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

			Generation	Unit Cost	Total System Cost	Remove impact of SC DERP Net Metered Generation Impact	System Capacity Cost	System Fuel (Non-Capacity) Cost
Line No	Unit	Reference	(MWh)	(cents/kWh)	(\$)	on System Avg Fuel (\$)	(\$)	(\$)
			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	5,709,613	4.3261	247,003,629			247,003,629
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	30,456,867	_	1,225,528,928	851,357		1,226,380,285
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	61,089,985		1,406,715,554	851,357		1,407,566,911
12	Purchases	Workpaper 3 - 4	11,928,598		563,779,105		\$ 68,745,569	495,033,536
13	JDA Savings Shared	Workpaper 4		_	(114,205,606)			(114,205,606)
14	Total Purchases	Sum of Lines 12 - 13	11,928,598	_	449,573,499		68,745,569	380,827,930
15	Total Generation and Purchases	Line 11 + Line 14	73,018,583	_	1,856,289,053	851,357	68,745,569	1,788,394,841
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	-	Ş	1,651,466,105	\$ 851,357	\$ 68,745,569	\$ 1,583,571,893
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			2.612			

Note: Rounding differences may occur

Duke Energy Progress, LLC
Harrington Exhibit 7B

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					Gene		General		General				
Line No.	Description	<u> </u>	R	esidential	Serv Sma		Service Medium		Service Large	Lighti	ng		Total
1	NC Retail Projected Billing Period MWh Sales at Meter	Workpaper 10		17,326,377	1,	816,847	10,471,37	70	9,239,420		384,646		39,238,661
Calculation	of Renewable and Qualifying Facilities Purchased Power Capacity Rate by Class											4	<u>Amount</u>
2	Renewable Purchased Power Capacity	Workpaper 4										\$	21,846,114
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										\$	68,745,569
5	NC Portion - Jurisdictional % based on Production Plant Allocator	Workpaper 13									_		61.15%
6	NC Renewable and Qualifying Facilities Purchased Power Capacity	Line 4 * Line 5									_	\$	42,039,686
7	Production Plant Allocation Factors	Workpaper 13		54.15%		5.98%	25.19	9%	14.69%		0.00%		100.00%
8	8 Renewable and Qualifying Facilities Purchased Power Capacity allocated on Production Plant % Line 6 * Line 7		\$	22,765,363 \$	5 2,	511,908 \$	10,587,86	55 \$	6,174,549	\$	-	\$	42,039,686
9	Renewable and Qualifying Facilities Purchased Power Capacity cents/kWh based on Projected												
9	Billing Period Sales at Meter	Line 8 / Line 1 / 10		0.131		0.138	0.10)1	0.067		-		0.107
Summary o	f Total Rate by Class		c	ents/kWh	cents/	kWh	cents/kWh		cents/kWh	cents/l	wh		
10	Fuel and Fuel-Related Costs excluding Renewable and Qualifying Facilities Purchased Power	Line 15 - Line 11 - Line											
10	Capacity cents/kWh	13 - Line 14		2.720		3.111	2.44	15	2.033		3.964		
11	Renewable and Qualifying Facilities Purchased Power Capacity cents/kWh	Line 9		0.131		0.138	0.10)1	0.067		-		
12	Total adjusted Fuel and Fuel-Related Costs cents/kWh	Line 10 + Line 11		2.851		3.249	2.54	16	2.100		3.964		
13	EMF Increment/(Decrement) cents/kWh	Exh 3B, 3C, 3D, 3E, 3F		1.187		1.040	1.08	30	1.243		1.681		
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		4.038		4.289	3.62	26	3.343		5.645		

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Calculation of Uniform Percentage Average Bill Adjustment by Customer Class

Line No.	Rate Class	NC Retail Projected Billing Period MWh Sales at Meter		nual Revenue at Current rates	Allocate Fuel Increase/(Decr Customer (rease) to	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
		Α		В	С		D	E	F	G
					Line 27 as a % o	of Column		If D=0 then 0 if not then		
		Workpaper 10	١	Workpaper 12	В	or column	C / B	(C*100)/(A*1000)	Exhibit 1, Line 4	E + F = H
1	Residential	17,326,37	7 \$	2,086,401,509	\$ 100	0,695,423	4.8%	0.581	3.457	4.038
2	Small General Service	1,816,84	7	279,731,721	13	3,500,615	4.8%	0.743	3.546	4.289
3	Medium General Service	10,471,37	0	997,768,827	48	3,155,043	4.8%	0.460	3.166	3.626
4	Large General Service	9,239,42	0	586,849,332	28	3,322,948	4.8%	0.307	3.036	3.343
5	Lighting	384,64	6	114,358,945	5	5,519,274	4.8%	1.435	4.210	5.645
6	NC Retail	39,238,66	1 \$	4,065,110,334	\$ 196	5,193,303				
	Total Proposed Composite Fuel Rate:									
7	Adjusted System Total Fuel Costs	Workpaper 10	\$	1,652,317,462						
8	System Renewable and Qualifying Facilities Purchased Power Capacity	Exhibit 7B		68,745,569	_					
9	System Other Fuel Costs	Line 7 - Line 8	\$	1,583,571,893						
10	NC Retail Allocation % - sales at generation	Workpaper 10		62.17%						
11	NC Retail Other Fuel Costs	Line 9 * Line 10	\$	984,480,673						
12	NC Renewable and Qualifying Facilities Purchased Power Capacity	Exhibit 7B		42,039,686	_					
13	NC Retail Total Fuel Costs	Line 11 + Line 12	\$	1,026,520,359						
14	NC Retail Reduction due to 2.5% Purchased Power Test	Workpaper 15	\$	-	_					
15	NC Retail Total Fuel Costs	Line 13 + Line 14	\$	1,026,520,359						
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		2.616						
	Proposed Composite EMF Rate cents/kWh	Exhibit 3A		1.167						
	Proposed Composite EMF Rate Interest cents/kWh	Exhibit 3A		0.000	_					
20	Total Proposed Composite Fuel Rate	Sum of Lines 17-19		3.783						
	Total Current Composite Fuel Rate - Docket E-2 Sub 1292:									
	Current composite Fuel Rate cents/kWh	2022 Revised Harrington Exh 2, Sch 1, Pg 3, Ln 17		2.606						
	Current composite EMF Rate cents/kWh	2022 Revised Harrington Exh 2, Sch 1, Pg 3, Ln 18		0.677						
	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		0.500						
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	\$	196,193,303						
	Note: Rounding differences may occur									