BEFORE THE NORTH CAROLINA UTILITIES COMMISSION

DOCKET NO. E-2, SUB 1204

)

In the Matter of Application by Duke Energy) Progress, LLC Pursuant to G.S. 62-) 133.2 and Commission Rule R8-55) Regarding Fuel and Fuel-Related) Costs Adjustments for Electric) Utilities

TESTIMONY OF JENNY X. LI **PUBLIC STAFF – NORTH** CAROLINA UTILITIES COMMISSION

1Q.PLEASE STATE YOUR NAME AND ADDRESS FOR THE2RECORD.

A. My name is Jenny X. Li. My business address is 430 North Salisbury
Street, Raleigh, North Carolina.

5 Q. WOULD YOU BRIEFLY DISCUSS YOUR EDUCATION AND 6 EXPERIENCE?

7 A. Yes. My education and experience are summarized in Appendix A to8 my testimony.

9 Q. WHAT ARE YOUR DUTIES?

A. I am responsible for the performance of the following activities: (1)
the examination and analysis of testimony, exhibits, books and
records, and other data presented by utilities and other parties under
the jurisdiction of the Commission or involved in Commission
proceedings; and (2) the preparation and presentation to the
Commission of testimony, exhibits, and other documents in those
proceedings.

17 Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?

A. The purpose of my testimony is to present the results of the Public
Staff's investigation of the Experience Modification Factor (EMF)
riders proposed by Duke Energy Progress, LLC (DEP or the
Company) in this proceeding. The EMF riders are utilized to "trueup," by customer class, the recovery of fuel and fuel-related costs

incurred during the test year. DEP's test year in this fuel proceeding
 is the twelve months ended March 31, 2019.

Q. PLEASE DESCRIBE THE PUBLIC STAFF'S INVESTIGATION OF THE FUEL EMF INCREMENT RIDERS.

5 The Public Staff's investigation included procedures intended to Α. 6 evaluate whether the Company properly determined its per books 7 fuel and fuel-related costs and revenues during the test period. 8 These procedures included a review of the Company's filing, prior 9 Commission orders, the Monthly Fuel Reports filed by the Company 10 with the Commission, and other Company data provided to the Public 11 Staff. Additionally, they included review of certain specific types of 12 expenditures impacting the Company's test year fuel and fuel-related 13 costs, including nuclear fuel disposal costs and payments to non-14 utility generators, as well as reviews of source documentation of fuel 15 and fuel-related costs for certain selected Company generation 16 resources. Performing the Public Staff's investigation required the 17 review of numerous responses to written and verbal data requests, 18 as well as a site visit to the Company's offices and several telephone 19 conferences with Company representatives.

20 Q. PLEASE EXPLAIN THE FUEL EMF RIDERS ORIGINALLY 21 PROPOSED BY DEP IN THIS PROCEEDING.

A. In its application filed on June 11, 2019, DEP stated that it
experienced a total under-recovery in the amount of \$109,550,954
for its combined customer classes. The under-recovery of fuel for
each of the North Carolina retail customer classes initially proposed
was as follows:

6	Residential	(\$40,376,037)
7	Small General Service	(\$2,324,536)
8	Medium General Service	(\$18,739,830)
9	Large General Service	(\$46,571,176)
10	Lighting	(\$1,539,374)

11 The proposed riders were calculated by dividing the fuel and fuel-12 related cost under-recovery for each class by DEP's normalized test 13 year North Carolina retail sales of 16,022,241 megawatt-hours 14 (MWh) for the Residential Service class; 1,943,714 MWh for the 15 Small General Service class; 11,007,307 MWh for the Medium 16 General Service class; 8,368,542 MWh for the Large General 17 Service class; and 353,965 MWh for the Lighting Service class. 18 DEP's resulting proposed EMF increment riders (excluding the North 19 Carolina regulatory fee) for each North Carolina retail customer class 20 are as follows:

21	Residential	0.252 ¢ per kWh	
22	Small General Service	0.120 ¢ per kWh	
	TESTIMONY OF JENNY X. LI PUBLIC STAFF – NORTH CAROLINA UTILITIES DOCKET NO. E-2, SUB 1204	COMMISSION	Page 4

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1	Medium General Service	0.170 ¢ per kWh
2	Large General Service	0.557 ¢ per kWh
3	Lighting	0.435 ¢ per kWh

In computing these initially proposed EMF riders, DEP included the
under-recovery related to the coal inventory rider established in
Ordering Paragraph 12 of the Commission's February 23, 2018
Order Accepting Stipulation, Deciding Contested Issue and Granting
Partial Rate Increase in Docket No. E-2, Sub 1142. The coal
inventory rider was terminated effective for service on and after
December 1, 2018.

11 Q. PLEASE DESCRIBE THE COMPANY'S SUPPLEMENTAL 12 TESTIMONY AND REVISED EXHIBITS.

A. On August 15, 2019, DEP filed the Supplemental Testimony of Dana
M. Harrington with Revised Harrington Exhibits and supporting
workpapers. Witness Harrington's supplemental testimony and
revised exhibits reflects the impact of three updates to numbers
presented in witness Harrington's direct exhibits and workpapers.
They are as follows:

(1) Update the EMF increment to incorporate the fuel and fuel related cost recovery balance for April through June 2019,
 pursuant to Commission Rule R8-55(d)(3). The reported
 over/under-recovery included in the update, although included
 TESTIMONY OF JENNY X. LI Page 5
 PUBLIC STAFF – NORTH CAROLINA UTILITIES COMMISSION

DOCKET NO. E-2, SUB 1204

- in this proceeding, will be reviewed as part of next year's fuel
 and fuel-related cost proceeding.
- 3 (2) Update proposed rates to reflect revisions to the customer class
 4 allocation of manual adjustments made to the EMF under5 collection balance. The impact of this correction to proposed
 6 customer rates is as follows: Residential (0.015) cents per kwh,
 7 Small General Service 0.019 cents per kwh, Medium General
 8 Service 0.016 cents per kwh, Large General Service 0.002
 9 cents per kwh, and Lighting (0.010) cents per kwh.
- 10 (3) Update the Customer Growth adjustment. This update results
 11 in a change of (2,062) MWh to adjusted NC system sales. The
 12 fuel rates proposed by the Company are not affected by this
 13 update.

14 Q. WHAT DID COMPANY WITNESS HARRINGTON PROPOSE IN

15 HER SUPPLEMENTAL TESTIMONY?

A. DEP Witness Harrington proposed a revised under-recovery of fuel
for each of the North Carolina retail customer classes as follows:

18	Residential	(\$63,138,790)
19	Small General Service	(\$4,209,287)
20	Medium General Service	(\$26,020,608)
21	Large General Service	(\$55,725,485)
22	Lighting	(\$1,941,135)

1 The revised riders were calculated by dividing the updated fuel cost 2 under-recoveries by DEP's revised normalized test year N.C. retail 3 sales of 16,022,203 megawatt-hours (MWh) for the Residential 4 Service class; 1,941,728 MWh for the Small General Service class; 5 11,007,307 MWh for the Medium General Service class; 8,368,542 6 MWh for the Large General Service class; and 353,965 MWh for the 7 Lighting Service class. DEP's revised proposed EMF increment riders (excluding the North Carolina regulatory fee) for each North 8 9 Carolina retail customer class are as follows:

10	Residential	0.394 ¢ per kWh
11	Small General Service	0.217 ¢ per kWh
12	Medium General Service	0.236 ¢ per kWh
13	Large General Service	0.666 ¢ per kWh
14	Lighting	0.548 ¢ per kWh

15Q.PLEASE EXPLAIN DEP'S TWO ADJUSTMENTS RELATED TO16THE NET GAIN/LOSS ON THE SALE OF BY-PRODUCTS IN THE17TEST PERIOD IN WITNESS HARRINGTON'S DIRECT18TESTIMONY.

A. As explained in her initial testimony, DEP witness Harrington
 proposes to recover liquidated damages and a judgment payment
 related to a lawsuit involving CertainTeed Gypsum NC, Inc. included
 in test period costs on a cash basis rather than an accrual basis.

1 Regarding the liquidated damages, witness Harrington indicated that 2 for accounting purposes, the full 10-year liability related to the 3 settlement agreement was accrued in December 2018. As a result, 4 these system costs were reflected in the monthly fuel filings as they 5 were recorded to the Company's books in FERC account 502, which 6 was incorporated into the computation of the net gain/loss on the sale 7 of by-products. The N.C. retail share of these costs is reflected in the 8 test period under-recovery balance of \$146.8 million. However, for 9 fuel cost ratemaking purposes, DEP proposes to recover these costs 10 as the amounts are paid, rather than when the liability was accrued. 11 To achieve this result, the Company made an adjustment in the 12 amount of (\$44.1) million, to remove the North Carolina retail portion 13 of the total amount recorded to the books during the test year. The 14 Company subsequently made a second adjustment in the amount of 15 \$6.6 million to recognize only the North Carolina retail portion of the 16 cash payments made during the test period.

17Q.WHAT IS YOUR RECOMMENDATION REGARDING THE18ADJUSTMENTS PROPOSED BY DEP?

A. Based on the testimony and recommendation of Public Staff witness
Jay Lucas to remove all CertainTeed lawsuit-related expenses, I
have removed from test period costs: (1) the component of the
liquidated damages in the amount of \$6.6 million and, (2) the

1	judgment payment in the amount of \$619,200, both related to
2	CertainTeed. These adjustments are set forth in Li Exhibit 1.

I have also incorporated witness Lucas' recommendation to remove
the CertainTeed liquidated damages expenses that are projected be
made in the billing period. This recommendation is also reflected in
Li Exhibit 1.

Q. ARE YOU PROPOSING ANY ADJUSTMENTS TO DEP'S TEST 8 YEAR KWH SALES?

A. No. I am not proposing any change to the revised normalized North
Carolina retail sales as proposed by DEP of 16,022,203 MWh for the
Residential class; 1,941,728 MWh for the Small General Service
class; 11,007,307 MWh for the Medium General Service class;
8,368,542 MWh for the Large General Service class; and 353,965
MWh for the Lighting class, as set forth in DEP witness Harrington's
supplemental testimony.

16Q.ARE THERE ANY OTHER MATTERS YOU WOULD LIKE TO17DISCUSS AS IT RELATES TO THE TEST PERIOD EMF18INVESTIGATION?

A. Yes, my investigation found a Net Native Load Transfer correction
that was set forth on Schedule 3 of the Monthly Fuel Reports for
February 2019, for both DEP and Duke Energy Carolinas, LLC
(DEC). According to the Company, a coding error was discovered

1 related to the sharing of economic purchases between DEP and DEC 2 that are subject to the Joint Dispatch Agreement (JDA). This coding 3 error covered the period from July 2012 through December 2018. 4 This correction is a net benefit to DEP in amount of \$54.7 million on 5 a system basis. The Public Staff does not dispute that the coding 6 error occurred and that it was appropriate to make the adjustment in 7 this case. However, the Public Staff will continue to investigate the reasons why the coding error occurred and reserves the right to raise 8 9 any other issues related to the coding error in future proceedings.

10 Q. WHAT ARE THE EMF UNDER-RECOVERY AMOUNTS YOU ARE 11 PROPOSING FOR THE FIVE CUSTOMER CLASSES?

A. Based on the testimony and recommendation of Public Staff witness
Lucas, I recommend the following under-recovery amounts for each
Carolina retail customer class, (excluding the North Carolina
regulatory fee):

16	Residential	(\$59,835,706)
17	Small General Service	(\$3,842,749)
18	Medium General Service	(\$24,006,222)
19	Large General Service	(\$54,214,580)
20	Lighting	(\$1,875,903)

1	The EMF increment riders that I am recommending (excluding the
2	North Carolina regulatory fee) for each North Carolina retail customer
3	class are as follows:

4	Residential	0.373 ¢ per kWh
5	Small General Service	0.198 ¢ per kWh
6	Medium General Service	0.218 ¢ per kWh
7	Large General Service	0.648¢ per kWh
8	Lighting	0.530 ¢ per kWh

- 9 I have provided these amounts to Public Staff witness Dustin R. Metz
- 10 for incorporation into his recommended final fuel factor.

11 Q. DOES THIS CONCLUDE YOUR TESTIMONY?

12 A. Yes, it does.

APPENDIX A

QUALIFICATIONS AND EXPERIENCE

JENNY X. LI

I graduated from North Carolina State University with a Bachelor of Science degree in Accounting.

I joined the Public Staff Accounting Division in August 2016 as a Staff Accountant. I am responsible for the performance of the following activities: (1) the examination and analysis of testimony, exhibits, books and records, and other data presented by utilities and other parties under the jurisdiction of the Commission or involved in Commission proceedings; and (2) the preparation and presentation to the Commission of testimony, exhibits, and other documents in those proceedings.

Since joining the Public Staff, I have filed affidavits in Duke Energy Progress, LLC (DEP) fuel rider Dominion Energy North Carolina REPS rider. I have also assisted on several electric cases and performed reviews in Duke Energy Carolinas, LLC (DEC), Duke Energy Progress, LLC (DEP) rate cases and fuel cases. I have also performed reviews of DEC's Existing DSM Program Rider and BPM/NFPTP Rider; Western Carolina University's PPA Rider and New River Light and Power Company's PPA Factor.

Prior to joining the Public Staff, I was employed by MDU Enterprises Inc. and Neusoft America Inc. My duties there varied from examining various financial statements to supervising accounting and assisting external audits.

Aug 19 2019 OFFICIAL COPY

Schedule 1

Aug 19 2019

Duke Energy Progress, LLC Docket No. E-2, Sub 1204 North Carolina Annual Fuel and Fuel-Related Expense Proposed Nuclear Capacity Factor of 94.62% SUMMARY OF PUBLIC STAFF FUEL AND FUEL RELATED COST FACTORS Test Period Twelve Months Ended March 31, 2019

Billing Period December 1, 2019 - November 30, 2020

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 Dock	<u>et No. E-2, Sub 1173)</u>					
1	Approved Fuel and Fuel-Related Costs Factors	Sub 1173 Order Appendix A	2.311	2.556	2.477	1.757	2.251
2	EMF Increment / (Decrement)	Sub 1173 Order Appendix A	0.575	0.363	0.343	1.038	0.885
3	EMF Interest Decrement cents/kWh, if applicable	n/a	-	-	-	-	-
4	Approved Net Fuel and Fuel-Related Costs Factors	Sum of Lines 1 through 3	2.886	2.919	2.820	2.795	3.136
	Company Proposed Fuel and Fuel Related Cost Factors						
5	Fuel and Fuel-Related Costs excluding Purchased Capacity cents/kWh	L7 - L6	2.206	2.372	2.345	1.977	2.280
	o i i j	Revised Harrington Exhibit 2,					
6	Total of Renewable and Cogeneration Purchased Power Capacity	Sch 1, Page 2	0.138	0.155	0.123	0.079	0.001
7	Total adjusted Fuel and Fuel Related Costs cents/kWh	L10 - L8 - L9	2.344	2.527	2.468	2.056	2.281
8	EMF Increment (Decrement) cents/kWh	Revised Harrington Exhibit 3, Pages 2 - 6	0.394	0.217	0.236	0.666	0.548
0 9	EMF Interest Decrement cents/kWh, if applicable	Pages 2 - 6 n/a	0.394		0.230	0.000	0.040
9	EMF interest Decrement cents/kwn, ir applicable	Revised Harrington Exhibit 2,	-	-	-	-	
10	Net Fuel and Fuel Related Costs Factors cents/kWh	Sch 1, Page 2	2.738	2.744	2.704	2.722	2.829
11	Public Staff Proposed Fuel and Fuel Related Cost Factors Fuel and Fuel Related Costs excluding Purchased Capacity cents/kWh	L13 - L12	2.188	2.344	2.333	1.975	2.216
40		Revised Harrington Exhibit 2,	0.400	0.455	0.400	0.070	0.004
12	Purchased Power - Capacity cents/kWh	Sch 1, Page 2	0.138	0.155	0.123	0.079	0.001
13	Total adjusted Fuel and Fuel Related Costs cents/kWh	L16 - L14 - L15	2.326	2.499	2.456	2.054	2.217
		Li Exhibit 1, Schedules 3-1 through					
14	EMF Increment (Decrement) cents/kWh	3-5	0.373	0.198	0.218	0.648	0.530
15	EMF Interest Decrement cents/kWh	n/a	-	-	-	-	-
16	Net Fuel and Fuel Related Costs Factors cents/kWh	Li Exh 1, Sch 2	2.699	2.697	2.674	2.702	2.747
	Differences between the Public Staff's and the Company's Proposed Fu						
17	Fuel and Fuel Related Costs excluding Purchased Capacity cents/kWh	L11 - L5	(0.018)	(0.028)	(0.012)	(0.002)	(0.064)
18	Purchased Power - Capacity cents/kWh	L12 - L6	-	-	-	-	-
19	Total adjusted Fuel and Fuel Related Costs cents/kWh	Sum of L17 & L18	(0.018)	(0.028)	(0.012)	(0.002)	(0.064)
20	EMF Increment (Decrement) cents/kWh	L14 - L8	(0.021)	(0.019)	(0.018)	(0.018)	(0.018)
21	EMF Interest Decrement cents/kWh	L15 - L9	-	-	-	-	-
22	Net Fuel and Fuel Related Costs Factors cents/kWh	Sum of Lines 19 through 21	(0.039)	(0.047)	(0.030)	(0.020)	(0.082)

Note: The above rates do not include state regulatory fees. Effective July 1, 2019, the Regulatory Fee rate changed from 0.14% to 0.13%.

Li Exhibit 1 Schedule 2

Duke Energy Progress, LLC Docket No. F-2, Sub 1204 North Carolina Annual Fuel and Fuel Related Expense PUBLIC STAFF COMPUTATION OF UNIFORM PERCENTAGE AVERAGE BILL ADJUSTMENT BY CUSTOMER CLASS Proposed Nuclear Capacity Factor of 94.62% and Projected Billing Period MWh Sales Billing Period December 1, 2019 - November 30, 2020

				Allocate Fuel Costs	Increase/Decrease as	Total Fuel Rate	Current Total Fuel Rate (including renewables	Proposed Total Fuel Rate (including
			Annual Revenue at	Increase/(Decrease) to	% of Annual Revenue	Increase/(Decrease)	and EMF) E-2, Sub 1173	renewables and EMF)
Line No.	Rate Class	Projected Billing Period MWh Sales	Current rates	Customer Class	at Current Rates	cents/kwh	cents/kwh	cents /kwh
		A	В	С	D	E	F	G
						If D=0 then 0 if not then		
		Workpaper 8	Workpaper 11	Line 27 as a % of Column B	С/В	(C*100)/(A*1000)	Exhibit 1, Line 4	E + F = G
1	Residential	16,265,079 \$	1,898,488,040	\$ (30,473,562)	-1.6%	(0.187)	2.886	2.699
2	Small General Service	1,806,876	249,548,540	(4,005,626)	-1.6%	(0.222)	2.919	2.697
3	Medium General Service	10,414,506	950,513,824	(15,257,163)	-1.6%	(0.146)	2.820	2.674
4	Large General Service	9,223,825	534,744,328	(8,583,443)	-1.6%	(0.093)	2.795	2.702
5	Lighting	381,171	92,439,556	(1,483,793)	-1.6%	(0.389)	3.136	2.747
6	NC Retail	38,091,457 \$	3,725,734,287	\$ (59,803,587)				

	Adjusted System Total Fuel Costs excluding system-wide \$8.4M Liquidated					
7	Damages Cost to CTG.	Workpaper 8		\$	1,424,636,845	1/
		Revised Harrington Exhibit 2	Sch 1,			
8	System Renewable and Qualifying Facilities Purchased Power Capacity	Page 2			74,415,842	_
9	Adjusted System Other Fuel Costs	Line 7 - Line 8		\$	1,350,221,003	
10	NC Retail Allocation % - sales at generation	Workpaper 10			61.68%	
	NC Retail Other Fuel Costs excluding NC's \$5.2M Liquidated Damages Cost to					
1	CTG.	Line 9 * Line 10		\$	832,816,315	1/,
		Revised Harrington Exhibit 2	Sch 1,			
12	NC Renewable and Qualifying Facilities Purchased Power Capacity	Page 2			45,394,250	
3	NC Retail Total Fuel Costs before 2.5% Purchase Power Test	Line 11 + Line 12		\$	878,210,565	
4	NC Retail Reduction due to 2.5% Purchased Power Test	Workpaper 16			0	
5	NC Retail Total Fuel Costs	Line 13 + Line 14		\$	878,210,565	
.6	NC Projected Billing Period MWh Sales	Line 6, col A			38,091,457	
7	Calculated Fuel Rate cents/kWh	Line 15 / Line 16 / 10			2.306	
18	Proposed Composite EMF Rate cents/kWh				0.381	
.9	Proposed Composite EMF Rate Interest cents/kWh	0			0.000	_
0	Total Proposed Composite Fuel Rate	Sum of Lines 17-19			2.687	
	Total Current Composite Fuel Rate - Docket E-2 Sub 1173:					
21	Current composite Fuel Rate cents/kWh	2018 Ward Exhibit 2, Sch 1, Pg 3,	Ln 17		2.242	
22	Current composite EMF Rate cents/kWh	2018 Ward Exhibit 2, Sch 1, Pg 3,	Ln 18		0.602	
23	Current composite EMF Interest cents/kWh	2018 Ward Exhibit 2, Sch 1, Pg 3,	Ln 19		0.000	_
4	Total Current Composite Fuel Rate	Sum of Lines 21-23			2.844	
5	Increase/(Decrease) in Composite Fuel rate cents/kWh	Line 20 - Line 24			(0.157)	
6	NC Projected Billing Period MWh Sales	Line 6, col A			38,091,457	
7	Increase/(Decrease) in Fuel Costs	Line 25 * Line 26 * 10		Ś	(59,803,588)	

Based on testimony of Public Staff witness Jay B. Lucas.
 Based on the Direct Testimony of Harrington, Page 12.

Li Exhibit 1 Schedule 3

Docket No. E-2, Sub 1204 North Carolina Annual Fuel and Fuel Related Expense

PUBLIC STAFF COMPUTATION of Experience Modification Factor - Proposed Composite

Duke Energy Progress, LLC

Test Period Twelve Months Ended March 31, 2019

					Reported			Adjusted
	F	uel Cost Incurred	Fuel Cost Billed	NC Retail	(Over)/Under		(Over)/Under
		¢/ kWh	¢/ kWh	MWh Sales	Recovery	Adjustments		Recovery
Line		(a)	(b)	(c)	(d)	(e)		(f)
No.	Month							
1	April 2018 (Sub 1146)	2.515	2.280	2,821,410		-	\$	6,616,553
2	May	2.794	2.286	2,743,729	13,930,507	-		13,930,507
3	June	2.884	2.277	3,379,527	20,501,107	-		20,501,107
4	July	2.641	2.275	3,687,027	13,504,786	-		13,504,786
5	August	2.619	2.277	3,705,569	12,651,306	-		12,651,306
6	September	2.954	2.276	3,324,420	22,555,310	-		22,555,310
7	October	2.142	2.282	3,247,434	(4,537,212)	-		(4,537,212)
8	November	2.768	2.286	2,905,623	14,008,619	-		14,008,619
9	December (New Rates - Sub 1173)	4.223	2.256	2,853,152	56,124,620	-		56,124,620
10	January 2019	2.845	2.250	3,344,813	19,890,481	\$ (33,252)		19,857,229
11	February	0.978	2.256	3,239,879	(41,422,510)	-		(41,422,510)
12	March	2.714	2.248	2,793,993	13,007,082	-		13,007,082
13	Total Test Period			38,046,575	\$ 146,830,650	\$ (33,252)	\$	146,797,398
14	April	2.686	2.236	2,728,574	12,291,799			12,291,799
15	May	2.782	2.239	2,833,194	15,364,636			15,364,636
16	June	2.680	2.249	3,213,527	13,827,917			13,827,917
17	Total 15-month Test Period		-	46,821,871	188,315,002	(33,252)		188,281,750
18	Booked (Over) / Under Recovery						\$	188,281,750
19	Coal inventory Rider (Over) / Under Recovery							257,250
20	Company Adjustment to remove by-product net gain/loss accrued expense							(44,144,639)
21	Company Adjustment to include by-product net gain/loss cash payments							6,640,945
22	Public Staff Adjustment to remove by-product net gain/loss cash payments							(6,640,945) 1/
23	Public Staff Adjustment to remove by-product net gain/loss/judgment payme	nt						(619,200) 1/, 2/
24	Total (Over) / Under Recovery						\$	143,775,161
25	Normalized Test Period MWh Sales	Exhibit 4						37,693,746
26	Experience Modification Increment / (Decrement) cents/KWh							0.381

1/ Based on testimony of Public Staff witness Jay B. Lucas.

2/ Li Exhbit 4.

Li Exhibit 1 Schedule 3-1

Duke Energy Progress, LLC Docket No. E-2, Sub 1204 North Carolina Annual Fuel and Fuel Related Expense PUBLIC STAFF COMPUTATION of Experience Modification Factor - Residential

Test Period Twelve Months Ended March 31, 2019

Line		Fuel Cost Incurred ¢/ kWh (a)	Fuel Cost Billed ¢/ kWh (b)	NC Retail MWh Sales (c)	(Over)/Under Recovery (d)	Adjustments (e)		Adjusted (Over)/Under Recovery (f)
No.	Month April 2018 (Sub 1146)	2.501	2.179	1 1 2 0 0 1 2	¢ 2,000,520		\$	3,660,529
1		3.023		1,138,012	\$ 3,660,529 8,577,706		Ş	8,577,706
2 3	May June	2.787		1,016,135 1,404,775	8,539,907			8,539,907
5 4	July	2.787		1,404,775	4,574,733			4,574,733
4 5	August	2.407		1,553,969	5,138,198			5,138,198
6	September	2.811		1,404,365	8,874,465			8,874,465
7	October	2.193		1,264,650	179,201			179,201
8	November	2.193		1,204,030	8,748,809			8,748,809
9	December (New Rates - Sub 1173)	3.604		1,386,673	18,956,228			18,956,228
10	January 2019	2.682		1,552,025	5,751,516	\$ (14,440)		5,737,076
11	February	0.899		1,553,478	(21,931,387)			(21,931,387)
12	March	2.733		1,214,159	5,128,001			5,128,001
13	Total Test Period	2.000		16,147,005		\$ (14,440)	\$	56,183,465
14	April	3.033	2.311	1,060,985	7,664,663			7,664,663
15	May	3.295	2.311	1,051,096	10,340,265			10,340,265
16	June	2.843	2.311	1,331,074	7,081,848			7,081,848
17	Total 15-month Test Period			19,590,161	81,284,681	(14,440)	\$	81,270,241
18	Booked (Over) / Under Recovery						\$	81,270,241
19	Coal inventory Rider (Over) / Under Recovery							107,665
20	Company Adjustment to remove by-product net gain/loss accrued expense							(21,280,626)
21	Company Adjustment to include by-product net gain/loss cash payments							3,041,510
22	Public Staff Adjustment to remove by-product net gain/loss cash payments							(3,041,510) 1/
23	Public Staff Adjustment to remove by-product net gain/loss/judgment payn	nent						(261,574) 1/, 2
24	Total (Over) / Under Recovery						\$	59,835,706
25	Normalized Test Period MWh Sales	Exhibit 4						16,022,203
26	Experience Modification Increment (Decrement) cents/KWh							0.373

1/ Based on testimony of Public Staff witness Jay B. Lucas.

2/ Li Exhibit 4.

Li Exhibit 1 Schedule 3-2

Docket No. E-2, Sub 1204 North Carolina Annual Fuel and Fuel Related Expense PUBLIC STAFF COMPUTATION of Experience Modification Factor - Small General Service Test Period Twelve Months Ended March 31, 2019

Duke Energy Progress, LLC

Line		Fuel Cost Incurre ¢/ kWh (a)	d Fuel Cost Billed ¢/ kWh (b)	NC Retail MWh Sales (c)	(Over)/Unde Recovery (d)		djustments (e)	Adjusted (Over)/Under Recovery (f)
No.	Month							
1	April 2018 (Sub 1146)	2.28		140,607	. ,			\$ 236,079
2	Мау	2.53		136,871	567,09			567,097
3	June	2.48		178,846	642,20			642,201
4	July	2.28		194,597	310,81			310,810
5	August	2.23		198,191	217,11			217,119
6	September	2.43		179,772	662,10			662,100
7	October	1.78		174,119	(578,23			(578,233)
8	November	2.3		156,234	298,65			298,658
9	December (New Rates - Sub 1173)	4.8		120,842	3,080,27			3,080,272
10	January 2019	2.9		174,110	718,82		(1,763)	717,059
11	February	1.09		159,655	(2,332,95	2)		(2,332,952)
12	March	2.84	2.556	144,886	421,86	5		 421,865
13	Total Test Period			1,958,731	\$ 4,243,83	8\$	(1,763)	\$ 4,242,075
14	April	2.93	2.556	136,059	508,88	9		508,889
15	Мау	2.9	2.556	144,225	603,32	4		603,324
16	June	2.79	2.556	167,849	397,39	9		 397,399
17	Total 15-month Test Period			2,406,864	5,753,44	9	(1,763)	\$ 5,751,686
18	Booked (Over) / Under Recovery							\$ 5,751,686
19	Coal inventory Rider (Over) / Under Recovery							13,266
20	Company Adjustment to remove by-product net gain/loss accrued expense							(1,888,719)
21	Company Adjustment to include by-product net gain/loss cash payments							333,054
22	Public Staff Adjustment to remove by-product net gain/loss cash payments							(333,054) 1/
23	Public Staff Adjustment to remove by-product net gain/loss/judgment paym	ient						(33,484) 2/
24	Total (Over) / Under Recovery							\$ 3,842,749
25	Normalized Test Period MWh Sales	Exhibit 4						1,941,728
26	Experience Modification Increment (Decrement) cents/KWh							0.198

1/ Based on testimony of Public Staff witness Jay B. Lucas.

2/ Li Exhbit 4.

Li Exhibit 1 Schedule 3-3

Docket No. E-2, Sub 1204 North Carolina Annual Fuel and Fuel Related Expense PUBLIC STAFF COMPUTATION of Experience Modification Factor - Medium General Service

Test Period Twelve Months Ended March 31, 2019

Duke Energy Progress, LLC

Line		Fuel Cost Incurred ¢/ kWh (a)	Fuel Cost Billed ¢/ kWh (b)	NC Retail MWh Sales (c)	(Over)/Under Recovery (d)	Adjustments (e)		Adjusted (Over)/Under Recovery (f)
<u>No.</u>	Month April 2018 (Sub 1146)	2.440	2.356	834,634	\$ 700,759		\$	700,759
2	April 2018 (Sub 1146) May	2.440	2.356	834,634 871,652	\$ 700,759 1,468,210		Ş	1,468,210
2	June	2.524	2.356	1,042,496	3,411,985			3,411,985
4	July	2.601	2.356	1,042,490	2,629,373			2,629,373
5	August	2.536	2.356	1,074,909	1,980,830			1,980,830
6	September	2.330	2.356	988,512	4,902,428			4,902,428
7	October	1.955	2.356	1,021,065	(4,091,099)			(4,091,099)
8	November	2.453	2.356	940,892	913,230			913,230
9	December (New Rates - Sub 1173)	5.035	2.409	706,334	18,544,231			18,544,231
10	January 2019	3.287	2.477	883,889	7,155,890	\$ (9,828)		7,146,062
11	February	1.127	2.477	855,202	(11,548,986)	+ (-))		(11,548,986)
12	March	2.927	2.477	790,364	3,557,351			3,557,351
13	Total Test Period			11,108,152		\$ (9,828)	\$	29,614,374
14	April	2.697	2.477	827,811	1,817,211			1,817,211
15	May	2.639	2.477	908,898	1,474,141			1,474,141
16	June	2.710	2.477	967,184	2,251,604			2,251,604
17	Total 15-month Test Period			13,812,044	35,167,158	(9,828)	\$	35,157,330
18	Booked (Over) / Under Recovery						\$	35,157,330
19	Coal inventory Rider (Over) / Under Recovery							75,961
20	Company Adjustment to remove by-product net gain/loss accrued expense	2						(11,042,950)
21	Company Adjustment to include by-product net gain/loss cash payments							1,830,267
22	Public Staff Adjustment to remove by-product net gain/loss cash payments	5						(1,830,267) 1/
23	Public Staff Adjustment to remove by-product net gain/loss/judgment pay	ment						(184,118) 1/, 2/
24	Total (Over) / Under Recovery						\$	24,006,222
25	Normalized Test Period MWh Sales	Exhibit 4						11,007,307
26	Experience Modification Increment (Decrement) cents/KWh							0.218

1/ Based on testimony of Public Staff witness Jay B. Lucas.

2/ Li Exhibit 4.

Schedule 3-4

Aug 19 2019

Duke Energy Progress, LLC Docket No. E-2, Sub 1204 North Carolina Annual Fuel and Fuel Related Expense PUBLIC STAFF COMPUTATION of Experience Modification Factor - Large General Service

Test Period Twelve Months Ended March 31, 2019

Line		Fuel Cost Incu ¢/ kWh (a)	irred	Fuel Cost Billed ¢/ kWh (b)	NC Retail MWh Sales (c)	•	Over)/Under Recovery (d)	Adj	ustments (e)		Adjusted (Over)/Under Recovery (f)
No. 1	Month April 2018 (Sub 1146)		2.709	2.417	678,418	ć	1,978,810			\$	1,978,810
2	May		2.886	2.417	689,394	Ş	3,230,432			Ş	3,230,432
3	June		3.476	2.417	723,936		7,668,586				7,668,586
4	July		3.135	2.417	801,315		5,754,642				5,754,642
5	August		3.034	2.417	825,198		5,091,306				5,091,306
6	September		3.504	2.417	723,070		7,861,222				7,861,222
7	October		2.406	2.417	757,387		(84,221)				(84,221)
8	November		2.971	2.417	707,153		3,914,585				3,914,585
9	December (New Rates - Sub 1173)		1.582	2.125	610,753		15,002,143				15,002,143
10	January 2019	2	2.603	1.757	704,241		5,960,860	\$	(7,072)		5,953,788
11	February	().937	1.757	643,138		(5,275,468)				(5,275,468)
12	March	2	2.371	1.757	615,274		3,776,307				3,776,307
13	Total Test Period				8,479,278	\$	54,879,204	\$	(7,072)	\$	54,872,132
14	April	2	2.086	1.757	674,418		2,215,935				2,215,935
15	May	2	2.160	1.757	699,442		2,816,304				2,816,304
16	June	2	2.297	1.757	718,601		3,877,285				3,877,285
17	Total 15-month Test Period				10,571,739		63,788,728		(7,072)	\$	63,781,656
18	Booked (Over) / Under Recovery									\$	63,781,656
19	Coal inventory Rider (Over) / Under Recovery										57,952
20	Company Adjustment to remove by-product net gain/loss accrued expense										(9,490,349)
21	Company Adjustment to include by-product net gain/loss cash payments										1,376,227
22	Public Staff Adjustment to remove by-product net gain/loss cash payments										(1,376,227) 1/
23	Public Staff Adjustment to remove by-product net gain/loss/judgment pay	nent									(134,678) 1/, 2/
24	Total (Over) / Under Recovery									\$	54,214,580
25	Normalized Test Period MWh Sales	Exhibit 4									8,368,542
26	Experience Modification Increment (Decrement) cents/KWh										0.648

1/ Based on testimony of Public Staff witness Jay B. Lucas.

2/ Li Exhibit 4.

Schedule 3-5

Aug 19 2019

Duke Energy Progress, LLC Docket No. E-2, Sub 1204 North Carolina Annual Fuel and Fuel Related Expense PUBLIC STAFF COMPUTATION of Experience Modification Factor - Lighting

Test Period Twelve Months Ended March 31, 2019

Line		Fuel Cost Incurred ¢/ kWh (a)	Fuel Cost Billed ¢/ kWh (b)	NC Retail MWh Sales (c)	(Over)/Under Recovery (d)	Adju	ustments (e)		Adjusted Dver)/Under Recovery (f)
<u>No.</u>	Month April 2018 (Sub 1146)	1.793	1.657	29,739	\$ 40,376			\$	40,376
1 2	May	1.793	1.657	29,739 29,677	\$ 40,378 87,063			Ş	40,378 87,063
2	June	2.466	1.657	29,077	238,428				238,428
4	July	2.400	1.657	29,473	235,228				235,228
5	August	2.401	1.657	30,068	223,853				223,853
6	September	2.546	1.657	28,700	255,094				255,094
7	October	1.780	1.657	30,213	37,141				37,141
8	November	2.113	1.657	29,213	133,338				133,338
9	December (New Rates - Sub 1173)	3.817	1.919	28,549	541,747				541,747
10	January 2019	3.244	2.251	30,547	303,393	Ś	(149)		303,244
11	February	1.076	2.251	28,406	(333,718)		(1.0)		(333,718)
12	March	2.673	2.251	29,310	123,557				123,557
13	Total Test Period			353,410		\$	(149)	\$	1,885,352
14	April	2.541	2.251	29,301	85,101				85,101
15	May	2.693	2.251	29,533	130,603				130,603
16	June	3.014	2.251	28,819	219,780				219,780
17	Total 15-month Test Period			441,063	2,320,986		(149)	\$	2,320,837
18	Booked (Over) / Under Recovery							\$	2,320,837
19	Coal inventory Rider (Over) / Under Recovery								2,406
20	Company Adjustment to remove by-product net gain/loss accrued expense	2							(441,994)
21	Company Adjustment to include by-product net gain/loss cash payments								59,886
22	Public Staff Adjustment to remove by-product net gain/loss cash payments	;							(59,886) 1/
23	Public Staff Adjustment to remove by-product net gain/loss/judgment pays	ment							(5,346) 1/, 2
24	Total (Over) / Under Recovery							\$	1,875,903
25	Normalized Test Period MWh Sales	Exhibit 4							353,965
26	Experience Modification Increment (Decrement) cents/KWh								0.530

1/ Based on testimony of Public Staff witness Jay B. Lucas. 2/ Li Exhibit 4.

Schedule 4

Aug 19 2019

Duke Energy Progress, LLC Docket No. E-2, Sub 1204 Public Staff Adjustment to Test Period Fuel Expenses For the Test Period Ended March 31, 2019

Line No.	Item		_	-	NC Retail Amounts		
1	Judgment Payment		_	\$	619,200	1/	
2	Total Adjustment to Decrease Fuel Expenses		_	\$	619,200	I	
	Rate Class Allocations:	Percent	_		Amount		
3	Residential	42.244%	2/		261,574		
4	Small General Service	5.408%	2/		33,484		To Li Exhibit 1
5	Medium General Service	29.735%	2/		184,118	-	Schedules 3-1
6	Large General Service	21.750%	2/		134,678		through 3-5.
7	Lighting	0.863%	2/		5,346		
8	Total	100.000%	_		619,200		

1/ Based on the Company's response to Public Staff DR13-12.

2/ Based on the allocation of the MWH for each class for September 2018 divided by Total MWH Sales for September 2018.