

Duke Energy Progress, LLC
North Carolina Annual Fuel and Fuel-Related Expense
Calculation of Fuel and Fuel-Related Cost Factors Using:
Proposed Nuclear Capacity Factor of 94.99% with Projected Billing Period MWh Sales
Billing Period December 1, 2024 - November 30, 2025
Docket No. E-2, Sub 1341

Harrington Exhibit 2A

Line No.	Unit	Reference	Generation (MWh)	Unit Cost (cents/kWh)	Total System Cost (\$)	Remove impact of SC DERP Net Metered Generation on System Avg Fuel (\$)	System Capacity Cost (\$)	System Fuel (Non-Capacity) Cost (\$)
			A	B = C/A/10	C	D	E	F = C + D - E
1	Total Nuclear	Workpaper 3, 4	29,898,302	0.6209	\$ 185,636,000			\$ 185,636,000
2	Coal	Workpaper 3, 4	9,693,446	4.4013	426,638,599			426,638,599
3	Gas - CT and CC	Workpaper 3, 4	21,896,341	3.7600	823,304,204			823,304,204
4	Reagents & Byproducts	Workpaper 5	-		36,613,958			36,613,958
5	Remove SC DERP Net Metering Impact on System Avg Fuel	Workpaper 10				\$ 1,308,885		1,308,885
6	Total Fossil	Line 2 + Line 3 + Line 4 + Line 5	31,589,787		1,286,556,761	1,308,885		1,287,865,646
7	Hydro	Workpaper 3	637,745					
8	Utility Owned Solar Generation	Workpaper 3	294,499					
9	Total Generation	Line 1 + Line 6 + Line 7 + Line 8	62,420,333		1,472,192,761	1,308,885		1,473,501,646
10	Purchases	Workpaper 3, 4, or Exh 2B	11,763,051		580,041,053		\$ 69,586,519	510,454,534
11	JDA Savings Shared	Workpaper 4			(24,331,067)			(24,331,067)
12	Total Purchases	Line 10 + Line 11	11,763,051		555,709,986		69,586,519	486,123,467
13	Total Generation and Purchases	Line 9 + Line 12	74,183,384		2,027,902,746	1,308,885	69,586,519	1,959,625,112
14	Fuel expense recovered through intersystem sales	Workpaper 3, 4	(7,230,228)		(235,690,333)			(235,690,333)
15	Line losses and Company use (MWh only)	Line 17 - Line 13 - Line 14	(2,854,213)					
16	System Fuel Expense for Fuel Factor	Line 13 + Line 14			\$ 1,792,212,413	\$ 1,308,885	\$ 69,586,519	\$ 1,723,934,779
17	Projected System MWh Sales at Meter	Workpaper 3	64,098,943		64,098,943			
18	Fuel and Fuel-Related Costs cents/kWh	Line 16 /Line 17 / 10			2.796			

Note: Rounding differences may occur

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Harrington Exhibit 2B

Line No.	Description		Residential	General Service Small	General Service Medium	General Service Large	Lighting	Total
1	NC Retail Projected Billing Period MWh Sales at Generation	Workpaper 8	17,650,947	1,941,802	11,175,109	9,678,369	404,578	40,850,805
Calculation of Fuel and Fuel-related (Non-Capacity) Rate by Class								
								Amount
2	System Fuel and Fuel-related (Non-Capacity) Costs	Exhibit 2A						\$ 1,723,934,779
3	NC Portion - Jurisdictional % based on Projected Billing Period MWh Sales at Generation	Workpaper 8						61.24%
4	NC Retail Fuel (Non-Capacity) Costs before 2.5% Purchase Power Test	Line 2 * Line 3						\$ 1,055,672,467
5	NC Retail Amount Excluded by 2.5% Purchased Power Test	Workpaper 14, opp sign						-
6	NC Retail Fuel (Non-Capacity) Costs Allowable Under GEN. STAT. § 62-133.2(A2)	Line 4 + Line 5						\$ 1,055,672,467
7	NC Retail Projected Billing Period MWh Sales at Generation Allocation Factors	Line 1 / Line 1 Total	43.21%	4.75%	27.36%	23.69%	0.99%	100.00%
8	Fuel (Non-Capacity) Costs allocated on Projected Billing Period MWh Sales at Generation	Line 6 * Line 7	\$ 456,138,353	\$ 50,180,334	\$ 288,788,788	\$ 250,109,828	\$ 10,455,164	\$ 1,055,672,467
Calculation of Renewable and Qualifying Facilities Purchased Power Capacity Rate by Class								
								Amount
9	System Renewable Purchased Power Capacity Costs	Workpaper 4						\$ 22,968,069
10	System Purchases from Qualifying Facilities Capacity Costs	Workpaper 4						46,618,449
11	Total of System Renewable and Qualifying Facilities Purchased Power Capacity Costs	Line 9 + Line 10						\$ 69,586,519
12	NC Portion - Jurisdictional % based on Production Demand Allocator	Workpaper 12						62.82%
13	NC Renewable and Qualifying Facilities Purchased Power Capacity Costs	Line 11 * Line 12						\$ 43,710,929
14	Production Demand Allocation Factors	Workpaper 12	50.47%	23.41%	8.43%	16.56%	1.14%	100.000%
15	Renewable and Qualifying Facilities Purchased Power Capacity allocated on Production Demand %	Line 13 * Line 14	\$ 22,059,077	\$ 10,231,089	\$ 3,685,216	\$ 7,238,564	\$ 496,981	\$ 43,710,929
Billed Rates								
16	NC Retail Projected Billing Period MWh Sales at Meter	Workpaper 8	16,718,977	1,839,372	10,603,837	9,330,722	383,406	38,876,315
			cents/kWh	cents/kWh	cents/kWh	cents/kWh	cents/kWh	
17	Fuel (Non-Capacity) cents/kWh based on Projected Billing Period MWh Sales at Meter	Line 8 / Line 16 / 10	2.728	2.728	2.723	2.680	2.727	
18	Renewable and Qualifying Facilities Purchased Power Capacity cents/kWh based on Projected Billing Period Sales at Meter	Line 15 / Line 16 / 10	0.132	0.556	0.035	0.078	0.130	

Note: Rounding differences may occur

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