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August 28, 2023

#### VIA ELECTRONIC FILING

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

#### RE: Duke Energy Progress, LLC's Supplemental Testimony Docket No. E-2, Sub 1321

Dear Ms. Dunston:

Please find enclosed Duke Energy Progress, LLC's Supplemental Testimony, Revised Exhibits and Workpapers of Dana M. Harrington, in the above-referenced proceeding.

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

Sincerely,

Jadan Jood

Ladawn S. Toon

Enclosures

cc: Parties of Record

#### **CERTIFICATE OF SERVICE**

I certify that a copy of Duke Energy Progress, LLC's Supplemental Testimony, Revised Exhibits and Workpapers, in Docket No. E-2, Sub 1321, has been served by electronic mail, hand delivery or by depositing a copy in the United States mail, postage prepaid to the parties of record.

This the 28<sup>th</sup> day of August, 2023.

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Ladawn S. Toon Associate General Counsel Duke Energy Corporation P.O. Box 1551/NCRH 20 Raleigh, North Carolina 27602 Tel: 919.546.7971 ladawn.toon@duke-energy.com

#### STATE OF NORTH CAROLINA UTILITIES COMMISSION RALEIGH

#### DOCKET NO. E-2, SUB 1321

#### BEFORE THE NORTH CAROLINA UTILITIES COMMISSION

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	)	

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#### Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.

- A. My name is Dana M. Harrington and my business address is 525 South Tryon
  Street, Charlotte, North Carolina ("NC").
- 4 Q. HAVE YOU PREVIOUSLY FILED TESTIMONY IN THIS
  5 PROCEEDING?
- A. Yes, on June 13, 2023, I caused to be pre-filed with the Commission direct
  testimony including eight exhibits and seventeen supporting workpapers on
  behalf of Duke Energy Progress, LLC's ("DEP" or "the Company").
- 9 Q. YOUR SUPPLEMENTAL TESTIMONY INCLUDES SIX REVISED
  10 EXHIBITS AND NINE REVISED WORKPAPERS. WERE THESE
  11 SUPPLEMENTAL EXHIBITS AND WORKPAPERS PREPARED BY
  12 YOU?
- A. Yes. These revised exhibits and workpapers were prepared by me and consist ofthe following:
- Revised Harrington Exhibit 1: Summary Comparison of Fuel and Fuel-Related
   Costs Factors.
- Revised Harrington Exhibits 2A, 2B, and 2C: Fuel and Fuel-Related Costs Factors
   reflecting a 92.27% proposed nuclear capacity factor and projected billing period
   megawatt hour ("MWh") sales.
- Revised Harrington Exhibit 3A: Calculation of Proposed Composite Experience
   Modification Factor ("EMF").
- Revised Harrington Exhibit 3B: Calculation of Proposed EMF for Residential

- 1 customers.
- Revised Harrington Exhibit 3C: Calculation of Proposed EMF for Small General
   Service customers.
- Revised Harrington Exhibit 3D: Calculation of Proposed EMF for Medium
  General Service customers.
- Revised Harrington Exhibit 3E: Calculation of Proposed EMF for Large General
  Service customers.
- Revised Harrington Exhibit 3F: Calculation of Proposed EMF for Lighting
  customers.
- Revised Harrington Exhibit 4: Normalized Test Period MWh Sales, Fuel and
   Fuel-Related Revenue, Fuel and Fuel-Related Expense, and System Peak.
- Revised Harrington Exhibits 6A, 6B, and 6C: Fuel and Fuel-Related Costs Factors
   reflecting a 92.27% proposed nuclear capacity factor and normalized test period
   MWh sales.
- Revised Harrington Exhibits 7A, 7B, and 7C: Fuel and Fuel-Related Costs Factors
   reflecting a 93.92% North American Electric Reliability Corporation ("NERC")
   five-year national weighted average nuclear capacity factor for comparable units
   and projected billing period MWh sales.
- Revised Harrington Workpaper 3: North Carolina Generation in MWhs for the
  Billing Period.
- Revised Harrington Workpaper 4: North Carolina Fuel Costs for the Billing Period
- Revised Harrington Workpaper 8: Projected Billing Period MWh Sales at Meter
   and at Generation

1	•	Revised Harrington Workpaper 9: Normalized MWh Sales at Meter and at
2		Generation for the Billing Period
3	•	Revised Harrington Workpaper 9a: Weather Adjustment – MWh
4	•	Revised Harrington Workpaper 10: Projected MWh Sales at Meter and Generation
5		– NERC 5-year Average
6	•	Revised Harrington Workpaper 13: 2022 Production Demand Allocation Factors
7	•	Revised Harrington Workpaper 14: Scenario Differences for the Billing Period
8	•	Revised Harrington Workpaper 15: 2.5% Calculation Test – Projected Sales
9	•	Revised Harrington Workpaper 16: 2.5% Calculation Test – Normalized Sales
10	Q.	WHAT IS THE PURPOSE OF YOUR SUPPLEMENTAL TESTIMONY
11	Ľ	IN THIS PROCEEDING?
12	A.	The purpose of my testimony is to make four adjustments to the proposed rates in this
13		proceeding. The four adjustments are as follows: (1) adjust the weather normalization
14		computation to be consistent with the methodology adopted by the Commission in the
15		Company's most recent general rate case, (2) allocate purchase power capacity costs
16		as ordered by the Commission in the Company's most recent general rate case, (3)
17		adjust billing period projections consistently with an update in the pending Renewable
18		Energy Portfolio Standard ("REPS") docket, and (4) adjust the North Carolina retail
19		share of replacement power costs associated with a Robinson Nuclear Station outage.
20		These updates have a net impact of reducing the proposed rates in this proceeding.
21		Weather Normalization Adjustment:
22		To eliminate duplicative work, the Company implemented improvements to

the weather normalization computation; however, the new methodology has not yet
been adopted by the Commission in a general rate case. The adjustment in this
supplemental filing simply returns to the methodology to that approved in DEP's
general base rates Order in Docket E-2, Sub 1300. This update is reflected on Revised
Harrington Exhibits 1, 2B, 2C, 3A-3F, 4, 6B, 6C, 7B, and 7C, and Revised Harrington
Workpapers 9, 9a, 14, and 16.

#### 7 Production Demand Allocation Factor Adjustment:

In the DEP's previous general rate case Order in Docket E-2, Sub 1219, the 8 9 parties agreed on production plant as an appropriate allocation factor for purchased 10 power capacity costs. The DEP general rate case Order in Docket E-2, Sub 1300 filed on August 18, 2023 ruled differently stating, "the Commission finds and concludes 11 12 that the same production demand allocation method approved for production demand 13 costs in this case using the 12 CP [coincident peak] methodology at NC retail and the Modified A&E [Average & Excess] methodology for NC retail classes is the most 14 appropriate methodology for allocating purchased power capacity costs in DEP's 15 annual fuel proceeding." Replacing the 2022 production plant allocation factor with 16 17 the 2022 production demand allocation factor is reflected on Revised Harrington 18 Exhibits 1, 2B, 2C, 6B, 6C, 7B, and 7C, and Revised Harrington Workpapers 13, 15, 19 and 16.

#### 20 **REPS Adjustment:**

The supplemental testimony of Company Witness Veronica I. Williams, filed on August 24, 2023 in REPS Rider Docket E-2, Sub 1320, states, "The second update comprises adjustments to estimated avoided costs related to three energy/capacity and

1	renewable energy certificate contracts included in the December 1, 2023 through
2	November 30, 2024 billing period ("Billing Period") cost projections. The Company
3	corrected estimated avoided cost rates assumed in the projected avoided and
4	incremental cost totals and replaced them with the accurate avoided cost rates related
5	to the underlying power purchase agreements. The result is an increase in projected
6	avoided cost and an equal and offsetting decrease in incremental REPS compliance
7	cost included for recovery in the proposed riders". In alignment with this update,
8	the REPS purchase power projected megawatt-hours ("MWhs") and avoided costs for
9	the billing period are updated in this supplemental filing. Adopting the REPS updated
10	projection in the fuel rider filing results in a billing period increase in projected REPS
11	purchased power MWhs and a respective decrease in projected coal MWhs. The
12	higher price per MWh coal cost compared to the price per MWh for equivalent REPS
13	energy results in a net decrease in total projected billing period fuel costs. This update
14	is reflected on Revised Harrington Exhibits 1, 2A, 2B, 2C, 6A, 6B, 6C, 7A, 7B, and
15	7C, and Revised Harrington Workpapers 3, 4, 8, 9, 10, 14, 15, and 16.

16 **Replacement Power Cost Adjustment:** 

17After discussions with the Public Staff on a Robinson Nuclear Station outage, which18spanned 12/30/2022 – 1/1/2023, the Company and Public Staff agree that a \$300,000 credit19to the North Carolina retail share of system fuel expense in this case is a reasonable adjustment20to the replacement power costs incurred as a result of the outage. This adjustment is reflected21on Revised Harrington Exhibits 1, 2B, 2C, 3A, 6B, 6C, 7B and 7C and is further itemized by22customer class according to December 2022 MWh sales on Revised Harrington Exhibits 3B-233F.

# 1Q.WHAT IS THE RATE IMPACT OF THESE UPDATES TO NORTH2CAROLINA RETAIL CUSTOMERS?

A. The decrease reflected in the supplemental proposed rates from rates proposed in the initial filing ranges from .02% to .05%. The impact of each update by customer class is presented on the table below:

		Small	Medium	Large		
		General	General	General	Lighting	
	Residential	Service	Service	Service		
	cents/kWh	cents/kWh	cents/kWh	cents/kWh	cents/kWh	
Proposed rates per the Company application	4.074	4.335	3.654	3.362	5.734	
Weather normalization update	0.008	0.011	0.007	0.004	0.020	
Production demand allocation factor update	0.001	0.001	0.001	0.000	0.003	
REPS projection update - impact to purchased power	0.012	0.015	0.009	0.007	0.029	
REPS projection update - impact to coal	-0.021	-0.027	-0.017	-0.011	-0.052	
Replacement power adjustment	-0.001	-0.001	-0.001	-0.001	-0.003	
Supplemental proposed rates after updates	4.073	4.334	3.653	3.361	5.731	
Proposed rate decrease from initial filing	-0.02%	-0.02%	-0.03%	-0.03%	-0.05%	

## 7 Q. WHAT ARE THE UPDATED FUEL AND FUEL-RELATED COST

## 8 FACTORS DEP IS PROPOSING FOR INCLUSION IN RATES FOR THE

### 9 **BILLING PERIOD?**

# 10 A. The components of the updated proposed fuel and fuel-related cost factors by customer 11 class, as shown on Revised Harrington Exhibit 1 in cents per kWh, are:

		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	2.882	3.284	2.563	2.112	4.051
EMF Increment/(Decrement)	1.191	1.050	1.090	1.249	1.680
Proposed Net Fuel and Fuel-Related Costs Factors	4.073	4.334	3.653	3.361	5.731

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## 1 Q. DOES THIS CONCLUDE YOUR PRE-FILED SUPPLEMENTAL

- 2 **TESTIMONY**?
- 3 A. Yes, it does.

#### 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, 2023 Billing Period December 1, 2023 - November 30, 2024 Docket No. E-2, Sub 1321

Line No.	Description	Reference	Residential cents/kWh	Small General Service cents/kWh	Medium General Service cents/kWh	Large General Service cents/kWh	Lighting cents/kWh
	·						
	Current Fuel and Fuel-Related Cost Factors (Approved Fuel Rider Docket No. E-2, Sub 129	<u>92)</u>					
1	Approved Fuel and Fuel-Related Costs Factors	Input	2.808	3.097	2.580	2.138	3.376
2	EMF Increment / (Decrement)	Input	0.649	0.449	0.586	0.898	0.834
3	EMF Interest Decrement cents/kWh, if applicable	n/a	-	-	-	-	-
4	Approved Net Fuel and Fuel-Related Costs Factors	Sum	3.457	3.546	3.166	3.036	4.210
	Other Fuel and Fuel-Related Cost Factors						
5	Proposed Nuclear Capacity Factor of 92.27% with Normalized Test Period MWh Sales	Exh 6C	4.050	4.239	3.614	3.365	5.793
6	NERC Capacity Factor of 93.92% with Projected Billing Period MWh Sales	Exh 7C	4.037	4.288	3.625	3.342	5.642
	Proposed Fuel and Fuel-Related Cost Factors using Proposed Nuclear Capacity Factor of	92.27% with Projected Billing	Period MWh	Sales			
7	Fuel and Fuel-Related Costs excluding Purchased Capacity	Exh 2B	2.740	2.779	2.532	2.048	3.940
8	Renewable and Qualifying Facilities Purchased Power Capacity	Exh 2B	0.142	0.505	0.031	0.064	0.111
9	Total adjusted Fuel and Fuel-Related Costs Factors	Sum	2.882	3.284	2.563	2.112	4.051
10	EMF Increment/(Decrement)	Exh 3B, 3C, 3D, 3E, 3F	1.191	1.050	1.090	1.249	1.680
11	EMF Interest Decrement, if applicable	n/a	-	-	-	-	-
12	Proposed Net Fuel and Fuel-Related Costs Factors	Sum Lines 9:11	4.073	4.334	3.653	3.361	5.731

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 92.27% with Projected Billing Period MWh Sales Billing Period December 1, 2023 - November 30, 2024 Docket No. E-2, Sub 1321

Line No.	Unit	Reference	Generation (MWh)	Unit Cost (cents/kWh)	Total System Cost (\$)	Remove impact of SC DERP Net Metered Generation Impact on System Avg Fuel (\$)	System Capacity Cost (\$)	System Fuel (Non-Capacity) Cost (\$)
			Α	C/A/10=B	С	D	E	F = C + D - F
1	Total Nuclear	Workpaper 3-4	29,122,107	0.6113 \$	178,009,922			\$ 178,009,922
2	Coal	Workpaper 3 - 4	5,967,395	4.3261	258,155,544			258,155,544
3	Gas - CT and CC	Workpaper 3 - 4	24,747,254	3.7763	934,531,959			934,531,959
4	Reagents & Byproducts	Workpaper 5	-		43,993,340			43,993,340
5	SC DERP Net Metering Impact on System Avg Fuel	Workpaper 10				\$ 851,357		851,357
6	Total Fossil	Sum of Lines 2 - 5	30,714,649		1,236,680,843	851,357		1,237,532,200
7	Hydro	Workpaper 3	720,836					
8	Net Pumped Storage		-		-			-
9	Total Hydro	Sum of Lines 7-8	720,836		-			-
10	Utility Owned Solar Generation	Workpaper 3	270,472				•	
11	Total Generation	Line 1 + Line 6 + Line 9 + Line 10	60,828,064		1,414,690,765	851,357		1,415,542,122
12	Purchases	Workpaper 3 - 4	12,190,519		569,693,792		\$ 69,735,560	499,958,232
13	JDA Savings Shared	Workpaper 4	-		(114,205,606)			(114,205,606)
14	Total Purchases	Sum of Lines 12 - 13	12,190,519		455,488,186		69,735,560	385,752,626
15	Total Generation and Purchases	Line 11 + Line 14	73,018,583		1,870,178,951	851,357	69,735,560	1,801,294,748
16	Fuel expense recovered through intersystem sales	Workpaper 3 - 4	(7,601,020)		(204,822,948)			(204,822,948)
17	Line losses and Company use	Line 19 - Line 15 - Line 16	(2,185,868)		-			-
18	System Fuel Expense for Fuel Factor	Line 15 + Line 16		\$	1,665,356,003	\$ 851,357	\$ 69,735,560	\$ 1,596,471,800
19	Projected System MWh Sales at Meter for Fuel Factor	Workpaper 3	63,231,695		63,231,695			
20	Fuel and Fuel-Related Costs cents/kWh	Line 18 /Line 19 / 10			2.634			

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 92.27% with Projected Billing Period MWh Sales Billing Period December 1, 2023 - November 30, 2024 Docket No. E-2, Sub 1321

Docket No. I	-2, 300 1321				General	General	General		
Line No.	Description		F	Residential	Service Small	Service Medium	Service Large	Lighting	Total
1	NC Retail Projected Billing Period MWh Sales at Meter	Workpaper 8		17,326,377	1,816,847	10,471,370	9,239,420	384,646	39,238,661
Calculation	of Renewable and Qualifying Facilities Purchased Power Capacity Rate by Class								Amount
2	Renewable Purchased Power Capacity	Workpaper 4						\$	22,836,104
3	Purchases from Qualifying Facilities Capacity	Workpaper 4						_	46,899,456
4	Total of Renewable and Qualifying Facilities Purchased Power Capacity	Line 2 + Line 3						\$	69,735,560
5	NC Portion - Jurisdictional % based on Production Demand Allocator	Workpaper 13							62.12%
6	NC Renewable and Qualifying Facilities Purchased Power Capacity	Line 4 * Line 5						\$	43,318,886
7	Production Demand Allocation Factors	Workpaper 13		56.63%	21.17%	7.49%	13.72%	0.99%	100.000%
8	Renewable and Qualifying Facilities Purchased Power Capacity allocated on Production Demand %	Line 6 * Line 7	\$	24,533,134 \$	9,172,105 \$	3,243,912 \$	5,942,165 \$	427,570 \$	43,318,886
9	Renewable and Qualifying Facilities Purchased Power Capacity cents/kWh based on Projected Billing Period								
5	Sales at Meter	Line 8 / Line 1 / 10		0.142	0.505	0.031	0.064	0.111	0.110
Billed Rates			c	cents/kWh	cents/kWh	cents/kWh	cents/kWh	cents/kWh	
10	Fuel and Fuel-Related Costs excluding Renewable and Qualifying Facilities Purchased Power Capacity	Line 15 - Line 11 - Line 13 -							
10	cents/kWh	Line 14		2.740	2.779	2.532	2.048	3.940	
11	Renewable and Qualifying Facilities Purchased Power Capacity cents/kWh	Line 9		0.142	0.505	0.031	0.064	0.111	
12	Total adjusted Fuel and Fuel-Related Costs cents/kWh	Line 10 + Line 11		2.882	3.284	2.563	2.112	4.051	
13	EMF Increment/(Decrement) cents/kWh	Exh 3B, 3C, 3D, 3E, 3F		1.191	1.050	1.090	1.249	1.680	
14	EMF Interest Increment/(Decrement) cents/kWh	Exh 3B, 3C, 3D, 3E, 3F		-	-	-	-	-	

4.073

4.334

3.653

3.361

5.731

Exh 2C

15 Net Fuel and Fuel-Related Costs Factors cents/kWh

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 92.27% with Projected Billing Period MWh Sales Billing Period December 1, 2023 - November 30, 2024 Docket No. E-2, Sub 1321

Aug 28 2023

					Allocate Fuel Cos	sts	Uniform Percentage Increase/Decrease as	Total Fuel Rate	Current Total Fuel Rate (including renewables	Proposed Total Fuel Rate (including
		NC Retail Projected Billing Period MWh Sales	at	Annual Revenue at	Increase/(Decrease		% of Annual Revenue	Increase/(Decrease)	and EMF) E-2, Sub 1292	
Line No.	Rate Class	Meter A		Current rates B	Customer Class	s	at Current Rates	cents/kWh	cents/kWh	cents/kWh
		A		в	L		D	L If D=0 then 0 if not then	F	G
		Worksons 9		Workpaper 12	Line 27 as a % of Col	luman D	С/В	(C*100)/(A*1000)	Exhibit 1, Line 4	E + F = G
		Workpaper 8		workpaper 12	Line 27 as a % of Col	Iumn B	С/В	(C 100)/(A 1000)	Exhibit 1, Line 4	E+F=G
1	Residential	17,326,3	377 \$	2,086,401,509	\$ 106,73	37.148	5.1%	0.616	3.457	4.073
2	Small General Service	1,816,8		279,731,721		10,652	5.1%	0.788		4.334
3	Medium General Service	10,471,3		997,768,827		14,345	5.1%	0.487	3.166	3.653
4	Large General Service	9,239,4		586,849,332		22,325	5.1%	0.325	3.036	3.361
5	Lighting	384,0	<u>646</u>	114,358,945	5,85	50,431	5.1%	1.521	4.210	5.731
6	NC Retail	39,238,0								
	Total Proposed Composite Fuel Rate:									
7	Adjusted System Total Fuel Costs	Workpaper 8	\$	1,666,207,360						
8	System Renewable and Qualifying Facilities Purchased Power Capacity	Exhibit 2B		69,735,560	_					
9	Adjusted System Other Fuel Costs	Line 7 - Line 8	\$	1,596,471,800	-					
10	NC Retail Allocation % - sales at generation	Workpaper 8		62.17%						
11	NC Retail Other Fuel Costs	Line 9 * Line 10	\$	992,500,334						
12	NC Renewable and Qualifying Facilities Purchased Power Capacity	Exhibit 2B		43,318,886						
13	NC Retail Total Fuel Costs before 2.5% Purchase Power Test	Line 11 + Line 12	\$	1,035,819,220	-					
14	NC Retail Reduction due to 2.5% Purchased Power Test	Workpaper 15		-						
15	NC Retail Total Fuel Costs	Line 13 + Line 14	\$	1,035,819,220	-					
16	NC Projected Billing Period MWh Sales - at meter	Line 6, col A		39,238,661						
17	Calculated Fuel Rate cents/kWh	Line 15 / Line 16 / 10		2.640						
18	Proposed Composite EMF Rate cents/kWh	Exhibit 3A		1.173						
19	Proposed Composite EMF Rate Interest cents/kWh	Exhibit 3A	_	0.000	-					
20	Total Proposed Composite Fuel Rate	Sum of Lines 17-19		3.813						
	Total Current Composite Fuel Rate - Docket E-2 Sub 1292:									
21	Current composite Fuel Rate cents/kWh	2022 Revised Harrington Exh 2, Sch 1, Pg 3, Ln 17		2.606						
22	Current composite EMF Rate cents/kWh	2022 Revised Harrington Exh 2, Sch 1, Pg 3, Lh 17 2022 Revised Harrington Exh 2, Sch 1, Pg 3, Lh 18		0.677						
23	Current composite EMF Interest cents/kWh	2022 Revised Harrington Exh 2, Sch 1, Pg 3, Lh 19		0.000						
23	Total Current Composite Fuel Rate	Sum of Lines 21-23		3.283	-					
	··· ·· · · · · · · · · · · · · · · · ·									
25	Increase/(Decrease) in Composite Fuel rate cents/kWh	Line 20 - Line 24		0.530						
26	NC Projected Billing Period MWh Sales - at meter	Line 6, col A		39,238,661						
27	Increase/(Decrease) in Fuel Costs	Line 25 * Line 26 * 10	\$	207,964,901						
	Netes									

Notes: Rounding differences may occur Calculation of Uniform Percentage Average Bill Adjustment by Customer Class

#### Duke Energy Progress, LLC North Carolina Annual Fuel and Fuel Related Expense Calculation of Proposed Composite Experience Modification Factor Twelve Months Ended March 31, 2023 Docket No. E-2, Sub 1321

Totals may not foot due to rounding.

[1] April - June 2022 were remitted in fuel Docket E-2, Sub 1292 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.

		Fuel Cost Incurred ¢/ kWh	Fuel Cost Billed ¢/ kWh	NC Retail MWh Sales	Reported (Over)/Under Recovery	Reported Adjustments	•	oorted Adjusted (Over)/Under Recovery
Line	<b>.</b>	(a)	(b)	(c)	(d)	(e)		(f)
<u>No.</u>	Month April 2022 (Sub 1272) Note [1]	1.810	2.107	2,706,029	\$ (8,047,596)		Ś	(8,047,596)
1 2	May Note [1]	2.934	2.107	2,706,029 2,812,712		-	Ş	(8,047,596) 23,246,955
2		3.009	2.108	3,321,951	23,246,955 29,811,103	-		29,811,103
5 4		3.645				-		
•	July		2.115	3,419,268	52,301,731	-		52,301,731
5	August	4.198	2.106	4,099,684	85,736,446	-		85,736,446
6 7	September	3.675	2.111	3,183,783	49,781,668	-		49,781,668
,	October	2.850	2.105	3,041,548	22,667,074	- ¢ 5 600 600		22,667,074
8	November	3.415	2.105	2,503,196	32,790,468			38,489,156
9	December (New Rates - Sub 1292)	5.918	2.351	3,149,379	112,312,466	539,142		112,851,608
10	January 2023	3.911	2.630	3,521,586	45,139,143	-		45,139,143
11	February	3.451	2.617	2,938,692	24,505,813	-		24,505,813
12	March	2.875	2.605	2,872,764	7,750,065	1,740,010	<u> </u>	9,490,075
13	Total Test Period Note [1]			37,570,593	477,995,334	\$ 7,977,840	\$	485,973,174
14	Booked 12-month (Over) / Under Recovery						\$	485,973,174
15	Adjustment to exclude Under Recovery - April - June 2022 Note	[1]						(45,010,462)
16	Total 9-month (Over) / Under Recovery						\$	440,962,712
17	Adjustment to exclude test period by-product net gain/loss ac	crued expense per Docket N	lo. E-2 Sub 1204 Orc	ler				(1,187,755)
18	Adjustment to include test period by-product net gain/loss ca	sh payments per Docket No	. E-2 Sub 1204 Orde	r				5,304,883
19	Replacement power cost adjustment							(300,000)
20	Total Adjusted (Over) / Under Recovery Request						\$	444,779,840
21	Normalized Test Period MWh Sales at Meter	Exhibit 4						37,911,173
22	Experience Modification Increment / (Decrement) cents/KWh							1.173
	Notes:							

#### Duke Energy Progress, LLC North Carolina Annual Fuel and Fuel Related Expense Calculation of Proposed Experience Modification Factor - Residential Twelve Months Ended March 31, 2023 Docket No. E-2, Sub 1321

Line		Fuel Cost Incurred ¢/ kWh (a)	Fuel Cost Billed ¢/ kWh (b)	NC Retail MWh Sales (c)	Reported (Over)/Under Recovery (d)	Reported Adjustments (e)	-	orted Adjusted Over)/Under Recovery (f)
No.	Month	(4)	()	(0)	()	(0)		(.)
1	April 2022 (Sub 1272) Note [1]	2.075	2.126	1,034,632	\$ (523,263)		\$	(523,263)
2	May Note [1]	3.431	2.126	1,053,526	13,749,962			13,749,962
3	June Note [1]	3.083	2.126	1,421,829	13,609,122			13,609,122
4	July	3.448	2.126	1,578,435	20,868,153			20,868,153
5	August	4.271	2.126	1,759,983	37,756,691			37,756,691
6	September	3.514	2.126	1,458,490	20,250,974			20,250,974
7	October	3.792	2.126	996,814	16,611,094			16,611,094
8	November	3.900	2.126	954,716	16,934,016	\$ 2,473,099		19,407,115
9	December (New Rates - Sub 1292)	5.817	2.467	1,491,632	49,980,728	1,518,154		51,498,882
10	January 2023	3.694	2.807	1,736,497	15,397,228			15,397,228
11	February	3.516	2.808	1,345,286	9,520,003			9,520,003
12	March	3.208	2.808	1,203,095	4,810,688	755,125		5,565,813
13	Total Test Period Note [1]		-	16,034,936	\$ 218,965,396	\$ 4,746,378	\$	223,711,774
14	Booked 12-month (Over) / Under Recovery						\$	223,711,774
15	Adjustment to exclude Under Recovery - April - June 2022 Note [1]							(26,835,821)
16	Total 9-month (Over) / Under Recovery						\$	196,875,953
17	Adjustment to exclude test period by-product net gain/loss accrued expe	ense per Docket No. E-2	Sub 1204 Order					(497,424)
18	Adjustment to include test period by-product net gain/loss cash paymer	nts per Docket No. E-2 Su	ub 1204 Order					2,221,651
19	Replacement power cost adjustment							(142,088)
20	Total Adjusted (Over) / Under Recovery Request						\$	198,458,092
21	Normalized Test Period MWh Sales at Meter	Exhibit 4						16,660,473
22	Experience Modification Increment (Decrement) cents/KWh							1.191
	Notes:							

Totals may not foot due to rounding.

[1] April - June 2022 were remitted in fuel Docket E-2, Sub 1292 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 Proposed Experience Modification Factor - Small General Service Twelve Months Ended March 31, 2023 Docket No. E-2, Sub 1321

Line		Fuel Cost Incurred ¢/ kWh (a)	Fuel Cost Billed ¢/ kWh (b)	NC Retail MWh Sales (c)	Reported (Over)/Under Recovery (d)	eported ustments (e)	-	orted Adjusted Over)/Under Recovery (f)
No.	Month							
1	April 2022 (Sub 1272) Note [1]	1.773	2.111	130,126			\$	(439,416)
2	May Note [1]	2.795	2.111	138,851	949,126			949,126
3	June Note [1]	2.688	2.111	175,258	1,011,379			1,011,379
4	July	3.179	2.111	183,338	1,958,161			1,958,161
5	August	3.852	2.111	209,058	3,639,102			3,639,102
6	September	2.983	2.111	184,495	1,609,481			1,609,481
7	October	2.871	2.111	140,859	1,069,890			1,069,890
8	November	3.246	2.111	122,551	1,391,235	\$ 263,449		1,654,684
9	December (New Rates - Sub 1292)	6.527	2.566	158,674	6,286,105	79,541		6,365,645
10	January 2023	4.344	3.087	176,248	2,216,080			2,216,080
11	February	3.876	3.097	145,547	1,134,318			1,134,318
12	March	3.209	3.095	143,355	162,472	80,438		242,910
13	Total Test Period Note [1]			1,908,360	\$ 20,987,933	\$ 423,428	\$	21,411,361
14	Booked 12-month (Over) / Under Recovery						\$	21,411,361
15	Adjustment to exclude Under Recovery - April - June 2022 Note [1]							(1,521,089)
16	Total 9-month (Over) / Under Recovery						\$	19,890,272
17	Adjustment to exclude test period by-product net gain/loss accrued exp	ense per Docket No. E-2	Sub 1204 Order					(59,271)
18	Adjustment to include test period by-product net gain/loss cash payme	nts per Docket No. E-2 Su	ub 1204 Order					264,721
19	Replacement power cost adjustment							(15,115)
20	Total Adjusted (Over) / Under Recovery Request						\$	20,080,608
21	Normalized Test Period MWh Sales at Meter	Exhibit 4						1,911,733
22	Experience Modification Increment (Decrement) cents/KWh							1.050
	Notes:							

Totals may not foot due to rounding.

[1] April - June 2022 were remitted in fuel Docket E-2, Sub 1292 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 Proposed Experience Modification Factor - Medium General Service Twelve Months Ended March 31, 2023 Docket No. E-2, Sub 1321

Line		Fuel Cost Incurred ¢/ kWh (a)	Fuel Cost Billed ¢/ kWh (b)	NC Retail MWh Sales (c)	Reported (Over)/Under Recovery (d)	Reported djustments (e)	-	orted Adjusted Over)/Under Recovery (f)
No.	Month	1.500	2.462	050.400	<i>•</i> (1 000 070)	 		(4.000.070)
1	April 2022 (Sub 1272) Note [1]	1.596	2.169	852,188			\$	(4,886,973)
2	May Note [1]	2.535	2.169	903,745	3,303,812			3,303,812
3	June Note [1]	2.815	2.169	986,113	6,365,331			6,365,331
4	July	3.410	2.169	1,013,671	12,574,655			12,574,655
5	August	4.480	2.169	1,065,441	24,618,962			24,618,962
6	September	3.776	2.169	860,146	13,819,336			13,819,336
7	October	2.383	2.169	1,008,398	2,158,330			2,158,330
8	November	3.215	2.169	736,666	7,709,657	\$ 1,577,442		9,287,099
9	December (New Rates - Sub 1292)	5.719	2.330	872,819	29,576,756	(1,255,353)		28,321,403
10	January 2023	4.225	2.567	873,111	14,480,275			14,480,275
11	February	3.586	2.579	756,941	7,618,878			7,618,878
12	March	2.638	2.572	837,366	550,329	481,646		1,031,975
13	Total Test Period Note [1]		-	10,766,603	\$ 117,889,348	\$ 803,735	\$	118,693,083
14	Booked 12-month (Over) / Under Recovery						\$	118,693,083
15	Adjustment to exclude Under Recovery - April - June 2022 Note [1]							(4,782,171)
16	Total 9-month (Over) / Under Recovery						\$	113,910,912
17	Adjustment to exclude test period by-product net gain/loss accrued exp	ense per Docket No. E-2	Sub 1204 Order					(346,212)
18	Adjustment to include test period by-product net gain/loss cash payment	nts per Docket No. E-2 Su	ub 1204 Order					1,546,290
19	Replacement power cost adjustment	•						(83,142)
20	Total Adjusted (Over) / Under Recovery Request						\$	115,027,848
21	Normalized Test Period MWh Sales at Meter	Exhibit 4						10,553,483
22	Experience Modification Increment (Decrement) cents/KWh							1.090
	Notes:							

Totals may not foot due to rounding.

[1] April - June 2022 were remitted in fuel Docket E-2, Sub 1292 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 Proposed Experience Modification Factor - Large General Service Twelve Months Ended March 31, 2023 Docket No. E-2, Sub 1321

Line		Fuel Cost Incurred ¢/ kWh (a)	Fuel Cost Billed ¢/ kWh (b)	NC Retail MWh Sales (c)	Reported (Over)/Under Recovery (d)	Reported Adjustments (e)	-	oorted Adjusted (Over)/Under Recovery (f)
No.	Month							
1	April 2022 (Sub 1272) Note [1]	1.715	2.020	654,388			\$	(1,995,062)
2	May Note [1]	2.775	2.019	683,231	5,159,754			5,159,754
3	June Note [1]	3.219	2.020	710,869	8,520,806			8,520,806
4	July	4.669	2.019	617,224	16,353,710			16,353,710
5	August	3.834	2.019	1,037,130	18,823,604			18,823,604
6	September	4.104	2.019	654,074	13,637,324			13,637,324
7	October	2.319	2.019	867,417	2,600,733			2,600,733
8	November	3.000	2.019	662,919		\$ 1,337,182		7,840,899
9	December (New Rates - Sub 1292)	6.162	2.041	598,217	24,649,313	196,156		24,845,469
10	January 2023	3.845	2.130	708,394	12,146,095			12,146,095
11	February	3.010	2.138	664,581	5,798,561			5,798,561
12	March	2.458	2.138	660,695	2,118,552	408,290		2,526,842
13	Total Test Period Note [1]			8,519,137	\$ 114,317,107	\$ 1,941,628	\$	116,258,735
14	Booked 12-month (Over) / Under Recovery						\$	116,258,735
15	Adjustment to exclude Under Recovery - April - June 2022 Note [1]							(11,685,498)
16	Total 9-month (Over) / Under Recovery						\$	104,573,237
17	Adjustment to exclude test period by-product net gain/loss accrued e	xpense per Docket No. E-2	Sub 1204 Order					(273,167)
18	Adjustment to include test period by-product net gain/loss cash payr	ments per Docket No. E-2 Su	ıb 1204 Order					1,220,048
19	Replacement power cost adjustment							(56,984)
20	Total Adjusted (Over) / Under Recovery Request						\$	105,463,134
21	Normalized Test Period MWh Sales at Meter	Exhibit 4						8,443,198
22	Experience Modification Increment (Decrement) cents/KWh							1.249
	Notes:							

Totals may not foot due to rounding.

[1] April - June 2022 were remitted in fuel Docket E-2, Sub 1292 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 Proposed Experience Modification Factor - Lighting Twelve Months Ended March 31, 2023 Docket No. E-2, Sub 1321

Line		Fuel Cost Incurred ¢/ kWh (a)	Fuel Cost Billed ¢/ kWh (b)	NC Retail MWh Sales (c)		Reported Over)/Under Recovery (d)	eported justments (e)	-	orted Adjusted Over)/Under Recovery (f)
No.	Month				-	(222.222)	 		(222,222)
1	April 2022 (Sub 1272) Note [1]	1.095	1.680	34,695	Ş	(202,882)		\$	(202,882)
2	May Note [1]	1.934	1.681	33,360		84,301			84,301
3	June Note [1]	2.773	1.682	27,883		304,465			304,465
4	July	3.739	1.682	26,600		547,052			547,052
5	August	4.881	1.682	28,072		898,086			898,086
6	September	3.430	1.682	26,580		464,553			464,553
7	October	2.491	1.682	28,060		227,027			227,027
8	November	2.638	1.682	26,345		251,844	\$ 47,516		299,360
9	December (New Rates - Sub 1292)	8.787	2.297	28,037		1,819,564	645		1,820,209
10	January 2023	6.652	3.361	27,335		899,465			899 <i>,</i> 465
11	February	5.024	3.376	26,338		434,052			434,052
12	March	3.757	3.374	28,253		108,024	14,511		122,535
13	Total Test Period Note [1]			341,557	\$	5,835,549	\$ 62,672	\$	5,898,221
14	Booked 15-month (Over) / Under Recovery							\$	5,898,221
15	Adjustment to exclude Under Recovery - April - June 2022 Note [5]								(185,883)
16	Total 12-month (Over) / Under Recovery							\$	5,712,338
17	Adjustment to exclude test period by-product net gain/loss accrued exp	ense per Docket No. E-2	Sub 1204 Order						(11,681)
18	Adjustment to include test period by-product net gain/loss cash payme	nts per Docket No. E-2 Su	ıb 1204 Order						52,173
19	Replacement power cost adjustment								(2,671)
20	Total Adjusted (Over) / Under Recovery Request							\$	5,750,159
21	Normalized Test Period MWh Sales at Meter	Exhibit 4							342,287
22	Experience Modification Increment (Decrement) cents/KWh								1.680
	Notes:								

Totals may not foot due to rounding.

[5] April - June 2021 were remitted in fuel Docket E-2, Sub 1272 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 18.

#### Duke Energy Progress, LLC 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, 2023 Billing Period December 1, 2023 - November 30, 2024 Docket No. E-2, Sub 1321

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					North Carolina	North Carolina	North Carolina Small General	North Carolina Medium General	North Carolina Large General	North Carolina
Line No.	Description	Reference	1	otal Company	Retail	Residential	Service	Service	Service	Lighting
1	Test Period MWh Sales	Workpaper 9		60,895,867	37,570,593	16,034,936	1,908,360	10,766,603	8,519,137	341,557
2	Weather MWh Adjustment	Workpaper 9		633,292	260,581	457,221	(20,274)	(109,387)	(66,978)	
3	Customer Growth MWh Adjustment	Workpaper 9		232,513	80,000	168,316	23,647	(103,732)	(8,961)	
4	Remove Impact of SC DERP Net Metered MWh	Workpaper 9		33,600						
5	Total Normalized Test Period MWh Sales at Meter	Sum Lines 1-4		61,795,272	37,911,173	16,660,473	1,911,733	10,553,483	8,443,198	342,287
6	Total Normalized Test Period MWh Sales at Generation	Workpaper 9		63,155,578	38,840,283	17,088,541	1,960,812	10,817,096	8,622,811	351,024
7	Test Period Fuel and Fuel-Related Revenue *		Ś	1.372.192.920 Ś	847,469,453					
8	Test Period Fuel and Fuel-Related Expense *		\$	2,169,458,131 \$	1,333,442,627					
9	Test Period Unadjusted (Over)/Under Recovery	Line 8 - Line 7	\$	797,265,211 \$	485,973,174					

		2022 12CP (Coincident Peak) Firm KW
10	Total System Peak	11,065,080
11	NC Retail	6,873,494
12	NC Residential **	3,892,721
13	NC Small General Service **	1,455,356
14	NC Medium General Service **	514,718
15	NC Large General Service **	942,855
16	NC Lighting **	67,843

Notes:

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

\*\* NC Retail peak KW at the customer class level is determined using the Modified Average & Excess (A&E) Method as approved in E-2 Sub 1300.

Rounding differences may occur.

Harrington Exhibit 5

# Aug 28 2023

Duke Energy Progress, LLC North Carolina Annual Fuel and Fuel-Related Expense Nuclear Capacity Ratings - MWs Twelve Months Ended March 31, 2023 Billing Period December 1, 2023 - November 30, 2024 Docket No. E-2, Sub 1321

	Approved	Pending	Prior	
	Rate Case Docket E-2, Sub	Rate Case Docket E-2,	Fuel Docket E-2, Sub	Proposed Capacity Rating
Unit	1219	Sub 1300	1292	MW
Brunswick 1	938	938	938	938
Brunswick 2	932	932	932	932
Harris 1	964	964	964	964
Robinson 2	741	759	759	759
Total Company	3,575	3,593	3,593	3,593

#### 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 92.27% with Normalized Test Period MWh Sales Billing Period December 1, 2023 - November 30, 2024 Docket No. E-2, Sub 1321

Line No.	Unit	Reference	Generation (MWh)	Unit Cost (cents/kWh)	Total System Cost (\$)	Remove impact of SC DERP Net Metered Generation Impact on System Avg Fuel (\$)	System Capacity Cost (\$)	System Fuel (Non-Capacity) Cost (\$)
			Α	C/A/10=B	С	D	E	F = C + D - F
1	Total Nuclear	Workpaper 3-4	29,122,107	0.6113 \$	178,009,922			\$ 178,009,922
2	Coal	Workpaper 14	4,741,275	4.3261	205,112,352			205,112,352
3	Gas - CT and CC	Workpaper 3 - 4	24,747,254	3.7763	934,531,959			934,531,959
4	Reagents & Byproducts	Workpaper 5	-		43,993,340			43,993,340
5	SC DERP Net Metering Impact on System Avg Fuel	Workpaper 10				\$ 851,357	_	851,357
6	Total Fossil	Sum of Lines 2 - 5	29,488,529		1,183,637,651	851,357		1,184,489,008
7	Hydro	Workpaper 3	720,836		-			-
8	Net Pumped Storage		-		-			
9	Total Hydro	Sum of Lines 7-8	720,836		-			-
10	Utility Owned Solar Generation	Workpaper 3	270,472	_	-		-	-
11	Total Generation	Line 1 + Line 6 + Line 9 + Line 10	59,601,944		1,361,647,573	851,357		1,362,498,930
12	Purchases	Workpaper 3 - 4	12,190,519		569,693,792		\$ 69,735,560	499,958,232
13	JDA Savings Shared	Workpaper 4	-		(114,205,606)			(114,205,606)
14	Total Purchases	Sum of Lines 12 - 13	12,190,519		455,488,186		69,735,560	385,752,626
15	Total Generation and Purchases	Line 11 + Line 14	71,792,463	_	1,817,135,759	851,357	69,735,560	1,748,251,556
16	Fuel expense recovered through intersystem sales	Workpaper 3 - 4	(7,601,020)		(204,822,948)			(204,822,948)
17	Line losses and Company use	Line 19 - Line 15 - Line 16	(2,396,171)		(201)022,510)			(201)022)3107
17			(2,000)2727		-			-
18	System Fuel Expense for Fuel Factor	Line 15 + Line 16		\$	1,612,312,811	\$ 851,357	\$ 69,735,560	\$ 1,543,428,608
19	Projected System MWh Sales at Meter for Fuel Factor	Exhibit 4	61,795,272		61,795,272			
20	Fuel and Fuel-Related Costs cents/kWh	Line 18 /Line 19 / 10			2.609			

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 92.27% with Normalized Test Period MWh Sales Billing Period December 1, 2023 - November 30, 2024

Docket No. E-2, Sub 1321

Docket No.	E-2, Sub 1321							
				General	General	General		
				Service	Service	Service		
Line No.	Description		Residential	Small	Medium	Large	Lighting	Total
1	NC Retail Normalized Test Period MWh Sales at Meter	Workpaper 9	16,660,473	1,911,733	10,553,483	8,443,198	342,287	37,911,173
Calculation	of Renewable and Qualifying Facilities Purchased Power Capacity Rate by Class							Amount
2	Renewable Purchased Power Capacity	Workpaper 4					ş	\$ 22,836,104
3	Purchases from Qualifying Facilities Capacity	Workpaper 4						46,899,456
4	Total of Renewable and Qualifying Facilities Purchased Power Capacity	Line 2 + Line 3					\$	69,735,560
5	NC Portion - Jurisdictional % based on Production Demand Allocator	Workpaper 13						62.12%
6	NC Renewable and Qualifying Facilities Purchased Power Capacity	Line 4 * Line 5					\$	43,318,886
7	Production Demand Allocation Factors	Workpaper 13	56.63%	21.17%	7.49%	13.72%	0.99%	100.000%
8	Renewable and Qualifying Facilities Purchased Power Capacity allocated on Production Demand %	Line 6 * Line 7	\$ 24,533,134 \$	9,172,105 \$	3,243,912 \$	5,942,165 \$	427,570 \$	43,318,886
9	Renewable and Qualifying Facilities Purchased Power Capacity cents/kWh based on Projected	-						
9	Billing Period Sales at Meter	Line 8 / Line 1 / 10	0.147	0.480	0.031	0.070	0.125	0.114
Summary o	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	2.712	2.709	2.493	2.046	3.988	
11	Renewable and Qualifying Facilities Purchased Power Capacity cents/kWh	Line 9	0.147	0.480	0.031	0.070	0.125	
12	Total adjusted Fuel and Fuel-Related Costs cents/kWh	Line 10 + Line 11	2.859	3.189	2.524	2.116	4.113	
13	EMF Increment/(Decrement) cents/kWh	Exh 3B, 3C, 3D, 3E, 3F	1.191	1.050	1.090	1.249	1.680	
14	EMF Interest Increment/(Decrement) cents/kWh	Exh 3B, 3C, 3D, 3E, 3F	-	-	-	-	-	
15	Net Fuel and Fuel-Related Costs Factors cents/kWh	Exh 6C	4.050	4.239	3.614	3.365	5.793	

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 92.27% with Normalized Test Period MWh Sales Billing Period December 1, 2023 - November 30, 2024 Docket No. E-2, Sub 1321

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Aug 28 2023

Line No.	Rate Class	NC Retail Normalized Test Period MWh Sales at Meter	t A	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 1292 cents/kWh	Rate (including
Liffe NO.		A		B	C	D	E	F	G
							If D=0 then 0 if not then	1	
		Workpaper 9		Workpaper 12	Line 27 as a % of Column B	С/В	(C*100)/(A*1000)	Exhibit 1, Line 4	E + F = G
1	Residential	16,660,47	'3 Ś	2,086,401,509	\$ 98,845,406	4.7%	0.593	3.457	4.050
2	Small General Service	1,911,73	3	279,731,721	13,252,576	4.7%	0.693	3.546	4.239
3	Medium General Service	10,553,48	3	997,768,827	47,270,319	4.7%	0.448	3.166	3.614
4	Large General Service	8,443,19	8	586,849,332	27,802,588	4.7%	0.329	3.036	3.365
5	Lighting	342,28	7	114,358,945	5,417,872	4.7%	1.583	4.210	5.793
6	NC Retail	37,911,17	3\$	4,065,110,334	\$ 192,588,761	-			
	Total Proposed Composite Fuel Rate:								
7	Adjusted System Total Fuel Costs	Workpaper 9	\$	1,613,164,168					
8	System Renewable and Qualifying Facilities Purchased Power Capacity	Exhibit 6B		69,735,560					
9	System Other Fuel Costs	Line 7 - Line 8	\$	1,543,428,608	-				
10	NC Retail Allocation % - sales at generation	Workpaper 9		61.50%					
11	NC Retail Other Fuel Costs	Line 9 * Line 10	\$	949,198,892					
12	NC Renewable and Qualifying Facilities Purchased Power Capacity	Exhibit 6B		43,318,886	_				
13	NC Retail Total Fuel Costs	Line 11 + Line 12	\$	992,517,778					
14	NC Retail Reduction due to 2.5% Purchased Power Test	Workpaper 16	\$	-					
15	NC Retail Total Fuel Costs	Line 13 + Line 14	\$	992,517,778					
16	Adjusted NC Normalized Test Period MWh Sales - at meter	Line 6, col A		37,911,173					
17	Calculated Fuel Rate cents/kWh	Line 15 / Line 16 /10		2.618					
18	Proposed Composite EMF Rate cents/kWh	Exhibit 3A		1.173					
19	Proposed Composite EMF Rate Interest cents/kWh	Exhibit 3A		0.000	-				
20	Total Proposed Composite Fuel Rate	Sum of Lines 17-19		3.791					
	Total Current Composite Fuel Rate - Docket E-2 Sub 1292:								
21	Current composite Fuel Rate cents/kWh	2022 Revised Harrington Exh 2, Sch 1, Pg 3, Ln 17		2.606					
22	Current composite EMF Rate cents/kWh	2022 Revised Harrington Exh 2, Sch 1, Pg 3, Ln 18		0.677					
23	Current composite EMF Interest cents/kWh	2022 Revised Harrington Exh 2, Sch 1, Pg 3, Ln 19		0.000	-				
24	Total Current Composite Fuel Rate	Sum of Lines 21 - 23		3.283					
25	Increase/(Decrease) in Composite Fuel rate cents/kWh	Line 20 - Line 24		0.508					
26	Adjusted NC Normalized Test Period MWh Sales - at meter	Line 6, col A		37,911,173					
27	Increase/(Decrease) in Fuel Costs	Line 25 * Line 26 * 10	\$	192,588,761					
	Note: Rounding differences may occur								

Calculation of Uniform Percentage Average Bill Adjustment by Customer Class

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 93.92% with Projected Billing Period MWh Sales Billing Period December 1, 2023 - November 30, 2024 Docket No. E-2, Sub 1321

Line No.	Unit	Reference	Generation (MWh)	Unit Cost (cents/kWh)	Total System Cost (\$)	Remove impact of SC DERP Net Metered Generation Impact on System Avg Fuel (\$)	System Capacity Cost (\$)	System Fuel (Non-Capacity) Cost (\$)
			Α	C/A/10=B	С	D	E	F = C + D - F
1	Total Nuclear	Workpaper 2	29,641,810	0.6113 \$	181,186,626			\$ 181,186,626
2	Coal	Workpaper 14	5,447,692	4.3261	235,672,661			235,672,661
3	Gas - CT and CC	Workpaper 3 - 4	24,747,254	3.7763	934,531,959			934,531,959
4	Reagents & Byproducts	Workpaper 5	-		43,993,340			43,993,340
5	SC DERP Net Metering Impact on System Avg Fuel	Workpaper 10				\$ 851,357		851,357
6	Total Fossil	Sum of Lines 2 - 5	30,194,946		1,214,197,960	851,357		1,215,049,317
7	Hydro	Workpaper 3	720,836		-			-
8	Net Pumped Storage		-		-			-
9	Total Hydro	Sum of Lines 7-8	720,836		-			-
10	Utility Owned Solar Generation	Workpaper 3	270,472	_	-			-
11	Total Generation	Line 1 + Line 6 + Line 9 + Line 10	60,828,064		1,395,384,586	851,357		1,396,235,943
12	Purchases	Workpaper 3 - 4	12,190,519		569,693,792		\$ 69,735,560	499,958,232
13	JDA Savings Shared	Workpaper 4	-		(114,205,606)			(114,205,606)
14	Total Purchases	Sum of Lines 12 - 13	12,190,519		455,488,186		69,735,560	385,752,626
15	Total Generation and Purchases	Line 11 + Line 14	73,018,583		1,850,872,772	851,357	69,735,560	1,781,988,569
16	Fuel expense recovered through intersystem sales	Workpaper 3 - 4	(7,601,020)		(204,822,948)			(204,822,948)
17	Line losses and Company use	Line 19 - Line 15 - Line 16	(2,185,868)		-			-
18	System Fuel Expense for Fuel Factor	Line 15 + Line 16		\$	1,646,049,824	\$ 851,357	\$ 69,735,560	\$ 1,577,165,621
19	Projected System MWh Sales at Meter for Fuel Factor	Workpaper 3	63,231,695		63,231,695			
20	Fuel and Fuel-Related Costs cents/kWh	Line 18 /Line 19 / 10			2.603			

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 93.92% with Projected Billing Period MWh Sales Billing Period December 1, 2023 - November 30, 2024 Docket No. E-2, Sub 1321

				General Service	General Service	General Service		
Line No.	Description	_	Residential	Small	Medium	Large	Lighting	Total
1	NC Retail Projected Billing Period MWh Sales at Meter	Workpaper 10	17,326,377	1,816,847	10,471,370	9,239,420	384,646	39,238,661
Calculation	of Renewable and Qualifying Facilities Purchased Power Capacity Rate by Class							Amount
2	Renewable Purchased Power Capacity	Workpaper 4					\$	22,836,104
3	Purchases from Qualifying Facilities Capacity	Workpaper 4						46,899,456
4	Total of Renewable and Qualifying Facilities Purchased Power Capacity	Line 2 + Line 3					\$	69,735,560
5	NC Portion - Jurisdictional % based on Production Demand Allocator	Workpaper 13						62.12%
6	NC Renewable and Qualifying Facilities Purchased Power Capacity	Line 4 * Line 5					\$	43,318,886
7	Production Demand Allocation Factors	Workpaper 13	56.63%	21.17%	7.49%	13.72%	0.99%	100.000%
8	Renewable and Qualifying Facilities Purchased Power Capacity allocated on Production Demand	% Line 6 * Line 7	\$ 24,533,134 \$	\$ 9,172,105 \$	3,243,912 \$	5,942,165 \$	427,570 \$	43,318,886
9	Renewable and Qualifying Facilities Purchased Power Capacity cents/kWh based on Projected							
5	Billing Period Sales at Meter	Line 8 / Line 1 / 10	0.142	0.505	0.031	0.064	0.111	0.110
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	2.704	2.733	2.504	2.029	3.851	
11	Renewable and Qualifying Facilities Purchased Power Capacity cents/kWh	Line 9	0.142	0.505	0.031	0.064	0.111	
12	Total adjusted Fuel and Fuel-Related Costs cents/kWh	Line 10 + Line 11	2.846	3.238	2.535	2.093	3.962	
13	EMF Increment/(Decrement) cents/kWh	Exh 3B, 3C, 3D, 3E, 3F	1.191	1.050	1.090	1.249	1.680	
14	EMF Interest Increment/(Decrement) cents/kWh	Exh 3B, 3C, 3D, 3E, 3F	-	-	-	-	-	
15	Net Fuel and Fuel-Related Costs Factors cents/kWh	Exh 7C	4.037	4.288	3.625	3.342	5.642	

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 93.92% with Projected Billing Period MWh Sales Billing Period December 1, 2023 - November 30, 2024 Docket No. E-2, Sub 1321

Line No.	Rate Class	NC Retail Projected Billing Period MWh Sales a Meter		ual 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 1292 cents/kWh	Proposed Total Fuel Rate (including renewables and EMF) cents/kWh
		A	-	В	С	D	E	F	G
							If D=0 then 0 if not		
		Workpaper 10		Vorkpaper 12	Line 27 as a % of Column B	C/B	then (C*100)/(A*1000)	Exhibit 1, Line 4	E + F = H
		Workpaper 10	v	vorkpaper 12	Line 27 as a 70 of column b	С/В	(C 100)/(A 1000)	Exhibit 1, Enle 4	L+r-n
1	Residential	17,326,3	77 \$	2,086,401,509	\$ 100,494,032	4.8%	0.580	3.457	4.037
2	Small General Service	1,816,84	47	279,731,721	13,473,614	4.8%	0.742	3.546	4.288
3	Medium General Service	10,471,3	70	997,768,827	48,058,733	4.8%	0.459	3.166	3.625
4	Large General Service	9,239,43		586,849,332	28,266,302	4.8%	0.306	3.036	3.342
5	Lighting	384,64		114,358,945	5,508,236	4.8%	1.432	4.210	5.642
6	NC Retail	39,238,60	61 \$	4,065,110,334	\$ 195,800,917				
	Total Proposed Composite Fuel Rate:								
7	Adjusted System Total Fuel Costs	Workpaper 10	\$	1,646,901,181					
8	System Renewable and Qualifying Facilities Purchased Power Capacity	Exhibit 7B	Ŧ	69,735,560					
9	System Other Fuel Costs	Line 7 - Line 8	\$	1,577,165,621					
10	NC Retail Allocation % - sales at generation	Workpaper 10		62.17%					
11	NC Retail Other Fuel Costs	Line 9 * Line 10	\$	980,497,999					
12	NC Renewable and Qualifying Facilities Purchased Power Capacity	Exhibit 7B		43,318,886					
13	NC Retail Total Fuel Costs	Line 11 + Line 12	\$	1,023,816,886					
14	NC Retail Reduction due to 2.5% Purchased Power Test	Workpaper 15	\$						
15	NC Retail Total Fuel Costs	Line 13 + Line 14	\$	1,023,816,886					
16	NC Projected Billing Period MWh Sales - at meter	Line 6, col A		39,238,661					
17	Calculated Fuel Rate cents/kWh	Line 15 / Line 16 /10		2.609					
18	Proposed Composite EMF Rate cents/kWh	Exhibit 3A		1.173					
19	Proposed Composite EMF Rate Interest cents/kWh	Exhibit 3A		0.000					
20	Total Proposed Composite Fuel Rate	Sum of Lines 17-19		3.782					
	Total Current Composite Fuel Rate - Docket E-2 Sub 1292:								
21	Current composite Fuel Rate cents/kWh	2022 Revised Harrington Exh 2, Sch 1, Pg 3, Ln 17		2.606					
22	Current composite EMF Rate cents/kWh	2022 Revised Harrington Exh 2, Sch 1, Pg 3, Ln 18		0.677					
23	Current composite EMF Interest cents/kWh	2022 Revised Harrington Exh 2, Sch 1, Pg 3, Ln 19		0.000					
24	Total Current Composite Fuel Rate	Sum of Lines 21 - 23		3.283					
25	Increase/(Decrease) in Composite Fuel rate cents/kWh	Line 20 - Line 24		0.499					
26	NC Projected Billing Period MWh Sales - at meter	Line 6, col A		39,238,661					
27	Increase/(Decrease) in Fuel Costs	Line 25* Line 26 * 10	\$	195,800,916					
	Note: Rounding differences may occur								

Calculation of Uniform Percentage Average Bill Adjustment by Customer Class

Duke Energy Progress, LLC North Carolina Annual Fuel and Fuel-Related Expense Monthly Fuel and Baseload Report for March 2023 Twelve Months Ended March 31, 2023 Docket No. E-2, Sub 1321 Harrington Exhibit 8

# Aug 28 2023

## Monthly Fuel Filing and Baseload Report Cover Sheet

**March 2023** 

#### Schedule 1-REVISED

#### DUKE ENERGY PROGRESS SUMMARY OF MONTHLY FUEL REPORT

#### Docket No. E-2, Sub 1310

Line No.	Fuel Expenses:		March 2023		12 Months Ended March 2023
1	Total Fuel and Fuel-Related Costs	\$	128,915,185	\$	2,134,728,979
	MWH sales:				
2	Total System Sales		5,079,825		67,925,042
3	Less intersystem sales		530,956		7,029,175
4	Total sales less intersystem sales		4,548,869		60,895,867
5	Total fuel and fuel-related costs (¢/KWH) (Line 1/Line 4)		2.834	:	3.506
6	Current fuel & fuel-related cost component (¢/KWH) (per Schedule 4, Line 5a Total)		2.605		
	Generation Mix (MWH):				
	Fossil (By Primary Fuel Type):				
7	Coal		419,045		5,489,198
8	Oil		9,282		141,416
9	Natural Gas - Combustion Turbine		127,225		2,766,398
10	Natural Gas - Combined Cycle		1,321,720		20,645,425
11	Biogas		320		11,483
12	Total Fossil		1,877,593		29,053,920
13	Nuclear		2,464,611		28,995,015
14	Hydro - Conventional		81,131		600,694
15	Solar Distributed Generation		22,728		250,713
16	Total MWH generation	_	4,446,063	•	58,900,342

Notes:

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

\* Current 12ME includes a fuel proxy adjustment increasing fuel costs by \$121,556 in the month of December 2022.

#### DUKE ENERGY PROGRESS DETAILS OF FUEL AND FUEL-RELATED COSTS

Docket No. E-2, Sub 1310

Description	March 2023	12 Months Endeo March 2023
Fuel and Fuel-Related Costs:		
Steam Generation - Account 501		
0501110 coal consumed - steam	\$ 17,192,671	\$ 204,189,85
0501310 fuel oil consumed - steam	1,457,253	12,441,21
Total Steam Generation - Account 501	18,649,924	216,631,06
Nuclear Generation - Account 518		
0518100 burnup of owned fuel	15,359,370	177,505,22
Other Generation - Account 547		
0547000 natural gas consumed - Combustion Turbine	3,581,975	223,742,96
0547000 natural gas consumed - Combined Cycle	64,690,000	1,239,836,66
0547106 biogas consumed - Combined Cycle	16,883	545,30
0547200 fuel oil consumed	543,117	22,825,98
Total Other Generation - Account 547	68,831,975	1,486,950,92
Reagents		
Reagents (lime, limestone, ammonia, urea, dibasic acid, and sorbents)	1,034,319	14,049,22
Total Reagents	1,034,319	14,049,22
By-products		
Net proceeds from sale of by-products	945,215	15,795,77
Total By-products	945,215	15,795,77
Total Fossil and Nuclear Fuel Expenses		
Included in Base Fuel Component	104,820,803	1,910,932,21
Purchased Power and Net Interchange - Account 555		
Capacity component of purchased power (PURPA)	3,317,400	53,502,39
Capacity component of purchased power (renewables)	2,120,424	31,718,89
Fuel and fuel-related component of purchased power	30,164,581	675,873,64
Total Purchased Power and Net Interchange - Account 555	35,602,405	761,094,94
Less:		
Fuel and fuel-related costs recovered through intersystem sales	11,505,901	536,626,00
Solar Integration Charge	20	16
Miscellaneous Fees Collected	2,100	672,00
Total Fuel Credits - Accounts 447/456	11,508,021	537,298,17
Total Fuel and Fuel-Related Costs	\$ 128,915,185	\$ 2,134,728,97

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

\* Current 12ME includes a fuel proxy adjustment increasing fuel costs by \$121,556 in the month of December 2022.

Aug 28 2023

#### Schedule 3, Purchases Page 1 of 4

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

March 2023

Purchased Power	Purchased Power Total			Capacity	Non-capacity							
		•		•				_			Not Fuel \$	
Economic Purchases	\$	\$	\$	\$	mWh	¢	Fuel \$		uel-related \$	NOt	Fuel-related \$	
Broad River Energy, LLC	\$	5,758,510	\$	5,138,625	6,626	\$	409,853	\$	210,032		-	
City of Fayetteville DE Carolinas - Native Load Transfer		1,331,074		695,500	4,437		453,100		182,474	¢	45.000	
		2,274,417		-	81,589		1,954,634		304,720	Ф	15,063	
DE Carolinas - Native Load Transfer Benefit		591,276		-	-		591,276		-		-	
DE Carolinas - Fees		(17,378)		-	-		-		(17,378)		-	
Haywood EMC		27,750		27,750	-		-		-		-	
NCEMC		3,490,550		2,897,025	10,344		553,093		40,432		-	
PJM Interconnection, LLC		5,316			-				5,316		-	
Southern Company Services		5,931,965		2,051,205	119,196		3,297,848		582,912			
	\$	19,393,480	\$	10,810,105	222,192	\$	7,259,804	\$	1,308,508	\$	15,063	
Renewable Energy Purchases												
NC REPS	\$	9,506,187		_	144,844		_	\$	9,506,187		-	
SC DERP Qualifying Facilities	Ψ	95,024		_	2,075		_	Ψ	91,844	\$	3,180	
SC DERP Net Metering Excess Generation		21,009	\$	5,127	625		_			Ψ	15,882	
SC Act 62 Net Metering Excess Generation		683	Ψ	0,127	25		_		_		683	
	\$	9,622,903	\$	5,127	147,569	\$	-	\$	9,598,031	\$	19,745	
HB589 PURPA Purchases												
NC Other Qualifying Facilities	\$	16,126,328		_	279.991		-	\$	16,126,328		-	
NC CPRE - Purchased Power	+	394,591		-	9,256		-	•		\$	394,591	
	\$	16,520,919	\$	-	289,247	\$	-	\$	16,126,328		394,591	
Non-dispatchable Purchases												
DE Carolinas - Emergency		-		_	-		-		-		-	
DE Carolinas - Reliability	\$	1,321,502	\$	4,500	29,367	\$	1,119,452		-	\$	197,550	
Dominion Energy South Carolina - Emergency	Ψ	-	Ψ	-		Ψ	-		-	Ψ		
PJM Interconnection, LLC - Reliability		183,294		_	2,900		155,799		-		27,495	
Virginia Electric and Power Company - Emergend				_	2,000				-		-	
Energy Imbalance		10,802		_	421		9,653		-		1,149	
Generation Imbalance		30,225		_	1,805		24,830				5,395	
	\$	1,545,823	\$	4,500	34,493	\$	1,309,734		-	\$	231,589	
Total Purchased Power	\$	47,083,125	\$	10,819,732	693,501	\$	8,569,538	\$	27,032,867	\$	660,988	

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

CPRE purchased power amounts are recovered through the CPRE Rider.

"Not Fuel \$/Not Fuel-related \$" amounts are based on estimates and are subject to change.

Schedule 3, Sales

Page 2 of 4

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

March 2023

		Total		Capacity	Non-capacity					
Sales		\$		\$	mWh		Fuel \$		Non-fuel \$	
Utilities:										
DE Carolinas - As Available Capacity	\$	-	\$	-	-		-		-	
DE Carolinas - Emergency		-		-	-		-		-	
Dominion Energy South Carolina, Inc Emergency		-		-	-		-		-	
South Carolina Public Service Authority - Emergency		-		-	-		-		-	
Market Based:										
NCEMC Purchase Power Agreement	\$	1,127,484	\$	652,500	15,439	\$	391,083	\$	83,901	
PJM Interconnection, LLC		169,443		-	6,625		141,800		27,643	
Other:										
DE Carolinas - Native Load Transfer		9,267,936		-	508,869		8,478,707		789,229	
DE Carolinas - Native Load Transfer Benefit		2,494,272		-	-		2,494,272		-	
Generation Imbalance		46		-	23		39		7	
Total Intersystem Sales	\$	13,059,181	\$	652,500	530,956	\$	11,505,901	\$	900,780	

\* Sales for resale other than native load priority.

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

Page 3 of 4

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

\*

Twelve Months Ended
March 2023

Purchased Power		Total		Capacity			Non-ca	paci	ity		
Economic Purchases		\$		\$	mWh		Fuel \$		uel-related \$		Not Fuel \$ Fuel-related \$
Broad River Energy, LLC	\$		\$	35.085.832	1,141,008	\$	97,820,266		9.146.523	NOL	- uei-reiateu ş
City of Fayetteville	Ψ	20,698,530	Ψ	12,296,500	55,363	Ψ	6,812,367	Ψ	1,589,663		_
DE Carolinas - Native Load Transfer		78,188,779		12,230,300	1,163,032		66,855,603		11,426,244	\$	(93,068)
DE Carolinas - Native Load Transfer Benefit		7,983,289		_	1,100,002		7,983,289		-	Ψ	(00,000)
DE Carolinas - Fees		147.664		-	_		-		147,664		_
Haywood EMC		356.886		356.886	_		-		-		-
NCEMC		84,574,516		40,477,903	462,174		43,298,766		797,847		-
PJM Interconnection, LLC		740,040		-	6,098		601,266		138,774		-
Southern Company Services		160,513,446		25,775,936	1,944,300		125,253,037		9,484,473		-
	\$	495,255,771	\$	113,993,057	4,771,975	\$	348,624,594	\$	32,731,188	\$	(93,068)
Renewable Energy Purchases											
NC REPS	\$	141,144,285		-	2,147,096		-	\$	141,144,285		-
SC DERP Qualifying Facilities		1,287,549		-	31,142		-		1,230,609	\$	56,940
SC DERP Net Metering Excess Generation		38,146	\$	9,309	1,135		-		-		28,837
SC Act 62 Net Metering Excess Generation		5,223		-	219		-		-		5,223
	\$	142,475,203	\$	9,309	2,179,592		-	\$	142,374,894	\$	91,000
HB589 PURPA Purchases											
NC Other Qualifying Facilities	\$	229,468,951		-	3,877,418		-	\$	229,468,951		-
NC CPRE - Purchased Power		5,645,408		-	168,972		-		-	\$	5,645,408
	\$	235,114,359			4,046,390		-	\$	229,468,951		5,645,408
Non-dispatchable Purchases											
DE Carolinas - Emergency	\$	106,271		-	1,150	\$	64,826		-	\$	41,445
DE Carolinas - Reliability		8,958,385	\$	8,013	48,546		7,532,522		-		1,417,850
Dominion Energy South Carolina - Emergency		-		-	-		-		-		-
PJM Interconnection, LLC - Reliability		663,608		-	6,438		564,066		-		99,542
Virginia Electric and Power Company - Emerge	nc	-		-	-		-		-		-
Energy Imbalance		(597,912)		-	3,670		(458,262)		-		(139,650)
Generation Imbalance		199,216		-	3,463		192,163		-		7,053
	\$	9,329,568		8,013	63,267	\$	7,895,315		-	\$	1,426,240
Total Purchased Power	\$	882,174,901	\$	114,010,379	11,061,224	\$	356,519,909	\$	404,575,033	\$	7,069,580

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

CPRE purchased power amounts are recovered through the CPRE Rider.

"Not Fuel \$/Not Fuel-related \$" amounts are based on estimates and are subject to change.

\*Current 12ME includes a fuel proxy adjustment increasing fuel costs and decreasing non-fuel costs by \$121,556 in the month of December 2022.

# DUKE ENERGY PROGRESS Schedule 3, Sales INTERSYSTEM SALES\* Twelve Months Ended Page 4 of 4 SYSTEM REPORT - NORTH CAROLINA VIEW March 2023 Page 4 of 4

		Total	Capacity		N			
Sales		\$		\$	mWh	Fuel \$	Non-fuel \$	
Utilities:								
DE Carolinas - As Available Capacity	\$	383,030	\$	383,030	-	-		-
DE Carolinas - Emergency		30,606		-	177	-	\$ 3	30,606
Dominion Energy South Carolina, Inc Emergency		1,510,523		-	2,125	\$ 1,185,665	32	24,858
South Carolina Public Service Authority - Emergency		-		-	-	-		-
Market Based:								
NCEMC Purchase Power Agreement		16,070,106		7,830,000	125,447	12,785,038	(4,54	14,932)
PJM Interconnection, LLC		2,351,301		-	57,749	2,432,513	(8	31,212)
Other:								
DE Carolinas - Native Load Transfer		486,736,113		-	6,842,230	472,478,958	14,25	57,155
DE Carolinas - Native Load Transfer Benefit		47,584,165		-	-	47,584,165		-
Generation Imbalance		131,445		-	1,447	159,668	(2	28,223)
Total Intersystem Sales	\$	554,797,289	\$	8,213,030	7,029,175	\$ 536,626,007		58,252

\* Sales for resale other than native load priority.

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

#### DUKE ENERGY PROGRESS (OVER) / UNDER RECOVERY OF FUEL COSTS MARCH 2023

Line No.		Residential	Small General Service	Medium General Service	Large General Service	Lighting	Total
1 1a. System Retail kWh sales	Input						4,548,869,323
1b. System kWh Sales at generation	Input						4,806,690,373
, ,	npar						1,000,000,010
2 2a. DERP Net Metered kWh generation	Input						2,614,560
2b. Line loss percentage from Cost of Service	Input Annually						6.314%
2c. DERP Net Metered kWh at generation	L2a / (1 - L2b)						2,790,769
	/						_,,.
3 Adjusted System kWh sales	L1b + L2c						4,809,481,141
4 4a. N.C. Retail kWh sales	Input	1,203,095,469	143,355,081	837,365,588	660,695,135	28,253,210	2,872,764,484
4b. Line loss percentage from Cost of Service	Input Annually	7.665%	7.663%	7.281%	4.667%	7.656%	
4c. NC kWh Sales at generation	L4a / (1 - L4b)	1,302,967,964	155,252,046	903,121,893	693,039,278	30,595,610	3,084,976,791
4d. NC allocation % by customer class	Calculated	42.236%	5.033%	29.275%	22.465%	0.992%	-,,,,
4e. NC retail % of actual system total	L4c NC Total / L1b Total System						64.181%
4f. NC retail % of adjusted system total	L4c NC Total / L3 Total System						64.144%
5 Approved fuel and fuel-related rates (¢/kWh)							
5a Billed rates by class (¢/kWh)	Input Annually	2.808	3.095	2.572	2.138	3.374	2.605
5b Billed fuel expense	L4a * L5a / 100	\$33,783,724	\$4,437,127	\$21,539,642	\$14,123,531	\$953,347	\$74,837,371
Rate changes:							
5c New approved rates	Input Annually	2.808	3.097	2.580	2.138	3.376	
5d Ratio of days to new rate	Input	100.01%	99.82%	98.13%	99.73%	99.90%	
5e Prior approved rates	Input Annually	2.126	2.111	2.169	2.019	1.682	
5f Ratio of days to old rate	Input	-0.01%	0.18%	1.87%	0.27%	0.10%	
5g Total prorated ¢/KWH	(L5c * L5d) + (L5e * L5f)	2.808	3.095	2.572	2.138	3.374	
6 Incurred base fuel and fuel-related (less renewable purchased power capacity	v) rates by class (¢/kWh)						
6a NC Docket E-2, Sub 1292 allocation factor	Input Annually	46.478%	5.552%	26.799%	19.831%	1.339%	100.000%
6b System incurred expense	Input						\$123.536.062
6c NC incurred expense by class	L4f * L6a * L6b	\$36,829,969	\$4,399,250	\$21,236,026	\$15,714,355	\$1,061,370	\$79,240,971
6d NC Incurred base fuel rates (¢/kWh)	L6c / L4a * 100	3.061	3.069	2.536	2.378	3.757	2.758
7 Incurred renewable purchased power capacity rates (¢/kWh)							
7a NC retail production plant %	Input Annually						61.540%
7b Production plant allocation factors	Input Annually	52.73%	5.99%	25.52%	15.77%	0.00%	100.000%
7c System incurred expense	Input						5,437,824
7d NC incurred renewable capacity expense	L7a* L7b* L7c	\$1,764,444	\$200,349	\$853,944	\$527,727	\$0	\$3,346,464
7e NC incurred rates by class	L7d / L4a * 100	0.147	0.140	0.102	0.080	-	0.116
8 Total incurred rates by class (¢/kWh)	L6h + 7e	3.208	3.209	2.638	2.458	3.757	
9 Difference in ¢/kWh (incurred - billed)	L8 - L5a	0.400	0.113	0.066	0.321	0.382	
10 (Over) / under recovery [See footnote]	L9 * L4a / 100	\$4,810,688	\$162,472	\$550,329	\$2,118,552	\$108,024	\$7,750,065
11 Adjustments	Input	\$ 755,125	\$ 80.438	\$ 481.646	\$ 408.290 \$	14,511 \$	1.740.010
12 Total (over) / under recovery [See footnote]	L10 + L11	\$5,565,813	\$242,910	\$1,031,975	\$2,526,842	\$122,535	\$9,490,075
13 Total System Incurred Expenses							\$128.973.885
14 Less: Jurisdictional allocation adjustment	Input						58,700
15 Total Fuel and Fuel-related Costs per Schedule 2	mput						\$128,915,185
10							ψ120,313,103

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 2022	(\$8,047,596)	(523,263)	(439,416)	(4,886,973)	(1,995,062)	(202,882)	(\$8,047,596)		
May 2022	\$15,199,359	13,749,962	949,126	3,303,812	5,159,754	84,301	\$23,246,955		
_/1 June 2022	\$45,010,462	13,609,122	1,011,379	6,365,331	8,520,806	304,465	\$29,811,103		
July 2022	\$97,312,193	20,868,153	1,958,161	12,574,655	16,353,710	547,052	\$52,301,731		
August 2022	\$183,048,638	37,756,691	3,639,102	24,618,962	18,823,604	898,086	\$85,736,445		
September 2022	\$232,830,306	20,250,974	1,609,481	13,819,336	13,637,324	464,553	\$49,781,668		
October 2022	\$255,497,380	16,611,094	1,069,890	2,158,330	2,600,733	227,027	\$22,667,074		
November 2022	\$293,986,537	19,407,115	1,654,684	9,287,099	7,840,899	299,360	\$38,489,157		
December 2022	\$406,838,145	51,498,882	6,365,645	28,321,403	24,845,469	1,820,209	\$112,851,608		
January 2023	\$451,977,288	15,397,228	2,216,080	14,480,275	12,146,095	899,465	\$45,139,143		
February 2023	\$476,483,100	9,520,003	1,134,318	7,618,878	5,798,561	434,052	\$24,505,812		
March 2023	\$485,973,175	5,565,813	242,910	1,031,975	2,526,842	122,535	\$9,490,075		
Total		\$223,711,774	\$21,411,360	\$118,693,083	\$116,258,735	\$5,898,223	\$485,973,175		

Notes:

Detail amounts may not recalculate due to percentages presented as rounded. Presentation of (over)/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. Includes prior period adjustments. \_/1

#### Duke Energy Progress Fuel and Fuel Related Cost Report MARCH 2023

					Μ	ARCH 2023								
							s	mith Energy						
		Иауо		Roxboro		Asheville		Complex		Sutton		Lee		Blewett
Description	S	team		Steam		CC/CT		CC/CT		CC/CT		cc		СТ
Cost of Fuel Purchased (\$) Coal	\$	2,887,041	\$	12,595,795		_		-		_				_
Oil	Ψ	200,032	Ψ	770,004		-		-				-		-
Gas - CC		-		-	\$	16,913,024	\$	22,009,576	\$	4,408,539	\$	21,358,861		_
Gas - CT		-		-	Ť	383,557	Ŷ	3,046,044	Ŷ	148,231	Ŷ	-		-
Biogas		-		-		-		118,507		-		-		-
Total	\$	3,087,073	\$	13,365,799	\$	17,296,581	\$	25,174,127	\$	4,556,770	\$	21,358,861	\$	-
Average Cost of Fuel Purchased (¢/MBTU	)													
Coal		477.00		448.51		-		-		-		-		-
Oil		2,759.82		2,755.62		-		-		-		-		-
Gas - CC Gas - CT		-		-		640.90 683.69		581.61 541.06		1,838.98 8,403.12		619.79		-
Biogas		-		-		-		4,089.27		- 0,403.12		-		-
Weighted Average		504.01		471.24		641.79		578.70		1,886.92		619.79		-
··gg-										.,				
Cost of Fuel Burned (\$)														
Coal	\$	3,417,478	\$	13,775,193		-		-		-		-		-
Oil - CC		-		-		-		-		-	\$	1,457		-
Oil - Steam/CT		602,072		855,181	\$	3,712	\$	227,207	\$	8,935		-	\$	23,225
Gas - CC		-		-		16,913,024		22,009,576		4,408,539		21,358,861		-
Gas - CT Biagao		-		-		383,557		3,046,044		148,231		-		-
Biogas				-		-		118,507		-				-
Nuclear Total	\$	- 4,019,550	\$	- 14,630,374	\$	- 17,300,293	¢		\$	- 4,565,705	\$		\$	- 23,225
Iotai	Ψ	4,013,330	Ψ	14,000,074	Ψ	17,500,235	Ψ	23,401,334	Ψ	4,303,703	Ψ	21,500,510	Ψ	25,225
Average Cost of Fuel Burned (¢/MBTU)														
Coal		364.89		377.66		-		-		-		-		-
Oil - CC		-		-		-		-		-		2,111.59		-
Oil - Steam/CT		2,788.14		2,800.57		2,364.33		1,921.41		2,003.36		-		1,841.79
Gas - CC		-		-		640.90		581.61		1,838.98		619.79		-
Gas - CT				-		683.69		541.06		8,403.12		-		-
Biogas		-		-		-		4,089.27		-		-		-
Nuclear Weighted Average		419.50		397.78		- 641.89		- 582.34		- 1,887.14		619.82		- 1,841.79
Weighted /Weidge		410.00		001.10		041.00		002.04		1,007.14		010.02		1,041.70
Average Cost of Generation (¢/kWh)														
Coal		3.67		4.23		-		-		-		-		-
Oil - CC				-		-		-		-		18.30		-
Oil - Steam/CT		28.07		31.17		29.55		6.84		61.74		-		92.90
Gas - CC		-		-		4.33		5.43		11.50		4.38		-
Gas - CT		-				8.56		2.48		210.18		-		
Biogas Nuclear		-		-		-		37.04		-		-		-
Weighted Average		4.22		4.45		4.38		4.77		11.88		4.38		92.90
Burned MBTU's														
Coal		936,579		3,647,482		-		-		-		-		-
Oil - CC		-		-		-		-		-		69		-
Oil - Steam/CT		21,594		30,536		157		11,825		446		-		1,261
Gas - CC		-		-		2,638,968		3,784,247		239,728		3,446,162		-
Gas - CT Biogas		-		-		56,101 -		562,982 2,898		1,764		-		-
Nuclear								-						
Total		958,173		3,678,018		2,695,226		4,361,952		241,938		3,446,231		1,261
Net Generation (mWh)														
Coal		93,040		326,006		-		-		-		-		-
Oil - CC		-		-		-		-		-		8		-
Oil - Steam/CT		2,145		2,743		13		3,323		14		-		25
Gas - CC		-		-		390,474		405,679		38,342		487,225		-
Gas - CT Biogas		-		-		4,478		122,798		71		-		-
Biogas Nuclear		-		-		-		320		-		-		-
Hydro (Total System)		-		-		-		-		-		-		-
Solar (Total System)														
Total		95,185		328,749		394,965		532,120		38,427		487,233		25
Cost of Reagents Consumed (\$)	•		<u>,</u>				<u>,</u>							
Ammonia	\$	48,825	\$	99,167		-	\$	30,144		-		-		-
Limestene		130,779		539,576		-		-		-		-		-
Limestone														-
Re-emission Chemical		- 42 032		- 143 796		-		-		-		-		
Re-emission Chemical Sorbents		- 42,032 -		- 143,796 -		-		-		-		-		-
Re-emission Chemical	\$		\$		\$	-	\$	- - - 30,144	\$	-	\$	-	\$	-

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.

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

# Duke Energy Progress Fuel and Fuel Related Cost Report MARCH 2023

Control         -         -         -         -         -         -         -         -         -         1 </th <th>Description</th> <th>Darlington CT</th> <th>Wayne County CT</th> <th>Weatherspoon CT</th> <th>Brunswick Nuclear</th> <th>Harris Nuclear</th> <th>Robinson Nuclear</th> <th>Current Month</th> <th>Total 12 ME MARCH 2023</th>	Description	Darlington CT	Wayne County CT	Weatherspoon CT	Brunswick Nuclear	Harris Nuclear	Robinson Nuclear	Current Month	Total 12 ME MARCH 2023
OIN         I         5         6.147         I         I         I         Second S	Cost of Fuel Purchased (\$)								
Can-CC         - <td></td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td></td> <td></td>		-	-	-	-	-	-		
date-CT         -         -         -         -         -         -         -         -         1000000000000000000000000000000000000		-	\$ 6,187	-	-	-	-		
Biogent         -         -         -         -         -         -         11.0.07         32.00.050           Total         0         5         5         5         5         5         5         54.04.06.01         51.70.071         32.00.050           Call         -         -         -         -         -         -         -         -         54.00.00         37.02.01         37.		-	-	-	-	-	-		
Total         S         1         1         1         1         9         5         5         9 <td>Gas - CT</td> <td>-</td> <td>4,119</td> <td>\$ 24</td> <td>-</td> <td>-</td> <td>-</td> <td>3,581,975</td> <td>223,742,962</td>	Gas - CT	-	4,119	\$ 24	-	-	-	3,581,975	223,742,962
Average Cost of Full Purchased (pRBTV)         Sold         .<	Biogas	-	-	-	-	-	-	118,507	3,280,456
Coal         -         -         -         -         -         43.34         42.34           Col         -         -         -         -         -         -         20.72           Gas : Cor         -         1.350.40         -         -         -         69.32         62.32           Seegin         -         -         -         -         -         69.32         62.42           Col         -         -         -         -         -         -         69.32         62.43         737.35           Col         -         -         -         -         -         -         99.32         737.35         62.43         737.35         737.45         747.42.40         747.42.40         747.42.40 </td <td>Total</td> <td>\$-</td> <td>\$ 10,306</td> <td>\$ 24</td> <td>\$-</td> <td>\$-</td> <td>\$-</td> <td>\$84,849,541</td> <td>\$1,757,617,307</td>	Total	\$-	\$ 10,306	\$ 24	\$-	\$-	\$-	\$84,849,541	\$1,757,617,307
Ol         -         -         -         -         -         2.74/207         2.7020         2.7020         -         -         0.00000         0.0000         0.00000		))	_	_	_	_	_	453 56	421.68
Gas - CC         -<									
Gas. CT         1.30.40         -         -         -         -         -         7.4480           Biggs         -         -         -         -         -         -         508.27         723.58           Cond of hall bone (f)         -         -         -         -         -         507.25         508.23         723.58           Cond of hall bone (f)         -         -         -         -         -         507.25         508.23         507.255           Cond of hall bone (f)         -         -         -         -         -         507.478.485         507.478.485         507.478.495         507.479.495         5		-	-	-	-	-	-		
Bingsis         -         -         -         -         -         4.89.97         3.73.59           Cot of fuel Surner (8)         -         -         -         -         -         9.72.59           Cot of Cot         -         -         -         -         -         -         9.72.59           Cot of Cot         -         -         -         -         -         9.72.59           Cot of Cot         -         -         -         -         -         9.72.59           Cot of Cot         -         -         -         -         -         9.77.50         -         -         9.77.72.58         9.77.75.55         9.77.75.55         9.77.75.55         9.77.75.55         9.77.75.55         9.77.75.55         9.77.75.55         <		-	-	-	-	-	-		
Weighted Average         -         -         -         592.29         732.35           Cosi of Fuel Burned (3)         -			1,350.49	-	-	-	-		
Cord of under (i)         Second fund	-		-	-	-	-	-		
Call         -         -         -         -         -         5         57,742,271         520,189,201           Coll - C         -         -         -         -         -         -         1,457         774,535           Coll - C         -         -         -         -         -         -         -         1,457         774,535           Coll - C         -         -         -         -         -         -         -         -         -         -         -         -         -         3,412,970         22,323,426         3,412,970         -         -         -         3,412,970         22,323,426         3,412,970         22,323,426         3,412,933,432         -         -         -         3,412,970         22,323,426         3,412,933,432         -         -         -         -         -         -         -         3,512,979         22,323,426         3,412,2393,432         -	Weighted Average	-	3,379.02	-	-	-	-	598.29	732.35
Ol-Steam/CT         S         230,331         -         S         4,179         -		-	-		-			\$17,192,671	\$204,189,853
Ol-StammCT         S         200,311         -         S         4,1790         -	Oil - CC	-	-	-	-	-	-	1,457	754,535
Gen         -         3,881,97         3,2881,98	Oil - Steam/CT	\$ 230.831	-	\$ 47.750	-	-	-		
Gis-CT         5         8, 4109         24         -         -         1.5, 5, 17,22,962         118,507         122,742,962           Blages         -         -         -         5         7,402,661         5         2,419,445         5         3,846,742         155,893,969         177,505,273           Total         -         -         -         5         7,402,661         5         4,219,445         5         3,846,742         155,893,969         177,505,273         5         7,402,661         5         4,219,445         5         3,846,742         155,893,969         177,505,273         5         3,440           Carring Cost of Fuel Burned (2MBTU)         -         -         -         -         -         -         2,451,30         2,113,99         2,247,130         2,340,49         3,350,49         2,2451,30         2,341,30         2,341,30         3,344,49         3,350,49         3,350,49         3,350,49         2,2451,30         3,344,49         3,350,49         2,2451,30         3,344,49         3,350,49         3,350,49         3,350,49         3,350,49         3,350,49         3,350,49         3,350,49         3,350,49         3,350,49         3,350,49         3,350,49         3,350,49         4,350,401         3,350,49			-	-	-	-	-		
Biogas         -         -         -         -         -         -         -         -         118.077         3.280.480         177.580.221           Total         \$         2.00.031         \$         4.119         \$         7.492.613         \$         3.494.721         13.89.072         13.89.823.287           Average Cost of Fuel Burned (xMBTD)         -         -         -         -         -         -         -         2.01.51         5         3.44.272         13.89.823.287           Coal         -         -         -         -         -         -         2.111.350         2.108.98         3.946.722         13.883.823.87           Coal         -         -         2.007.99         -         -         -         2.011.936         2.011.936         3.94.62         2.011.936         3.94.62         2.011.936         3.94.62         2.011.936         3.94.62         2.011.936         3.94.62         2.011.936         3.94.62         2.011.936         3.94.62         2.011.936         3.94.64         4.101         3.73.06         3.94.64         4.101         3.73.06         3.94.64         4.101         3.94.64         4.101         3.94.64         4.94.96.610         6.15.01         6.15.01			\$ 4 119	24			_		
Nuclear         -         -         5         7.492.681         5         4.219.46         5         3.464.742         51.359.390         177.359.232           Average Cost of Fuel Burned (pt/BTU)         -         -         -         -         -         -         -         -         -         -         53.046.742         510.359.320         53.442           Coal         -         -         -         -         -         -         2.113.94         2.010.45           Coal         -         1.720.44         -         2.619.99         -         -         -         2.4151.30         2.010.45           Gas. CC         -         -         1.720.44         1.350.49         2.009.03         68.277         56.49         0.150         2.52.11         3.444.99           Weightes Average         1.720.44         1.300.49         2.009.03         68.277         56.49         0.150         2.22.11         3.444.99           Modear         -         -         -         -         4.10         3.72.38         Modear         3.246.72         56.49         0.150         2.22.11         3.444.99           Out         Coal         -         -         -         4.10			φ 4,113	24					
Total         8         230.831         8         4,119         8         7,492.81         8         4,219.946         8         3,646,742         \$102.942.802         \$1,885.82.367           Average Cost of Fuel Burned (r/METU)         -         -         -         -         -         -         -         -         -         -         -         -         -         2,111.59         2,207.85         0         2,111.59         2,207.85         0         2,111.59         2,207.85         0         2,111.59         2,207.85         0         2,111.59         2,207.85         0         2,111.59         2,207.85         0         2,111.59         2,207.85         0         2,111.59         2,207.85         0         2,110.84         0         0         2,455.50         2,110.84         0         0,63.92         2,80.80         0         5,03.93         0         8,03.92         2,80.80         0 <t< td=""><td></td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td></td><td></td><td></td></t<>		-	-	-	-	-			
Average Cost of Fuel Burned (pt/MSTU)         -         -         -         -         -         -         201-CC         -         -         -         2,11158         2,070.45         334.02           Oil - CC         -         -         -         -         -         2,451.30         2,110.44           Oil - SCC         -         -         -         -         639.62         2,858.00           Gas - CC         -         -         -         -         4,069.27         3,73.38           Nuckern         -         -         -         62.27         56.48         61.50         60.39         58.89           Nuckern         -         -         -         -         -         4,069.27         3,73.38           Nuckern         -         -         -         -         4,10         3,22         3.64.91           Ceal         -         -         -         -         -         1.63.0         2.41.10         3.72.10         3.65.71         2.42.2         8.09         6.06.10         3.62         0.61.01         3.74.10         3.22.2         3.20         3.20         3.20         3.22         3.20         3.20         3.20         3.20		- -	- ¢ 4.110	¢ 47.774					
Coal         .	Total	\$ 230,631	\$ 4,119	<b>Φ</b> 41,114	\$ 7,492,001	\$ 4,219,940	\$ 3,040,742	\$102,942,092	\$1,003,022,307
Oli Steam/CT         1,720.44         -         2,007.799         -         -         2,451.301         2,110.84           Gas - CC         -         1,380.49         -         -         -         576.67         744.80           Biogas         -         -         -         -         -         56.48         61.50         60.39         58.88           Nuclear         -		-	-	-	-	-	-	375.05	334.02
Oli Steam/CT         1,720.44         -         2,007.799         -         -         2,451.301         2,110.84           Gas - CC         -         1,380.49         -         -         -         576.67         744.80           Biogas         -         -         -         -         -         56.48         61.50         60.39         58.88           Nuclear         -	Oil - CC	-	-	-	-	-	-	2,111.59	2,070.45
Gas - CC         -         -         -         -         -         -         -         -         -         369.90         000000000000000000000000000000000000	Oil - Steam/CT	1.720.44	-	2.067.99	-	-	-		2.110.84
Gas-CT         - <td></td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td></td> <td></td>		-	-	-	-	-	-		
Biogas         - <td></td> <td>_</td> <td>1 350 / 0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		_	1 350 / 0						
Nuclear         -         -         -         62.27         56.48         61.50         60.39         58.89           Weighted Average         1,720.44         1,350.49         2,060.03         62.27         56.48         61.50         252.11         346.41           Average Code of Generation (#Wh)         -         -         -         -         4.10         3.72           Oli - Scenar/CT         23.97         -         82.33         -         -         2.15.3         2.41.69           Gas - CT         -         -         -         -         2.262         8.09           Biogas         -         -         -         -         2.05         0.67         0.63         0.62         0.61           Weighted Average         23.97         -         82.37         0.65         0.57         0.63         0.62         0.61           Weighted Average         23.97         -         82.37         0.65         0.57         0.63         0.62         0.61           Weighted Average         23.97         -         82.37         0.65         0.57         0.63         0.62         0.61           Oli - CC         -         -         -         - <td></td> <td></td> <td>1,000.40</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>			1,000.40						
Weighted Average         1,720.44         1,350.49         2,069.03         62.27         56.48         61.50         252.11         346.41           Average Cost of Generation (e/kWh) Coal         -         -         -         -         -         -         -         -         -         -         -         -         -         -         4.10         3.72           Ohl - Co         23.97         82.33         -         -         -         21.53         22.466           Gas - CC         -         -         -         -         -         28.37         24.66           Biogas         -         -         -         -         -         28.27         0.65         0.57         0.63         0.62         0.61           Weighted Average         23.97         -         82.37         0.65         0.57         0.63         0.62         0.61           Weighted Average         23.97         -         -         -         4,584.061         61,131.374           Obl- Start         -         -         0.63         0.62         0.61           Coal         -         -         -         -         10.01.50         149.449.161 <t< td=""><td></td><td>-</td><td>-</td><td>-</td><td>- 60.07</td><td>- </td><td></td><td></td><td></td></t<>		-	-	-	- 60.07	- 			
Average Cost Generation (¢/kWh)         -         -         -         -         -         -         -         4.10         3.72           Oil - Co         -         -         -         -         -         18.30         24.46           Oil - Sizem/CT         23.97         -         82.33         -         -         -         4.89         6.01           Gas - CT         -         -         -         -         4.89         6.01         0.24.28         0.09         0.02         0.01         23.97         82.37         0.05         0.57         0.63         0.02         0.01         23.97         82.37         0.05         0.57         0.63         0.02         0.01         0.02         0.01         0.02         0.01         0.02         0.01         0.02         0.02         0.01         0.02         0.05         0.57         0.63         0.02         0.05         0.57         0.63         0.02         0.05         0.02         0.05         0.057         0.63         0.02         0.05         0.05         0.57         0.63         0.02         0.05         0.057         0.63         0.02         0.05         0.54         0.150.50         0.05         0.01 </td <td></td> <td>4 700 44</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		4 700 44							
Coal         -         -         -         -         -         4.10         3.72           Oli - CC         23.97         -         82.33         -         -         21.53         24.96           Gas - CC         -         -         -         -         24.96         60.1           Gas - CC         -         -         -         2.82         8.09         80.1           Biogas         -         -         0.65         0.57         0.63         0.62         0.61           Wuclear         -         -         0.65         0.57         0.63         0.23         2.32         3.00           Burget MBTVs         -         -         -         -         4.584.061         61.131.374           Oli - CC         -         -         -         -         4.584.061         63.131.374           Oli - CC         -         -         -         -         69         38.443           Oli - Steam/CT         13.417         2.309         -         -         84.449.181           Gas - CT         -         30.5         2.309         12.032.712         7.471.457         5.929.996         2.43.441.65         10.49.494.181     <	weighted Average	1,720.44	1,350.49	2,009.03	02.27	50.46	61.50	252.11	540.41
Oll-OC         -         -         -         -         1.00         24.10           Oll-Steam/CT         23.97         -         82.33         -         -         21.53         24.46           Gas-CC         -         -         -         -         21.53         24.68           Gas-CT         -         -         -         2.82         8.09           Biogas         -         -         -         3.70         2.82         8.09           Weighted Average         2.37         0.65         0.57         0.63         0.62         0.61           Weighted Average         2.37         -         -         -         4.54.061         61.13.374           Oll - OC         -         -         -         -         -         69         56.433           Oll - SC         -         -         -         -         -         69         56.433           Oll - SC         -         -         -         10.109.105         14.94.948         18.56.20           Gas - CT         13.417         305         -         -         2.898         87.407           Nuclear         -         -         12.032.712 <td< td=""><td>Average Cost of Generation (¢/kWh)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	Average Cost of Generation (¢/kWh)								
Oll-CC       -       -       -       -       18.00       24.10         Oll-SteamOT       23.97       -       82.33       -       -       21.53       24.46         Gas-CC       -       -       -       -       4.89       6.01         Gas-CT       -       -       -       -       2.82       8.09         Biogas       -       -       -       -       3.704       28.23       3.20         Weighted Average       23.97       0.85       0.57       0.63       0.62       0.61         Weighted Average       2.37       0.85       0.57       0.63       0.62       0.61         Stored METU's       -       -       -       -       6454.061       61.151.374         Oll - CC       -       -       -       -       69       86.433         Oll - SC       -       -       -       -       10.109.105       149.449.186         Gas - CT       13.417       2.309       -       -       2.898       87.407         Nuclear       -       -       12.032.712       7.471.457       5.929.996       40.832.995       54.381.6110         Di - Co <td< td=""><td>Coal</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>4.10</td><td>3.72</td></td<>	Coal	-	-	-	-	-	-	4.10	3.72
Oil - Steam/CT       23.97       -       82.33       -       -       -       21.53       24.96         Gas - CC       -       -       -       -       2.22       8.09         Biogas       -       -       0.65       0.57       0.63       0.62       0.61         Weighted Average       23.97       -       82.37       0.65       0.57       0.63       2.32       3.20         Bunded MBTUS       -       -       -       -       -       4.540.601       61.131.374         Coal       -       -       -       -       -       69       36.433         Oil - CC       13.417       -       2.309       -       -       -       61.101.061.061       14.94.491.181         Gas - CC       -       -       -       -       -       69       36.443         Oil - Steam/CT       13.417       -       2.309       -       -       -       621.152       30.040.606         Gas - CT       -       -       -       -       2.986       67.407         Nuclear       -       -       -       -       2.986       67.407         Nuclear       -	Oil - CC	-	-	-	-	-	-	18.30	
Gas-CC       -       -       -       -       -       -       4.89       6.01         Gas-CT       -       -       -       -       -       2.22       8.09         Biogas       -       -       0.65       0.57       0.63       0.62       0.61         Weighted Average       23.97       -       82.37       0.65       0.57       0.63       0.62       0.61         Burned MBTUs       -       -       -       -       -       4.584,061       61,131,374         Oli - CC       -       -       -       -       -       -       90       36.43         Oli - SteamCT       13.417       2.009       -       -       81.545       1655.020         Gas - CT       13.417       2.009       -       -       81.645       1655.020         Gas - CT       -       30.05       -       -       -       621.152       30.040.606         Biogas       -       -       12.032.712       7.471.457       5.29.996       25.434.165       301.436.079         Nuclear       13.417       305       2.309       12.032.712       7.471.457       5.29.996       25.434.165       301.436		23.97	-	82.33	-	-	-		
Gas - CT         -         -         -         -         -         -         2.82         8.09           Biogas         -         -         0.65         0.57         0.63         0.62         0.61           Weighted Average         23.97         -         82.37         0.65         0.57         0.63         2.32         3.20           Burned MBTU's         -         -         -         -         -         4.584.061         61.131.374           Oil - Cc         -         -         -         -         -         -         89         36.43           Oil - CC         -         -         -         -         -         -         81.545         165.5020         36.43         161.131.374         162.302,712         7.471.457         5.929.996         25.434.165         301.436.672         30.449.491.181         36.85         301.436.672         30.449.491.181         36.85         30.436.7407         Nuclear         -         -         10.109.105         1449.491.181         36.37.407         Nuclear         -         2.309         12.032.712         7.471.457         5.929.996         25.434.165         301.436.6710         30.436.6710         30.436.6710         30.5         -		20.07		02.00			_		
Bogas         -         -         -         -         -         -         37.04         28.57           Nuclear         -         -         0.65         0.57         0.63         0.62         0.61           Weighted Average         23.97         -         82.37         0.65         0.57         0.63         2.32         3.20           Burned MBTU's         -         -         -         -         -         4.584.061         61.131.374           Col         -         -         -         -         -         4.584.061         61.151.574         1635.020           Gas - CC         -         -         -         -         -         161.152         30.004.066         80.038           Gas - CT         -         305         -         -         -         2.898         807.471.165         17.163.163.079           Nuclear         -         -         12.032.712         7.471.457         5.929.996         24.344.165         301.460.079           Total         13.417         305         2.309         12.032.712         7.471.457         5.929.996         40.832.995         543.816.10           Oli - CC         -         -         -									
Nuclear         -         -         0.65         0.57         0.63         0.62         0.61           Burned MBTU's         -         82.37         -         82.37         0.65         0.57         0.63         2.32         3.20           Burned MBTU's         -         -         -         -         -         -         4.584,061         61,131,37           Oil - CC         -         -         -         -         -         -         69         364,43           Oil - Steam/CT         13,417         -         2,309         -         -         10,109,105         1494,49,81           Gas - CT         -         305         -         -         -         20,204,066           Biogas         -         -         -         -         -         2,898         87,407           Nuclear         -         -         -         -         -         2,898         87,407           Total         13,417         305         2,309         12,032,712         7,471,457         5,929,996         25,434,165         301,436,079           Total         -         -         -         -         -         -         8,3131 <t< td=""><td></td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td></td><td></td><td></td></t<>		-	-	-	-	-			
Weighted Average         23.97         -         82.37         0.65         0.57         0.63         2.32         3.20           Burned MBTU's Coal         -         -         -         -         -         4,584,061         61,131,374           Oil - CC         -         -         -         -         -         -         69         36,443           Oil - CC         13,417         -         2,309         -         -         -         81,545         1,653,030,040,606           Gas - CT         305         -         -         -         2,998         87,407           Nuclear         -         -         12,032,712         7,471,457         5,929,996         25,434,165         301,436,079           Total         13,417         305         2,309         12,032,712         7,471,457         5,929,996         40,832,995         543,8110           Notlear         -         -         -         -         -         8         3,131           Oil - CC         -         -         -         -         9,85         13,82,95         5438,918           Oil - CC         -         -         -         -         -         9,285         138		-	-	-	-	-			
Burne ABTUs         Coal         -         -         -         -         -         4,584,061         61,131,374           Ol - CC         -         -         -         -         -         -         69         36,443           Ol - SC         -         -         -         -         -         -         81,545         16,550,20           Gas - CC         -         -         -         -         -         10,109,105         149,449,181           Gas - CT         -         305         -         -         -         2,898         87,407           Nuclear         -         -         -         10,109,105         149,449,181           Gas - CT         -         305         -         -         -         2,898         87,407           Nuclear         -         -         -         12,032,712         7,471,457         5,929,996         25,434,165         301,436,079           Total         13,417         305         2,309         12,032,712         7,471,457         5,929,996         40,832,995         5,489,198           Ol - CC         -         -         -         -         419,045         5,489,198		23.07	-	- 82.37					
Coal         -         -         -         -         -         4,584,061         61,131,374           OII - CC         -         -         -         -         -         69         36,443           OII - Steam/CT         13,417         2,309         -         -         81,545         1,655,020           Gas - CC         -         -         0.1         5         -         0.1         10,109,105         149,449,181           Gas - CT         -         305         -         -         2.02         20,040,005           Biogas         -         -         12,032,712         7,471,457         5,929,996         25,434,165         301,436,079           Nuclear         -         -         -         12,032,712         7,471,457         5,929,996         40,332,995         543,816,110            13,417         305         2,309         12,032,712         7,471,457         5,929,996         40,332,995         543,816,10            13,417         305         2,309         12,032,712         7,471,457         5,929,996         40,332,995         543,816,10           OII - CC         -         -         -         - <t< td=""><td>Weighted Average</td><td>25.51</td><td></td><td>02.57</td><td>0.00</td><td>0.57</td><td>0.03</td><td>2.52</td><td>5.20</td></t<>	Weighted Average	25.51		02.57	0.00	0.57	0.03	2.52	5.20
Oil - CC         -         -         -         -         -         -         69         36,443           Oil - Steam/CT         13,417         -         2,309         -         -         -         81,545         1,635,020           Gas - CC         -         -         -         -         10,109,105         149,449,181           Gas - CT         -         305         -         -         -         621,152         30,040,666           Biogas         -         -         12,032,712         7,471,457         5,929,996         26,434,165         301,436,079           Nuclear         -         -         -         12,032,712         7,471,457         5,929,996         40,832,995         543,816,110           Net Generation (mWh)         -         -         -         -         419,045         5,489,198           Oil - CC         -         -         -         -         9,285         138,295           Gas - CT         963         -         58         -         -         9,285         138,295           Gas - CT         -         -         1,217,20         20,645,425         36,432         148,366         734,224         582,021									
Oil - Steam/CT         13,417         -         2,309         -         -         -         81,545         1,635,020           Gas - CC         -         -         -         -         -         -         -         10,109,105         149,449,181           Gas - CC         -         305         -         -         -         -         10,109,105         149,449,181           Gas - CT         -         -         -         -         -         -         2,898         87,407           Nuclear         -         -         12,032,712         7,471,457         5,929,996         25,434,165         301,436,079           Total         13,417         305         2,309         12,032,712         7,471,457         5,929,996         40,832,995         54,83,161           Nuclear         -         -         -         -         -         -         -         -         2,9996         40,832,995         54,89,198           Oil - CC         -         -         -         -         -         -         9,255         133,295         54,89,198           Oil - Steam/CT         963         -         -         -         -         9,265         133,292 <td>Coal</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>4,584,061</td> <td>61,131,374</td>	Coal	-	-	-	-	-	-	4,584,061	61,131,374
Gas - CC         -         -         -         -         -         10,109,105         149,449,181           Gas - CT         -         305         -         -         -         621,152         30,040,606           Biogas         -         -         12,032,712         7,471,457         5,929,996         25,434,165         301,436,079           Nuclear         -         -         12,032,712         7,471,457         5,929,996         40,832,995         543,816,110           Net Generation (mWh)         -         -         -         -         419,045         5,489,198           Oil - CC         -         -         -         -         -         419,045         5,489,198           Oil - CC         -         -         -         -         -         9,285         138,285           Gas - CC         -         -         -         -         9,285         138,285         38,285           Gas - CT         963         -         -         -         9,285         138,285           Gas - CT         -         (132)         -         -         1,21,720         20,645,425           Gas - CT         -         -         1,248,366	Oil - CC	-	-	-	-	-	-	69	36,443
Gas - CC         -         -         -         -         -         10,109,105         149,449,181           Gas - CT         -         305         -         -         -         621,152         30,040,606           Biogas         -         -         12,032,712         7,471,457         5,929,996         25,434,165         301,436,079           Nuclear         -         -         12,032,712         7,471,457         5,929,996         40,832,995         543,816,110           Net Generation (mWh)         -         -         -         -         419,045         5,489,198           Oil - CC         -         -         -         -         -         419,045         5,489,198           Oil - CC         -         -         -         -         -         9,285         138,285           Gas - CC         -         -         -         -         9,285         138,285         38,285           Gas - CT         963         -         -         -         9,285         138,285           Gas - CT         -         (132)         -         -         1,21,720         20,645,425           Gas - CT         -         -         1,248,366	Oil - Steam/CT	13,417	-	2,309	-	-	-	81,545	1,635,020
Gas - CT         -         305         -         -         -         621,152         30,040,666           Biogas         -         -         -         -         -         2,898         87,407           Nuclear         -         -         12,032,712         7,471,457         5,929,996         25,434,165         301,436,079           Total         13,417         305         2,309         12,032,712         7,471,457         5,929,996         24,343,165         3043,816,110           Net Generation (mWh)         Coal         -         -         -         -         419,045         5,489,198           Oil - CC         -         -         -         -         -         9,285         133,8295           Gas - CC         -         -         58         -         -         9,285         133,8295           Gas - CT         963         -         58         -         -         1,321,720         20,645,425           Gas - CT         -         -         1,418,366         734,224         582,021         2,464,613         28,99,013           Biogas         -         -         1,148,366         734,224         582,021         2,464,614         28,99,01		· -	-	-	-	-	-		
Biogas         -         -         -         -         -         2,898         87,407           Nuclear         -         -         12,032,712         7,471,457         5,929,996         25,434,165         301,436,079           Total         13,417         305         2,309         12,032,712         7,471,457         5,929,996         40,832,995         543,816,110           Net Generation (mWh)         -         -         -         -         -         -         419,045         5,489,198         3,131           Oil - CC         -         -         -         -         -         9,285         138,295         Gas - CC         9,63         -         -         -         9,285         138,295         Gas - CC         -         -         1,321,720         20,645,425         Gas - CC         -         -         1,321,720         20,645,425         Gas - CC         -         -         1,321,720         20,645,425         Gas - CC         -         -         1,27,215         2,766,387         Biogas         -         -         -         1,27,215         2,766,387         Biogas         -         -         -         2,272         250,713         Biogas         -         -         -		-	305	-	-	-	-		
Nuclear         -         -         12,032,712         7,471,457         5,929,996         25,434,165         301,436,079           Total         13,417         305         2,309         12,032,712         7,471,457         5,929,996         40,832,995         543,816,110           Net Generation (mWh)         -         -         -         -         419,045         5,489,198           Oil - CC         -         -         -         -         -         419,045         5,489,198           Oil - CC         -         -         -         -         -         9,285         138,295           Gas - CC         -         -         -         -         -         9,285         138,295           Gas - CT         -         -         -         -         -         1,21,720         20,645,425           Gas - CT         -         (132)         -         -         -         127,215         2,766,387           Biogas         -         -         1,148,366         734,224         582,021         2,464,611         28,995,015           Nuclear         -         -         1,148,366         734,224         582,021         4,446,063         58,900,342		-	-	-	-	-	-		
Total         13,417         305         2,309         12,032,712         7,471,457         5,929,996         40,832,995         543,816,100           Net Generation (mWh)         Coal         -         -         -         -         419,045         5,489,198           Oil - CC         -         -         -         -         -         419,045         5,489,198           Oil - CC         -         -         -         -         -         -         8         3,131           Oil - Steam/CT         963         -         58         -         -         -         9,285         138,295           Gas - CT         963         -         58         -         -         -         13,21,720         20,645,425           Gas - CT         -         (132)         -         -         -         127,215         2,766,387           Biogas         -         -         1,148,366         734,224         582,021         2,464,611         28,995,015           Hydro (Total System)         -         -         -         -         32,772         27,82         250,713           Total         963         (132)         58         1,148,366         734,224		-	-		12 032 712	7 471 457			
Net Generation (mWh)         -         -         -         -         419,045         5,489,198         5,489,198         5,131         5,131         5,131         5,131         5,131         5,131         5,132,255         5,32,255         5,32,021         2,446,46,11         2,52,05,23         1,148,366         7,34,224         5,582,021         2,446,063         5,890,034         2,27,28         2,50,713         3,131         600,694         2,27,28         2,50,713         3,131         600,694         3,131         600,694         3,131         600,694         3,131         600,694         3,131         600,		13,417	305	2,309					
Coal         -         -         -         -         -         -         419,045         5,489,198           Oil - CC         -         -         -         -         -         -         8         3,131           Oil - CC         963         -         58         -         -         9,285         138,295           Gas - CC         -         -         -         -         1,321,720         20,645,255           Gas - CT         (132)         -         -         -         1,321,720         20,645,255           Gas - CT         -         (132)         -         -         -         320         11,483           Nuclear         -         -         1,148,366         734,224         582,021         2,464,611         28,995,015           Hydro (Total System)         -         -         -         -         -         22,728         250,713           Total         963         (132)         58         1,148,366         734,224         582,021         4,446,063         58,900,342           Exerct of Reagents Consumed (S)         -         -         -         -         -         27,785         7,995,151           Re-emission									
Oil - CC         -         -         -         -         -         -         -         -         -         -         8         3,131           Oil - Steam/CT         963         -         58         -         -         -         9,285         138,295           Gas - CC         -         -         -         -         -         1,321,720         20,645,425           Gas - CT         -         (132)         -         -         -         1,27,15         2,766,385           Biogas         -         -         -         -         320         11,483           Nuclear         -         -         -         -         320         11,483           Nuclear         -         -         -         -         320         11,483           Solar (Total System)         -         -         -         -         320         11,483           Solar (Total System)         -         -         -         -         320         11,483           Memonia         -         -         -         -         -         320         3753,443           Limestone         -         -         -         -									
Oil - Steam/CT         963         -         58         -         -         -         9,855         138,295           Gas - CC         -         -         -         -         -         -         1,321,720         20,645,425           Gas - CT         -         (132)         -         -         -         -         1,321,720         20,645,425           Gas - CT         -         (132)         -         -         -         -         12,720         20,645,425           Biogas         -         -         -         -         -         12,720         20,645,425           Nuclear         -         -         -         -         -         -         12,720         21,720         21,720         21,720         20,645,425           Nuclear         -         -         -         -         -         12,720         21,720         21,760,307           Nuclear         -         -         1,148,366         734,224         582,021         2,464,611         28,995,015           Nuclear         -         -         -         -         22,728         250,713           Total         963         (132)         58         1,1		-	-	-	-	-	-	419,045	5,489,198
Gas - CC       -       -       -       -       -       1,321,720       20,645,425         Gas - CT       (132)       -       -       -       127,215       2,766,387         Biogas       -       -       -       -       -       320       11,483         Nuclear       -       -       -       -       -       320       11,483         Nuclear       -       -       -       1,148,366       734,224       582,021       2,464,611       28,995,015         Hydro (Total System)       -       -       -       1,148,366       734,224       582,021       2,464,613       28,995,015         Solar (Total System)       -       -       -       1,148,366       734,224       582,021       2,464,613       28,990,342         Total       963       (132)       58       1,148,366       734,224       582,021       4,446,063       58,900,342         Cost of Reagents Consumed (\$)         Ammonia       -       -       -       -       \$3,753,443         Limestone       -       -       -       -       0       0         Sorbents       -       -       -       -       <	Oil - CC	-	-	-	-	-	-	8	3,131
Gas - CT       -       (132)       -       -       -       127,215       2,766,387         Biogas       -       -       -       -       -       320       11,483         Nuclear       -       -       -       -       -       320       11,483         Nuclear       -       -       -       -       -       320       11,483         Nuclear       -       -       1,148,366       734,224       582,021       2,464,611       28,995,015         Hydro (Total System)       -       -       -       -       22,728       250,713         Total       963       (132)       58       1,148,366       734,224       582,021       4,446,063       58,900,342         Ammonia       -       -       -       -       -       2,728       250,713         Re-emission Chemical       -       -       -       -       -       \$3,753,443         Limestone       -       -       -       -       -       670,355       7,995,154         Re-emission Chemical       -       -       -       -       -       0       0         Sorbents       -       -	Oil - Steam/CT	963	-	58	-	-	-	9,285	138,295
Gas - CT       -       (132)       -       -       -       127,215       2,766,387         Biogas       -       -       -       -       -       320       11,483         Nuclear       -       -       -       -       -       320       11,483         Nuclear       -       -       -       -       -       320       11,483         Nuclear       -       -       1,148,366       734,224       582,021       2,464,611       28,995,015         Hydro (Total System)       -       -       -       -       22,728       250,713         Total       963       (132)       58       1,148,366       734,224       582,021       4,446,063       58,900,342         Ammonia       -       -       -       -       -       2,728       250,713         Re-emission Chemical       -       -       -       -       -       \$3,753,443         Limestone       -       -       -       -       -       670,355       7,995,154         Re-emission Chemical       -       -       -       -       -       0       0         Sorbents       -       -	Gas - CC	-	-	-	-	-	-	1,321,720	20,645,425
Biogas       -       -       -       -       -       320       11,483         Nuclear       -       -       1,148,366       734,224       582,021       2,464,611       28,995,015         Hydro (Total System)       -       -       1,148,366       734,224       582,021       2,464,611       28,995,015         Solar (Total System)       -       -       -       1,148,366       734,224       582,021       2,464,611       28,995,015         Solar (Total System)       -       -       -       -       22,728       250,713         Total       963       (132)       58       1,148,366       734,224       582,021       4,446,063       58,900,342         Cost of Reagents Consumed (\$)         Armonia       -       -       -       -       \$178,136       \$3,753,443         Linestone       -       -       -       -       670,355       7,995,151         Re-emission Chemical       -       -       -       -       -       0       0         Sorbents       -       -       -       -       -       -       0       0       0         Urea       -       -       - </td <td>Gas - CT</td> <td>-</td> <td>(132)</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td></td> <td></td>	Gas - CT	-	(132)	-	-	-	-		
Nuclear         -         -         1,148,366         734,224         582,021         2,464,611         28,995,015         81,131         600,694         22,728         250,713         22,728         250,713         22,728         250,713         22,728         250,713         22,728         250,713         23,950,015         81,131         600,694         22,728         250,713         22,728         250,713         23,950,015         81,021         24,446,063         58,900,342         258,021         4,446,063         58,900,342         258,021         4,446,063         58,900,342         258,021         4,446,063         58,900,342         258,021         4,446,063         58,900,342         258,021         4,446,063         58,900,342         258,021         4,446,063         58,900,342         258,021         4,446,063         58,900,342         24,446,063         58,900,342         24,446,063         58,900,342         24,446,063         58,900,342         24,446,063         58,900,342         24,446,063         58,900,342         24,446,063         58,900,342         24,446,063         58,900,342         24,446,063         58,900,342         24,446,063         58,900,342         24,446,063         58,900,342         24,446,063         58,900,342         24,446,063         58,900,342         24,446,063		-	-	-	-	-	-		
Hydro (Total System) Solar (Total System) Total         81,131         600,694           963         (132)         58         1,148,366         734,224         582,021         4,446,063         58,900,342           Cost of Reagents Consumed (\$)         -         -         -         -         -         \$1,781,366         \$3,753,443           Limestone         -         -         -         -         -         \$178,136         \$3,753,443           Re-emission Chemical         -         -         -         -         670,355         7,995,151           Sorbents         -         -         -         -         -         0         0           Urea         -         -         -         -         -         0         0         0		-	-	-	1.148.366	734,224	582.021		
Solar (Total System) Total         22,728         250,713           963         (132)         58         1,148,366         734,224         582,021         4,446,063         58,900,342           Cost of Reagents Consumed (\$)         -         -         -         -         -         \$178,136         \$3,753,443           Limestone         -         -         -         -         -         \$670,355         7,995,151           Re-emission Chemical         -         -         -         -         -         0           Sorbents         -         -         -         -         -         0         0           Urea         -         -         -         -         -         0         0         0					.,	101,224	002,021		
Total         963         (132)         58         1,148,366         734,224         582,021         4,446,063         58,900,342           Cost of Reagents Consumed (\$)           Ammonia         -         -         -         -         -         \$178,136         \$3,753,443           Limestone         -         -         -         -         -         670,355         7,995,151           Re-emission Chemical         -         -         -         -         -         -         0         0           Sorbents         -         -         -         -         -         -         0         0         0									
Cost of Reagents Consumed (\$)         Ammonia       -       -       -       -       \$178,136       \$3,753,443         Limestone       -       -       -       -       670,355       7,995,151         Re-emission Chemical       -       -       -       -       -       0         Sorbents       -       -       -       -       0       185,828       2,300,629         Urea       -       -       -       -       0       0       0		963	(132)	58	1.148.366	734.224	582.021		
Ammonia       -       -       -       -       -       \$178,136       \$3,753,443         Limestone       -       -       -       -       -       670,355       7,995,151         Re-emission Chemical       -       -       -       -       -       0         Sorbents       -       -       -       -       0       0         Urea       -       -       -       0       0       0		200	(.02)		,,		,	,,	
Limestone       -       -       -       -       670,355       7,995,151         Re-emission Chemical       -       -       -       -       -       0         Sorbents       -       -       -       -       -       0         Urea       -       -       -       -       0       0								<b>•</b>	A ·
Re-emission Chemical         -         -         -         -         0           Sorbents         -         -         -         -         -         0         2,300,629         2,300,629         0 <td></td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td></td> <td></td>		-	-	-	-	-	-		
Sorbents         -         -         -         -         -         185,828         2,300,629           Urea         -         -         -         -         -         0         0		-	-	-	-	-	-		
Urea 0 0	Re-emission Chemical	-	-	-	-	-	-	-	
	Sorbents	-	-	-	-	-	-	185,828	2,300,629
Total \$ - \$ - \$ - \$ - \$ - \$1,034,319 \$14,049,223	Urea		-	-	-	-	-	0	0
	Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$1,034,319	\$14,049,223

Schedule 6

#### Page 1 of 2

Duke Energy Progress
Fuel & Fuel-related Consumption and Inventory Report
MARCH 2023

Burnstellun	•	Barkan	A - 1 111 -	Smith Energy Complex	0.44.0		<b>D</b> 1
Description	Мауо	Roxboro	Asheville	complex	Sutton	Lee	Blewett
Coal Data:							
Beginning balance	343,864	1,011,887	-	-	-	-	-
Tons received during period	24,268	110,714	-	-	-	-	-
Inventory adjustments	-	-	-	-	-	-	-
Tons burned during period	37,016	142,474	-	-	-	-	-
Ending balance	331,116	980,127	-	-	-	-	-
MBTUs per ton burned	25.30	25.60	-	-	-	-	-
Cost of ending inventory (\$/ton)	92.32	96.66	-	-	-	-	-
Oil Data:							
Beginning balance	280,064	400,567	4,710,720	7,983,345	1,963,097	-	793,789
Gallons received during period	52,519	202,486	-	-	-	-	-
Miscellaneous use and adjustments	(1,419)	(7,502)	-	-	-	-	-
Gallons burned during period	156,878	221,978	1,152	84,463	3,186	-	9,007
Ending balance	174,286	373,573	4,709,568	7,898,882	1,959,911	-	784,782
Cost of ending inventory (\$/gal)	3.84	3.85	3.22	2.69	2.80	-	2.58
Natural Gas Data:							
Beginning balance	-	-	-	-	-	-	-
MCF received during period	-	-	2,612,955	4,201,340	233,675	3,330,559	-
MCF burned during period	-	-	2,612,955	4,201,340	233,675	3,330,559	-
Ending balance	-	-	-	-	-	-	-
Biogas Data:							
Beginning balance	-	-	-	-	-	-	-
MCF received during period	-	-	-	2,800	-	-	-
MCF burned during period	-	-	-	2,800	-	-	-
Ending balance	-	-	-	-	-	-	-
Limestone/Lime Data:							
Beginning balance	17,472	60,207	-	-	-	-	-
Tons received during period	1,586	5,526	-	-	-	-	-
Inventory adjustments	-	-	-	-	-	-	-
Tons consumed during period	2,189	11,026	-	-	-	-	-
Ending balance	16,868	54,707	-	-	-	-	-
Cost of ending inventory (\$/ton)	60.07	46.99	-	-	-	-	-

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.

Schedule 6 Page 2 of 2

#### Duke Energy Progress Fuel & Fuel-related Consumption and Inventory Report MARCH 2023

Description	Darlington	Wayne County	Weatherspoon	Brunswick	Harris	Robinson	Current Month	Total 12 ME March 2023
Coal Data:								
Beginning balance	-	-	-	-	-	-	1,355,751	1,108,374
Tons received during period	-	-	-	-	-	-	134,982	2,551,239
Inventory adjustments	-	-	-	-	-	-	-	59,158
Tons burned during period	-	-	-	-	-	-	179,490	2,407,532
Ending balance	-	-	-	-	-	-	1,311,243	1,311,243
MBTUs per ton burned	-	-	-	-	-	-	25.54	25.39
Cost of ending inventory (\$/ton)	-	-	-	-	-	-	95.57	95.57
Oil Data:								
Beginning balance	7,373,788	10,048,902	606,046	-	125,879	-	34,286,197	33,306,362
Gallons received during period	-	-	-	-	-	-	255,005	12,889,846
Miscellaneous use and adjustments	-	-	-	-	-	-	(8,921)	(106,042)
Gallons burned during period	96,442	503	16,498	-	-	-	590,107	12,147,990
Ending balance	7,277,346	10,048,399	589,548	-	125,879	-	33,942,174	33,942,174
Cost of ending inventory (\$/gal)	2.39	2.90	2.89	-	2.31	-	2.79	2.79
Natural Gas Data:								
Beginning balance	-	-	-	-	-	-	-	-
MCF received during period	-	295	-	-	-	-	10,378,824	173,925,356
MCF burned during period	-	295	-	-	-	-	10,378,824	173,925,356
Ending balance	-	-	-	-	-	-	-	-
Biogas Data:								
Beginning balance	-	-	-	-	-	-	-	-
MCF received during period	-	-	-	-	-	-	2,800	84,722
MCF burned during period	-	-	-	-	-	-	2,800	84,722
Ending balance	-	-	-	-	-	-	-	-
Limestone/Lime Data:								
Beginning balance	-	-	-	-	-	-	77,679	93,661
Tons received during period	-	-	-	-	-	-	7,112	124,295
Inventory adjustments	-	-	-	-	-	-	-	2,399
Tons consumed during period	-	-	-	-	-	-	13,215	148,780
Ending balance	-	-	-	-	-	-	71,575	71,575
Cost of ending inventory (\$/ton)	-	-	-	-	-	-	50.07	50.07

#### DUKE ENERGY PROGRESS

ANALYSIS OF COAL PURCHASED

**MARCH 2023** 

STATION	ТҮРЕ	QUANTITY OF TONS DELIVERED	D	ELIVERED COST		LIVERED
ΜΑΥΟ	SPOT CONTRACT FUEL MANAGEMENT AGREEMENT FIXED TRANSPORTATION/ADJUSTMENTS	24,268	\$	2,454,073 430,114 2,854	\$	- 101.12 -
	TOTAL	24,268	\$	2,887,041	\$	118.96
ROXBORO	SPOT CONTRACT	- 110,714	\$	- 11,519,611	\$	- 104.05
	FUEL MANAGEMENT AGREEMENT FIXED TRANSPORTATION/ADJUSTMENTS	-		477,106 599,077	Ψ	-
	TOTAL	110,714	\$	12,595,795	\$	113.77
ALL PLANTS	SPOT	-	\$	-		-
	CONTRACT FUEL MANAGEMENT AGREEMENT FIXED TRANSPORTATION/ADJUSTMENTS	134,982 - -		13,973,684 907,220 601,931	\$	103.52 -
	TOTAL	134,982	\$	15,482,836	\$	114.70

Schedule 8

# DUKE ENERGY PROGRESS ANALYSIS OF COAL QUALITY RECEIVED

### **MARCH 2023**

STATION	PERCENT MOISTURE	PERCENT ASH	HEAT VALUE	PERCENT SULFUR
ΜΑΥΟ	6.95	10.28	12,470	1.59
ROXBORO	6.52	9.43	12,683	1.84

#### Schedule 9

#### DUKE ENERGY PROGRESS ANALYSIS OF OIL PURCHASED MARCH 2023

		MAYO	R	OXBORO		
VENDOR	Greens	sboro Tank Farm	Greens	boro Tank Farm		
SPOT/CONTRACT	Contract			Contract		
SULFUR CONTENT %		0		0		
GALLONS RECEIVED		52,519		202,486		
TOTAL DELIVERED COST	\$	200,032	\$	770,004		
DELIVERED COST/GALLON	\$	3.81	\$	3.80		
BTU/GALLON		138,000		138,000		

Notes:

Sampling Charges of \$6187 at Wayne County are excluded.

### Duke Energy Progress Power Plant Performance Data Twelve Month Summary Report Period: April 2022 - March 2023

Unit	Net Generation (MWH)	Capacity Rating (MW)	Capacity Factor (%)	Equivalent Availability (%)
Brunswick 1	8,203,908	938	99.84	97.36
Brunswick 2	7,344,357	932	89.96	89.67
Harris 1	7,796,371	964	92.32	90.83
Robinson 2	5,650,379	759	84.98	83.15

EAF is calculated using Standard NERC calculation and excludes OMC events

Schedule 10 Page 2 of 6

## Duke Energy Progress Power Plant Performance Data Twelve Month Summary April, 2022 through March, 2023 Combined Cycle Units

Unit Name		Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Lee Energy Complex	1A	1,181,280	225	59.93	72.84
Lee Energy Complex	1B	1,165,624	227	58.62	73.69
Lee Energy Complex	1C	1,313,993	228	65.79	81.29
Lee Energy Complex	ST1	2,208,791	379	66.53	73.95
Lee Energy Complex	Block Total	5,869,688	1,059	63.27	75.24
Smith Energy Complex	7	1,000,818	193	59.20	66.12
Smith Energy Complex	8	1,005,112	193	59.45	67.02
Smith Energy Complex	ST4	1,130,297	184	70.12	73.04
Smith Energy Complex	9	1,296,243	215	68.82	77.35
Smith Energy Complex	10	1,305,894	215	69.34	78.11
Smith Energy Complex	ST5	1,812,878	252	82.12	84.83
Smith Energy Complex	Block Total	7,551,242	1,252	68.85	75.03
Sutton Energy Complex	1A	1,100,184	224	56.07	64.54
Sutton Energy Complex	1B	1,085,252	224	55.31	66.19
Sutton Energy Complex	ST1	1,347,652	271	56.77	73.65
Sutton Energy Complex	Block Total	3,533,088	719	56.09	68.49
Asheville CC	ACC CT5	1,194,795	190	71.79	72.26
Asheville CC	ACC CT7	1,264,966	190	76.00	79.73
Asheville CC	ACC ST6	599,466	90	76.04	76.06
Asheville CC	ACC ST8	646,794	90	82.04	81.05
Asheville CC	Block Total	3,706,021	560	75.55	76.82

#### Notes:

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

Data is reflected at 100% ownership.

Aug 28 2023

Schedule 10 Page 3 of 6

# Duke Energy Progress Power Plant Performance Data Twelve Month Summary April, 2022 through March, 2023 Intermediate Steam Units

Unit Name	Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Mayo 1	983,775	713	15.75	56.04
Roxboro 2	1,906,115	673	32.33	78.55
Roxboro 3	1,361,025	698	22.26	73.09
Roxboro 4	610,304	711	9.80	41.34

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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Schedule 10 Page 4 of 6

# Duke Energy Progress Power Plant Performance Data Twelve Month Summary April, 2022 through March, 2023 Other Cvcling Steam Units

		Net Generation	Capacity	Capacity	Operating
Unit Name		(mWh)	Rating (mW)	Factor (%)	Availability (%)
Roxboro	1	657,914	389	19.30	77.56

Notes:

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

Schedule 10 Page 5 of 6

### Duke Energy Progress Power Plant Performance Data Twelve Month Summary April, 2022 through March, 2023 Combustion Turbine Stations

Station Name	Net Generation (mWh)	Capacity Rating (mW)	Operating Availability (%)	
Asheville CT	359,074	370	95.55	
Blewett CT	141	68	94.64	
Darlington CT	92,768	264	93.23	
Smith Energy Complex CT	1,892,412	960	79.78	
Sutton Fast Start CT	9,231	98	97.53	
Wayne County	520,136	966	79.35	
Weatherspoon CT	986	164	90.41	

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Notes:

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

# Duke Energy Progress Power Plant Performance Data

Twelve Month Summary April, 2022 through March, 2023

# Hydroelectric Stations

Station Name	Net Generation (mWh)	Capacity Rating (mW)	Operating Availability (%)
Blewett	112,305	27.0	93.93
Marshall	591	4.0	92.36
Tillery	165,666	85.0	83.95
Walters	322,131	113.0	51.08

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Harrington Exhibit 8A

Schedule 10 Page 6 of 6

Notes:

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

Page 1 of 21

#### Duke Energy Progress Base Load Power Plant Performance Review Plan Report Period: March 2023

Station	Unit	Date of Outage	Duration of Outage (Hours)	Scheduled / Unscheduled	Cause of Outage	Reason Outage Occurred	Remedial Actions Taken
Brunswick	1						
	2	02/07/2023 - 03/08/2023	173.65	Scheduled	B2R26 Refueling Outage	N/A normally scheduled refueling outage.	N/A normally scheduled refueling outage.
Harris	1						
Robinson	2						

#### Duke Energy Progress Baseload Steam and CHP Units Performance Review Plan March 2023

#### **DEP** Asheville CC

Unit	Duration of Outage	Type of Outage	Cause of Ou	tage	Reason Outage Occurred	Remedial Action Taken
ST6	3/30/2023 11:55:00 PM To 3/31/2023 12:00:00 AM	Sch	8700	CEMS Certification and Recertification	Unit 6 Steam Turbine offline to perform RATA test on Unit 5 bypass stack.	

#### Lee Energy Complex

Unit	Duration of Outage	Type of Outage	Cause of Ou	tage	Reason Outage Occurred	Remedial Action Taken
1A	3/31/2023 12:23:00 PM To 3/31/2023 12:30:00 PM	Unsch	5049	Other fuel system problems	Unit tripped during fuel swap to liquid fuel	такеп
1B	3/7/2023 11:59:00 PM To 4/16/2023 4:24:00 AM	Sch	5012	High pressure blades/buckets	Planned outage to replace compressor blades on rows 10-13	
1C	3/31/2023 3:37:00 PM To 3/31/2023 3:45:00 PM	Unsch	5049	Other fuel system problems	Unit tripped during fuel swap to liquid fuel.	
ST1	3/31/2023 11:41:00 AM To 4/16/2023 10:23:00 AM	Sch	4401	Inspection	GMS Outage	

#### **Mayo Station**

Unit	Duration of Outage	Type of Outage	Cause of Out	tage	Reason Outage Occurred	Remedial Action Taken
1	3/7/2023 7:10:00 PM To 3/8/2023 1:00:00 PM	Unsch	4309 Other turbine instrument and control problems		Forced outage due to #3 Throttle Valve erratic behavior. Valve is opening when it should be shut.	
1	3/20/2023 10:29:00 PM To 3/31/2023 12:00:00 AM	Sch	4261	Control valves	GMS Outage for work on the turbine Throttle valves, Governor valves. We will also rebuild A&D AR pump suction valves and the associated pump. Drone inspection of the boiler burners and FGD suction and discharge piping.	

#### **Roxboro Station**

Unit	Duration of Outage	Type of Outage	Cause of Out	age	Reason Outage Occurred	Remedial Action Taken
3	3/28/2023 5:00:00 PM To 3/30/2023 3:00:00 PM	Sch	3622	Station service startup transformer	3A Start Up Transformer blown PT fuses. Replacement fuses ordered and installed.	Taken
4	2/20/2023 7:00:00 AM To 3/16/2023 9:00:00 AM	Sch	8580	Mechanical precipitator problems	Precip/DFA System Work	

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

Data is reflected at 100% ownership

Aug 28 2023

#### Duke Energy Progress Baseload Steam and CHP Units Performance Review Plan March 2023

#### **Smith Energy Complex**

Unit	Duration of Outage	Type of Outage	Cause of Out	tage	Reason Outage Occurred	Remedial Action Taken	
7	3/17/2023 5:01:00 AM To 3/31/2023 12:00:00 AM	Sch	4400	Major turbine overhaul (720 hours or longer) (use for non-specific overhaul only; see page B-CCGT-2)	Full Block, ST4 Major, BOP.		
8	3/17/2023 5:01:00 AM To 3/31/2023 12:00:00 AM	Sch	4400	Major turbine overhaul (720 hours or longer) (use for non-specific overhaul only; see page B-CCGT-2)	Full Block, ST4 Major, BOP.		
9	2/24/2023 3:41:00 AM To 3/14/2023 12:43:00 AM	Sch	5035	Compressor washing	Fall GMS Outage, Borescope, Air Seperator inspection, BOP.		
9	3/14/2023 11:18:00 AM To 3/15/2023 1:38:00 AM	Sch	4700	Generator voltage control	Initial AVR testing complete, waiting for engineering confirmation.		
10	2/24/2023 4:24:00 AM To 3/14/2023 9:44:00 PM	Sch	5035	Compressor washing	Fall GMS Outage, Borescope, Air Seperator inspection, BOP.		
10	3/23/2023 9:42:00 PM To 3/24/2023 2:01:00 PM	Sch	5052	Pilot fuel nozzles/vanes	Repair gas leak on Pilot nozzle		
10	3/29/2023 11:50:00 AM To 3/30/2023 5:05:00 AM	Unsch	5049	Other fuel system problems	Gas leak developed on the C stage gas tubing on combustion can #9.		
ST4	3/17/2023 4:07:00 AM To 3/31/2023 12:00:00 AM	Sch	4400	Major turbine overhaul (720 hours or longer) (use for non-specific overhaul only; see page B-CCGT-2)	Full Block, ST4 Major, BOP.		
ST5	2/24/2023 3:01:00 AM To 3/15/2023 3:40:00 AM	Sch	5035	Compressor washing	Fall GMS Outage, Borescope, Air Seperator inspection, BOP.		
			Su	tton Energy Complex			
Unit	Duration of Outage	Type of Outage	Cause of Out		Reason Outage Occurred	Remedial Action Taken	
1A	3/4/2023 1:20:00 AM To 4/3/2023 7:18:00 PM	Sch	3998	Balance of plant overhaul/outage	Planned BOP, CT, and Steam Turbine Valve Outage.	Taken	
1B	3/4/2023 1:23:00 AM To 4/6/2023 12:01:00 PM	Sch	3998	Balance of plant overhaul/outage	Planned BOP, CT, and Steam Turbine Valve Outage.		
ST1	3/4/2023 12:55:00 AM To 4/5/2023 11:24:00 PM	Sch	3998	Balance of plant overhaul/outage	Planned BOP, CT, and Steam Turbine Valve Outage.		

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

#### Duke Energy Progress Base Load Power Plant Performance Review Plan Report Period: March 2023

	Brunswick 1	Brunswick 2	Harris 1	Robinson 2
(A) MDC (MW)	938	932	964	759
(B) Period Hours	743	743	743	743
(C1) Net Gen (MWH)	709,295	439,071	734,224	582,021
(C2) Capacity Factor (%)	101.77	63.41	102.51	103.21
(D1) Net MWH Not Gen. Due to Full Schedule Outages	0	161,842	0	0
(D2) % Net MWH Not Gen. Due to Full Schedule Outages	0	23.37	0	0
(E1) Net MWH Not Gen. Due to Partial Scheduled Outages	6,541	57,152	0	0
(E2) % Net MWH Not Gen. Due to Partial Scheduled Outages	0.94	8.25	0	0
(F1) Net MWH Not Gen Due to Full Forced Outages	0	0	0	0
(F2) % Net MWH Not Gen Due to Full Forced Outages	0	0	0	0
(G1) Net MWH Not Gen due to Partial Forced Outages	-18,902	34,411	-17,972	-18,084
(G2) % Net MWH Not Gen Due to Partial Forced Outages	-2.71	4.97	-2.51	-3.21
(H1) Net MWH Not Gen Due to Economic Dispatch	0	0	0	0
(H2) %Net MWH Not Gen Due to Economic Dispatch	0	0	0	0
(I1) Core Conservation	0	0	0	0
(I2) % Core Conservation	0	0	0	0
(J1) Net MWH Possible in Period	696,934	692,476	716,252	563,937
(J2) % Net mwh Possible in Period	100.00%	100.00%	100.00%	100.00%
(K) Equivalent Availability (%)	99.06	62.9	99.89	100
(L) Output Factor (%)	101.77	82.74	102.51	103.21
(M) Heat Rate (BTU/Net KWH)	10,312	10,747	10,176	10,189

Notes:

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

#### **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)	129,253	66,092	195,345
(D) Capacity Factor (%)	91.56	98.84	93.90
(E) Net mWh Not Generated due to Full Scheduled Outages	0	2,167	2,167
(F) Scheduled Outages: percent of Period Hrs	0.00	3.24	1.04
(G) Net mWh Not Generated due to Partial Scheduled Outages	10,030	1,797	11,828
(H) Scheduled Derates: percent of Period Hrs	7.11	2.69	5.69
(I) Net mWh Not Generated due to Full Forced Outages	0	0	0
(J) Forced Outages: percent of Period Hrs	0.00	0.00	0.00
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	0
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.00
(M) Net mWh Not Generated due to Economic Dispatch	1,887	0	1,887
(N) Economic Dispatch: percent of Period Hrs	1.34	0.00	0.91
(O) Net mWh Possible in Period	141,170	66,870	208,040
(P) Equivalent Availability (%)	92.89	94.07	93.27
(Q) Output Factor (%)	91.56	102.15	94.89
(R) Heat Rate (BTU/NkWh)	10,214	0	6,758

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

Aug 28 2023

#### **DEP** Asheville CC

	ACC CT7	ACC ST8	Block Total
(A) MDC (mW)	190	90	280
(B) Period Hrs	743	743	743
(C) Net Generation (mWh)	129,454	65,675	195,129
(D) Capacity Factor (%)	91.70	98.21	93.79
(E) Net mWh Not Generated due to Full Scheduled Outages	0	0	0
(F) Scheduled Outages: percent of Period Hrs	0.00	0.00	0.00
(G) Net mWh Not Generated due to Partial Scheduled Outages	10,773	1,857	12,631
(H) Scheduled Derates: percent of Period Hrs	7.63	2.78	6.07
(I) Net mWh Not Generated due to Full Forced Outages	0	0	0
(J) Forced Outages: percent of Period Hrs	0.00	0.00	0.00
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	0
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.00
(M) Net mWh Not Generated due to Economic Dispatch	943	0	943
(N) Economic Dispatch: percent of Period Hrs	0.67	0.00	0.45
(O) Net mWh Possible in Period	141,170	66,870	208,040
(P) Equivalent Availability (%)	92.37	97.22	93.93
(Q) Output Factor (%)	91.70	98.21	93.79
(R) Heat Rate (BTU/NkWh)	10,198	0	6,766

Notes:

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

Aug 28 2023

### Lee Energy Complex

	Unit 1A	Unit 1B	Unit 1C	Unit ST1	Block Total
(A) <b>MDC</b> ( <b>m</b> W)	225	227	228	379	1,059
(B) Period Hrs	743	743	743	743	743
(C) Net Generation (mWh)	132,729	26,335	132,455	195,714	487,233
(D) Capacity Factor (%)	79.40	15.61	78.19	69.50	61.92
(E) Net mWh Not Generated due to Full Scheduled Outages	225	130,529	228	4,668	135,650
(F) Scheduled Outages: percent of Period Hrs	0.13	77.39	0.13	1.66	17.24
(G) Net mWh Not Generated due to Partial Scheduled Outages	20,402	4,955	22,627	58,660	106,644
(H) Scheduled Derates: percent of Period Hrs	12.20	2.94	13.36	20.83	13.55
(I) Net mWh Not Generated due to Full Forced Outages	26	0	30	0	57
(J) Forced Outages: percent of Period Hrs	0.02	0.00	0.02	0.00	0.01
(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	13,793	6,842	14,064	22,555	57,253
(N) Economic Dispatch: percent of Period Hrs	8.25	4.06	8.30	8.01	7.28
(O) Net mWh Possible in Period	167,175	168,661	169,404	281,597	786,837
(P) Equivalent Availability (%)	87.65	19.67	86.49	77.51	69.20
(Q) Output Factor (%)	80.66	69.06	79.08	70.67	75.29
(R) Heat Rate (BTU/NkWh)	8,718	9,045	8,659	4,624	7,075

#### Notes:

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

### **Smith Energy Complex**

(A) MDC (mW)       193       193       193       184       570         (B) Period Hrs       743       743       743       743       743         (C) Net Generation (mWh)       57,773       57,602       65,845       181,220         (D) Capacity Factor (%)       40.29       40.17       48.16       42.79         (E) Net mWh Not Generated due for Full Scheduled Outages: percent of Period Hrs       47.78       47.78       47.90       47.82         (G) Net mWh Not Generated due to Partial Scheduled Outages       7,954       7,954       2,516       18.425         (H) Scheduled Derates: percent of Period Hrs       5.55       5.55       1.84       4.35         (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       0.00         (J) Net mWh Not Generated due to Forartial Forced Outages       0.00       0.00       0.00       0.00       0.00       0.00         (J) Net mWh Not Generated due to Economic Dispatch       9,160       9,331       2,868       21,359         (M) Net mWh Not Generated due to Economic Dispatch: percent of Deriod Hrs       6.39       6.51       2.10       5.04<		Unit 7	Unit 8	Unit ST4	Block Total
(C) Net Generation (mWh)57,77357,60265,845181,220(D) Capacity Factor (%)40.2940.1748.1642.79(E) Net mWh Not Generated due to Full Scheduled Outages68,51268,51265,482202,506(F) Scheduled Outages: percent of Period Hrs47.7847.7847.9047.82(G) Net mWh Not Generated due to Partial Scheduled Outages7,9547,9542,51618,425(H) Scheduled Derates: percent of Period Hrs5.555.551.844.35(I) Net mWh Not Generated due to Full Forced Outages0000(J) Forced Outages0.000.000.000.000.00(J) Forced Outages9,1609,3312,86821,359(N) Economic Dispatch: percent of Period Hrs6.396.512.105.04(O) Net mWh Possible in Period143,399143,399136,712423,510(P) Equivalent Availability (%)46.6846.6850.2647.83(Q) Output Factor (%)77.1576.9292.4482.00	(A) <b>MDC</b> ( <b>mW</b> )	193	193	184	570
(D) Capacity Factor (%)       40.29       40.17       48.16       42.79         (E) Net mWh Not Generated due to Full Scheduled Outages       68,512       68,512       65,482       202,506         (F) Scheduled Outages: percent of Period Hrs       47.78       47.78       47.90       47.82         (G) Net mWh Not Generated due to Partial Scheduled Outages       7,954       7,954       2,516       18,425         (H) Scheduled Derates: percent of Period Hrs       5.55       5.55       1.84       4.35         (I) Net mWh Not Generated due to Full Forced Outages       0.00       0.00       0.00       0.00         (J) Forced Outages: percent of Period Hrs       0.00       0.00       0.00       0.00         (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       0.00       0.00       0.00       0.00         (K) Net mWh Not Generated due to Economic Dispatch       9,160       9,331       2,868       21,359         (N) Economic Dispatch: percent of Period Hrs       6.39       6.51       2.10       5.04         (O) Net mWh Possible in Period       143,399       143,399       136,712       423,510         (P) Equivalent Availability (%)       46.68	(B) Period Hrs	743	743	743	743
(E) Net mWh Not Generated due to Full Scheduled Outages       68,512       68,512       65,482       202,506         (F) Scheduled Outages: percent of Period Hrs       47.78       47.78       47.90       47.82         (G) Net mWh Not Generated due to Partial Scheduled Outages       7,954       7,954       2,516       18,425         (H) Scheduled Derates: percent of Period Hrs       5.55       5.55       1.84       4.35         (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         (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         (L) Forced Derates: percent of Period Hrs       9,160       9,331       2,868       21,359         (N) Economic Dispatch: percent of Period Hrs       6.39       6.51       2.10       5.04         (O) Net mWh Possible in Period       143,399       143,399       136,712       423,510         (P) Equivalent Availability (%)       46.68       46.68	(C) Net Generation (mWh)	57,773	57,602	65,845	181,220
to Full Scheduled Outages       68,512       68,512       65,482       202,306         (F) Scheduled Outages: percent of Period Hrs       47.78       47.78       47.90       47.82         (G) Net mWh Not Generated due to Partial Scheduled Outages       7,954       7,954       2,516       18,425         (H) Scheduled Derates: percent of Period Hrs       5.55       5.55       1.84       4.35         (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         (K) Net mWh Not Generated due to Partial Forced Outages       0       0       0       0         (L) Forced Derates: percent of Period Hrs       9,160       9,331       2,868       21,359         (N) Net mWh Not Generated due to Economic Dispatch: percent of Period Hrs       6.39       6.51       2.10       5.04         (O) Net mWh Possible in Period       143,399       143,399       136,712       423,510         (P) Equivalent Availability (%)       46.68       46.68       50.26       47.83         (Q) Output Factor (%)       77.15       76.92       92.4	(D) Capacity Factor (%)	40.29	40.17	48.16	42.79
of Period Hrs       47.78       47.78       47.90       47.82         (G) Net mWh Not Generated due to Partial Scheduled Outages       7,954       7,954       2,516       18,425         (H) Scheduled Derates: percent of Period Hrs       5.55       5.55       1.84       4.35         (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         (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         (K) Net mWh Not Generated due to Economic Dispatch       9,160       9,331       2,868       21,359         (N) Economic Dispatch       9,160       9,331       2,868       21,359         (N) Ket mWh Possible in Period       143,399       143,399       136,712       423,510         (P) Equivalent Availability (%)       46.68       46.68       50.26       47.83         (Q) Output Factor (%)       77.15       76.92       92.44       82.00		68,512	68,512	65,482	202,506
to Partial Scheduled Outages       7,954       7,954       2,516       18,425         (H) Scheduled Derates: percent of Period Hrs       5.55       5.55       1.84       4.35         (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         (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       9,160       9,331       2,868       21,359         (N) Economic Dispatch: percent of Period Hrs       6.39       6.51       2.10       5.04         (O) Net mWh Possible in Period       143,399       143,399       136,712       423,510         (P) Equivalent Availability (%)       46.68       46.68       50.26       47.83         (Q) Output Factor (%)       77.15       76.92       92.44       82.00		47.78	47.78	47.90	47.82
Period Hrs       5.55       5.55       1.84       4.35         (I) Net mWh Not Generated due to Full Forced Outages       0       0       0       0         (J) Forced Outages: percent of Period Hrs       0.00       0.00       0.00       0.00         (K) Net mWh Not Generated due to Partial Forced Outages       0       0       0       0         (L) Forced Derates: percent of Period Hrs       0.00       0.00       0.00       0.00         (M) Net mWh Not Generated due to Economic Dispatch       9,160       9,331       2,868       21,359         (N) Economic Dispatch: percent of Period Hrs       6.39       6.51       2.10       5.04         (O) Net mWh Possible in Period       143,399       143,399       136,712       423,510         (P) Equivalent Availability (%)       46.68       46.68       50.26       47.83         (Q) Output Factor (%)       77.15       76.92       92.44       82.00		7,954	7,954	2,516	18,425
to Full Forced Outages       0       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       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       9,160       9,331       2,868       21,359         (N) Economic Dispatch: percent of Period Hrs       6.39       6.51       2.10       5.04         (O) Net mWh Possible in Period       143,399       143,399       136,712       423,510         (P) Equivalent Availability (%)       46.68       46.68       50.26       47.83         (Q) Output Factor (%)       77.15       76.92       92.44       82.00		5.55	5.55	1.84	4.35
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       9,160       9,331       2,868       21,359         (N) Economic Dispatch: percent of Period Hrs       6.39       6.51       2.10       5.04         (O) Net mWh Possible in Period       143,399       143,399       136,712       423,510         (P) Equivalent Availability (%)       46.68       46.68       50.26       47.83         (Q) Output Factor (%)       77.15       76.92       92.44       82.00		0	0	0	0
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       9,160       9,331       2,868       21,359         (N) Economic Dispatch: percent of Period Hrs       6.39       6.51       2.10       5.04         (O) Net mWh Possible in Period       143,399       143,399       136,712       423,510         (P) Equivalent Availability (%)       46.68       46.68       50.26       47.83         (Q) Output Factor (%)       77.15       76.92       92.44       82.00		0.00	0.00	0.00	0.00
Period Hrs       0.00       0.00       0.00       0.00       0.00         (M) Net mWh Not Generated due to Economic Dispatch       9,160       9,331       2,868       21,359         (N) Economic Dispatch: percent of Period Hrs       6.39       6.51       2.10       5.04         (O) Net mWh Possible in Period       143,399       143,399       136,712       423,510         (P) Equivalent Availability (%)       46.68       46.68       50.26       47.83         (Q) Output Factor (%)       77.15       76.92       92.44       82.00		0	0	0	0
to Economic Dispatch       9,160       9,331       2,868       21,359         (N) Economic Dispatch: percent of Period Hrs       6.39       6.51       2.10       5.04         (O) Net mWh Possible in Period       143,399       143,399       136,712       423,510         (P) Equivalent Availability (%)       46.68       46.68       50.26       47.83         (Q) Output Factor (%)       77.15       76.92       92.44       82.00		0.00	0.00	0.00	0.00
of Period Hrs       6.39       6.51       2.10       5.04         (O) Net mWh Possible in Period       143,399       143,399       136,712       423,510         (P) Equivalent Availability (%)       46.68       46.68       50.26       47.83         (Q) Output Factor (%)       77.15       76.92       92.44       82.00		9,160	9,331	2,868	21,359
(P) Equivalent Availability (%)       46.68       46.68       50.26       47.83         (Q) Output Factor (%)       77.15       76.92       92.44       82.00		6.39	6.51	2.10	5.04
( <b>Q</b> ) Output Factor (%) 77.15 76.92 92.44 82.00	(O) Net mWh Possible in Period	143,399	143,399	136,712	423,510
	(P) Equivalent Availability (%)	46.68	46.68	50.26	47.83
( <b>R</b> ) Heat Rate (BTU/NkWh) 14,413 14,432 0 9,182	(Q) Output Factor (%)	77.15	76.92	92.44	82.00
	(R) Heat Rate (BTU/NkWh)	14,413	14,432	0	9,182

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

### **Smith Energy Complex**

	Unit 9	Unit 10	Unit ST5	Block Total
(A) MDC (mW)	215	215	252	682
(B) Period Hrs	743	743	743	743
(C) Net Generation (mWh)	71,856	63,787	89,136	224,779
(D) Capacity Factor (%)	44.98	39.93	47.61	44.36
(E) Net mWh Not Generated due to Full Scheduled Outages	70,101	75,046	85,344	230,491
(F) Scheduled Outages: percent of Period Hrs	43.88	46.98	45.58	45.49
(G) Net mWh Not Generated due to Partial Scheduled Outages	7,714	6,969	2,379	17,061
(H) Scheduled Derates: percent of Period Hrs	4.83	4.36	1.27	3.37
(I) Net mWh Not Generated due to Full Forced Outages	0	3,709	0	3,709
(J) Forced Outages: percent of Period Hrs	0.00	2.32	0.00	0.73
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	2,888	2,888
(L) Forced Derates: percent of Period Hrs	0.00	0.00	1.54	0.57
(M) Net mWh Not Generated due to Economic Dispatch	10,075	10,235	7,489	27,799
(N) Economic Dispatch: percent of Period Hrs	6.31	6.41	4.00	5.49
(O) Net mWh Possible in Period	159,745	159,745	187,236	506,726
(P) Equivalent Availability (%)	51.29	46.34	51.61	49.84
(Q) Output Factor (%)	80.16	79.04	87.48	82.57
(R) Heat Rate (BTU/NkWh)	1,015	14,891	1,568	5,172

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

### **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)	11,985	11,982	14,375	38,342
(D) Capacity Factor (%)	7.20	7.20	7.14	7.18
(E) Net mWh Not Generated due to Full Scheduled Outages	150,005	149,994	181,592	481,592
(F) Scheduled Outages: percent of Period Hrs	90.13	90.12	90.19	90.15
(G) Net mWh Not Generated due to Partial Scheduled Outages	1,870	1,871	109	3,851
(H) Scheduled Derates: percent of Period Hrs	1.12	1.12	0.05	0.72
(I) Net mWh Not Generated due to Full Forced Outages	0	0	0	0
(J) Forced Outages: percent of Period Hrs	0.00	0.00	0.00	0.00
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	0	0
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.00	0.00
(M) Net mWh Not Generated due to Economic Dispatch	2,572	2,585	5,276	10,432
(N) Economic Dispatch: percent of Period Hrs	1.55	1.55	2.62	1.95
(O) Net mWh Possible in Period	166,432	166,432	201,353	534,217
(P) Equivalent Availability (%)	8.75	8.75	9.76	9.13
(Q) Output Factor (%)	72.96	72.90	72.74	72.86
(R) Heat Rate (BTU/NkWh)	9,998	9,998	0	6,250

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

# Duke Energy Progress Intermediate Power Plant Performance Review Plan March 2023

#### **Mayo Station**

		Unit 1
(A)	MDC (mW)	713
<b>(B</b> )	Period Hrs	743
(C)	Net Generation (mWh)	95,185
<b>(D</b> )	Net mWh Possible in Period	529,759
<b>(E)</b>	Equivalent Availability (%)	61.86
<b>(F</b> )	Output Factor (%)	47.14
(G)	Capacity Factor (%)	17.97

Notes:

 Units in commercial operation for the full month are presented. Precommercial or partial month commercial operations are not included. Aug 28 2023

# Duke Energy Progress Intermediate Power Plant Performance Review Plan March 2023

#### **Roxboro Station**

	Unit 2	Unit 3	Unit 4
(A) MDC (mW)	673	698	711
(B) Period Hrs	743	743	743
(C) Net Generation (mWh)	199,858	99,058	30,556
(D) Net mWh Possible in Period	500,039	518,614	528,273
(E) Equivalent Availability (%)	100.00	65.51	32.35
(F) Output Factor (%)	44.76	38.48	40.74
(G) Capacity Factor (%)	39.97	19.10	5.78

Notes:

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

#### Duke Energy Progress Base Load Power Plant Performance Review Plan Report Period: April 2022 - March 2023

	Brunswick 1	Brunswick 2	Harris 1	Robinson 2
(A) MDC (MW)	938	932	964	759
(B) Period Hours	8,760	8,760	8,760	8,760
(C1) Net Gen (MWH)	8,203,908	7,344,357	7,796,371	5,650,379
(C2) Capacity Factor (%)	99.84	89.96	92.32	84.98
(D1) Net MWH Not Gen. Due to Full Schedule Outages	82,654	633,077	512,542	546,480
(D2) % Net MWH Not Gen. Due to Full Schedule Outages	1.01	7.75	6.07	8.22
(E1) Net MWH Not Gen. Due to Partial Scheduled Outages	112,616	107,431	52,927	-917
(E2) % Net MWH Not Gen. Due to Partial Scheduled Outages	1.37	1.32	0.63	-0.01
(F1) Net MWH Not Gen Due to Full Forced Outages	0	0	145,195	543,014
(F2) % Net MWH Not Gen Due to Full Forced Outages	0	0	1.72	8.17
(G1) Net MWH Not Gen due to Partial Forced Outages	-182,298	79,455	-62,395	-90,116
(G2) % Net MWH Not Gen Due to Partial Forced Outages	-2.22	0.97	-0.74	-1.36
(H1) Net MWH Not Gen Due to Economic Dispatch	0	0	0	0
(H2) %Net MWH Not Gen Due to Economic Dispatch	0	0	0	0
(I1) Core Conservation	0	0	0	0
(I2) % Core Conservation	0	0	0	0
(J1) Net MWH Possible in Period	8,216,880	8,164,320	8,444,640	6,648,840
(J2) % Net mwh Possible in Period	100.00%	100.00%	100.00%	100.00%
(K) Equivalent Availability (%)	97.36	89.67	90.83	83.15
(L) Output Factor (%)	100.86	97.52	100.12	101.64
(M) Heat Rate (BTU/Net KWH)	10,345	10,640	10,284	10,297

Notes:

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

# Duke Energy Progress Base Load Power Plant Performance Review Plan April, 2022 through March, 2023 DEP Asheville CC

	ACC CT5	ACC ST6	Block Total
(A) MDC (mW)	190	90	280
(B) Period Hrs	8,760	8,760	8,760
(C) Net Generation (mWh)	1,194,795	599,466	1,794,261
(D) Capacity Factor (%)	71.79	76.04	73.15
(E) Net mWh Not Generated due to	320,046	154,704	474,749
Full Scheduled Outages	520,040	154,704	
(F) Scheduled Outages: percent of	19.23	19.62	19.36
Period Hrs			
(G) Net mWh Not Generated due to Partial Scheduled Outages	141,710	18,727	160,437
(H) Scheduled Derates: percent of	0.51	2.20	6.54
Period Hrs	8.51	2.38	6.54
(I) Net mWh Not Generated due to	0	15,320	15,320
Full Forced Outages	Ũ	10,020	10,020
(J) Forced Outages: percent	0.00	1.94	0.62
of Period Hrs (K) Net mWh Not Generated due to			
Partial Forced Outages	0	0	0
(L) Forced Derates: percent of	0.00	0.00	0.00
Period Hrs	0.00	0.00	0.00
(M) Net mWh Not Generated due to	7,206	0	7,206
Economic Dispatch	7,200	0	7,200
(N) Economic Dispatch: percent	0.43	0.00	0.29
of Period Hrs (O) Net mWh Possible in Period	1,664,400	788,400	2 452 800
	, ,	,	2,452,800
(P) Equivalent Availability (%)	72.26	76.06	73.48
(Q) Output Factor (%)	88.90	96.94	91.44
(R) Heat Rate (BTU/NkWh)	9,914	0	6,602

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Notes:

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

# Duke Energy Progress Base Load Power Plant Performance Review Plan April, 2022 through March, 2023 DEP Asheville CC

	ACC CT7	ACC ST8	Block Total
(A) MDC (mW)	190	90	280
(B) Period Hrs	8,760	8,760	8,760
(C) Net Generation (mWh)	1,264,966	646,794	1,911,760
(D) Capacity Factor (%)	76.00	82.04	77.94
(E) Net mWh Not Generated due to Full Scheduled Outages	158,063	116,025	274,088
(F) Scheduled Outages: percent of Period Hrs	9.50	14.72	11.17
(G) Net mWh Not Generated due to Partial Scheduled Outages	163,136	21,057	184,193
(H) Scheduled Derates: percent of Period Hrs	9.80	2.67	7.51
(I) Net mWh Not Generated due to	16,127	10,775	26,902
Full Forced Outages (J) Forced Outages: percent	0.97	1.37	1.10
of Period Hrs (K) Net mWh Not Generated due to	0	1,522	1,522
Partial Forced Outages (L) Forced Derates: percent of	0.00	0.19	0.06
Period Hrs (M) Net mWh Not Generated due to	62,108	-7,773	54.335
Economic Dispatch (N) Economic Dispatch: percent	02,108	-1,115	54,555
of Period Hrs	3.73	-0.99	2.22
(O) Net mWh Possible in Period	1,664,400	788,400	2,452,800
(P) Equivalent Availability (%)	79.73	81.05	80.16
(Q) Output Factor (%)	89.72	97.76	92.29
(R) Heat Rate (BTU/NkWh)	10,111	0	6,690

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Notes:

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

### Duke Energy Progress Base Load Power Plant Performance Review Plan April, 2022 through March, 2023 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	8,760	8,760	8,760	8,760	8,760
(C) Net Generation (mWh)	1,181,280	1,165,624	1,313,993	2,208,791	5,869,688
(D) Capacity Factor (%)	59.93	58.62	65.79	66.53	63.27
(E) Net mWh Not Generated due to	317,563	257,584	74,982	765,027	1,415,155
Full Scheduled Outages	517,505	257,504	74,962	705,027	1,415,155
(F) Scheduled Outages: percent of	16.11	12.95	3.75	23.04	15.25
Period Hrs (G) Net mWh Not Generated due to					
Partial Scheduled Outages	224,453	262,777	298,721	80,124	866,076
(H) Scheduled Derates: percent of	11.39	13.21	14.96	2.41	9.34
Period Hrs	11.39	13.21	14.90	2.41	9.34
(I) Net mWh Not Generated due to	853	16,226	57	17,461	34,596
Full Forced Outages		,		,	,
(J) Forced Outages: percent of Period Hrs	0.04	0.82	0.00	0.53	0.37
(K) Net mWh Not Generated due to	0	0	0	7.1.40	7.1.40
Partial Forced Outages	0	0	0	7,140	7,140
(L) Forced Derates: percent of	0.00	0.00	0.00	0.22	0.08
Period Hrs	0.00	0.00	0.000	0.22	0.00
(M) Net mWh Not Generated due to	246,851	286,309	309,527	240,766	1,083,453
Economic Dispatch (N) Economic Dispatch: percent					
of Period Hrs	12.52	14.40	15.50	7.25	11.68
(O) Net mWh Possible in Period	1,971,000	1,988,520	1,997,280	3,320,040	9,276,840
(P) Equivalent Availability (%)	72.46	73.02	81.29	73.80	74.96
(Q) Output Factor (%)	75.47	72.12	73.14	87.27	78.17
(R) Heat Rate (BTU/NkWh)	9,233	9,616	9,482	4,435	7,559

Notes:

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

## Duke Energy Progress Base Load Power Plant Performance Review Plan April, 2022 through March, 2023 Smith Energy Complex

	Unit 7	Unit 8	Unit ST4	Block Total
(A) MDC (mW)	193	193	184	570
(B) Period Hrs	8,760	8,760	8,760	8,760
(C) Net Generation (mWh)	1,000,818	1,005,112	1,130,297	3,136,227
(D) Capacity Factor (%)	59.20	59.45	70.12	62.81
(E) Net mWh Not Generated due to	405,085	388,738	363,581	1,157,403
Full Scheduled Outages	405,085	500,750	505,581	1,157,405
(F) Scheduled Outages: percent of	23.96	22.99	22.56	23.18
Period Hrs				
(G) Net mWh Not Generated due to	159,969	164,459	65,338	389,765
Partial Scheduled Outages (H) Scheduled Derates: percent of				
Period Hrs	9.46	9.73	4.05	7.81
(I) Net mWh Not Generated due to	7 (75	4 220	2 401	15 415
Full Forced Outages	7,675	4,339	3,401	15,415
(J) Forced Outages: percent	0.45	0.26	0.21	0.31
of Period Hrs	01.10	0.20	0.21	0.01
(K) Net mWh Not Generated due to	0	0	2,300	2,300
Partial Forced Outages (L) Forced Derates: percent of				
Period Hrs	0.00	0.00	0.14	0.05
(M) Net mWh Not Generated due to	116.042	107 700	16.000	201 504
Economic Dispatch	116,843	127,738	46,923	291,504
(N) Economic Dispatch: percent	6.91	7.56	2.91	5.84
of Period Hrs	0.71	7.50	2.91	5.04
(O) Net mWh Possible in Period	1,690,680	1,690,680	1,611,840	4,993,200
(P) Equivalent Availability (%)	66.12	67.02	73.04	68.66
(Q) Output Factor (%)	78.73	78.23	90.80	82.51
(R) Heat Rate (BTU/NkWh)	11,291	11,315	0	7,229

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Notes:

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

## Duke Energy Progress Base Load Power Plant Performance Review Plan April, 2022 through March, 2023 Smith Energy Complex

	Unit 9	Unit 10	Unit ST5	Block Total
(A) MDC (mW)	193	193	184	570
(B) Period Hrs	8,760	8,760	8,760	8,760
(C) Net Generation (mWh)	1,000,818	1,005,112	1,130,297	3,136,227
(D) Capacity Factor (%)	59.20	59.45	70.12	62.81
(E) Net mWh Not Generated due to	405,086	388,741	363,582	1,157,409
Full Scheduled Outages	405,080	500,741	505,582	1,157,409
(F) Scheduled Outages: percent of	23.96	22.99	22.56	23.18
Period Hrs				
(G) Net mWh Not Generated due to	159,968	164,457	65,342	389,767
Partial Scheduled Outages (H) Scheduled Derates: percent of				
Period Hrs	9.46	9.73	4.05	7.81
(I) Net mWh Not Generated due to	7 (7(	4 2 4 1	2 400	15 417
Full Forced Outages	7,676	4,341	3,400	15,417
(J) Forced Outages: percent	0.45	0.26	0.21	0.31
of Period Hrs	0.15	0.20	0.21	0.51
(K) Net mWh Not Generated due to	0	0	2,302	2,302
Partial Forced Outages				
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.14	0.05
(M) Net mWh Not Generated due to				
Economic Dispatch	116,842	127,736	46,917	291,494
(N) Economic Dispatch: percent	6.91	7.56	2.91	5.84
of Period Hrs	0.91	7.50	2.91	5.04
(O) Net mWh Possible in Period	1,690,680	1,690,680	1,611,840	4,993,200
(P) Equivalent Availability (%)	66.12	67.02	73.04	68.66
(Q) Output Factor (%)	78.73	78.23	90.80	82.51
(R) Heat Rate (BTU/NkWh)	11,291	11,315	0	7,229

Notes:

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

## Duke Energy Progress Base Load Power Plant Performance Review Plan April, 2022 through March, 2023 Sutton Energy Complex

	Unit 1A	Unit 1B	Unit ST1	Block Total
(A) MDC (mW)	215	215	252	682
(B) Period Hrs	8,760	8,760	8,760	8,760
(C) Net Generation (mWh)	1,296,243	1,305,894	1,812,878	4,415,015
(D) Capacity Factor (%)	68.82	69.34	82.12	73.90
(E) Net mWh Not Generated due to	261,419	244,489	288,008	793,916
Full Scheduled Outages	201,417	244,407	200,000	755,510
(F) Scheduled Outages: percent of	13.88	12.98	13.05	13.29
Period Hrs				
(G) Net mWh Not Generated due to Partial Scheduled Outages	164,344	163,327	27,347	355,018
(H) Scheduled Derates: percent of	0.50	0.67	1.04	
Period Hrs	8.73	8.67	1.24	5.94
(I) Net mWh Not Generated due to	9,449	13,195	28,128	50,772
Full Forced Outages	),++)	15,175	20,120	50,772
(J) Forced Outages: percent	0.50	0.70	1.27	0.85
of Period Hrs (K) Not mWh Not Concepted due to				
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	2,888	2,888
(L) Forced Derates: percent of	0.00	0.00	0.12	0.05
Period Hrs	0.00	0.00	0.13	0.05
(M) Net mWh Not Generated due to	151,945	156,495	48,271	356,711
Economic Dispatch	151,945	150,495	40,271	550,711
(N) Economic Dispatch: percent	8.07	8.31	2.19	5.97
of Period Hrs	1 002 400	1 992 400	2 207 520	5 074 220
(O) Net mWh Possible in Period	1,883,400	1,883,400	2,207,520	5,974,320
(P) Equivalent Availability (%)	76.89	77.65	84.31	79.87
(Q) Output Factor (%)	81.08	81.03	95.85	86.54
(R) Heat Rate (BTU/NkWh)	10,984	11,606	1,396	7,231

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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, 2022 through March, 2023 Mayo Station

Unit	s	Unit 1				
(A)	MDC (mW)	713				
<b>(B)</b>	Period Hrs	8,760				
(C)	Net Generation (mWh)	983,775				
<b>(D)</b>	Net mWh Possible in Period	6,245,880				
<b>(E)</b>	Equivalent Availability (%)	56.04				
<b>(F)</b>	Output Factor (%)	39.06				
(G)	Capacity Factor (%)	15.75				

### Duke Energy Progress Intermediate Power Plant Performance Review Plan April, 2022 through March, 2023 Roxboro Station

Units	Unit 2	Unit 3	Unit 4
(A) MDC (mW)	673	698	711
(B) Period Hrs	8,760	8,760	8,760
(C) Net Generation (mWh)	1,906,115	1,361,025	610,304
(D) Net mWh Possible in Period	5,895,480	6,114,480	6,228,360
(E) Equivalent Availability (%)	78.55	73.09	41.34
(F) Output Factor (%)	54.15	43.55	49.53
(G) Capacity Factor (%)	32.33	22.26	9.80

## DUKE ENERGY PROGRESS, LLC North Carolina Annual Fuel and Fuel Related Expense Proposed Nuclear Capacity Factor Billing Period December 1, 2023 - November 30, 2024 Docket No. E-2, Sub 1321

	E	runswick 1		Brunswick 2		Harris 1		Robinson 1		Total	
MWhs		7,377,502		7,864,560		7,711,865		6,168,179		29,122,107	
Cost	\$	47,277,805	\$	49,458,984	\$	44,350,770	\$	36,922,363	\$	178,009,922	
\$/MWhs	\$	6.41	\$	6.29	\$	5.75	\$	5.99			
Avg. \$/MWhs									\$	6.11	

Cents per kWh

	C	Proposed Nuclear			
	GWhs	MDC	Hours	<b>Capacity Factor</b>	
Brunswick 1	7,378	938	8,784	89.54%	
Brunswick 2	7,865	932	8,784	96.07%	
Harris 1	7,712	964	8,784	91.07%	
Robinson 1	6,168	759	8,784	92.52%	
	29,122	3,593	8,784	92.27%	

Note: Totals may not sum due to rounding

0.6113

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#### **DUKE ENERGY PROGRESS, LLC**

North Carolina Annual Fuel and Fuel Related Expense NERC 5 Year Average Nuclear Capacity Factor Billing Period December 1, 2023 - November 30, 2024 Docket No. E-2, Sub 1321

	E	Brunswick 1	E	Brunswick 2	Harris 1	F	Robinson 1	Total
MWhs with NERC applied		7,828,246		7,778,172	7,875,032		6,160,360	29,641,810
Hours in Year		8,784		8,784	8,784		8,784	8,784
MDC		938		932	964		759	3,593
Capacity Factor-NERC 5yr Avg		0.9501		0.9501	0.9300		0.9240	
Cost (\$)	\$	47,850,436	\$	47,544,357	\$ 48,136,413	\$	37,655,420	\$ 181,186,626
\$/MWhs	\$	6.11	\$	6.11	\$ 6.11	\$	6.11	

### Avg. \$/MWHs Cents per kWh

\$ 6.11 0.6113

	Capacity Rating		Weighted
	MDC	NCF Rating	Average
Brunswick 1	938	95.01%	24.80%
Brunswick 2	932	95.01%	24.64%
Harris 1	964	93.00%	24.95%
Robinson 1	759	92.40%	19.52%
	3,593		93.92%

Note: Totals may not sum due to rounding

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North Carolina Annual Fuel and Fuel Related Expense North Carolina Generation in MWhs Billing Period December 1, 2023 - November 30, 2024 Docket No. E-2, Sub 1321		
Resource Type		MWh Dec'23-Nov'24
Nuclear		29,122,107
Coal		5,967,395
Gas CT and CC Total		24,747,254
Total Hydro		720,836
Utility Owned Solar Generation		270,472
Total Net Generation		60,828,064
Purchases for REPS Compliance	2,331,495	
Purchases from Qualifying Facilities	5,269,962	
Purchases from Dispatchable Units	3,506,560	
Emergency & DSM Purchases	1,503	
Allocated Economic Purchases	508,928	
Joint Dispatch Fuel Transfer Purchases	572,071	12,190,519
Total Net Generation and Purchases		73,018,583
Sales Totals (intersystem sales)	(120,510)	
Fuel Transfer Sales (JDA & economic sales)	(7,480,510)	(7,601,020)
Line Losses and Company Use		(2,185,868)
Total NC System Sales at Meter		63,231,695

Note: Totals may not sum due to rounding

DUKE ENERGY PROGRESS, LLC

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**Revised Harrington Workpaper 3** 

DUKE ENERGY PROGRESS, LLC North Carolina Annual Fuel and Fuel Related Expense Fuel Costs (\$) Billing Period December 1, 2023 - November 30, 2024 Docket No. E-2, Sub 1321	Revised	Harr	rington Workpaper 4
,			Costs \$
Resource Type			Dec'23-Nov'24
Nuclear		\$	178,009,922
Coal			258,155,544
Reagent and By-Product Costs			43,993,340
Gas CT and CC Total			934,531,959
Total Hydro			-
Utility Owned Solar Generation			-
Total Generation Costs	-		1,414,690,765
Purchases for REPS Compliance Energy	\$ 113,597,923		
Purchases for REPS Compliance Capacity	22,836,104		
Purchases from Qualifying Facilities Energy	228,895,936		
Purchases from Qualifying Facilities Capacity	46,899,456		
Purchases from Dispatchable Units Energy	122,200,054		
Emergency & DSM Purchases	43,522		
Allocated Economic Purchases	21,072,752		
Joint Dispatch Fuel Transfer Purchases	14,148,045		
Joint Dispatch Savings	 (114,205,606)	\$	455,488,186
Total Net Generation and Purchases			1,870,178,951
Sales Totals (intersystem sales)	\$ (4,257,413)		
Fuel Transfer Sales (JDA & economic sales)	(200,565,535)		(204,822,948)
Total System Fuel and Related Expenses		\$	1,665,356,003

Note: Totals may not sum due to rounding

# DUKE ENERGY PROGRESS, LLC North Carolina Annual Fuel and Fuel Related Expense Reagents (\$) Billing Period December 1, 2023 - November 30, 2024 Docket No. E-2, Sub 1321

			Lime,	Limestone							otal NC System agent Cost and
		Ammonia/	Hydrated Lime	Off-System	Magnesium	Calcium	Tot	al NC System	Gypsum	Ash	ByProduct
Month	Year	Urea	& Limestone	Sales	Hydroxide	Carbonate	R	eagent Cost	(Gain)/Loss	(Gain)/Loss	(Gain)/Loss
December	2023	\$ 525,144	\$ 987,773	\$ (183,074)	\$ 278,929	\$ 135,400	\$	1,744,171	\$ (36,371)	\$ 1,807,571	\$ 3,515,371
January	2024	699,485	1,362,931	(233,037)	361,688	182,462		2,373,528	(93,197)	1,487,498	3,767,829
February	2024	521,430	1,002,013	(243,305)	266,710	136,422		1,683,269	8,345,859	2,255,040	12,284,168
March	2024	393,175	749,119	(52,755)	177,217	90,207		1,356,963	(44,019)	1,472,257	2,785,201
April	2024	109,961	211,025	(20,803)	79,253	28,185		407,622	(1,608)	2,266,830	2,672,844
May	2024	48,575	104,426	(13,614)	39,545	13,272		192,203	-	1,518,698	1,710,901
June	2024	383,617	703,940	(31,492)	226,104	98,279		1,380,448	(5 <i>,</i> 570)	2,324,732	3,699,609
July	2024	650,001	1,156,214	(66 <i>,</i> 836)	350,280	168,587		2,258,246	(40,835)	1,482,978	3,700,389
August	2024	568,876	987,020	(50,521)	314,773	145,364		1,965,512	(15,576)	1,789,181	3,739,117
September	2024	149,328	256,381	(10,261)	97,402	37,652		530,502	(167)	1,419,530	1,949,866
October	2024	9,409	10,763	-	5,117	2,430		27,719	-	1,750,943	1,778,661
November	2024	244,379	410,022	(1,044)	119,347	61,890		834,593	(1,827)	1,556,619	2,389,385
12ME Nov	2024	\$ 4,303,379	\$ 7,941,627	\$ (906,742)	\$ 2,316,364	\$ 1,100,149	\$	14,754,777	\$ 8,106,689	\$ 21,131,874	\$ 43,993,340

Note: Totals may not sum due to rounding

North Carolina Annual Fuel and Fuel Related Expense

Merger Fuel Impacts

Billing Period December 1, 2023 - November 30, 2024

Docket No. E-2, Sub 1321

					Posi	tive numbers rep	present expense, I	Vega	tive numbers repr	esent revenues		
		Al	located Econor	nic Purchase Cost		Economic S	ales Cost		Fuel Transfe	er Payment	JDA Savings	Payment
Month	Year		DEP	DEC		DEP	DEC		DEP	DEC	DEP	DEC
December	2023	\$	1,234,637	\$ 1,823,317	\$	(6,565,637)	\$ (1,577,591	)\$	(17,362,556)	\$ 17,362,556	\$ (3,700,688)	\$ 3,700,688
January	2024		2,710,394	3,918,202		(8,902,259)	(9,199,451	)	(13,075,319)	13,075,319	(12,308,043)	12,308,043
February	2024		461,528	678,216		(9,119,170)	(9,695,477	)	(10,474,496)	10,474,496	(3,083,001)	3,083,001
March	2024		702,147	1,012,669		(1,229,751)	(615,762	)	(3,371,359)	3,371,359	449,444	(449,444)
April	2024		3,424,152	3,700,357		(1,189,893)	(487,140	)	(7,303,371)	7,303,371	(5,056,429)	5,056,429
May	2024		635,825	962,431		(1,571,140)	(465,036	)	(11,184,244)	11,184,244	(3,536,847)	3,536,847
June	2024		2,825,707	4,022,008		(1,028,743)	(521,349	)	(14,844,982)	14,844,982	(12,855,914)	12,855,914
July	2024		1,281,574	928,342		(3,381,926)	(2,371,343	)	(16,781,326)	16,781,326	(35,473,683)	35,473,683
August	2024		829,726	1,194,776		(2,611,213)	(1,983,996	)	(15,390,154)	15,390,154	(13,148,211)	13,148,211
September	2024		3,024,111	4,493,332		(613,751)	(130,572	)	(21,475,832)	21,475,832	(18,659,035)	18,659,035
October	2024		1,524,921	2,227,353		(393,476)	(264,792	)	(8,300,764)	8,300,764	(4,072,141)	4,072,141
November	2024		2,418,030	3,532,720		(415,016)	(266,866	)	(9,831,113)	9,831,113	(2,761,058)	2,761,058
Total		\$	21,072,752		\$	(37,021,974)		\$	(149,395,515)		\$ (114,205,606)	

Note: Totals may not sum due to rounding

			Fuel Transfer Payments							
		1	Purchases		Sales					
December	2023	\$	265,028	\$	17,627,583					
January	2024		350,028		13,425,347					
February	2024		499,850		10,974,346					
March	2024		5,627,246		8,998,605					
April	2024		1,615,378		8,918,750					
May	2024		1,106,424		12,290,668					
June	2024		732,110		15,577,092					
July	2024		608,571		17,389,897					
August	2024		409,076		15,799,230					
September	2024		250,678		21,726,510					
October	2024		1,522,438		9,823,202					
November	2024		1,161,217		10,992,330					
		\$	14,148,045	\$	163,543,561					

\$ (149,395,515)

Harrington Workpaper 6

### DUKE ENERGY PROGRESS, LLC North Carolina Annual Fuel and Fuel Related Expense Merger Payments Billing Period December 1, 2023 - November 30, 2024 Docket No. E-2, Sub 1321

		MWh Transfe	er Projection	MWh Purchase Al	location Delta	Adjusted MV	Vh Transfer	Fo	ssil Gen C	ost \$	\$/MWh	Pre-Net Pa	yments \$	Actua	Payments	\$
Month	Year	DEP to DEC	DEC to DEP	DEP	DEC	DEP to DEC	DEC to DEP		DEP		DEC	DEP to DEC	DEC to DEP	DEP to DEC	DEC to	o DEP
December	2023	668,931	8,104	(1,330)	1,330	668,931	9,435	\$	26.35	\$	28.09	\$ 265,028	\$ 17,627,583	\$-	\$ 17	,362,556
January	2024	440,541	10,654	7,184	(7,184)	447,724	10,654	\$	29.99	\$	32.85	350,028	13,425,347	-	13	,075,319
February	2024	372,757	14,658	(2,015)	2,015	372,757	16,673	\$	29.44	\$	29.98	499,850	10,974,346	-	10	,474,496
March	2024	320,748	229,436	(1,388)	1,388	320,748	230,824	\$	28.06	\$	24.38	5,627,246	8,998,605	-	3	,371,359
April	2024	368,059	68,107	26,423	(26,423)	394,482	68,107	\$	22.61	\$	23.72	1,615,378	8,918,750	-	7	,303,371
May	2024	599,170	44,714	3,506	(3,506)	602,676	44,714	\$	20.39	\$	24.74	1,106,424	12,290,668	-	11	,184,244
June	2024	565,913	29,299	58,422	(58,422)	624,334	29,299	\$	24.95	\$	24.99	732,110	15,577,092	-	14	,844,982
July	2024	613,464	22,701	16,901	(16,901)	630,366	22,701	\$	27.59	\$	26.81	608,571	17,389,897	-	16	6,781,326
August	2024	552,420	15,664	23,912	(23,912)	576,332	15,664	\$	27.41	\$	26.11	409,076	15,799,230	-	15	,390,154
September	2024	921,011	11,044	76,147	(76,147)	997,158	11,044	\$	21.79	\$	22.70	250,678	21,726,510	-	21	,475,832
October	2024	572,997	69,660	16,188	(16,188)	589,185	69,660	\$	16.67	\$	21.86	1,522,438	9,823,202	-	8	3,300,764
November	2024	460,604	43,295	3,477	(3,477)	464,081	43,295	\$	23.69	\$	26.82	1,161,217	10,992,330	-	9	,831,113
Total		6,456,616	567,338	227,425	(227,425)	6,688,775	572,071					\$ 14,148,045	\$ 163,543,561	\$	\$ 149	,395,515

Note: Totals may not sum due to rounding

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# DUKE ENERGY PROGRESS, LLC North Carolina Annual Fuel and Fuel Related Expense Projected Billing Period MWh Sales at Meter and at Generation Billing Period December 1, 2023 - November 30, 2024 Docket No. E-2, Sub 1321

		Remove impact of SC		2022 Cost of Service	
	Projected	DERP Net Metered	Adjusted Projected	Line	Adjusted Projected
	Sales MWhs at Meter	MWhs	Sales MWhs at Meter	Loss Factors	Sales MWhs at Generation
NC Retail					
Residential	17,326,377		17,326,377	2.505%	17,771,554
Small General Service	1,816,847		1,816,847	2.503%	1,863,491
Medium General Service	10,471,370		10,471,370	2.437%	10,732,932
Large General Service	9,239,420		9,239,420	2.083%	9,435,971
Lighting	384,646	_	384,646	2.489%	394,465
NC Retail	39,238,661		39,238,661		40,198,412
SC Retail	6,284,478	33,600	6,318,078	2.299%	6,466,748
Total Wholesale	17,708,557		17,708,557	1.594%	17,995,404
Total Adjusted NC System Sales	63,231,695	33,600	63,265,295		64,660,564
NC as a percentage of total	62.06%		62.02%		62.17%
SC as a percentage of total	9.94%		9.99%		10.00%
Wholesale as a percentage of total	28.01%		27.99%		27.83%
SC Net Metering allocation adjustment Total Projected SC NEM MWhs Marginal Fuel rate per MWh for SC NEM Fuel Benefit to be directly assigned to SC	33,600 \$ 25.34 \$ 851,357				
System Fuel Expense Fuel benefit to be directly assigned to SC Retail Total Adjusted System Fuel Expense	\$ 1,665,356,003 851,357 \$ 1,666,207,360				

North Carolina Annual Fuel and Fuel Related Expense Normalized MWh Sales at Meter and at Generation Billing Period December 1, 2023 - November 30, 2024 Docket No. E-2, Sub 1321

Fuel benefit to be directly assigned to SC Retail

Total Adjusted System Fuel Expense

				Remove impact of SC	Normalized	2022 Cost of Service	Normalized
	Test Period Sales	Weather	Customer	DERP Net Metered	Test Period Sales	Line	Test Period Sales
	MWhs	Normalization	Growth	MWhs	MWhs at Meter	Loss Factors	MWhs at Generation
NC Retail							
Residential	16,034,936	457,221	168,316		16,660,473	2.505%	17,088,541
Small General Service	1,908,360	(20,274)	23,647		1,911,733	2.503%	1,960,812
Medium General Service	10,766,603	(109,387)	(103,732)		10,553,483	2.437%	10,817,096
Large General Service	8,519,137	(66,978)	(8,961)		8,443,198	2.083%	8,622,811
Lighting	341,557	0	730		342,287	2.489%	351,024
NC Retail	37,570,593	260,581	80,000		37,911,173		38,840,283
SC Retail	6,002,714	24,050	(16,806)	33,600	6,043,558	2.299%	6,185,768
Total Wholesale	17,322,560	348,661	169,320		17,840,541	1.594%	18,129,526
						<u>.</u>	
Total Adjusted NC System Sales	60,895,867	633,292	232,513	33,600	61,795,272		63,155,578
	ca 700/				64 <b>6</b> 50/		64 F00/
NC as a percentage of total	61.70%				61.35%		61.50%
SC as a percentage of total	9.86%				9.78%		9.79%
Wholesale as a percentage of total	28.45%				28.87%		28.71%
SC Net Metering allocation adjustment							
Total Projected SC NEM MWhs	33,600						
Marginal Fuel rate per MWh for SC NEM	\$ 25.34						
Fuel Benefit to be directly assigned to SC	\$ 851,357	-					
System Fuel Expense	\$ 1,612,312,811	Exh 6A					

851,357

1,613,164,168 Exh 6C

\$

**Revised Harrington Workpaper 9** 

### DUKE ENERGY PROGRESS, LLC North Carolina Annual Fuel and Fuel Related Expense Weather Adjustment - MWh Twelve Months Ended March 31, 2023 Docket No. E-2, Sub 1321

		Residential	Small Gen Service	Medium Gen Service	Large Gen Service	NC Retail	SC Retail	Wholesale	Total
		MWH Adjustment	MWH Adjustment	MWH Adjustment	MWH Adjustment	MWH Adjustment	MWH Adjustment	MWH Adjustment	MWH Adjustment
April	2022	64,806	38	4,443	13,948	83,235	15,467	-	98,702
Мау	2022	(53,872)	(2,379)	(17,004)	(21,048)	(94,303)	(15,977)	(92,567)	(202,846)
June	2022	(146,918)	(9,519)	(47,136)	(20,432)	(224,006)	(30,743)	(78,356)	(333,105)
July	2022	(131,781)	(7,490)	(38,721)	(22,622)	(200,614)	(27,948)	(62,033)	(290,594)
August	2022	(115,639)	(7,384)	(40,269)	(30,460)	(193,751)	(30,500)	(35,456)	(259,707)
September	2022	(57,190)	(3,856)	(19,616)	(9,232)	(89,895)	(12,495)	(33,732)	(136,122)
October	2022	57,050	5,454	31,197	34,999	128,699	19,661	72,193	220,554
November	2022	60,964	(56)	(6,558)	(24,252)	30,098	(27)	61,891	91,962
December	2022	26,906	-	-	-	26,906	3,540	(37,420)	(6,974)
January	2023	110,908	1,948	10,496	6,604	129,956	18,361	271,926	420,243
February	2023	307,158	2,970	13,781	5,516	329,424	42,068	218,578	590,071
March	2023	334,829	-	-	-	334,829	42,642	63,638	441,109
12ME March	2023	457,221	(20,274)	(109,387)	(66,978)	260,581	24,050	348,661	633,292

# DUKE ENERGY PROGRESS, LLC North Carolina Annual Fuel and Fuel Related Expense Customer Growth Adjustment - MWh Twelve Months Ended March 31, 2023 Docket No. E-2, Sub 1321

	Estimation		NC Proposed MWH	SC Proposed MWH	Wholesale Proposed MWH
Rate Schedule	Method <sup>1</sup>	Reference	Adjustment <sup>1</sup>	Adjustment <sup>1</sup>	Adjustment
Residential	Regression	RES	168,316	8,111	
General:					
General Service Small	Regression	SGS	23,647	1,393	
General Service Medium	Customer	MGS	(103,732)	(5,360)	
Total General			(80,085)	(3,966)	
Lighting:					
Street Lighting	Regression	SLS/SLR	711	29	
Sports Field Lighting	Regression	SFLS	16	-	
Traffic Signal Service	Regression	TSS/TFS	3	(7)	
Total Street Lighting			730	22	
Industrial:					
I - Textile	Customer	LGS	-	-	
I - Nontextile		LGS	(8,961)	(20,973)	
Total Industrial			(8,961)	(20,973)	
Total			80,000	(16,806)	169,320

Note:

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

"Regression" refers to the use of Ordinary Least Squares Regression.

"Customer" refers to the use of the Customer by Customer approach.

<sup>2</sup> Using the regression method (Residential, Lighting, SGS classes) and a customer by customer method for MGS and Industrial

### Harrington Workpaper 9b

### DUKE ENERGY PROGRESS, LLC North Carolina Annual Fuel and Fuel Related Expense Projected MWh Sales at Meter and Generation - NERC 5-year Average Billing Period December 1, 2023 - November 30, 2024 Docket No. E-2, Sub 1321

		Remove impact of SC		2022 Cost of Service	
	Projected	DERP Net Metered	Adjusted Projected	Line	Adjusted Projected
	Sales MWhs at Meter	MWhs	Sales MWhs at Meter	Loss Factors	Sales MWhs at Generation
NC Retail					
Residential	17,326,377		17,326,377	2.505%	17,771,554
Small General Service	1,816,847		1,816,847	2.503%	1,863,491
Medium General Service	10,471,370		10,471,370	2.437%	10,732,932
Large General Service	9,239,420		9,239,420	2.083%	9,435,971
Lighting	384,646		384,646	2.489%	394,465
NC Retail	39,238,661	-	39,238,661		40,198,412
SC Retail	6,284,478	33,600	6,318,078	2.299%	6,466,748
Total Wholesale	17,708,557		17,708,557	1.594%	17,995,404
Total Adjusted NC System Sales	63,231,695	33,600	63,265,295		64,660,564
NC as a percentage of total	62.06%		62.02%		62.17%
SC as a percentage of total	9.94%		9.99%		10.00%
Wholesale as a percentage of total	28.01%		27.99%		27.83%
SC Net Metering allocation adjustment					
Total Projected SC NEM MWhs	33,600				
Marginal Fuel rate per MWh for SC NEM	\$ 25.34				
Fuel Benefit to be directly assigned to SC	\$ 851,357				
System Fuel Expense	\$ 1,646,049,824 Ext	n 7A			
Fuel benefit to be directly assigned to SC Retail	851,357				
Total Adjusted System Fuel Expense	\$ 1,646,901,181 Ext	n 7C			

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### DUKE ENERGY PROGRESS, LLC North Carolina Annual Fuel and Fuel Related Expense NC Retail Allocation % Line Loss Calculation Factors - 12 Months Ending December 31, 2022 Docket No. E-2, Sub 1321

KWh at Meter

15,976,054,799

383,543,385

51,330,516

41,024,628

978,971,351

1,844,412,705

5,438,202,332

4,331,008

243,830,543

84,397,795

37,439,246,332

17,771,262,650

55,210,508,983

2,011,492,983

31,032,172

246,932,621

1,042,954,747

505,964,162

17,957,542

459,678,226

261,197,320

670,335,735

647,358,082

5,866,842

1,500,922

1,865,006,873

7,809,544,914

2,717,094,559

NC RES

NC SGS

NC MGS

NC SI

NC LGS

NC TSS

NC ALS

NC SLS

NC SFLS

Total NCR

NCWHS incl. NCEMPA

Total NC

SC RES

SC SGS

SC MGS

SC SI

SC LGS

SC LGS-TOU

SC LGS-RTP

SC LGS-CRTL-TOU

SC RES-TOU

SC SGS-CLR

SC MGS-TOU

NC LGS-TOU

NC LGS-RTP

NC RES-TOU

NC SGS-CLR

NC MGS-TOU

KWh at Meter

Allocation

26.11%

0.63%

3.05%

0.08%

12.76%

4.44%

0.07%

1.60%

3.01%

8.89%

0.01%

0.40%

0.14%

0.00%

61.19%

29.04%

90.23%

3.29%

0.05%

0.40%

0.01%

1.70%

0.83%

0.03%

0.75%

0.43%

1.10%

1.06%

Generator Step Up Loss %

0.1863%

# Aug 28 2023

Losses	_		Cost of Service Data	a Summarized	
		kWh @ Meter	kWh @ Generator	Losses (kWh)	Loss Percent
369,750,536	Residential	16,359,598,185	16,769,474,812	409,876,627	2.5050%
8,876,745	SGS	1,920,668,398	1,968,747,639	48,079,241	2.5030%
43,122,628	MGS	10,567,664,101	10,825,234,713	257,570,612	2.4370%
1,187,682	LGS	8,261,586,387	8,433,649,277	172,062,890	2.08309
174,686,043	Lighting	329,729,261	337,935,853	8,206,592	2.4890%
61,828,200	Total NC Retail	37,439,246,332	38,335,042,294	895,795,961	2.3930%
883,911					
20,182,597					
36,632,122	Total NC Retail	37,439,246,332	38,335,042,294	895,795,961	2.39309
99,532,352					
100,237	SC Retail	5,974,860,116	6,112,248,556	137,388,440	2.2990%
5,593,268	12ME NEM Generation	32,273,392	33,015,357	741,965	2.29909
1,953,306	Total SC Retail	6,007,133,508	6,145,263,913	138,130,405	2.29909
30,285					
824,359,914	Wholesale	17,738,989,258	18,021,829,151	282,839,893	1.59409
	Total System	61,185,369,099	62,502,135,358	1,316,766,259	2.15209
249,937,269					
	Line Loss Calculations for Projected				
L,074,297,183	Fuel Costs	MWh @ Meter	MWh @ Generator		
	Residential	17,326,377	17,771,554		
46,554,085	SGS	1,816,847	1,863,491		

56,284,806,165	90.22%	1,074,297,183	Fuel Costs	MWh @ Meter	MWh @ Generator	
			Residential	17,326,377	17,771,554	
2,058,047,067	3.30%	46,554,085	SGS	1,816,847	1,863,491	
31,750,382	0.05%	718,210	MGS	10,471,370	10,732,932	
252,635,251	0.40%	5,702,630	LGS	9,239,420	9,435,971	
6,002,593	0.01%	135,751	Lighting	384,646	394,465	
1,066,207,787	1.71%	23,253,039	Total NC Retail	39,238,661	40,198,412	
517,358,233	0.83%	11,394,071	Total SC Retail	6,318,078	6,466,748	
18,347,115	0.03%	389,573	Wholesale	17,708,557	17,995,404	
469,092,721	0.75%	9,414,495	Total System	63,265,295	64,660,564	
265,931,672	0.43%	4,734,352	Allocation percent - NC retail	62.02%	62.17% Sc	enario 1, Scenario 3, WP 15
681,350,985	1.09%	11,015,250				
658,348,451	1.06%	10,990,369				
			Line Loss Calculations for Normalized			

						Line Loss Calculations for Normalized		
SC TSS	1,934,090	0.00%	1,978,852	0.00%	44,763	Test Period Sales	MWh @ Meter	MWh @ Generator
SC ALS	56,828,988	0.09%	58,126,692	0.09%	1,297,704	Residential	16,660,473	17,088,541
SC SLS	15,145,023	0.02%	15,495,541	0.02%	350,517	SGS	1,911,733	1,960,812
SC SFLS	181,583	0.00%	185,247	0.00%	3,664	MGS	10,553,483	10,817,096
Total SCR	5,974,860,116	9.77%	6,100,858,589	9.78%	125,998,473	LGS	8,443,198	8,622,811
						Lighting	342,287	351,024
SCWHS		0.00%		0.00%	0	Total NC Retail	37,911,173	38,840,283
						Total SC Retail	6,043,558	6,185,768
Total SC	5,974,860,116	9.77%	6,100,858,589	9.78%	125,998,473	Wholesale	17,840,541	18,129,526
						Total System	61,795,272	63,155,578
Total System	61,185,369,099	100.00%	62,385,664,754	100.00%	1,200,295,655	Allocation percent - NC retail	61.35%	61.50% Scenario

kWh at

Generation

Allocation

26.20%

0.63%

3.06%

0.08%

12.80%

4.45%

0.07%

1.60%

3.02%

8.88%

0.01%

0.40%

0.14%

0.00%

61.33%

28.89%

KWh at at

Generation

(high side of GSU)

16,345,805,335

392,420,131

52,518,198

41,908,539

999,153,948

1,881,044,827

5,537,734,684

4,431,245

249,423,811

86,351,102

1,531,208

38,263,606,246

18,021,199,919

1,908,129,501

7,984,230,957

2,778,922,760

# 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, 2023 Docket No. E-2, Sub 1321

2023
2
Aug

		February 2023	February 2023		12ME March 2023			
North Carolina Retail Fuel Clause Customer Classes		onthly Revenue	Monthly kWh Sales	Cents/ kWh	12ME Billed kWh Sales	Total Annualized Revenues		Cust Class Contribution
		(a)	(b)	(a)/(b) *100 = (c)	(d)		(c) * (d) / 100	
Residential	\$	175,043,253	1,345,286,284	13.0116	16,034,935,864	\$	2,086,401,509	51%
Small General Service		21,334,569	145,546,716	14.6582	1,908,359,732		279,731,721	7%
Medium General Service		70,147,644	756,940,707	9.2673	10,766,603,059		997,768,827	25%
Large General Service		45,780,304	664,580,619	6.8886	8,519,137,298		586,849,332	14%
Lighting		8,818,319	26,337,752	33.4817	341,556,885		114,358,945	3%
Total	\$	321,124,089	2,938,692,079		37,570,592,838	\$	4,065,110,334	100%

# DUKE ENERGY PROGRESS, LLC North Carolina Annual Fuel and Fuel Related Expense 2022 Production Demand Allocation Factors Docket No. E-2, Sub 1321

System

11,065,080

NC Retail

6,873,494

62.12%

100.00%

Residential

3,892,721

35.18%

56.63%

Small GS

1,455,356

13.15%

21.17%

Med GS

514,718

4.65%

7.49%

2022 Total Production Demand

All - Production Demand (kW)

Allocation of Classes to Total NC Retail

NC Retail % to Total System

Lrg GS

942,855

8.52%

13.72%

2023
2

Ltg

67,843

0.61%

0.99%

DUKE ENERGY PROGRESS, LLC North Carolina Annual Fuel and Fuel Related Expense Scenario Differences Billing Period December 1, 2023 - November 30, 2024 Docket No. E-2, Sub 1321

### Line Loss

Line Losses & Company Use	Exh 2A	(2,185,868)
Generation	Exh 2A	60,828,064
	%	-3.594%
	Multiplier	1.035935

### Proposed Nuclear Capacity Factor & Normalized Sales

Normalized Sales at Meter Projected Billing Period Sales at Meter Difference	Exh 4 Exh 2A	61,795,272 63,231,695 (1,436,423)
Gross up for losses	Difference x Multiplier	(1,488,041)
	MWh changes in Coal MWH changes in Losses	(1,488,041) 51,618

		Before Adj	Adj	Total	
Total Coal MWh		6,229,316	(1,488,041)	4,741,275	
Total Losses MWh		(2,185,868)	51,618	(2,134,250)	
		4,043,448		2,607,025	
		Before Adj	After Adj	Adjustment	
Total Coal \$	\$	269,486,511 \$	205,112,352 \$	(64,374,159)	

### NERC 5 year average Capacity Factor & Projected Sales

		Nuclear-MWHs	Nuclear Costs	
Nuclear	WP 1	29,122,107	\$ 178,009,922	-
Nuclear - NERC Average	WP 2	29,641,810	\$ 181,186,626	
	Adjustment	519,703	\$ 3,176,704	-
		Coal-MWH	Coal Costs	_
Coal MWh	WP 3, WP4	5,967,395	\$ 258,155,544	-
Adjustment from Above	Adjustment above	(519,703)	\$ (22,482,882)	(Priced at the avg Coal \$/MWH)
		5,447,692	\$ 235,672,661	-

North Carolina Annual Fuel and Fuel Related Expense 2.5% Calculation Test - Projected Sales Billing Period December 1, 2023 - November 30, 2024 Docket No. E-2, Sub 1321

Line			EMF (Over)/Under	
No.	Description	 Forecast \$	Collection \$	 Total \$
1	Amount in current docket	\$ 345,312,055 \$	74,471,825	\$ 419,783,880
2	Amount in 2022 Filing: Docket E-2 Sub 1292	325,973,737	73,732,404	399,706,141
3	Reduction in prior year docket in excess of 2.5%	(11,048,138)		(11,048,138)
4	Increase/(Decrease)	\$ 30,386,456 \$	739,421	\$ 31,125,876
5	2.5% of 2022 NC revenue of \$3,921,941,134			98,048,528
6	Amount over 2.5%			 0

		System Cost		Alloc %	NC Alloc. Forecast		
WP 4	Purchases from Dispatchable Units	\$	122,200,054	62.17%	\$	75,969,770	
WP 4	Purchases for REPS Compliance Energy		113,597,923	62.17%		70,621,965	
WP 4	Purchases for REPS Compliance Capacity		22,836,104	62.12%		14,185,512	
WP 4	Purchases from Qualifying Facilities Energy		228,895,936	62.17%		142,300,849	
WP 4	Purchases from Qualifying Facilities Capacity		46,899,456	62.12%		29,133,375	
WP 4	Allocated Economic Purchases		21,072,752	62.17%		13,100,584	
	Total	\$	555,502,225		\$	345,312,055	

		System Cost		Alloc %	NC	Alloc. Forecast
Prior Year	Dispatchable Purchased Energy	\$	88,434,734	62.74%	\$	55,483,952
Prior Year	Purchases for REPS Compliance Energy		116,315,118	62.74%		72,976,105
Prior Year	Purchases for REPS Compliance Capacity		23,896,105	61.54%		14,705,781
Prior Year	Purchases from Qualifying Facilities Energy		224,803,592	62.74%		141,041,773
Prior Year	Purchases from Qualifying Facilities Capacity		46,050,571	61.54%		28,339,750
Prior Year	Allocated Economic Purchases		21,400,024	62.74%		13,426,375
Prior Year	Total	\$	520,900,144		\$	325,973,737

### **Revised Harrington Workpaper 15**

North Carolina Annual Fuel and Fuel Related Expense 2.5% Calculation Test - Normalized Sales Billing Period December 1, 2023 - November 30, 2024 Docket No. E-2, Sub 1321

Line		EMF (Over)/Under							
No.	Description		Forecast \$	Collection \$			Total \$		
1	Amount in current docket	\$	342,062,332	\$	74,471,825	\$	416,534,157		
2	Amount in 2022 Filing: Docket E-2 Sub 1292		319,747,373		73,732,404		393,479,777		
3	Reduction in prior year docket in excess of 2.5%		(7,568,575)				(7,568,575)		
4	Increase/(Decrease)	\$	29,883,534	\$	739,421	\$	30,622,955		
5	2.5% of 2022 NC revenue of \$3,921,941,134						98,048,528		
6	Amount over 2.5%						0		

		System Cost		Alloc %	NC	Alloc. Forecast
WP 4	Purchases from Dispatchable Units	\$	122,200,054	61.50%	\$	75,152,265
WP 4	Purchases for REPS Compliance		113,597,923	61.50%		69,862,008
WP 4	Purchases for REPS Compliance Capacity		22,836,104	62.12%		14,185,512
WP 4	Purchases from Qualifying Facilities Energy		228,895,936	61.50%		140,769,562
WP 4	Purchases from Qualifying Facilities Capacity		46,899,456	62.12%		29,133,375
WP 4	Allocated Economic Purchases		21,072,752	61.50%		12,959,610
	Total	\$	555,502,225		\$	342,062,332

		 System Cost	Alloc %	NC	C Alloc. Forecast	
Prior Year	Dispatchable Purchased Energy	\$ 88,434,734	61.36%	\$	54,262,924	
Prior Year	Purchases for REPS Compliance Energy	116,315,118			71,370,129	
Prior Year	Purchases for REPS Compliance Capacity	23,896,105			14,705,781	
Prior Year	Purchases from Qualifying Facilities Energy	224,803,592	61.36%		137,937,886	
Prior Year	Purchases from Qualifying Facilities Capacity	46,050,571	61.54%		28,339,750	
Prior Year	Allocated Economic Purchases	21,400,024	21,400,024 61.36%		13,130,903	
Prior Year	Total	\$ 520,900,144		\$	319,747,373	

### DUKE ENERGY PROGRESS, LLC North Carolina Annual Fuel and Fuel Related Expense 2.5% Calculation Test-Detail Calculation Nine Months Ended March 31, 2023 Docket No. E-2, Sub 1321

Billed Rate from Docket E-2, Sub 1272 - Jul'22-Nov'22

Line No.		Reference		Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	9ME
1	Adjusted System kWh Sales, at generation			6,280,264,977	6,885,022,540	5,485,737,444	4,853,247,090	4,445,813,545	5,583,584,023	5,907,460,616	4,893,563,300	4,809,481,141	49,144,174,676
2	NC Retail kWh Sales, at generation			3,677,536,175	4,399,901,465	3,421,936,676	3,259,964,097	2,685,105,983	3,386,522,236	3,785,873,438	3,156,605,781	3,084,976,791	30,858,422,642
3	NC Retail % of Sales	Line 2 / Line 1		58.56%	63.91%	62.38%	67.17%	60.40%	60.65%	64.09%	64.51%	64.14%	62.79%
	Applicable Purchase Power, Excl. JDA												
4	System Purchase Power, Excl. JDA		\$	78,834,682 \$	87,164,698 \$	63,236,075 \$	36,083,020 \$	34,314,859	\$ 49,114,852	\$ 18,984,040 \$	22,106,557 \$	25,966,736 \$	415,805,518
5	NC Purchase Power	Line 4 * Line 3	\$	46,163,242 \$	55,702,953 \$	39,445,899 \$	24,237,247 \$	20,724,898	\$ 29,788,848	\$ 12,166,170 \$	14,259,892 \$	16,656,012 \$	259,145,162
6	NC Retail kWh Sales, at delivery			3,419,268,005	4,099,684,153	3,183,783,237	3,041,548,195	2,503,196,009	3,149,378,817	3,521,586,098	2,938,692,079	2,872,764,484	28,729,901,076
7	NC Incurred Rate	Line 5 / Line 6 * 100		1.350	1.359	1.239	0.797	0.828	0.946	0.345	0.485	0.580	0.902
	Capacity												
8	System Capacity		\$	8,818,256 \$	12,745,196 \$	12,590,731 \$	4,708,308 \$	3,502,690	\$ 3,976,438	\$ 3,240,043 \$	4,248,351 \$	5,437,824 \$	59,267,837
9	NC Capacity (@ Production Plant %)	61.541%	\$	5,426,798 \$	7,843,457 \$	7,748,398 \$	2,897,516 \$	2,155,573	\$ 2,447,120	\$ 1,993,939 \$	2,614,456 \$	3,346,464 \$	36,473,721
10	NC Incurred Rate	Line 9/Line 6*100		0.159	0.191	0.243	0.095	0.086	0.078	0.057	0.089	0.116	0.127
11	Total NC Incurred Rate	Line 7 + Line 10		1.509	1.550	1.482	0.892	0.914	1.024	0.402	0.574	0.696	1.029
12	Billed Rate	Billed Rates Below		0.723	0.723	0.723	0.723	0.723	0.785	0.846	0.846	0.846	
13	(Over)/Under cents per kwh	Line 131- Line 12		0.786	0.827	0.759	0.169	0.191	0.239	(0.444)	(0.272)	(0.150)	
14	(Over)/Under \$	Line 6 * Line 13 /100	Ś	26,873,638 \$	33,911,574 \$	24,180,111 \$	5,148,732 \$	4,785,955	\$ 7,526,974	\$ (15,642,989) \$	(7,999,159) \$	(4,313,011) \$	74,471,825

\* December billed rate is based on prorated billing factors

	Billed Rate from Docket E-2, Sub 1272 - Jul'22-Nov'22			* December billed rate is based on prorated billing factors					Billed Rate from Docket E-2, Sub 1292 - Feb'23-Jun'23			
									Purchases from			
	Purchases from Dispatchable Units &				Prior Bill Rate (Sub	New Bill Rate (Sub	December		Dispatchable Units &			
15	Economic Purchases	54,629,510	2021 Revised Harrington WP4		1272)	1292)	Blended Rate		Economic Purchases	109,834,758	2022 Harrington WP4	
16	Total MWH Sales	61,963,546	2021 Revised Harrington WP3	Approved Rates	0.723	0.846			Total MWH Sales	61,541,989	2022 Harrington WP3	
	···· ··· ···	- //							Billed Rate for			
17	Billed Rate for Purchases	0.088		Ratios of Days to rate	50.06%	49.94%			Purchases	0.178		
				Prorated Rate	0.362	0.423	0.785	To Line 12				
18	Renewables (energy)	114,179,542	2021 Revised Harrington WP4						Renewables (energy)	116,315,118	2022 Harrington WP4	
19	Total MWH Sales	61,963,546	2021 Revised Harrington WP3						Total MWH Sales	61,541,989	2022 Harrington WP3	
									Billed Rate for			
20	Billed Rate for Renewables	0.184							Renewables	0.189		
				** January billed rate i	s based on prorated	billing factors		_				
									QF Purchases			
21	QF Purchases (energy)	212,217,851	2021 Revised Harrington WP4						(energy)	224,803,592	2022 Harrington WP4	
22	Total MWH Sales	61,963,546	2021 Revised Harrington WP3						Total MWH Sales	61,541,989	2022 Harrington WP3	
					Prior Bill Rate (Sub		January		Billed Rate for			
23	Billed Rate for Renewables	0.342			1272)	1292)	Blended Rate		Renewables	0.365		
				Approved Rates	0.723	0.846			o 11 (2520 1			
~ ~	0 10 (0500 1.05)	~~ ~~~ ~~~			a	00.004			Capacity (REPS and	~ ~ ~ ~ ~ ~ ~ ~ ~		
24	Capacity (REPS and QF)	66,880,658	2021 Revised Harrington WP4	Ratios of Days to rate	0.1%	99.9%			QF)	69,946,676	2022 Harrington WP4	
25	Total MWH Sales	61,963,546	2021 Revised Harrington WP3	Prorated Rate	0.001	0.846	0.846	To Line 12	Total MWH Sales	61,541,989	2022 Harrington WP3	
26	Billed Rate for Capacity	0.108							Billed Rate for Capacity	0.114		
27	Total Billed Rate	0.723	To Line 12						Total Billed Rate	0.846	To Line 12	



Billed Rate from Docket E-2, Sub 1292 - Feb'23-Jun'23