 14,829 14,821 4,809 34,459 (H) Scheduled Derates: percent of Period Hrs 10.29 10.28 3.56 8.14 (I) Net mWh Not Generated due to Full Forced Outages 304 378 561 1,243 (J) Forced Outages: percent of Period Hrs 0.21 0.26 0.41 0.29 (K) Net mWh Not Generated due to Partial Forced Outages 0.00 0.00 0.00 0.00 0.00 (L) Forced Derates: percent of Period Hrs 0.00 0.00 0.00 0.00 0.00 (M) Net mWh Not Generated due to Economic Dispatch 23,427 27,238 7,118 57,783 (N) Economic Dispatch: percent of Period Hrs 16.25 18.90 5.26 13.64 (N) Economic Dispatch: percent of Period Hrs <th>(B) Period Hrs</th> <th>743</th> <th>743</th> <th>743</th> <th>743</th>	(B) Period Hrs	743	743	743	743
(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 14,829 14,821 4,809 34,459 (H) Scheduled Derates: percent of Period Hrs 10.29 10.28 3.56 8.14 (I) Net mWh Not Generated due to Full Forced Outages 304 378 561 1,243 (J) Forced Outages: percent of Period Hrs 0.21 0.26 0.41 0.29 (K) Net mWh Not Generated due to Partial Forced Outages 0 0 0 0 0 (L) Forced Derates: percent of Period Hrs 0.00 0.00 0.00 0.00 0.00 (M) Net mWh Not Generated due to Economic Dispatch 23,427 27,238 7,118 57,783 (N) Economic Dispatch: percent of Period Hrs 16.25 18,90 5.26 13.64 (N) Economic Dispatch: percent of Period Hrs 144,142 144,142 135,226 423,510 (P) Equivalent Availability (%) 89.50 89	(C) Net Generation (mWh)	105,582	101,705	122,737	330,024
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 14,829 14,821 4,809 34,459 (H) Scheduled Derates: percent of Period Hrs 10.29 10.28 3.56 8.14 (I) Net mWh Not Generated due to Full Forced Outages 304 378 561 1,243 (J) Forced Outages: percent of Period Hrs 0.21 0.26 0.41 0.29 (K) Net mWh Not Generated due to Partial Forced Outages 0 0 0 0 0 (L) Forced Derates: percent of Period Hrs 0.00 0.00 0.00 0.00 0.00 0.00 Period Hrs 23,427 27,238 7,118 57,783 (M) Net mWh Not Generated due to Economic Dispatch 23,427 27,238 7,118 57,783 (N) Economic Dispatch: percent of Period Hrs 16,25 18,90 5,26 13,64 (N) Economic Dispatch: percent of Period Hrs 44,142 144,142 135,226	(D) Capacity Factor (%)	73.25	70.56	90.76	77.93
(F) Scheduled Outages: percent of Period Hrs 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 34,459 34,650 36,14 36,60 36,01 36,02 36,02 36,02 36,02 36,02 36,02 36,02 36,02 36,02 36,02 36,02 36,02 36,02 36,02 36,02 36,02 36,02 <th< th=""><th></th><th>0</th><th>0</th><th>0</th><th>0</th></th<>		0	0	0	0
(G) Net mWh Not Generated due to Partial Scheduled Outages 14,829 14,821 4,809 34,459 (H) Scheduled Derates: percent of Period Hrs 10.29 10.28 3.56 8.14 (I) Net mWh Not Generated due to Full Forced Outages 304 378 561 1,243 (J) Forced Outages: percent of Period Hrs 0.21 0.26 0.41 0.29 (K) Net mWh Not Generated due to Partial Forced Outages 0 0 0 0 0 (L) Forced Derates: percent of Period Hrs 0.00 0.00 0.00 0.00 0.00 (M) Net mWh Not Generated due to Economic Dispatch 23,427 27,238 7,118 57,783 (N) Economic Dispatch 16.25 18.90 5.26 13.64 OPeriod Hrs 16.25 18.90 5.26 423,510 (O) Net mWh Possible in Period 144,142 144,142 135,226 423,510 (P) Equivalent Availability (%) 89.50 89.46 96.03 91.57 (Q) Output Factor (%) 73.48 72.68 91.31 78.94	(F) Scheduled Outages: percent of	0.00	0.00	0.00	0.00
(H) Scheduled Derates: percent of Period Hrs 10.29 10.28 3.56 8.14 (I) Net mWh Not Generated due to Full Forced Outages 304 378 561 1,243 (J) Forced Outages: percent of Period Hrs 0.21 0.26 0.41 0.29 (K) Net mWh Not Generated due to Partial Forced Outages 0 0 0 0 0 (L) Forced Derates: percent of Period Hrs 0.00 0.00 0.00 0.00 0.00 (M) Net mWh Not Generated due to Economic Dispatch 23,427 27,238 7,118 57,783 (N) Economic Dispatch: percent of Period Hrs 16.25 18.90 5.26 13.64 (O) Net mWh Possible in Period 144,142 144,142 135,226 423,510 (P) Equivalent Availability (%) 89.50 89.46 96.03 91.57 (Q) Output Factor (%) 73.48 72.68 91.31 78.94	(G) Net mWh Not Generated due to	14,829	14,821	4,809	34,459
Tull Forced Outages 304 378 561 1,243	(H) Scheduled Derates: percent of	10.29	10.28	3.56	8.14
of Period Hrs 0.21 0.26 0.41 0.29 (K) Net mWh Not Generated due to Partial Forced Outages 0 0 0 0 0 (L) Forced Derates: percent of Period Hrs 0.00 0.00 0.00 0.00 0.00 0.00 (M) Net mWh Not Generated due to Economic Dispatch 23,427 27,238 7,118 57,783 (N) Economic Dispatch 16.25 18.90 5.26 13.64 of Period Hrs 16.25 18.90 5.26 13.64 (O) Net mWh Possible in Period 144,142 144,142 135,226 423,510 (P) Equivalent Availability (%) 89.50 89.46 96.03 91.57 (Q) Output Factor (%) 73.48 72.68 91.31 78.94		304	378	561	1,243
Partial Forced Outages 0 1		0.21	0.26	0.41	0.29
Period Hrs 0.00 0.00 0.00 0.00 (M) Net mWh Not Generated due to Economic Dispatch 23,427 27,238 7,118 57,783 (N) Economic Dispatch: percent of Period Hrs 16.25 18.90 5.26 13.64 (O) Net mWh Possible in Period 144,142 144,142 135,226 423,510 (P) Equivalent Availability (%) 89.50 89.46 96.03 91.57 (Q) Output Factor (%) 73.48 72.68 91.31 78.94	• •	0	0	0	0
to Economic Dispatch (N) Economic Dispatch: percent of Period Hrs (O) Net mWh Possible in Period (P) Equivalent Availability (%) (Q) Output Factor (%) 10.25 18.90 13.64 144,142 144,142 135,226 423,510 18.90 191.57	•	0.00	0.00	0.00	0.00
of Period Hrs 16.25 18.90 5.26 13.64 (O) Net mWh Possible in Period 144,142 144,142 135,226 423,510 (P) Equivalent Availability (%) 89.50 89.46 96.03 91.57 (Q) Output Factor (%) 73.48 72.68 91.31 78.94	• •	23,427	27,238	7,118	57,783
(P) Equivalent Availability (%) 89.50 89.46 96.03 91.57 (Q) Output Factor (%) 73.48 72.68 91.31 78.94		16.25	18.90	5.26	13.64
(Q) Output Factor (%) 73.48 72.68 91.31 78.94	(O) Net mWh Possible in Period	144,142	144,142	135,226	423,510
	(P) Equivalent Availability (%)	89.50	89.46	96.03	91.57
(R) Heat Rate (BTU/NkWh) 11,139 11,078 0 6,977	(Q) Output Factor (%)	73.48	72.68	91.31	78.94
	(R) Heat Rate (BTU/NkWh)	11,139	11,078	0	6,977

- 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

Richmond County Station

	Unit 9	Unit 10	Unit ST5	Block Total
(A) MDC (mW)	216	216	248	680
(B) Period Hrs	743	743	743	743
(C) Net Generation (mWh)	-225	-225	0	-450
(D) Capacity Factor (%)	0.00	0.00	0.00	0.00
(E) Net mWh Not Generated due to	154,440	160,488	177,320	402 248
Full Scheduled Outages	134,440	100,466	177,320	492,248
(F) Scheduled Outages: percent of	96.23	100.00	96.23	97.43
Period Hrs	70.23	100.00	70.23	77.13
(G) Net mWh Not Generated due to	504	0	0	504
Partial Scheduled Outages				
(H) Scheduled Derates: percent of	0.31	0.00	0.00	0.10
Period Hrs (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	0.00	0.00	0.00	0.00
Period Hrs	0.00	0.00	0.00	0.00
(M) Net mWh Not Generated due	5,544	0	6,944	12,488
to Economic Dispatch	3,311	Ŭ	0,511	12,100
(N) Economic Dispatch: percent	3.45	0.00	3.77	2.47
of Period Hrs				
(O) Net mWh Possible in Period	160,488	160,488	184,264	505,240
(P) Equivalent Availability (%)	3.45	0.00	3.77	2.47
(Q) Output Factor (%)	0.00	0.00	0.00	0.00
(R) Heat Rate (BTU/NkWh)	0	0	0	0

- 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

Sutton Energy Complex

	Unit 1A	Unit 1B	Unit ST1	Block Total
(A) MDC (mW)	224	224	271	719
(B) Period Hrs	743	743	743	743
(C) Net Generation (mWh)	121,465	122,337	152,668	396,470
(D) Capacity Factor (%)	72.98	73.51	75.82	74.22
(E) Net mWh Not Generated due to	0	0	0	0
Full Scheduled Outages	U	U	U	U
(F) Scheduled Outages: percent of	0.00	0.00	0.00	0.00
Period Hrs	0.00	0.00	0.00	0.00
(G) Net mWh Not Generated due to	20,061	19,689	1,857	41,608
Partial Scheduled Outages	,,,,	-,,,,,,,,	-,	,
(H) Scheduled Derates: percent of	12.05	11.83	0.92	7.79
Period Hrs				
(I) Net mWh Not Generated due to	0	0	0	0
Full Forced Outages				
(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	24,906	24,406	46,828	96,139
(N) Economic Dispatch: percent	14.06	14.66	22.26	10.00
of Period Hrs	14.96	14.66	23.26	18.00
(O) Net mWh Possible in Period	166,432	166,432	201,353	534,217
(P) Equivalent Availability (%)	87.95	88.17	99.08	92.21
(Q) Output Factor (%)	72.98	73.51	75.82	74.22
(R) Heat Rate (BTU/NkWh)	11,615	11,615	0	7,143

- 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

Pre-commercial Generation Asheville Combined Cycle

		Unit ST8	Block Total
(A)	MDC (mW)		
(B)	Period Hrs		
(C)	Net Generation (mWh)	(487)	(487)
(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		
(\mathbf{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 (%)		

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

(Q) Output Factor (%)

(R) Heat Rate (BTU/NkWh)

Duke Energy Progress Intermediate Power Plant Performance Review Plan March 2020

Mayo Station

		Unit 1
(A)	MDC (mW)	746
(B)	Period Hrs	743
(C)	Net Generation (mWh)	57,394
(D)	Net mWh Possible in Period	554,278
(E)	Equivalent Availability (%)	80.44
(F)	Output Factor (%)	37.21
(G)	Capacity Factor (%)	10.35

Notes:

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

Duke Energy Progress Intermediate Power Plant Performance Review Plan March 2020

Roxboro Station

		Unit 2	Unit 3	Unit 4
(A)	MDC (mW)	673	698	711
(B)	Period Hrs	743	743	743
(C)	Net Generation (mWh)	-941	180,495	-2,238
(D)	Net mWh Possible in Period	500,039	518,614	528,273
(E)	Equivalent Availability (%)	0.00	90.89	19.38
(F)	Output Factor (%)	0.00	37.27	0.00
(G)	Capacity Factor (%)	0.00	34.80	0.00

Notes:

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

April 2019 - March 2020 **Brunswick Nuclear Station**

	Unit	1_	Unit	2	
(A) MDC (mW)	938		932		
(B) Period Hours	8784		8784		
(C) Net Gen (mWh) and Capacity Factor (%)	7,128,000	86.51	7,769,042	94.90	
(D) Net mWh Not Gen due to Full Schedule Outages	561,863	6.82	45,948	0.56	
* (E) Net mWh Not Gen due to Partial Scheduled Outages	34,020	0.41	47,691	0.58	
(F) Net mWh Not Gen due to Full Forced Outages	505,879	6.14	276,773	3.38	
* (G) Net mWh Not Gen due to Partial Forced Outages	9,630	0.12	47,234	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	8,239,392	100.00%	8,186,688	100.00%	
(K) Equivalent Availability (%)		86.63		95.08	
(L) Output Factor (%)		99.39		98.79	
(M) Heat Rate (BTU/NkWh)		10,499		10,629	

April 2019 - March 2020 **Harris Nuclear Station**

	Unit	1
(A) MDC (mW)	964	
(B) Period Hours	8784	
(C) Net Gen (mWh) and Capacity Factor (%)	7,573,813	89.44
(D) Net mWh Not Gen due to Full Schedule Outages	869,962	10.27
* (E) Net mWh Not Gen due to Partial Scheduled Outages	61,610	0.73
(F) Net mWh Not Gen due to Full Forced Outages	49,662	0.59
* (G) Net mWh Not Gen due to Partial Forced Outages	-87,271	-1.03
* (H) Net mWh Not Gen due to Economic Dispatch	0	0.00
* (I) Core Conservation	0	0.00
(J) Net mWh Possible in Period	8,467,776	100.00%
(K) Equivalent Availability (%)		88.78
(L) Output Factor (%)		100.34
(M) Heat Rate (BTU/NkWh)		10,305

April 2019 - March 2020 **Robinson Nuclear Station**

Unit 2

(A) MDC (mW)	759	
(B) Period Hours	8784	
(C) Net Gen (mWh) and Capacity Factor (%)	6,390,477	97.59
(D) Net mWh Not Gen due to Full Schedule Outages	0	0.00
* (E) Net mWh Not Gen due to Partial Scheduled Outages	7,076	0.11
(F) Net mWh Not Gen due to Full Forced Outages	408,699	6.24
* (G) Net mWh Not Gen due to Partial Forced Outages	-258,014	-3.94
* (H) Net mWh Not Gen due to Economic Dispatch	0	0.00
* (I) Core Conservation	0	0.00
(J) Net mWh Possible in Period	6,548,238	100.00%
(K) Equivalent Availability (%)		93.36
(L) Output Factor (%)		104.13
(M) Heat Rate (BTU/NkWh)		10,267

DEP Asheville CC

	ACC CT5	ACC ST6	Block Total
(A) MDC (mW)	183	94	276
(B) Period Hrs	5,856	4,392	4,392
(C) Net Generation (mWh)	442,184	188,230	630,414
(D) Capacity Factor (%)	41.29	45.83	42.55
(E) Net mWh Not Generated due to	41,296	19,305	60,601
Full Scheduled Outages	41,290	19,303	00,001
(F) Scheduled Outages: percent of	3.86	4.70	4.09
Period Hrs	5.00	4.70	4.07
(G) Net mWh Not Generated due to	9,779	1,585	11,365
Partial Scheduled Outages	2,772	1,505	11,505
(H) Scheduled Derates: percent of	0.91	0.39	0.77
Period Hrs			
(I) Net mWh Not Generated due to	842	14,365	15,208
Full Forced Outages			
(J) Forced Outages: percent	0.08	3.50	1.03
of Period Hrs			
(K) Net mWh Not Generated due to	0	0	0
Partial Forced Outages			
(L) Forced Derates: percent of	0.00	0.00	0.00
Period Hrs			
(M) Net mWh Not Generated due to Economic Dispatch	576,831	187,257	764,088
(N) Economic Dispatch: percent			
of Period Hrs	53.86	45.59	51.57
(O) Net mWh Possible in Period	1,070,933	410,743	1,481,676
	95.33	91.08	94.12
(P) Equivalent Availability (%)			
(Q) Output Factor (%)	78.79	96.71	83.40
(R) Heat Rate (BTU/NkWh)	10,009	0	7,021

- 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

DEP Asheville CC

	ACC CT7	Block Total
(A) MDC (mW)	186	186
(B) Period Hrs	5,112	5,112
(C) Net Generation (mWh)	212,473	212,473
(D) Capacity Factor (%)	22.35	22.35
(E) Net mWh Not Generated due to	4,342	4,342
Full Scheduled Outages	4,342	4,342
(F) Scheduled Outages: percent of	0.46	0.46
Period Hrs	0.40	0.40
(G) Net mWh Not Generated due to	13,709	13,709
Partial Scheduled Outages	13,705	15,765
(H) Scheduled Derates: percent of	1.44	1.44
Period Hrs		
(I) Net mWh Not Generated due to	3,173	3,173
Full Forced Outages		
(J) Forced Outages: percent	0.33	0.33
of Period Hrs		
(K) Net mWh Not Generated due to	0	0
Partial Forced Outages		
(L) Forced Derates: percent of Period Hrs	0.00	0.00
(M) Net mWh Not Generated due		
to Economic Dispatch	717,081	717,081
(N) Economic Dispatch: percent		
of Period Hrs	75.42	75.42
(O) Net mWh Possible in Period	950,777	950,777
(P) Equivalent Availability (%)	97.81	97.81
(Q) Output Factor (%)	62.14	62.14
(R) Heat Rate (BTU/NkWh)	10,213	10,213
(,)	10,213	10,213

- 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

Lee Energy Complex

	Unit 1A	Unit 1B	Unit 1C	Unit ST1	Block Total
(A) MDC (mW)	225	227	228	379	1,059
(B) Period Hrs	8,784	8,784	8,784	8,784	8,784
(C) Net Generation (mWh)	1,335,397	1,324,225	1,327,528	2,583,040	6,570,190
(D) Capacity Factor (%)	67.57	66.41	66.29	77.59	70.63
(E) Net mWh Not Generated due to	140,610	146,124	166,296	434,675	887,704
Full Scheduled Outages	140,010	140,124	100,290	434,073	007,704
(F) Scheduled Outages: percent of	7.11	7.33	8.30	13.06	9.54
Period Hrs	7.11	7.55	0.50	13.00	7.54
(G) Net mWh Not Generated due to	254,159	258,949	262,876	23,687	799,671
Partial Scheduled Outages	20 1,109	200,51.5	202,070	20,007	,,,,,,
(H) Scheduled Derates: percent of	12.86	12.99	13.13	0.71	8.60
Period Hrs					
(I) Net mWh Not Generated due to	3,791	5,195	4,340	8,471	21,796
Full Forced Outages (J) Forced Outages: percent					
of Period Hrs	0.19	0.26	0.22	0.25	0.23
(K) Net mWh Not Generated due to					
Partial Forced Outages	0	0	0	732	732
(L) Forced Derates: percent of					
Period Hrs	0.00	0.00	0.00	0.02	0.01
(M) Net mWh Not Generated due	242442	250 454	244.542	250 521	1 000 1 60
to Economic Dispatch	242,442	259,476	241,713	278,531	1,022,162
(N) Economic Dispatch: percent	12.27	13.01	12.07	9 27	10.00
of Period Hrs	12.27	13.01	12.07	8.37	10.99
(O) Net mWh Possible in Period	1,976,400	1,993,968	2,002,752	3,329,136	9,302,256
(P) Equivalent Availability (%)	79.83	79.42	78.35	85.96	81.62
(Q) Output Factor (%)	74.70	73.57	73.91	89.57	79.47
(R) Heat Rate (BTU/NkWh)	9,208	9,404	9,370	4,439	7,406

- 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

Richmond County Station

	Unit 7	Unit 8	Unit ST4	Block Total
(A) MDC (mW)	194	194	182	570
(B) Period Hrs	8,784	8,784	8,784	8,784
(C) Net Generation (mWh)	1,238,043	1,207,755	1,402,448	3,848,246
(D) Capacity Factor (%)	72.65	70.87	87.72	76.86
(E) Net mWh Not Generated due to	51,943	37,875	21,506	111,325
Full Scheduled Outages	31,743	37,873	21,300	111,323
(F) Scheduled Outages: percent of	3.05	2.22	1.35	2.22
Period Hrs	5.05	2.22	1.33	2.22
(G) Net mWh Not Generated due to	199,018	206,053	91,016	496,087
Partial Scheduled Outages	,		, -,	., .,
(H) Scheduled Derates: percent of	11.68	12.09	5.69	9.91
Period Hrs				
(I) Net mWh Not Generated due to	7,139	31,658	5,129	43,926
Full Forced Outages (J) Forced Outages: percent				
of Period Hrs	0.42	1.86	0.32	0.88
(K) Net mWh Not Generated due to				
Partial Forced Outages	0	0	6,515	6,515
(L) Forced Derates: percent of				
Period Hrs	0.00	0.00	0.41	0.13
(M) Net mWh Not Generated due				
to Economic Dispatch	207,953	220,755	72,073	500,781
(N) Economic Dispatch: percent	12.20	12.05	4.51	10.00
of Period Hrs	12.20	12.95	4.51	10.00
(O) Net mWh Possible in Period	1,704,096	1,704,096	1,598,688	5,006,880
(P) Equivalent Availability (%)	84.85	83.83	92.23	86.86
(Q) Output Factor (%)	77.22	77.14	91.55	81.87
(R) Heat Rate (BTU/NkWh)	11,610	11,292	0	7,279

- 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

Richmond County Station

	Unit 9	Unit 10	Unit ST5	Block Total
(A) MDC (mW)	216	216	248	680
(B) Period Hrs	8,784	8,784	8,784	8,784
(C) Net Generation (mWh)	1,111,924	1,126,860	1,517,693	3,756,477
(D) Capacity Factor (%)	58.60	59.39	69.67	62.89
(E) Net mWh Not Generated due to Full Scheduled Outages	462,503	460,206	556,247	1,478,956
(F) Scheduled Outages: percent of	24.29	24.26	25.52	24.76
Period Hrs	24.38	24.26	25.53	24.76
(G) Net mWh Not Generated due to Partial Scheduled Outages	162,892	157,746	13,060	333,699
(H) Scheduled Derates: percent of Period Hrs	8.59	8.31	0.60	5.59
(I) Net mWh Not Generated due to Full Forced Outages	112	1,001	26,135	27,247
(J) Forced Outages: percent of Period Hrs	0.01	0.05	1.20	0.46
(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	159,669	151,287	65,296	376,253
(N) Economic Dispatch: percent of Period Hrs	8.42	7.97	3.00	6.30
(O) Net mWh Possible in Period	1,897,344	1,897,344	2,178,432	5,973,120
(P) Equivalent Availability (%)	67.03	67.38	72.67	69.20
(Q) Output Factor (%)	82.05	81.70	96.75	87.30
(R) Heat Rate (BTU/NkWh)	11,470	11,463	0	6,834

- 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

Sutton Energy Complex

	Unit 1A	Unit 1B	Unit ST1	Block Total
(A) MDC (mW)	224	224	271	719
(B) Period Hrs	8,784	8,784	8,784	8,784
(C) Net Generation (mWh)	1,369,913	1,363,885	1,669,503	4,403,301
(D) Capacity Factor (%)	69.62	69.32	70.13	69.72
(E) Net mWh Not Generated due to	105,321	127,799	197,500	430,621
Full Scheduled Outages	105,521	127,799	197,300	430,021
(F) Scheduled Outages: percent of	5.35	6.50	8.30	6.82
Period Hrs	3.33	0.50	0.50	0.02
(G) Net mWh Not Generated due to	263,839	254,211	84,286	602,336
Partial Scheduled Outages	,	- ,	- ,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
(H) Scheduled Derates: percent of	13.41	12.92	3.54	9.54
Period Hrs				
(I) Net mWh Not Generated due to Full Forced Outages	2,923	34,474	0	37,397
(J) Forced Outages: percent				
of Period Hrs	0.15	1.75	0.00	0.59
(K) Net mWh Not Generated due to				
Partial Forced Outages	0	0	30,675	30,675
(L) Forced Derates: percent of	0.00	0.00	1.20	0.40
Period Hrs	0.00	0.00	1.29	0.49
(M) Net mWh Not Generated due	225,620	187,247	398,500	811,367
to Economic Dispatch	223,020	167,247	398,300	011,507
(N) Economic Dispatch: percent	11.47	9.52	16.74	12.85
of Period Hrs	11.17	7.32	10.71	12.03
(O) Net mWh Possible in Period	1,967,616	1,967,616	2,380,464	6,315,696
(P) Equivalent Availability (%)	81.09	78.83	86.87	82.57
(Q) Output Factor (%)	75.93	76.35	76.81	76.39
(R) Heat Rate (BTU/NkWh)	11,604	11,594	0	7,201

- 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

Pre-commercial Generation Asheville Combined Cycle

		Unit ST8	Block Total
(A)	MDC (mW)		
(B)	Period Hrs		
(C)	Net Generation (mWh)	(390)	(390)
(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		

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

(N) Economic Dispatch: percent

(O) Net mWh Possible in Period

(P) Equivalent Availability (%)

of Period Hrs

(Q) Output Factor (%)

(R) Heat Rate (BTU/NkWh)

Mayo Station

Units		Unit 1
(A)	MDC (mW)	746
(B)	Period Hrs	8,784
(C)	Net Generation (mWh)	1,309,878
(D)	Net mWh Possible in Period	6,552,864
(E)	Equivalent Availability (%)	78.39
(F)	Output Factor (%)	44.14
(G)	Capacity Factor (%)	19.99

Notes:

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

Duke Energy Progress Intermediate Power Plant Performance Review Plan April, 2019 through March, 2020

Roxboro Station

Units	Unit 2	Unit 3	Unit 4
(A) MDC (mW)	673	698	711
(B) Period Hrs	8,784	8,784	8,784
(C) Net Generation (mWh)	1,338,613	2,360,440	2,074,949
(D) Net mWh Possible in Period	5,911,632	6,131,232	6,245,424
(E) Equivalent Availability (%)	72.78	78.81	75.61
(F) Output Factor (%)	61.38	55.52	65.21
(G) Capacity Factor (%)	22.64	38.50	33.22

Notes:

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

Harrington Workpaper 1

DUKE ENERGY PROGRESS, LLC North Carolina Annual Fuel and Fuel Related Expense Proposed Nuclear Capacity Factor Billing Period December 1, 2020 - November 30, 2021 Docket No. E-2, Sub 1250

	B	runswick 1	Brunswick 2	Harris 1	Robinson 1	Total
MWhs		8,052,542	7,453,018	7,708,915	6,515,863	29,730,338
Hours in Year		8,760	8,160	8,160	8,760	8,760
MDC		938	932	964	759	3,593
Cost	\$	50,373,402	\$ 47,366,985	\$ 47,120,590	\$ 39,582,952	\$ 184,443,928
\$/MWhs	\$	6.26	\$ 6.36	\$ 6.11	\$ 6.07	
Avg. \$/MWhs Cents per kWh						\$ 6.2039 0.6204

	(Capacity Rating		Proposed Nuclear
	GWhs	MDC	Hours	Capacity Factor
Brunswick 1	8,053	938	8,760	98.00%
Brunswick 2	7,453	932	8,160	98.00%
Harris 1	7,709	964	8,160	98.00%
Robinson 1	6,516	759	8,760	98.00%
	29,730	3,593	8,760	94.46%

DUKE ENERGY PROGRESS, LLC North Carolina Annual Fuel and Fuel Related Expense NERC 5 Year Average Nuclear Capacity Factor Billing Period December 1, 2020 - November 30, 2021 Docket No. E-2, Sub 1250

	 Brunswick 1	Brunswick 2	Harris 1	Robinson 1	Total
MWhs with NERC applied	 7,759,200	7,181,515	7,244,807	5,938,079	28,123,601
Hours in Year	8,760	8,160	8,160	8,760	8,760
MDC	938	932	964	759	3,593
Capacity Factor-NERC 5yr Avg	0.9443	0.9443	0.9210	0.8931	
Cost (\$)	\$ 48,137,269	\$ 44,553,371	\$ 44,946,030	\$ 36,839,225	\$ 174,475,894
\$/MWhs	\$ 6.20	\$ 6.20	\$ 6.20	\$ 6.20	
Avg. \$/MWHs Cents per kWh					\$ 6.20 0.6204

	Capacity Rating		
	MDC	NCF Rating	Weighted Average
Brunswick 1	938	94.43%	24.65%
Brunswick 2	932	94.43%	24.49%
Harris 1	964	92.10%	24.71%
Robinson 1	759	89.31%	18.87%
	3,593	•	92.72%

DUKE ENERGY PROGRESS, LLC North Carolina Annual Fuel and Fuel Related Expense North Carolina Generation in MWhs Billing Period December 1, 2020 - November 30, 2021 Docket No. E-2, Sub 1250

Harrington Workpaper 3

Resource Type		MWh Dec'20-Nov'21
Nuclear		29,388,347
Adjust for Higher Nuclear Capacity Factor		341,992
Adjusted Nuclear Total		29,730,338
Coal		8,282,666
Adjust for Higher Nuclear Capacity Factor		(341,992)
Adjusted Coal Total		7,940,674
Gas CT and CC Total		18,943,545
Total Hydro		650,353
Utility Owned Solar Generation		256,176
Total Net Generation		57,521,087
Purchases for REPS Compliance	2,328,214	
Purchases from Qualifying Facilities	4,131,985	
Purchases from Dispatchable Units	1,668,028	
Emergency & DSM Purchases	23,807	
Allocated Economic Purchases	238,305	0.040.205
Joint Dispatch Fuel Transfer Purchases	1,527,867	9,918,206
Total Net Generation and Purchases		67,439,293
Sales Totals (intersystem sales)	(120,919)	
Fuel Transfer Sales (JDA & economic sales)	(3,927,743)	(4,048,662)
Line Losses and Company Use		(1,906,330)
Total NC System Sales		61,484,301

DUKE ENERGY PROGRESS, LLC North Carolina Annual Fuel and Fuel Related Expense Fuel Costs (\$) Billing Period December 1, 2020 - November 30, 2021 Docket No. E-2, Sub 1250

Harrington Workpaper 4

Nuclear \$ 182,308,964 Adjust for Higher Nuclear Capacity Factor 2,134,964 Adjusted Nuclear 184,443,928 Coal 253,383,902 Adjust for Higher Nuclear Capacity Factor (10,462,237) Adjusted Coal Total 242,921,665 Reagent and By-Product Costs 20,467,213 Gas CT and CC Total 490,311,290 Total Hydro - Utility Owned Solar Generation - Total Generation Costs 938,144,096 Purchases for REPS Compliance Energy \$ 131,543,318 Purchases for REPS Compliance Capacity 26,962,441 Purchases from Qualifying Facilities Energy 191,949,817 Purchases from Qualifying Facilities Capacity 39,344,300 Purchases from Dispatchable Units Energy 43,444,341 Emergency & DSM Purchases 1,321,830 Allocated Economic Purchases 6,460,492 Joint Dispatch Fuel Transfer Purchases 6,460,492 Joint Dispatch Savings (6,373,541) 458,166,122 Total Net Generation and Purchases 1,396,310,218 Sales Totals (intersystem sales)	DUCKET NO. 1-2, Sub 1230				Costs \$
Adjust for Higher Nuclear Capacity Factor 2,134,964 Adjusted Nuclear 184,443,928 Coal 253,383,902 Adjust for Higher Nuclear Capacity Factor (10,462,237) Adjusted Coal Total 242,921,665 Reagent and By-Product Costs 20,467,213 Gas CT and CC Total 490,311,290 Total Hydro - Utility Owned Solar Generation - Total Generation Costs 938,144,096 Purchases for REPS Compliance Energy \$ 131,543,318 Purchases for REPS Compliance Capacity 26,962,441 Purchases from Qualifying Facilities Energy 191,949,817 Purchases from Qualifying Facilities Energy 191,949,817 Purchases from Dispatchable Units Energy 43,444,341 Emergency & DSM Purchases 1,321,830 Allocated Economic Purchases 6,660,492 Joint Dispatch Fuel Transfer Purchases 23,513,124 Joint Dispatch Savings (6,373,541) \$ 458,166,122 Total Net Generation and Purchases 1,396,310,218 Sales Totals (intersystem sales) \$ (3,019,742) Fuel Transfer Sales	Resource Type				Dec'20-Nov'21
Adjust for Higher Nuclear Capacity Factor 2,134,964 Adjusted Nuclear 184,443,928 Coal 253,383,902 Adjust for Higher Nuclear Capacity Factor (10,462,237) Adjusted Coal Total 242,921,665 Reagent and By-Product Costs 20,467,213 Gas CT and CC Total 490,311,290 Total Hydro - Utility Owned Solar Generation - Total Generation Costs 938,144,096 Purchases for REPS Compliance Energy \$ 131,543,318 Purchases for REPS Compliance Capacity 26,962,441 Purchases from Qualifying Facilities Energy 191,949,817 Purchases from Qualifying Facilities Energy 191,949,817 Purchases from Dispatchable Units Energy 43,444,341 Emergency & DSM Purchases 1,321,830 Allocated Economic Purchases 6,660,492 Joint Dispatch Fuel Transfer Purchases 23,513,124 Joint Dispatch Savings (6,373,541) \$ 458,166,122 Total Net Generation and Purchases 1,396,310,218 Sales Totals (intersystem sales) \$ (3,019,742) Fuel Transfer Sales	Nuclear			Ś	182.308.964
Adjusted Nuclear 184,443,928 Coal 253,383,902 Adjust for Higher Nuclear Capacity Factor (10,462,237) Adjusted Coal Total 242,921,665 Reagent and By-Product Costs 20,467,213 Gas CT and CC Total 490,311,290 Total Hydro - Utility Owned Solar Generation - Total Generation Costs 938,144,096 Purchases for REPS Compliance Energy \$ 131,543,318 Purchases for REPS Compliance Capacity 26,962,441 Purchases from Qualifying Facilities Energy 191,949,817 Purchases from Qualifying Facilities Capacity 39,344,300 Purchases from Dispatchable Units Energy 43,444,341 Emergency & DSM Purchases 1,321,830 Allocated Economic Purchases 6,460,492 Joint Dispatch Fuel Transfer Purchases 23,513,124 Joint Dispatch Savings (6,373,541) \$ 458,166,122 Total Net Generation and Purchases 1,396,310,218 Sales Totals (intersystem sales) \$ (3,019,742) Fuel Transfer Sales (JDA & economic sales) (79,730,585) (82,750,327)				*	• •
Adjust for Higher Nuclear Capacity Factor (10,462,237) Adjusted Coal Total 242,921,665 Reagent and By-Product Costs 20,467,213 Gas CT and CC Total 490,311,290 Total Hydro - Utility Owned Solar Generation - Total Generation Costs 938,144,096 Purchases for REPS Compliance Energy \$ 131,543,318 Purchases for REPS Compliance Capacity 26,962,441 Purchases from Qualifying Facilities Energy 191,949,817 Purchases from Qualifying Facilities Capacity 39,344,300 Purchases from Dispatchable Units Energy 43,444,341 Emergency & DSM Purchases 1,321,830 Allocated Economic Purchases 6,460,492 Joint Dispatch Fuel Transfer Purchases 23,513,124 Joint Dispatch Savings (6,373,541) 458,166,122 Total Net Generation and Purchases 1,396,310,218 Sales Totals (intersystem sales) \$ (3,019,742) Fuel Transfer Sales (JDA & economic sales) (79,730,585) (82,750,327)					
Adjust for Higher Nuclear Capacity Factor (10,462,237) Adjusted Coal Total 242,921,665 Reagent and By-Product Costs 20,467,213 Gas CT and CC Total 490,311,290 Total Hydro - Utility Owned Solar Generation - Total Generation Costs 938,144,096 Purchases for REPS Compliance Energy \$ 131,543,318 Purchases for REPS Compliance Capacity 26,962,441 Purchases from Qualifying Facilities Energy 191,949,817 Purchases from Qualifying Facilities Capacity 39,344,300 Purchases from Dispatchable Units Energy 43,444,341 Emergency & DSM Purchases 1,321,830 Allocated Economic Purchases 6,460,492 Joint Dispatch Fuel Transfer Purchases 23,513,124 Joint Dispatch Savings (6,373,541) \$ 458,166,122 Total Net Generation and Purchases \$ (3,019,742) Fuel Transfer Sales (JDA & economic sales) \$ (79,730,585) (82,750,327)	Coal				253,383,902
Adjusted Coal Total Reagent and By-Product Costs 20,467,213 Gas CT and CC Total 490,311,290 Total Hydro - Utility Owned Solar Generation - Total Generation Costs 938,144,096 Purchases for REPS Compliance Energy Purchases for REPS Compliance Capacity Purchases for REPS Compliance Capacity Purchases from Qualifying Facilities Energy Purchases from Qualifying Facilities Energy Purchases from Qualifying Facilities Capacity Purchases from Dispatchable Units Energy Purchases From	Adjust for Higher Nuclear Capacity Factor				
Gas CT and CC Total 490,311,290 Total Hydro Utility Owned Solar Generation Total Generation Costs 938,144,096 Purchases for REPS Compliance Energy \$ 131,543,318 Purchases for REPS Compliance Capacity 26,962,441 Purchases from Qualifying Facilities Energy 191,949,817 Purchases from Qualifying Facilities Capacity 39,344,300 Purchases from Dispatchable Units Energy 43,444,341 Emergency & DSM Purchases 1,321,830 Allocated Economic Purchases 6,460,492 Joint Dispatch Fuel Transfer Purchases 23,513,124 Joint Dispatch Savings (6,373,541) \$ 458,166,122 Total Net Generation and Purchases 1,396,310,218 Sales Totals (intersystem sales) \$ (3,019,742) Fuel Transfer Sales (JDA & economic sales) (79,730,585) (82,750,327)					
Total Hydro - Utility Owned Solar Generation - Total Generation Costs 938,144,096 Purchases for REPS Compliance Energy \$ 131,543,318 Purchases for REPS Compliance Capacity 26,962,441 Purchases from Qualifying Facilities Energy 191,949,817 Purchases from Qualifying Facilities Capacity 39,344,300 Purchases from Dispatchable Units Energy 43,444,341 Emergency & DSM Purchases Allocated Economic Purchases 56,460,492 Joint Dispatch Fuel Transfer Purchases 23,513,124 Joint Dispatch Fuel Transfer Purchases (6,373,541) \$ 458,166,122 Total Net Generation and Purchases 1,396,310,218 Sales Totals (intersystem sales) \$ (3,019,742) Fuel Transfer Sales (JDA & economic sales) (79,730,585) (82,750,327)	Reagent and By-Product Costs				20,467,213
Utility Owned Solar Generation - Total Generation Costs 938,144,096 Purchases for REPS Compliance Energy \$ 131,543,318 Purchases for REPS Compliance Capacity 26,962,441 Purchases from Qualifying Facilities Energy 191,949,817 Purchases from Qualifying Facilities Capacity 39,344,300 Purchases from Dispatchable Units Energy 43,444,341 Emergency & DSM Purchases 1,321,830 Allocated Economic Purchases 6,460,492 Joint Dispatch Fuel Transfer Purchases 23,513,124 Joint Dispatch Savings (6,373,541) \$ 458,166,122 Total Net Generation and Purchases 1,396,310,218 Sales Totals (intersystem sales) \$ (3,019,742) Fuel Transfer Sales (JDA & economic sales) (79,730,585) (82,750,327)	Gas CT and CC Total				490,311,290
Total Generation Costs Purchases for REPS Compliance Energy Purchases for REPS Compliance Capacity Purchases from Qualifying Facilities Energy Purchases from Qualifying Facilities Energy Purchases from Qualifying Facilities Capacity Purchases from Dispatchable Units Energy Purchases Purchas	Total Hydro				-
Purchases for REPS Compliance Energy \$ 131,543,318 Purchases for REPS Compliance Capacity 26,962,441 Purchases from Qualifying Facilities Energy 191,949,817 Purchases from Qualifying Facilities Capacity 39,344,300 Purchases from Dispatchable Units Energy 43,444,341 Emergency & DSM Purchases 1,321,830 Allocated Economic Purchases 6,460,492 Joint Dispatch Fuel Transfer Purchases 23,513,124 Joint Dispatch Savings (6,373,541) \$ 458,166,122 Total Net Generation and Purchases 1,396,310,218 Sales Totals (intersystem sales) \$ (3,019,742) Fuel Transfer Sales (JDA & economic sales) (79,730,585) (82,750,327)	Utility Owned Solar Generation				-
Purchases for REPS Compliance Capacity Purchases from Qualifying Facilities Energy Purchases from Qualifying Facilities Capacity Purchases from Qualifying Facilities Capacity Purchases from Dispatchable Units Energy Purchases from Dispatchable Units Energy 43,444,341 Emergency & DSM Purchases 1,321,830 Allocated Economic Purchases 6,460,492 Joint Dispatch Fuel Transfer Purchases 23,513,124 Joint Dispatch Savings (6,373,541) \$ 458,166,122 Total Net Generation and Purchases Sales Totals (intersystem sales) \$ (3,019,742) Fuel Transfer Sales (JDA & economic sales) (79,730,585) (82,750,327)	Total Generation Costs				938,144,096
Purchases from Qualifying Facilities Energy Purchases from Qualifying Facilities Capacity Purchases from Qualifying Facilities Capacity Purchases from Dispatchable Units Energy 43,444,341 Emergency & DSM Purchases 1,321,830 Allocated Economic Purchases 6,460,492 Joint Dispatch Fuel Transfer Purchases 23,513,124 Joint Dispatch Savings (6,373,541) \$ 458,166,122 Total Net Generation and Purchases Sales Totals (intersystem sales) \$ (3,019,742) Fuel Transfer Sales (JDA & economic sales) (79,730,585) (82,750,327)	Purchases for REPS Compliance Energy	\$	131,543,318		
Purchases from Qualifying Facilities Capacity Purchases from Dispatchable Units Energy 43,444,341 Emergency & DSM Purchases 1,321,830 Allocated Economic Purchases 6,460,492 Joint Dispatch Fuel Transfer Purchases 23,513,124 Joint Dispatch Savings (6,373,541) \$ 458,166,122 Total Net Generation and Purchases Sales Totals (intersystem sales) \$ (3,019,742) Fuel Transfer Sales (JDA & economic sales) \$ (82,750,327)	Purchases for REPS Compliance Capacity		26,962,441		
Purchases from Dispatchable Units Energy 43,444,341 Emergency & DSM Purchases 1,321,830 Allocated Economic Purchases 6,460,492 Joint Dispatch Fuel Transfer Purchases 23,513,124 Joint Dispatch Savings (6,373,541) \$ 458,166,122 Total Net Generation and Purchases 1,396,310,218 Sales Totals (intersystem sales) \$ (3,019,742) Fuel Transfer Sales (JDA & economic sales) (79,730,585) (82,750,327)	, ,				
Emergency & DSM Purchases 1,321,830 Allocated Economic Purchases 6,460,492 Joint Dispatch Fuel Transfer Purchases 23,513,124 Joint Dispatch Savings (6,373,541) \$ 458,166,122 Total Net Generation and Purchases 1,396,310,218 Sales Totals (intersystem sales) \$ (3,019,742) Fuel Transfer Sales (JDA & economic sales) (79,730,585) (82,750,327)					
Allocated Economic Purchases 6,460,492 Joint Dispatch Fuel Transfer Purchases 23,513,124 Joint Dispatch Savings (6,373,541) \$ 458,166,122 Total Net Generation and Purchases 1,396,310,218 Sales Totals (intersystem sales) \$ (3,019,742) Fuel Transfer Sales (JDA & economic sales) (79,730,585) (82,750,327)					
Joint Dispatch Fuel Transfer Purchases 23,513,124 Joint Dispatch Savings (6,373,541) \$ 458,166,122 Total Net Generation and Purchases 1,396,310,218 Sales Totals (intersystem sales) \$ (3,019,742) Fuel Transfer Sales (JDA & economic sales) (79,730,585) (82,750,327)	<i>o</i> ,				
Joint Dispatch Savings (6,373,541) \$ 458,166,122 Total Net Generation and Purchases 1,396,310,218 Sales Totals (intersystem sales) \$ (3,019,742) Fuel Transfer Sales (JDA & economic sales) (79,730,585) (82,750,327)					
Total Net Generation and Purchases 1,396,310,218 Sales Totals (intersystem sales) \$ (3,019,742) Fuel Transfer Sales (JDA & economic sales) (79,730,585) (82,750,327)	•		, ,	ċ	AEQ 166 122
Fuel Transfer Sales (JDA & economic sales) (79,730,585) (82,750,327)	, -		(0,373,341)	٠,	
Fuel Transfer Sales (JDA & economic sales) (79,730,585) (82,750,327)	Sales Totals (intersystem sales)	\$	(3,019,742)		
		·			(82,750,327)
	Total System Fuel and Related Expenses			\$	1,313,559,891

DUKE ENERGY PROGRESS, LLC
North Carolina Annual Fuel and Fuel Related Expense
Reagents (\$)
Billing Period December 1, 2020 - November 30, 2021
Docket No. E-2, Sub 1250

			Lime, Hydrated	Limestone						Total NC System Reagent Cost and
		Ammonia/	Lime &	Off-System	Magnesium	Calcium	Total NC System	Gypsum	Ash	ByProduct
Month	Year	Urea	Limestone	Sales	Hydroxide	Carbonate	Reagent Cost	(Gain)/Loss	(Gain)/Loss	(Gain)/Loss
December	2020	\$ 349,864	\$ 814,335	\$ (10,778)	\$ 362,270	\$ 180,399	\$ 1,696,089	\$ (137,395)	\$ (9,473)	\$ 1,549,221
January	2021	530,045	1,243,582	(58,470)	531,324	271,310	2,517,790	(184,985)	(34,250)	2,298,556
February	2021	486,647	1,106,364	(18,442)	484,868	248,097	2,307,533	8,237,244	(31,693)	10,513,085
March	2021	225,462	533,786	(15,143)	271,583	112,582	1,128,270	(78,870)	(15,924)	1,033,476
April	2021	50,715	117,977	(4,266)	73,946	24,453	262,825	(22,709)	(6,260)	233,857
May	2021	40,061	115,602	(3,723)	55,533	21,867	229,340	(13,722)	(4,933)	210,685
June	2021	131,603	348,989	(7,158)	166,761	72,573	712,769	(42,483)	(10,334)	659,951
July	2021	299,623	776,057	(6,315)	342,645	162,584	1,574,594	(100,921)	(20,696)	1,452,978
August	2021	283,588	773,994	(11,476)	328,284	153,998	1,528,389	(99,490)	(19,355)	1,409,543
September	2021	130,049	360,338	(9,509)	176,383	67,194	724,455	(49,366)	(10,631)	664,458
October	2021	26,849	86,556	-	35,197	14,523	163,125	(8,631)	(4,178)	150,316
November	2021	51,205	165,532	(2,666)	69,982	29,089	313,142	(16,744)	(5,309)	291,090
12ME Nov	2021	\$ 2,605,708	\$ 6,443,112	\$ (147,945)	\$ 2,898,776	\$ 1,358,671	\$ 13,158,322	\$ 7,481,928	\$ (173,037)	\$ 20,467,213

DUKE ENERGY PROGRESS, LLC
North Carolina Annual Fuel and Fuel Related Expense
Merger Fuel Impacts
Billing Period December 1, 2020 - November 30, 2021
Docket No. E-2, Sub 1250

			Positive numbers represent expense, Negative numbers represent revenues													
		Allo	cated Econon	nic Purcha	se Cost		Economic Sale	es Cost			Fuel Transfe	r Payn	nent	JDA Savings	Payr	nent
Month	Year		DEP	DI	EC		DEP	DEC			DEP		DEC	DEP		DEC
December	2020	\$	257,862	\$	370,766	\$	(89,681) \$	(1	.66,045)	\$	4,118,328	Ş	(4,118,328)	\$ 1,146,573	Ş	(1,146,573)
January	2021		1,176,285	1	,661,806		(1,591,816)	(2,3	50,168)		(2,389,493)		2,389,493	(234,351)		234,351
February	2021		380,540		558,194		(720,710)	(8	62,253)		(1,617,525)		1,617,525	(12,984)		12,984
March	2021		219,150		325,045		(272,340)	(5	35,713)		1,780,167		(1,780,167)	1,032,313		(1,032,313)
April	2021		541,903		816,862		(57,018)		(8,586)		(4,758,982)		4,758,982	(754,326)		754,326
May	2021		352,445		508,572		(178,053)	(99,829)		(1,436,148)		1,436,148	286,212		(286,212)
June	2021		442,608		604,720		(115,855)	(1	.39,218)		(5,809,342)		5,809,342	(609,887)		609,887
July	2021		674,261		936,992		(273,546)	(2	32,353)		(7,206,634)		7,206,634	(1,780,127)		1,780,127
August	2021		596,490		859,410		(148,886)	(80,333)		(7,653,022)		7,653,022	(906,517)		906,517
September	2021		828,916	1	,219,925		(129,011)	(84,868)		(6,213,974)		6,213,974	(824,741)		824,741
October	2021		644,344		943,717		(15,058)	(10,720)		(8,113,755)		8,113,755	(1,591,215)		1,591,215
November	2021		345,687		513,412		(101,916)	(91,624)		(13,223,193)		13,223,193	(2,124,492)		2,124,492
Total		\$	6,460,492			\$	(3,693,889)			\$	(52,523,572)			\$ (6,373,541)		

		Fuel Transfe	er Pa	yments
		Purchases		Sales
December	0000	6 442 000		4 002 672
December	2020	\$ 6,112,000	\$	1,993,672
January	2021	2,576,329		4,965,823
February	2021	2,356,836		3,974,361
March	2021	3,988,416		2,208,250
April	2021	1,814,652		6,573,634
May	2021	2,577,595		4,013,743
June	2021	1,250,590		7,059,932
July	2021	919,940		8,126,574
August	2021	530,502		8,183,524
September	2021	574,090		6,788,064
October	2021	728,496		8,842,251
November	2021	 83,677		13,306,869
		\$ 23,513,124	\$	76,036,696
			Ś	(52.523.572)

DUKE ENERGY PROGRESS, LLC
North Carolina Annual Fuel and Fuel Related Expense
Merger Payments
Billing Period December 1, 2020 - November 30, 2021
Docket No. E-2, Sub 1250

		MWh Transfe	er Projection	MWh Purchase Al	location Delta	Adjusted MV	/h Transfer	Foss	il Gen Co	st \$	/MWh	Pre-Net Pa	yments \$	Actual Pa	yments \$
Month	Year	DEP to DEC	DEC to DEP	DEP	DEC	DEP to DEC	DEC to DEP	D	EP		DEC	DEP to DEC	DEC to DEP	DEP to DEC	DEC to DEP
December	2020	95,054	376,196	(4,644)	4,644	95,054	380,839	\$	20.97	\$	16.05	\$ 6,112,000	\$ 1,993,672	\$ 4,118,328	-
January	2021	233,291	114,318	(15,219)	15,219	233,291	129,537	\$	21.29	\$	19.89	2,576,329	4,965,823	-	2,389,493
February	2021	190,075	109,221	(11,642)	11,642	190,075	120,862	\$	20.91	\$	19.50	2,356,836	3,974,361	-	1,617,525
March	2021	115,013	311,791	(6,253)	6,253	115,013	318,043	\$	19.20	\$	12.54	3,988,416	2,208,250	1,780,167	-
April	2021	337,867	92,434	(10,502)	10,502	337,867	102,936	\$	19.46	\$	17.63	1,814,652	6,573,634	-	4,758,982
May	2021	212,748	173,588	(11,559)	11,559	212,748	185,147	\$	18.87	\$	13.92	2,577,595	4,013,743	-	1,436,148
June	2021	352,999	82,716	(4,811)	4,811	352,999	87,527	\$	20.00	\$	14.29	1,250,590	7,059,932	-	5,809,342
July	2021	372,513	63,634	5,245	(5,245)	377,758	63,634	\$	21.51	\$	14.46	919,940	8,126,574	-	7,206,634
August	2021	375,537	38,155	9,330	(9,330)	384,867	38,155	\$	21.26	\$	13.90	530,502	8,183,524	-	7,653,022
September	2021	336,840	39,950	(1,457)	1,457	336,840	41,407	\$	20.15	\$	13.86	574,090	6,788,064	-	6,213,974
October	2021	464,656	53,039	485	(485)	465,142	53,039	\$	19.01	\$	13.74	728,496	8,842,251	-	8,113,755
November	2021	665,983	6,741	7,480	(7,480)	673,463	6,741	\$	19.76	\$	12.41	83,677	13,306,869	-	13,223,193
Total		3,752,576	1,461,782	(43,545)	43,545	3,775,117	1,527,867		•			\$ 23,513,124	\$ 76,036,696	\$ 5,898,495	58,422,067

Revised Harrington Workpaper 8

DUKE ENERGY PROGRESS, LLC
North Carolina Annual Fuel and Fuel Related Expense
Projected Sales
Billing Period December 1, 2020 - November 30, 2021
Docket No. E-2, Sub 1250

NC Retail	 Projection MWhs	Remove impa DERP Net M Generati	etered	Adjusted Projected Sales (MWhs)
Residential	16,171,290			16,171,290
Small General Service	1,784,993			1,784,993
Medium General Service	10,287,749			10,287,749
Large General Service	9,128,353			9,128,353
Lighting	377,978			377,978
NC Retail	37,750,364	-	-	37,750,364
SC Retail	 6,692,489		43,684	6,736,173
Total Wholesale	17,041,448			17,041,448
Total Adjusted NC System Sales	61,484,301		43,684	61,527,985
NC as a percentage of total	61.40%		0.00%	61.35%
SC as a percentage of total	10.88%		100.00%	10.95%
Wholesale as a percentage of total	27.72%		0.00%	27.70%
SC Net Metering allocation adjustment				
Total Projected SC NEM MWhs	43,684			
Marginal Fuel rate per MWh for SC NEM	\$ 22.62	_		
Fuel Benefit to be directly assigned to SC	\$ 987,955			
System Fuel Expense	\$	Exh 2 Sch 1 Pg 1		
Fuel benefit to be directly assigned to SC Retail	 987,955	_		
Total Adjusted System Fuel Expense	\$ 1,314,547,846	Exh 2 Sch 1 Pg 3		

DUKE ENERGY PROGRESS, LLC
North Carolina Annual Fuel and Fuel Related Expense
Normalized Sales
Billing Period December 1, 2020 - November 30, 2021
Docket No. E-2, Sub 1250

	Te	est Period Sales MWhs	Weather Normalization	Customer Growth	Remove impact of SC DERP Net Metered Generation	Adjusted Projected Sales (MWhs)
NC Retail						
Residential		15,760,190	330,167	101,073		16,191,429
Small General Service		1,931,559	(154,700)	809		1,777,668
Medium General Service		11,028,202	(60,460)	(18,408)		10,949,334
Large General Service		8,587,442	(6,422)	3,976		8,584,996
Lighting		348,533	0	911		349,444
NC Retail		37,655,926	108,585	88,359		37,852,870
SC Retail		6,234,427	3,683	772	43,684	6,282,566
Total Wholesale		17,875,203	299,596	109,141		18,283,941
Total Adjusted NC System Sales		61,765,556	411,864	198,273	43,684	62,419,377
NC as a percentage of total		60.97%				60.64%
SC as a percentage of total		10.09%				10.07%
Wholesale as a percentage of total		28.94%				29.29%
SC Net Metering allocation adjustment						
Total Projected SC NEM MWhs		43,684				
Marginal Fuel rate per MWh for SC NEM	\$	22.62				
Fuel Benefit to be directly assigned to SC	\$	987,955				
System Fuel Expense	\$		Exh 2 Sch 2 Pg 1			
Fuel benefit to be directly assigned to SC Retail		987,955				
Total Adjusted System Fuel Expense	\$	1,342,721,124	Exh 2 Sch 2 Pg 3			

DUKE ENERGY PROGRESS, LLC
North Carolina Annual Fuel and Fuel Related Expense
Weather Adjustment - MWh
Twelve Months Ended March 31, 2020
Docket No. E-2, Sub 1250

			Total	NC I	RETAIL	SC F	RETAIL
Line			Company	% To		% To	
No.	Description	Formula	MWh	Total	MWh	Total	MWh
	Residential						
1	Residential		373,365	88.43	330,167	11.57	43,198
	Commercial						
2	Small and Medium General Service		(176,015)	87.89	(154,700)	12.11	(21,315)
	<u>Industrial</u>						
3	Large General Service		(78,438)	77.08	(60,460)	22.92	(17,978)
	<u>OPA</u>						
4	Other Public Authority (Large General Service)	-	(6,644)	96.66	(6,422)	3.34	(222)
_							
5	Total Retail	L1+ L2+ L3 + L4	112,268		108,585		3,683
6	Mississis		200 506				
6	Wholesale		299,596				
7	Total Company	15.16	411.064		100 505		2 692
7	Total Company	L5 + L6	411,864	_	108,585	=	3,683

DUKE ENERGY PROGRESS, LLC
North Carolina Annual Fuel and Fuel Related Expense
Weather Adjustment - MWh
Twelve Months Ended March 31, 2020
Docket No. E-2, Sub 1250

		Residential	Commercial	Industrial	OPA	Total Retail	Wholesale
		MWH Adjustment	MWH Adjustment	MWH Adjustment	MWH Adjustment	MWH Adjustment	MWH Adjustment
April	2019	(47,166)	-	(19,260)	-	(66,426)	-
May	2019	(92,074)	(31,596)	(55,583)	-	(179,253)	(130,288)
June	2019	(162,445)	(72,838)	(13,276)	(5,613)	(254,173)	(122,615)
July	2019	(41,116)	(14,214)	(6,989)	(1,351)	(63,670)	(35,949)
August	2019	(159,945)	2,079	997	236	(156,632)	3,596
September	2019	(51,257)	(26,965)	(8,430)	(3,053)	(89,706)	(32,160)
October	2019	(15,298)	(93,582)	(71,735)	2,686	(177,929)	(5,988)
November	2019	123,099	-	68,523	(6,142)	185,480	(27,820)
December	2019	(14,980)	-	-	-	(14,980)	(8,607)
January	2020	340,724	46,118	18,365	1,428	406,634	377,434
February	2020	368,467	14,983	8,951	5,165	397,566	98,166
March	2020	125,358	-	-	-	125,358	183,827
12ME March	2020	373,365	(176,015)	(78,438)	(6,644)	112,268	299,596

DUKE ENERGY PROGRESS, LLC North Carolina Annual Fuel and Fuel Related Expense Customer Growth Adjustment - MWh Twelve Months Ended March 31, 2020 Docket No. E-2, Sub 1250

	Estimation		NC Proposed MWH	SC Proposed MWH	Wholesale Proposed MWH
Rate Schedule	Method ¹	Reference	Adjustment	Adjustment	Adjustment
Residential	Regression	RES	101,073	7,614	
General:					
General Service Small	Regression	SGS	809	(3,246)	
General Service Medium	Customer	MGS	(18,408)	(4,248)	
Total General			(17,600)	(7,495)	
Lighting:					
Street Lighting	Regression	SLS/SLR	963	88	
Sports Field Lighting	Regression	SFLS	(28)	(7)	
Traffic Signal Service	Regression	TSS/TFS	(24)	571	
Total Street Lighting		·	911	653	
Industrial:					
I - Textile	Customer	LGS	-	-	
I - Nontextile		LGS	3,976	-	
Total Industrial		•	3,976	-	
Total			88,359	772	109,141

Note:

¹ Two approved methods are used for estimating the growth adjustment depending on the class/schedule:

[&]quot;Regression" refers to the use of Ordinary Least Squares Regression.

[&]quot;Customer" refers to the use of the Customer by Customer approach.

DUKE ENERGY PROGRESS, LLC
North Carolina Annual Fuel and Fuel Related Expense
Projected Sales - NERC 5 year Average
Billing Period December 1, 2020 - November 30, 2021
Docket No. E-2, Sub 1250

		Remove impact of SC	
	Projection	DERP Net Metered	Adjusted Projected
	MWhs	Generation	Sales (MWhs)
NC Retail			
Residential	16,171,290		16,171,290
Small General Service	1,784,993		1,784,993
Medium General Service	10,287,749		10,287,749
Large General Service	9,128,353		9,128,353
Lighting	377,978	_	377,978
NC Retail	37,750,364		37,750,364
SC Retail	6,692,489	43,684	6,736,173
Total Wholesale	17,041,448		17,041,448
Total Adjusted NC System Sales	61,484,301	43,684	61,527,985
NC as a percentage of total	61.40%	0.00%	61.35%
SC as a percentage of total	10.88%	100.00%	10.95%
Wholesale as a percentage of total	27.72%	0.00%	27.70%
SC Net Metering allocation adjustment			
Total Projected SC NEM MWhs	43,684		
Marginal Fuel rate per MWh for SC NEM	\$ 22.62		
Fuel Benefit to be directly assigned to SC	\$ 987,955	-	
System Fuel Expense	\$ 1,352,745,292	Exh 2 Sch 3 Pg 1	
Fuel benefit to be directly assigned to SC Retail	987,955	<u>-</u>	
Total Adjusted System Fuel Expense	\$ 1,353,733,247	Exh 2 Sch 3 Pg 3	

0.2598%

DUKE ENERGY PROGRESS, LLC
North Carolina Annual Fuel and Fuel Related Expense
NC Retail Allocation %
Line Loss Calculation Factors - 12 Months Ending December 31, 2019
Docket No. E-2, Sub 1250

Total SC

Total System

6,500,537,326

62,487,715,993

10.4029%

100.0000%

6,697,610,886

64,253,479,418

10.4237%

100.0000%

197,073,560

1,765,763,426

Generator Step Up Loss %

DOCKET 140. E 2, 345 1230	•								icherator step op 2033 70	0.233070
	kWh @ Meter	E-2 Allocation	kWh @ Prod Out.	E-1 Allocation	Losses			Cost of Service Dat	a Summarized	
						-	kWh @ Meter	kWh @ Generator	Losses (kWh)	Loss Percent
NC RES	15,557,072,996	24.8962%	16,083,699,023	25.0316%	526,626,027	Residential	16,014,259,505	16,599,480,986	585,221,481	3.6540%
NC RES-TOU	457,186,509	0.7316%	472,662,834	0.7356%	15,476,325	SGS	1,958,437,616	2,029,994,808	71,557,192	3.6540%
NC SGS	1,911,356,256	3.0588%	1,976,046,533	3.0754%	64,690,277	MGS	11,072,050,016	11,466,586,138	394,536,122	3.5630%
NC SGS-CLR	42,422,798	0.0679%	43,858,862	0.0683%	1,436,064	LGS	8,543,045,195	8,798,314,654	255,269,459	2.9880%
NC MGS-TOU	8,291,668,009	13.2693%	8,563,872,766	13.3283%	272,204,757	Lighting	350,436,746	363,236,983	12,800,237	3.6530%
NC MGS	2,734,407,266	4.3759%	2,825,508,571	4.3974%	91,101,305	Total NC Retail	37,938,229,078	39,257,613,570	1,319,384,492	3.4780%
NC SI	45,974,741	0.0736%	47,418,978	0.0738%	1,444,237					
NC LGS	1,999,602,174	3.2000%	2,057,691,470	3.2025%	58,089,296					
NC LGS-TOU	1,649,408,743	2.6396%	1,696,853,732	2.6409%	47,444,989	Total NC Retail	37,938,229,078	39,257,613,570	1,319,384,492	3.4780%
NC LGS-RTP	4,894,034,278	7.8320%	5,020,914,781	7.8142%	126,880,503					
NC TSS	4,658,562	0.0075%	4,816,260	0.0075%	157,698	SC Retail	6,302,325,312	6,512,458,012	210,132,700	3.3340%
NC ALS	263,810,754	0.4222%	272,741,072	0.4245%	8,930,318	12ME NEM Generation	28,276,884	29,219,635	942,751	3.3340%
NC SLS	85,413,048	0.1367%	88,304,385	0.1374%	2,891,337	Total SC Retail	6,330,602,196	6,541,677,647	211,075,451	3.3340%
NC SFLS	1,212,944	0.0019%	1,247,975	0.0019%	35,031					
Total NCR	37,938,229,078	60.7131%	39,155,637,242	60.9393%	1,217,408,164	All other jurisdications	18,218,884,719	18,621,528,957	402,644,238	2.2100%
						Total System	62,487,715,993	64,420,820,174	1,933,104,181	3.0940%
NCWHS incl .										
NCEMPA	18,048,949,589	28.8840%	18,400,231,291	28.6369%	351,281,702	SC Retail + All Other	24,549,486,915	25,163,206,604	613,719,689	2.5000%
						Line Loss Calculations for Projected				
Total NC	55,987,178,667	89.5971%	57,555,868,532	89.5763%	1,568,689,866	Fuel Costs	MWh @ Meter	MWh @ Generator	Losses (MWh)	Loss Percent
						Total NC Retail	37,750,364	39,110,632	1,360,268	3.6030%
SC RES	2,041,645,412	3.2673%	2,110,757,617	3.2850%	69,112,205	Total SC Retail	6,736,173	6,968,503	232,330	3.4490%
SC RET	37,532,506		38,803,027	0.0604%	1,270,521	All other jurisdications	17,041,448	17,426,575	385,127	2.2600%
SC SGS	266,135,397	0.4259%	275,134,446	0.4282%	8,999,049	Total System	61,527,985	63,505,710	1,977,725	3.2140%
SC SGS-CLR	5,564,551	0.0089%	5,752,918	0.0090%	188,367	Allocation percent - NC retail	61.35%	61.59%		
SC MGS-TOU	1,114,320,548	1.7833%	1,150,706,004	1.7909%	36,385,456					
SC MGS	515,294,860	0.8246%	532,253,124	0.8284%	16,958,264					
						Line Loss Calculations for Normalized				
SC SI	21,354,052	0.0342%	22,015,710	0.0343%	661,658	Test Period Sales	MWh @ Meter	MWh @ Generator	Losses (MWh)	Loss Percent
SC LGS	686,375,801	1.0984%	706,361,216	1.0993%	19,985,415	Total NC Retail	37,852,870	39,216,832	1,363,961	3.6030%
SC LGS-TOU	294,080,086	0.4706%	301,694,491	0.4695%	7,614,405	Total SC Retail	6,282,566	6,499,251	216,685	3.4490%
SC LGS-CRTL-TOU	687,515,490	1.1002%	703,467,652	1.0948%	15,952,162	All other jurisdications	18,283,941	18,697,147	413,207	2.2600%
SC LGS-RTP	553,274,261	0.8854%	566,681,217	0.8819%	13,406,956	Total System	62,419,377	64,413,230	1,993,853	3.1940%
SC TSS	1,165,287	0.0019%	1,204,733	0.0019%	39,446					
SC ALS	61,651,870	0.0987%	63,738,862	0.0992%	2,086,992	Allocation percent - NC retail	60.64%	60.88%		
SC SLS	16,263,098	0.0260%	16,813,624	0.0262%	550,526					
SC SFLS	152,093	0.0002%	156,486	0.0002%	4,393					
Total SCR	6,302,325,312	10.0857%	6,495,541,126	10.1092%	193,215,814					
SCWHS	198,212,014	0.3172%	202,069,760	0.3145%	3,857,745					

Add Impact of Approved Rate Changes During Test Year

DUKE ENERGY PROGRESS, LLC
North Carolina Annual Fuel and Fuel Related Expense
Derivation of Equal Percent Increases for all Rate Classes
Annualized Revenues at Current Rates
Twelve Months Ended March 31, 2020
Docket No. E-2, Sub 1250

										Kellio	ve raitiai ieai ii	iipacis			Auu II	прастог Аррго	reu nate change	s builing rest	real	
Revenue Class (1)	Annual Sales (2) per RMC2B - Adjusted to tie to RMCRY2	Sales	Annual DSM Opt- Out Sales (4) per RMCRY14E	Annual Customer Count (5) per RMC2B	Annual Rider JAA kWh Units (6) per RMC2B	Annual Rider JAA Demand Units (7) per PMCM7M	Annual Customer Count (Adjusted for Premise Billing) (8) = (5) adjusted by RMCRY10	Annual Revenues (9) per RMC2B	Test Year Rate Changes** (10) - See Annualization Adjustment Worksheet	Opt-Out Credit Due to Jan 2019 EE Rate (11) per RMCRY14	Opt-Out Credit Due to Jan. 2019 DSM Rate (12) per RMCRY15	Mar. 16, 2018	REPS Revenue Due to December 2018 Rate Change (14) per RMCRY10	Annual Revenues Excluding All Rate Adjustments (15)=(9)-(10-11-12)- (13)-(14)	Annual Impact of Rate Changes*** (16) See Annualization Adjustment worksheet	Impact of 1/19 EE Rate	Annual Opt-Out Impact of 1/19 EE Rate (18) = (4) * Rate Change	NC Rate Case - Mar. 16, 2018 (19) per Report PMCM7M Worksheet	Annual Impact of Dec. 2018 REPS Rate (20) = (8) * Rate Change	Annual Revenue At Current Rates (21)=(15)+[16-17- 18]+(19)+(20)
Residential	15,826,067,908	0	0	15.003.443	15.826.067.908	0	14,903,338	\$1.850.837.644	\$3.649.966	\$0	\$0	\$0	\$126,400	\$1,847,061,277	(\$42.888.954)	\$0	\$0	\$0	\$447.100	\$1,804,619,423
Residential	15,760,184,214	0	0	14,888,547	15,760,184,214	0	14,822,496	\$1,828,445,916	\$3,635,856	\$0	\$0	\$0	\$125,722	\$1,824,684,339	(\$42,684,737)	\$0	\$0	\$0	\$444,675	\$1,782,444,277
SGS	7,465	0	0	15	7,465	0	0	\$1,079	(\$0)	\$0	\$0	\$0	\$0	\$1,079	(\$31)	\$0	\$0	\$0	\$0	\$1,048
MGS	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
LGS	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Lighting	65,876,229	0	0	114,881	65,876,229	0	80,842	\$22,390,648	\$14,111	\$0	\$0	\$0	\$678	\$22,375,859	(\$204,187)	\$0	\$0	\$0	\$2,425	\$22,174,098
Commercial Residential	12,241,712,019 5,509	4,057,787,437 0	4,124,140,496 0	2,494,555 18	2,171,982,476 44,256,161	30,502,353 0	2,389,841 0	\$1,144,805,570 \$842	\$1,053,475 \$2	\$2,115,868 \$0	\$76,665 \$0	\$0 \$0	\$197,252 \$2	\$1,145,747,376 \$839	(\$36,654,162) (\$14)	(\$3,121,230) \$0	\$493,433 \$0	\$47 \$47	\$693,054 \$0	\$1,112,414,111 \$871
SGS	1,909,010,606	17,750,189	18,118,924	2,035,461	46,659,770	0	1,838,482	\$239,114,595	\$379,221	\$10,088	\$27	\$0	\$151,438	\$238,594,051	(\$7,721,434)	(\$13,668)	\$2,174	\$0	\$533,160	\$231,417,270
MGS	9,022,287,757	2,917,960,154	3,013,628,814	443,550	1,872,697,814	28,245,043	398,315	\$770,720,503	\$278,505	\$1,554,521	\$58,805	\$0	\$33,029	\$772,022,295	(\$27,228,636)	(\$2,246,829)	\$361,635	\$0	\$115,511	\$746,794,365
LGS	1,100,830,370	1,110,410,133	1,080,192,292	1,128	0	2,257,309	896	\$83,680,162	\$349,222	\$551,422	\$17,472	\$0	\$73	\$83,899,761	(\$1,055,506)	(\$855,016)	\$129,623	\$0	\$260	\$83,569,908
Lighting	209,577,777	11,666,961	12,200,466	14,398	208,368,731	0	152,147	\$51,289,468	\$46,525	(\$163)	\$361	\$0	\$12,711	\$51,230,430	(\$648,573)	(\$5,717)	\$0	\$0	\$44,123	\$50,631,696
Industrial	8,117,274,041	8,544,593,139	8,553,336,263	41,474	34,781,711	18,577,624	21,739	\$527,079,589	\$2,011,114	\$4,530,531	\$162,457	\$0	(\$84,686)	\$529,846,148	(\$11,694,279)	(\$6,577,154)	\$1,025,425	\$0	(\$295,433)	\$523,408,164
Residential	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
SGS	18,223,753	8,285,186	8,430,827	12,006	18,223,753	0	3,366	\$2,061,011	\$3,115 \$64.971	\$4,976	\$181	\$0 \$0	(\$12,974)	\$2,076,028	(\$73,087)	(\$6,380)	\$1,012	\$0	(\$45,745)	\$1,962,563
MGS LGS	2,005,914,289 6,078,732,718	1,589,377,061 6,939,134,462	1,593,677,836 6,943,100,364	26,876 2,397	2,154,677 0	5,769,269 12,808,355	7,481 9,344	\$159,774,604 \$362,377,301	\$64,971 \$1,939,801	\$851,374 \$3,674,284	\$31,176 \$131,099	\$0 \$0	(\$29,734) (\$36,563)	\$160,621,918 \$364,279,446	(\$5,859,489) (\$5,717,395)	(\$1,223,820) (\$5,343,134)	\$191,241 \$833,172	\$0 \$0	(\$101,670) (\$126,988)	\$155,693,338 \$362,945,025
Lighting	14,403,281	7,796,430	8,127,236	195	14,403,281	12,808,333	1,547	\$2,866,674	\$3,228	(\$103)	\$131,099	\$0	(\$5,414)	\$2,868,756	(\$44,308)	(\$3,820)	\$0	\$0	(\$21,030)	\$2,807,238
Public Streets & Highways	62,991,044	0	0	10,962	62,991,044	0	10,134	\$17,375,809	\$11,674	\$0	\$0	\$0	\$808	\$17,363,326	(\$196,198)	\$0	\$0	\$0	\$2,939	\$17,170,066
Residential	0	0	0	0	0	0	0	\$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$0	\$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0	\$0
SGS MGS	4,317,021 0	0	0	5,388 0	4,317,021 0	0	5,304 0	\$436,027 \$0	\$1,241 \$0	\$0	\$0 \$0	\$0 \$0	\$408 \$0	\$434,378 \$0	(\$10,816) \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$1,538 \$0	\$425,100 \$0
LGS	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0 \$0	\$0	\$0	\$0 \$0	\$0
Lighting	58,674,023	0	0	5,574	58,674,023	0	4,830	\$16,939,781	\$10,433	\$0	\$0	\$0	\$400	\$16,928,948	(\$185,382)	\$0	\$0	\$0	\$1,401	\$16,744,967
Military	1,407,880,873 0	1,618,414,435 0	1,618,414,435 0	48 0	1,920 0	3,382,581 0	39 0	\$83,258,122 \$0	\$494,857 \$0	\$749,918 \$0	\$25,128 \$0	\$0 \$0	(\$165) \$0	\$83,538,476 \$0	(\$1,266,420) \$0	(\$1,246,179) \$0	\$194,210 \$0	\$0 \$0	(\$530) \$0	\$83,323,495 \$0
Residential SGS	0	0	0	0	0	0	0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
MGS	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0 \$0	\$0	\$0	\$0	\$0
LGS	1,407,878,953	1,618,414,435	1,618,414,435	48	0	3,382,581	39	\$83,257,895	\$494,856	\$749,918	\$25,128	\$0	(\$165)	\$83,538,250	(\$1,266,415)	(\$1,246,179)	\$194,210	\$0	(\$530)	\$83,323,275
Lighting	1,920	0	0	0	1,920	0	0	\$227	\$1	\$0	\$0	\$0	\$0	\$226	(\$5)	\$0	\$0	\$0	\$0	\$221
NC Retail	37,655,925,885 0	14,220,795,011 0	14,295,891,194	17,550,482	18,095,825,059	52,462,558 0	17,325,091	\$3,623,356,734 0	\$7,221,086 \$0	\$7,396,316 0	\$264,249 0	\$0 0	\$239,609	\$3,623,556,603	(\$92,700,014) 0	(\$10,944,562)	\$1,713,068	\$47 0	\$847,130	\$3,540,935,260
Rate Schedules (excludes REPS) RES (includes RES-RECD)	15,319,053,786	0	0	14,620,619	15,319,053,786	0		\$1,783,868,424	\$2,822,572	\$0	\$0	\$89,595,643	\$125,723	\$1,691,324,486	(\$33,028,325)	\$0	\$0	\$0		\$1,658,296,161
SGS	1,877,917,130	26,007,474	26,520,730	1,949,437	1,877,917,130	0		\$235,152,074	\$375,438	\$15,024	\$208	\$26,071,474	\$130,326	\$208,590,068	(\$7,611,443)	(\$20,026)	\$3,182	\$0		\$200,995,469
MGS	2,671,885,153	318,930,417	320,863,065	200,052	0	12,760,458		\$277,388,141	(\$293,134)	\$169,063	\$4,053	\$28,949,035	-\$15,583	\$248,920,939	(\$9,301,078)	(\$245,576)	\$38,504	\$0		\$239,826,934
SGS-TOU	8,277,629,612	4,183,307,729	4,281,248,998	259,451	0	21,190,016		\$644,287,428	\$623,063	\$2,234,880	\$27,117	\$16,402,456	-\$11,254	\$629,535,160	(\$23,332,268)	(\$3,221,147)	\$513,750	\$0		\$608,910,289
LGS	1,078,881,507	1,159,358,313	1,172,391,715	1,058	0	2,287,761		\$87,303,271	\$354,548	\$549,860	\$18,086	\$19,630,766	-\$2,321	\$67,888,224	(\$1,039,924)	(\$892,706)	\$140,687	\$0		\$67,600,319
LGS-TOU	1,696,488,028	1,783,130,634	1,743,845,293	1,517	0	3,240,038		\$124,064,025	\$507,576	\$1,015,855	\$24,384	\$3,646,942	-\$1,905	\$120,951,651	(\$1,610,401)	(\$1,373,011)	\$209,261	\$0		\$120,504,999
LGS-RTP	11,093,048	11,093,048	11,093,048	13	0	37,752		\$857,084	\$29,916	\$6,726	\$236	\$29,670	\$0	\$804,459	(\$84,740)	(\$8,542)	\$1,331	\$0		\$726,929
LGS-RTP-TOU	5,800,979,458	6,712,456,682	6,712,456,682	985	0	12,882,695		\$317,090,978	\$1,891,839	\$3,403,184	\$130,993	\$11,648,950	-\$2,682	\$307,087,048	(\$5,304,251)	(\$5,168,592)	\$805,495	\$0		\$306,145,894
LGS Class	8,587,442,041	9,666,038,677	9,639,786,738	3,573	0	18,448,246		\$529,315,358	\$2,783,880	\$4,975,624	\$173,699	\$34,956,327	(\$6,907)	\$496,731,381	(\$8,039,315)	(\$7,442,850)	\$1,156,774	\$0		\$494,978,141
Rate Class																				
Residential	15,760,189,723	0	0	14,888,565	15,804,440,375	0	14,822,496	\$1,828,446,758	\$3,635,857	\$0	\$0	\$0	\$125,723	\$1,824,685,178	(\$42,684,751)	\$0	\$0	\$47	\$444,675	\$1,782,445,149
SGS	1,931,558,845	26,035,375	26,549,751	2,052,870	69,208,009	0	1,847,152	\$241,612,712	\$383,576	\$15,064	\$208	\$0	\$138,872	\$241,105,536	(\$7,805,368)	(\$20,047)	\$3,186	\$0	\$488,952	\$233,805,982
MGS	11,028,202,046	4,507,337,215	4,607,306,650	470,426	1,874,852,491	34,014,312	405,797	\$930,495,107	\$343,476	\$2,405,894	\$89,981	\$0	\$3,295	\$932,644,212	(\$33,088,125)	(\$3,470,650)	\$552,877	\$0	\$13,842	\$902,487,703
LGS	8,587,442,041	9,667,959,030	9,641,707,091	3,573	0	18,448,246	10,279	\$529,315,358	\$2,783,880	\$4,975,624	\$173,699	\$0	(\$36,656)	\$531,717,457	(\$8,039,315)	(\$7,444,328)	\$1,157,005	\$0	(\$127,258)	\$529,838,208
Lighting	348,533,230	19,463,391	20,327,702	135,048	347,324,184	0	239,367	\$93,486,798	\$74,298	(\$266)	\$361	\$0	\$8,375	\$93,404,220	(\$1,082,456)	(\$9,537)	\$0	\$0	\$26,918	\$92,358,220
	37,655,925,885	14,220,795,011	14,295,891,194	17,550,482	18,095,825,059	52,462,558	17,325,091	\$3,623,356,734	\$7,221,086	\$7,396,316	\$264,249	\$0	\$239,609	\$3,623,556,603	(\$92,700,014)	(\$10,944,562)	\$1,713,068	\$47	\$847,130	\$3,540,935,260

Remove Partial Year Impacts

DUKE ENERGY PROGRESS, LLC
North Carolina Annual Fuel and Fuel Related Expense
Actual MWH Sales by Jurisdiction - Subject to Weather
Twelve Months Ended March 31, 2020
Docket No. E-2, Sub 1250

					Retail		
Line			North	South	Total		
No.	Description	Reference	Carolina	Carolina	Company	% NC	% SC
1	Residential	Company Records	15,826,068	2,071,132	17,897,200	88.43	11.57
2	Commercial	Company Records	12,241,712	1,687,036	13,928,748	87.89	12.11
3	Industrial	Company Records	8,117,274	2,413,270	10,530,544	77.08	22.92
4	Other Public Authority	Company Records	1,407,881	48,605	1,456,486	96.66	3.34
5	Total Retail Sales subject to weather	Sum 1 through 4	37,592,935	6,220,043	43,812,978	•	
6	Lighting	Company Records	62,991	14,384	77,375	•	
7	Total Retail Sales	Line 5 + Line 6	37,655,926	6,234,427	43,890,353		

Revised Harrington Workpaper 14

DUKE ENERGY PROGRESS, LLC
North Carolina Annual Fuel and Fuel Related Expense
2019 Production Plant Allocation Factors
Docket No. E-2, Sub 1250

2019 Total Production Plant	System	NC Retail	Residential	Small GS	Med GS	Lrg GS	Ltg
All - Production Plant	17,814,384	10,700,553	5,136,941	690,924	3,136,759	1,735,929	-
NC Retail % to Total System		60.07%	28.84%	3.88%	17.61%	9.74%	0.00%
Allocation of Classes to Total NC Retail		100.00%	48.01%	6.46%	29.31%	16.22%	0.00%

DUKE ENERGY PROGRESS, LLC North Carolina Annual Fuel and Fuel Related Expense Scenario Differences Billing Period December 1, 2020 - November 30, 2021 Docket No. E-2, Sub 1250

Exhibit 2 Schedule 1: Line Loss

Line Losses	Exh 2 Sch 1 Pg 1 Ln 16	(1,906,330)	
Generation	Exh 2 Sch 1 Pg 1 Ln 10	57,521,087	
	%	-3.314%	
	Multiplier	1.033141	
Schedule 2: Proposed Nuclear Capacity Factor & N	Iormalized Sales		
Normalized Sales	Exh 4, Total Co., Ln 4	62,375,693	
Sales Forecast	Exh 2 Sch 1 Pg 1 Ln 18	61,484,301	
Difference		891,392	
Gross up for losses	Difference x Multiplier	920,934	
	MWh changes in Coal	920,934	
	MWH changes in Losses	(29,542)	
	Before Adi	Adj	Total
Total Coal MWh	7,940,674	920,934	8,861,608
Total Losses MWh	(1,906,330)	(29,542)	(1,935,872)
	6,034,345	891,392	6,925,736
	Before Adj	After Adj	Adjustment
Total Coal \$	\$ 242,921,665	\$ 271,094,943 \$	28,173,278

Schedule 3: NERC 5 year average Capacity Factor & Projected Sales

		Nuclear-MWHs	Nuclear Costs	
Nuclear	WP 1	29,730,338	\$ 184,443,928	
Nuclear - NERC Average	WP 2	28,123,601	\$ 174,475,894	
	Adjustment	(1,606,738)	\$ (9,968,034)	•
		Coal-MWH	Coal Costs	_
Coal MWh	WP 3, WP4	7,940,674	\$ 242,921,665	
Adjustment from Above	Adjustment above	1,606,738	\$ 49,153,435	(Priced at the avg Coal \$/MWH)
	_	9,547,412	\$ 292,075,099	-

DUKE ENERGY PROGRESS, LLC
North Carolina Annual Fuel and Fuel Related Expense
2.5% Calculation Test
Billing Period December 1, 2020 - November 30, 2021
Docket No. E-2, Sub 1250

Line No.	Description		Forecast \$	EMF (Over)/Under Collection \$	Total \$
1	Amount in current docket	\$	269,804,228 \$	(9,714,001)	\$ 260,090,227
2	Amount in 2019 Filing: Docket E-2 Sub 1204		281,070,708	98,879,127	379,949,835
3	Reduction in prior year docket in excess of 2.5%		-		-
4	Increase/(Decrease)	\$	(11,266,480) \$	(108,593,128)	\$ (119,859,608)
5	2.5% of 2019 NC revenue of \$3,725,835,297				93,145,882
6	Amount over 2.5%				0
		;	System Cost	Alloc %	NC Alloc. Forecast
WP 4	Purchases from Dispatchable Units	\$	43,444,341	61.59%	\$ 26,757,369
WP 4	Purchases for REPS Compliance Energy		131,543,318	61.59%	81,017,530
WP 4	Purchases for REPS Compliance Capacity		26,962,441	60.07%	16,195,509
WP 4	Purchases from Qualifying Facilities Energy		191,949,817	61.59%	118,221,892
WP 4	Purchases from Qualifying Facilities Capacity		39,344,300	60.07%	23,632,911
WP 4	Allocated Economic Purchases		6,460,492	61.59%	3,979,017
	Total	\$	439,704,709		\$ 269,804,228
		:	System Cost	Alloc %	NC Alloc. Forecast
Prior Year	Dispatchable Purchased Energy	\$	14,160,859	61.68%	\$ 8,734,418
Prior Year	Purchases for REPS Compliance Energy		168,625,939	61.68%	104,008,479
Prior Year	Purchases for REPS Compliance Capacity		34,622,728	61.00%	21,120,137
Prior Year	Purchases from Qualifying Facilities Energy		193,990,299	61.68%	119,653,216
Prior Year	Purchases from Qualifying Facilities Capacity		39,793,114	61.00%	24,274,113
Prior Year	Allocated Economic Purchases		5,318,328	61.68%	3,280,345
Prior Year	Total	\$	456,511,266		\$ 281,070,708

DUKE ENERGY PROGRESS, LLC North Carolina Annual Fuel and Fuel Related Expense 2.5% Calculation Test - Normalized Billing Period December 1, 2020 - November 30, 2021 Docket No. E-2, Sub 1250

Line No.	Description Description	EMF (Over)/Under Forecast \$ Collection \$				Total \$
1	Amount in current docket	\$	266,267,477	(9,714,001)	Ś	256,553,477
2	Amount in 2019 Filing: Docket E-2 Sub 1204	Ψ	277,600,013	98,879,127	Ψ	376,479,140
3	Reduction in prior year docket in excess of 2.5%		-	00,070,0,1		-
4	Increase/(Decrease)	\$	(11,332,535) \$	(108,593,128)	\$	(119,925,663)
5	2.5% of 2019 NC revenue of \$3,725,835,297	*	(////	(===,===,	7	93,145,882
6	Amount over 2.5%					0
			System Cost	Alloc %	r	NC Alloc. Forecast
WP 4	Purchases from Dispatchable Units	\$	43,444,341	60.64%	\$	26,345,873
WP 4	Purchases for REPS Compliance		131,543,318	60.64%		79,771,578
WP 4	Purchases for REPS Compliance Capacity		26,962,441	60.07%		16,195,509
WP 4	Purchases from Qualifying Facilities Energy		191,949,817	60.64%		116,403,782
WP 4	Purchases from Qualifying Facilities Capacity		39,344,300	60.07%		23,632,911
WP 4	Allocated Economic Purchases		6,460,492	60.64%		3,917,825
	Total	\$	439,704,709		\$	266,267,477
			System Cost	Alloc %	r	NC Alloc. Forecast
Prior Year	Dispatchable Purchased Energy	\$	14,160,859	60.77%	\$	8,605,790
Prior Year	Purchases for REPS Compliance Energy		168,625,939	60.77%		102,476,796
Prior Year	Purchases for REPS Compliance Capacity		34,622,728	61.00%		21,120,137
Prior Year	Purchases from Qualifying Facilities Energy		193,990,299	60.77%		117,891,140
Prior Year	Purchases from Qualifying Facilities Capacity		39,793,114	61.00%		24,274,113
Prior Year	Allocated Economic Purchases		5,318,328	60.77%		3,232,037
Prior Year	Total	\$	456,511,266		\$	277,600,013

Total Billed Rate

0.734

To Line 12

DUKE ENERGY PROGRESS, LLC North Carolina Annual Fuel and Fuel Related Expense 2.5% Calculation Test-Detail Calculation Test Period April 2019 - March 2020 Docket No. E-2, Sub 1250

27 Total Billed Rate

0.747

To Line 12

Line No.		Reference	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	* Dec-19	** Jan-20	Feb-20	Mar-20	9ME
1	System kWh Sales, at generation		6,468,737,186	6,380,831,838	5,974,860,872	5,105,924,864	4,553,581,442	5,276,460,182	5,306,171,314	5,041,761,389	4,713,060,944	48,821,390,032
2	NC Retail kWh Sales, at generation		3,842,248,537	3,878,902,522	3,704,042,982	3,236,522,467	2,712,147,368	3,233,250,247	3,279,885,398	3,197,824,874	2,998,084,712	30,082,909,107
3	NC Retail % of Sales	Line 2 / Line 1	59.40%	60.79%	61.99%	63.39%	59.56%	61.28%	61.81%	63.43%	63.61%	61.62%
	T. (10 ml m 2 ml m 5 ml 104											
4	Total Purchase Power, Excl. JDA		\$ 35.556.851	ć 20.042.242	ć 25.250.052	ć 24 F02 00¢	ć 27.07F.202	ć 24.000 F04	ć 24.574.460	ć 26.770.402. ć	25 204 020	200 452 207
•	System Purchase Power, Excl. JDA			\$ 39,043,313							25,291,830	
5	NC Purchase Power	Line 4 * Line 3	\$ 21,119,772								16,088,705	
6	NC Retail kWh Sales	= (3,688,282,391	3,723,368,929	3,556,134,030	3,108,120,473	2,604,857,399	3,103,485,292	3,148,281,345	3,069,536,495	2,878,563,877	28,880,630,231
7	NC Incurred Rate	Line 5 / Line 6 * 100	0.573	0.637	0.615	0.642	0.619	0.476	0.482	0.553	0.559	0.574
	Total Capacity											
8	System Capacity		\$ 13,242,560	\$ 13,425,999	\$ 10,199,593	\$ 4,988,974	\$ 4,601,300	\$ 3,750,610	\$ 4,806,509	\$ 4,966,513 \$	3,670,419	\$ 63,652,477
	NC Capacity (Avg Monthly NC % of System											
9	Sales for the Period Presented on WP 18)	61.24%	\$ 8.109.483	\$ 8,221,817	\$ 6,246,029	\$ 3.055.149	\$ 2.817.746	\$ 2.296.799	\$ 2,943,411	\$ 3,041,395 \$	2.247.692	\$ 38,979,522
10	NC Incurred Rate	Line 9/Line 6*100	0.220	0.221	0.176	0.098	0.108	0.074	0.093	0.099	0.078	0.135
10	Ne incurred kate	Line 9/Line 6 100	0.220	0.221	0.176	0.098	0.106	0.074	0.093	0.099	0.078	0.155
11	Total NC Incurred Rate	Line 7 + Line 10	0.792	0.858	0.790	0.741	0.727	0.550	0.576	0.652	0.637	0.709
12	Billed Rate	Billed Rates Below	0.747	0.747	0.747	0.747	0.747	0.742	0.734	0.734	0.734	
13	(Over)/Under cents per kwh	Line 131- Line 12	0.045	0.111	0.043	(0.007)	(0.020)	(0.193)	(0.159)	(0.082)	(0.097)	
14	(Over)/Under \$	Line 6 * Line 13 /100	\$ 1,663,127	\$ 4,127,852	\$ 1,520,420	\$ (205,995)	\$ (524,644)	\$ (5,975,358)	\$ (4,990,334)	\$ (2,523,523) \$	(2,805,545)	\$ (9,714,001)
Billed Rate from Docket E-2, Sub 1173 - Jul'19-Nov'19 * December billed rate is based on prorated billing factors							-	Billed Rate from Docket E-2 Purchases from	., 3ub 1204 - Dec 15-i	viai 20		
	Purchases from Dispatchable Units &						New Bill Rate (Sub	December		Dispatchable Units &		
15	Economic Purchases	91,098,502	2018 Ward WP4			Prior Bill Rate (Sub 1173)	1204)	Blended Rate		Economic Purchases	19,479,187 2	019 Harrington WP4
16	Total MWH Sales	68,667,857	2018 Ward WP3		Approved Rates	0.747	0.734	Dictional flate		Total MWH Sales		019 Harrington WP3
10	10tal WW11 Sales 08,007,837 2018 Wald WF 3		•			0.751			Billed Rate for	02,133,313	o 25 marmigeon VV 5	
17	Billed Rate for Purchases	0.133			Ratios of Days to rate	59.52%	40.48%		ok	Purchases	0.031	
					Prorated Rate	0.445	0.297	0.742	To Line 12			
18	Renewables (energy)	187,595,597	2018 Ward WP4							Renewables (energy)	168,625,939 2	019 Harrington WP4
19	Total MWH Sales	68,667,857	2018 Ward WP3							Total MWH Sales		019 Harrington WP3
			_							Billed Rate for		<u> </u>
20	Billed Rate for Renewables	0.273								Renewables	0.271	
	** January billed rate is based on prorated billing factors											
21	QF Purchases (energy)	162,649,793	2018 Ward WP4							QF Purchases (energy)		019 Harrington WP4
22	Total MWH Sales	68,667,857	2018 Ward WP3							Total MWH Sales	62,155,919 2	019 Harrington WP3
						n	New Bill Rate (Sub	January		Billed Rate for		
23	Billed Rate for Renewables	0.237				Prior Bill Rate (Sub 1173)	1204)	Blended Rate		Renewables	0.312	
					Approved Rates	0.747	0.734					
24	Capacity (REPS and QF)	71,877,910	2018 Ward WP4		Ratios of Days to rate	0.190%	99.81%		ok	Capacity (REPS and QF)	74,415,842 2	019 Harrington WP4
25	Total MWH Sales	68.667.857	2018 Ward WP3		Prorated Rate	0.001	0.733	0.734	To Line 12	Total MWH Sales		019 Harrington WP3
26	Billed Rate for Capacity	0.105				0.002				Billed Rate for Capacity	0.120	