BEFORE THE NORTH CAROLINA UTILITIES COMMISSION

DOCKET NO. E-7, SUB 1229

In the Matter of)	
)	
Application of Duke Energy Carolinas, LLC)	
for Approval of Renewable Energy and)	SUPPLEMENTAL
Energy Efficiency Portfolio Standard (REPS))	TESTIMONY OF
Compliance Report and Cost Recovery Rider)	VERONICA I. WILLIAMS
Pursuant to N.C. Gen. Stat. § 62-133.8 and)	
Commission Rule R8-67)	

- 1 Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.
- 2 A. My name is Veronica I. Williams, and my business address is 550 South
- 3 Tryon Street, Charlotte, North Carolina.
- 4 Q. DID YOU PREVIOUSLY FILE DIRECT TESTIMONY IN THIS
- 5 MATTER BEFORE THE NORTH CAROLINA UTILITIES
- 6 **COMMISSION?**
- 7 A. Yes. I filed direct testimony on behalf of Duke Energy Carolinas, LLC
- 8 ("DEC" or the "Company") in this matter on February 25, 2020.
- 9 Q. WHAT IS THE PURPOSE OF YOUR SUPPLEMENTAL
- 10 **TESTIMONY?**
- 11 A. The purpose of my supplemental testimony is to update the North Carolina
- 12 Utilities Commission on information presented in the exhibits filed with my
- direct testimony. The Company determined that Confidential Jennings
- Exhibit No. 2, filed in this docket on February 25, 2020, reflected a line
- item error in the incremental cost component of the total cost shown,
- resulting in an overstatement of incremental REPS rider cost. In addition,
- 17 Jennings Exhibit No. 2 included a minor error in the solar rebate
- amortization cost total. Both errors affected cost for the January 1, 2019
- through December 31, 2019 experience modification factor ("EMF") period
- only. The updated information presented in my supplemental testimony and
- 21 exhibits incorporates the Company's corrections of these errors, which are
- described in detail by Company witness Megan W. Jennings in her
- supplemental testimony filed in this docket.

1	Q.	PLEASE IDENTIFY THE CORRECTIONS INCORPORATED IN
2		THE REVISED EXHIBITS FILED WITH THIS SUPPLEMENTAL
3		TESTIMONY AND THE RESULTING DIFFERENCES WHEN
4		COMPARED TO THE SAME EXHIBITS FILED PREVIOUSLY
5		WITH YOUR DIRECT TESTIMONY.
6	A.	Confidential Revised Williams Exhibit No. 1, Page 1 incorporates the
7		decrease to incremental REPS rider cost of \$(158,000) and the \$57 increase
8		to incremental REPS rider cost identified by witness Jennings in her
9		supplemental testimony. The following adjustments are reflected in the
10		appropriate cost components shown on Confidential Revised Williams
11		Exhibit No. 1, Page 1: [BEGIN CONFIDENTIAL]
12		
13		
14		
15		[END CONFIDENTIAL]. The \$57 increase in
16		Solar Rebate costs is included in the revised total on Line No. 13, and the
17		net decrease of \$(157,943) for these adjustments is reflected in total
18		incremental cost on Line No. 15 on Confidential Revised Williams Exhibit
19		No. 1, Page 1. Confidential Revised Williams Exhibit No. 2, Page 1 shows
20		the net decrease in incremental REPS cost for the EMF period of \$(157,943)
21		on Line No. 4, and the associated \$(148,240) North Carolina retail portion
22		of the decrease is reflected in the total on Line No. 8, and amounts shown
23		on Line Nos. 9-12 are updated accordingly. These updated amounts carry

forward to, and are included in, totals shown on Confidential Revised
Williams Exhibit No. 2, Page 2 and Revised Williams Exhibit No. 2, Page
3. The result is a final decrease of \$148,240, from an original net total
\$427,425 undercollection for the EMF Period to an updated net total
undercollection of \$279,185 for the EMF Period, before the effect of
interest. The General service customer class shows an overcollection for
the EMF Period before and after the update, but the overcollection amount
is greater than originally calculated as shown on Confidential Revised
Williams Exhibit No. 2, Page 3, and the corresponding interest credit on the
overcollection increased by a total of \$(10,455) as well. Including the
change in overcollection interest, the updated EMF Period shows a net total
undercollection of \$263,703, compared to a net total undercollection in the
original February 25, 2020 rider filing of \$422,398, reflecting a final cost
decrease of \$158,695.
ARE THERE OTHER ADJUSTMENTS INCORPORATED IN THE
REVISED EXHIBITS FILED WITH THIS SUPPLEMENTAL
TESTIMONY?
Yes. Per request of the Public Staff, the Company updated the "% of EE
RECs supplied by Class" included on Line Nos. 5 - 7 on Confidential
Revised Williams Exhibit No. 2, Page 2 and Confidential Revised Williams

Exhibit No. 3, Page 2. In order to be consistent with these amounts in prior

year filings, the Company extended the percentages to one-tenth of a

percent, rather than rounding to the percentage point as shown on

Q.

A.

1		Confidential Williams Exhibit No. 2, Page 2 and Confidential Williams
2		Exhibit No. 3, Page 2, originally filed on February 25, 2020. These
3		adjustments resulted in no change to total incremental REPS cost for the
4		EMF or prospective billing periods but affected the allocation of
5		incremental REC costs among customer classes as calculated on
6		Confidential Revised Williams Exhibit No. 2, Page 2 and No. 3, Page 2.
7	Q.	INCORPORATING THE CORRECTIONS AND ADJUSTMENTS
8		IDENTIFIED ABOVE, WHAT ARE THE REVISED PROPOSED
9		RIDERS AND WHAT ARE THE DIFFERENCES BETWEEN THE
10		UPDATED PROPOSED RIDERS AND THOSE PREVIOUSLY
11		PROPOSED IN THIS DOCKET, AS WELL AS THE RIDERS
12		CURRENTLY IN EFFECT?
13	A.	Revised Williams Exhibit No. 4 includes the cost changes by customer class
14		for the EMF and billing periods discussed above. The revised proposed
15		monthly REPS charges and the REPS charges originally proposed are
16		compared below. The rates proposed are also reflected in Revised Williams
17		Exhibit No. 5, filed with this testimony.

		Monthly	Combined Monthly	Combined Monthly					
Customer	Monthly	REPS	Rider – excl.	Rider – incl.					
class	EMF Rider	rider	regulatory fee	regulatory fee					
Revised - file	ed May 15, 202	20							
Residential	\$ (0.02)	\$ 0.80	\$ 0.78	\$ 0.78					
General	\$ (0.18)	\$ 3.99	\$ 3.81	\$ 3.81					
Industrial	\$ 1.37	\$16.18	\$ 17.55	\$ 17.57					
Original – fi	led February 2	5, 2020							
Residential	\$(0.01)	\$ 0.79	\$0.78	\$0.78					
General	\$(0.15)	\$ 3.99	\$3.84	\$3.84					
Industrial	\$1.84	\$16.67	\$18.51	\$18.53					
Change – inc	Change – increase/(decrease)								
Residential	\$ (0.01)	\$ 0.01	\$ 0.00	\$ 0.00					
General	\$ (0.03)	\$ 0.00	\$ (0.03)	\$ (0.03)					
Industrial	\$ (0.47)	\$ (0.49)	\$ (0.96)	\$ (0.96)					

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The following tables show the currently-proposed revised monthly combined REPS rider charges, and a comparison to the monthly combined REPS rider charges proposed and filed with my direct testimony on February 25, 2020, as well as a comparison to the combined monthly REPS rider charges currently in effect through September 30, 2020 - with and without the regulatory fee applied.

9 Excluding regulatory fee:

Customer	REVISED proposed REPS rider filed May 15,	Proposed REPS rider filed Feb 25,	Difference - increase/ (decrease)	Rider currently in effect through Sep 30,	Difference - increase/ (decrease)
class	2020	2020	(,	2020	()
	(a)	(b)	(c) = (a) - (b)	(d)	(e) = (a) – (d)
Residential	\$ 0.78	\$ 0.78	\$ 0.00	\$ 0.87	\$ (0.09)
General	\$ 3.81	\$ 3.84	\$ (0.03)	\$ 4.64	\$ (0.83)
Industrial	\$17.55	\$18.51	\$ (0.96)	\$ 21.24	\$ (3.69)

10

1 Including regulatory fee:

	REVISED			Rider	
	proposed	Proposed		currently	
	REPS	REPS	Difference	in effect	Difference
	rider filed	rider filed	- increase/	through	- increase/
Customer	May 15,	Feb 25,	(decrease)	Sep 30,	(decrease)
class	2020	2020		2020	
	(a)	(b)	(c) = (a) - (b)	(d)	(e) = (a) - (d)
Residential	\$ 0.78	\$0.78	\$ 0.00	\$ 0.87	\$ (0.09)
General	\$ 3.81	\$3.84	\$ (0.03)	\$ 4.65	\$ (0.84)
Industrial	\$17.57	\$18.53	\$ (0.96)	\$ 21.27	\$ (3.70)

A.

In summary, the Company's revised proposed monthly combined REPS and REPS EMF riders by class, including regulatory fee are: \$0.78 residential, \$3.81 general service, and \$17.57 industrial. The proposed monthly rider decreases by customer class, including regulatory fee are: \$(0.09) residential, \$(0.84) general service, and \$(3.70) industrial.

Q. PLEASE EXPLAIN THE COMPANY'S RATEMAKING
 TREATMENT OF AN AMOUNT HELD IN ABEYANCE FROM
 DEC'S 2019 ANNUAL REPS RIDER FILING IN DOCKET NO. E-7,
 SUB 1191.

The Company sold poultry renewable energy certificates ("RECs") to other North Carolina electric power suppliers during the test period applicable to Docket No. E-7, Sub 1191 ("2019 Docket"), to enable the state's electric power suppliers to comply with the aggregate poultry waste set-aside requirement. Proceeds were credited back to the Company's North Carolina retail customers and to the Company's wholesale customers to which it provides REPS compliance services. In its *Order Approving REPS and REPS EMF Rider and 2018 REPS Compliance Report* ("2019 Order"),

the Commission concluded that the REC sales were properly accounted for
and reflected for cost recovery purposes in the REPS rider
calculations. Public Staff witness Boswell provided direct testimony in the
2019 Docket recommending the Company and the Public Staff work
together to review and evaluate the sales prices of set-aside RECs,
enumerating a number of considerations to be addressed, and
recommending any resolution of issues be addressed by DEC in this current
docket. Witness Boswell's testimony also indicated the Public Staff
disagreed with one assumption of the Company's calculation applicable to
the REC sales reflected in the 2019 Docket and stated that the component
of the sales price in question resulted in no adjustment to REPS compliance
costs included in the computation of the REPS riders calculated in the 2019
Docket. Witness Boswell further recommended that the amount in question
be held in abeyance until the determination of appropriate pricing for RECs
is resolved. The Commission accepted Public Staff witness Boswell's
recommendations in its 2019 Order.

In the current docket, Company witness Jennings describes the Company's compliance with the Commission's 2019 Order with respect to the Public Staff's recommendations pertaining to REC sales prices. Witness Jennings' direct testimony details the Company's proposed method for determining REC sales prices, and specifically addresses each one of the considerations outlined in witness Boswell's testimony in the 2019 Docket. Witness Jennings' direct testimony further states that the

Company's recommendations were also submitted to the Public Staff. Witness Jennings' supplemental testimony filed in this docket describes modifications to the proposed REC sales price calculation method resulting from additional discussions with the Public Staff since the Company filed direct testimony. The Company and the Public Staff are in agreement regarding the revised REC sales price method proposal.

The amount held in abeyance from the 2019 Docket is not included in the calculation of REPS compliance costs used to compute the REPS riders in the current docket. This ratemaking treatment is consistent with DEC's proposed method for calculating REC sales prices described in the Witness Jennings' direct and supplemental testimony, that were agreed upon by the Company and the Public Staff. The Company submits that this treatment of the amount held in abeyance should be considered appropriate and final, upon acceptance by the Commission of the REC pricing method proposed by the Company.

16 Q. DOES THIS CONCLUDE YOUR SUPPLEMENTAL TESTIMONY?

17 A. Yes.

REDACTED VERSION

Revised Williams Exhibit No. 1 Page 1 of 2 May 15, 2020

DUKE ENERGY CAROLINAS, LLC

Docket No. E-7, Sub 1229

Compliance Costs for the EMF Period January 1, 2019 to December 31, 2019

Line No.	Renewable Resource	RECs	MWh (Energy)	Total Cost	Avoided Cost	Incremental Cost	Avoided Cost Recovered in Fuel Cost Adjustment Rider	
,								
						\$ 29,350,739		
9 10 11	Other Incremental Solar Rebate Program Research			\$ 1,406,748 \$ 886,071 \$ 822,933	Revised Jennings Exhibit No. 2	\$ 1,406,748 \$ 886,071 \$ 822,933	-	(g) (h) (i)
12	Total		ł	Revised Jennings Ex	hibit No. 2	\$ 32,466,491	•	
	Incremental cost category					Incremental Cost	Percent of Total Incremental Cost	
15	Total				:	\$ 32,466,491	(above)	
	Allocate incremental cost of sol	ar resources be	etween solar c	ompliance requir	ement and genera	ıl compliance rec	quirement:	
16 17 18								
19 20 21								

Revised Williams Exhibit No. 2 Page 1 of 3 May 15, 2020

Compliance Costs - EMF Period January 1, 2019 - December 31, 2019

Allocate Incremental Cost per Customer Class - EMF Period January 1, 2019 to December 31, 2019

Combined North Carolina Retail and Wholesale

Line No.	Customer Class	Total Unadjusted Number of Accounts ⁽¹⁾	Adjustment for Self- supplied Requirements ⁽¹⁾	Total Adjusted Number of Accounts ⁽¹⁾	Custo	ual Rider Cap per omer Class occount	nual Adjusted Revenue Cap	Cost Cap Allocation Factor	Actual Incremental Costs for REPS Recovery		nual Per unt Charge
1	Residential	1,881,579	468,546	1,413,033	\$	27	\$ 38,151,891	53.2%	\$ 17,278,667	\$	12.23
2	General	264,560	65,775	198,785	\$	150	\$ 29,817,750	41.6%	\$ 13,502,814	\$	67.93
3	Industrial	4,958	1,234	3,724	\$	1,000	\$ 3,724,000	5.2%	\$ 1,685,011	\$	452.47
4	Total	2,151,097	535,555	1,615,542	_		\$ 71,693,641	100.0%	\$ 32,466,491	(b)	

Revised Williams Exhibit No. 1, page 1 Line No. 12

Calculate NC Retail-only annual REPS cost per Customer Class - adjusted EMF Period:

North Carolina Retail Only	

Line No.	Customer Class	Total Adjusted Number of Accounts - DEC Retail ⁽¹⁾	A	nnual Per Account Charge ⁽²⁾	 remental Costs ocated to DEC Retail	Incr	rcent of remental Cost	NC Retail Percent of Total Incremental Cost	
5	Residential	1,310,205	\$	12.23	\$ 16,023,807				
6	General	187,154	\$	67.93	\$ 12,713,371				
7	Industrial	3,576	\$	452.47	\$ 1,618,033				
8	Total	1,500,935			30,355,211	(a)		93.50%	(a) / (b)
9	Set-aside, Other Inc	eremental, Solar Reb	ate, a	and Research	\$ 19,700,532		64.9%	Revised Williams	
10	General RECs				\$ 10,654,679		35.1%	Exhibit No. 1, page 1	
11	Total Incremental C	Cost for Retail			30,355,211			Line Nos. 13,14	

Notes:

- (1) Average number of accounts subject to REPS charge during 2018.
- (2) Annual per account charges are the result of the allocation of REPS costs between Duke Energy Carolinas Retail customers and the Company's Wholesale REPS customers, and are used only for calculating the total cost obligations of Duke Energy Carolinas Retail customers and the wholesale REPS customers, respectively. Proposed REPS rider charges per account are instead calculated using unadjusted REPS account totals by class see Revised Williams Exhibit No. 4.

2 Pg 1 Line No. 9

DUKE ENERGY CAROLINAS, LLC Docket No. E-7, Sub 1229

Compliance Costs - EMF Period January 1, 2019 - December 31, 2019

Calculate Set-aside and other incremental costs per customer class:

	North Carolina Retai	il Only						
Line No.	Customer Class	Total Unadjusted Number of Accounts ⁽¹⁾	Cust	ual Rider Cap per omer Class .ccount	Calculated Annual Revenue Cap	Cost Cap Allocation Factor	lı	ocated Annual Set- aside, Other ncremental, Solar bate Program, and Research Cost
1	Residential	1,746,940	\$	27	47,167,380	52.78%	\$	10,397,915
2	General	249,539	\$	150	37,430,850	41.88%	\$	8,251,525
3	Industrial	4,768	\$	1,000	4,768,000	5.34%	\$	1,051,092
4	Total	2,001,247	-		89,366,230	100.00%	\$	19,700,532
			=				Pas	ised Williams Fx No.

Calculate General Requirement incremental costs per customer class:

	North Carolina Retai	l Only					
Line No.	Customer Class	Number of RECs for General compliance (3)	% of EE RECs supplied by Class ⁽²⁾	REC Requirement supplied by EE by class ^(b)	Number of General RECs net of EE (c) = (a) - (b)	General Cost Allocation Factor (e) = (c) / (d)	Allocated Annual General Incremental Costs
5	Residential		37.5%			62.78%	\$ 6,689,007
6	General		48.1%			37.82%	\$ 4,029,600
7	Industrial		14.4%			-0.60%	\$ (63,928)
8	Total		100.0%			100.00%	\$ 10,654,679
Total cost	t allocation by custon	ner class - EMF Period:			(d)		Revised Williams Ex. No. 2 Pg 1 Line No. 10

		Total In	ncremental REPS class	% Incremental REPS cost by class
9	Residential	\$	17,086,922	56.29%
10	General	\$	12,281,125	40.46%
11	Industrial	\$	987,164	3.25%
12	Total	S	30,355,211	100.00%

Revised Williams Ex. No. 2 Pg 1 Line No. 11

- Average number of accounts subject to REPS charge during 2019.
- EE allocated to account type according to actual relative contribution by customer class of EE RECs. (2)
- Total General RECs per note (4) * "Cost Cap Allocation Factor" by class per line Nos. 1-3 above.



DUKE ENERGY CAROLINAS, LLC Docket No. E-7, Sub 1229

Revised Williams Exhibit No. 2
Page 3 of 3
May 15, 2020

Compliance Costs - EMF Period January 1, 2019 - December 31, 2019

Calculate Incremental Cost Under/(Over) Collection per Customer Class - EMF Period

	North Carolina Retail C	Only												
Line No.	Account Type	Allocated Annual Set- aside, Other Incremental, Solar Rebate Program, and Research Cost		Allocated Annual General Incremental Costs		Total Incremental Costs Incurred January through December 2019		Actual NC Retail REPS Revenues Realized - January through December 2019		REPS EMF - Under/(Over)- Collection, before Interest			oterest on Over- llection ⁽¹⁾	REPS EMF - Under/(Over)- Collection
1	Residential	\$	10,397,915	\$	6,689,007	\$	17,086,922	\$	16,826,582	\$	260,340	\$	-	\$ 260,340
2	General	\$	8,251,525	\$	4,029,600	\$	12,281,125	\$	12,374,018	\$	(92,893)	\$	(15,482)	\$ (108,375)
3	Industrial	\$	1,051,092	\$	(63,928)	\$	987,164	\$	875,426	\$	111,738	\$	-	\$ 111,738
4	Total	\$	19,700,532	\$	10,654,679	\$	30,355,211	\$	30,076,026	\$	279,185	\$	(15,482)	\$ 263,703
		Revised V	Williams Ex. No.	Re	vised Williams	Re	vised Williams							
		2 Pg 2	2 Line No. 4	Ex.	No. 2 Pg 2 Line	Ex.	No. 2 Pg 2 Line							
Note:					No. 8		No. 12							

⁽¹⁾ Interest calculated at annual rate of 10% for number of months from mid-point of EMF period to mid-point of prospective rider billing period.

Projected Compliance Costs - Billing Period September 1, 2020 - August 31, 2021

Calculate Set-aside and other incremental costs per customer class - Billing Period:

	North Carolina Retail	Only						
Line No.	Customer Class	Total Unadjusted Number of Accounts ⁽¹⁾	Cus	nual Rider Cap per tomer Class Account	Calculated Annual Revenue Cap	Cost Cap Allocation Factor	In Reb	ecated Annual Set- aside, Other cremental, Solar oate Program, and Research Cost
1	Residential	1,769,590	\$	27	47,778,930	52.98%	\$	10,083,233
2	General	251,109	\$	150	37,666,350	41.77%	\$	7,949,081
3	Industrial	4,737	\$	1,000	4,737,000	5.25%	\$	999,693
4	Total	2,025,436			90,182,280	100.00%	\$	19,032,007

Line 9

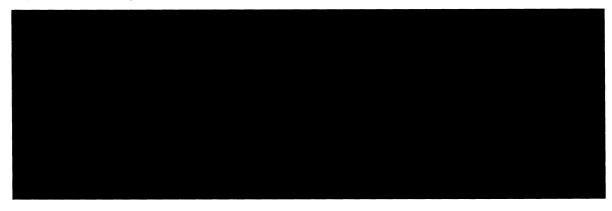
Calculate General costs per customer class - Billing Period:

	Customer Class	Number of RECs for General compliance (3)	% of EE RECs supplied by Class ⁽²⁾	REC Requirement supplied by EE by class (b)	Number of General RECs net of EE (c) = (a) - (b)	General Cost Allocation Factor (e) = (c) / (d)		cated Annual ral Incremental Costs
5	Residential		37.5%			63.12%	\$	6,816,155
6	General		48.1%			37.62%	\$	4,062,480
7	Industrial		14.4%			-0.74%	\$	(79,911)
8	Total		100.0%			100.00%	\$	10,798,725
otal co	est allocation by custome	r class - Billing Period:					Willia	ms Ex. No. 3 Pg 1 Line 10
			% Incremental					

		ncremental REPS ost by class	REPS cost by
9	Residential	\$ 16,899,388	56.65%
10	General	\$ 12,011,561	40.27%
11	Industrial	\$ 919,782	3.08%
12	Total	\$ 29,830,731	100.00%

Williams Ex. No. 3 Pg 1 Line 11

- Projected number of accounts subject to REPS charge during the billing period.
- EE allocated to account type according to actual projected contribution by customer class of EE RECs. Total General RECs per note (4) * "Cost Cap Allocation Factor" by class per line Nos. 1-3 above. (2)
- (3)



DUKE ENERGY CAROLINAS, LLC Docket No. E-7, Sub 1229

Revised Williams Exhibit No. 3
Page 3 of 3
May 15, 2020

Projected Compliance Costs - Billing Period September 1, 2020 - August 31, 2021

Calculate Incremental Cost to Collect by Customer Class - Billing Period:

North Carolina Retail Annual Rider Cost by Account Type

Line No.	Customer Class	Set-a	ocated Annual aside and Other remental costs	7-1-1	cated Annual General emental Costs	Total Incremental Costs				
1	Residential	\$	10,083,233	\$	6,816,155	\$	16,899,388			
2	General	\$	7,949,081	\$	4,062,480	\$	12,011,561			
3	Industrial	\$	999,693	\$	(79,911)	\$	919,782			
4	Total	\$	19,032,007	-\$	10,798,724	<u>\$</u>	29,830,731			
		Re	evised Williams	Re	vised Williams	Revise	d Williams Exhibit			
		Exhibit No. 3, Pg 2,		Exh	bit No. 3, Pg 2,	No. 3, Pg 2, line 12				
			line 4		line 8					

Calculate DEC NC Retail monthly REPS rider components:

	North Carolin	a Retail													
Line No.	Customer Class	Total Projected Number of Accounts -Duke Retail ⁽¹⁾	Un	Collection		EMF Amendments, Under/(Over)- Penalties, Change-of-		Total EMF costs/(credits)		Monthly EMF Rider ⁽²⁾		ojected Total remental Costs		Monthly REPS Rider ⁽²⁾	
1	Residential	1,769,590	\$	260,340	\$	(588,889)	\$	(328,549)	\$	(0.02)	\$	16,899,388	\$	0.80	
2	General	251,109	\$	(108,375)	\$	(423,261)		` ' '		(0.18)		12,011,561	\$	3.99	
3	Industrial	4,737	\$	111,738	\$	(34,022)	\$	77,716	\$	1.37	\$	919,782	\$	16.18	
4		2,025,436	\$	263,703	\$	(1,046,172)	\$	(782,469)			\$	29,830,731			
				sed Williams Ex. Pg 3 Line No. 4								vised Williams Ex. 3 Pg 3 Line No. 4	•		

Compare total annual REPS charges per account to per-account cost caps:

_														Info	rmation only:
	North Carolin	a Reta	il												otal Annual REPS
Line No.	Customer Class		nthly EMF Rider ⁽²⁾	Mo	onthly REPS Rider ⁽²⁾	Combined athly Rider ⁽²⁾	Regulatory Fee Multiplier	Total M REPS (include Regulate	Charge ding	(otal Annual REPS Charge including Regulatory Fee	Annual Per- Account Cost Cap		Charge excluding solar rebate cost - for per-	
5	Residential	\$	(0.02)	\$	0.80	\$ 0.78	1.001302	S	0.78	\$	9.36	\$	27.00	\$	8.88
6	General	\$	(0.18)			\$ 3.81	1.001302	-	3.81	-	45.72	\$	150.00		43.08
7	Industrial	\$	1.37	\$	16.18	\$ 17.55	1.001302	\$	17.57	\$	210.84	\$	1,000.00	\$	191.88

Notes:

- (1) Projected number of accounts subject to REPS charge during the billing period.
- (2) Per account rate calculations apply to Duke Energy Carolinas NC Retail customers only.
- (3) Credit for receipts for contract amendments, penalties, change-of-control, etc

	T	otal contract	NC retail percentage	Allocation to	Re	eceipts for contract
	re	ceipts - EMF	of EMF Period costs -	customer class -		amendments,
Customer	Per	iod Jan 2019 -	Revised Williams	Revised Williams	pe	nalties, change-of-
Class		Dec 2019	Exhibit No. 2, Pg 1	Exhibit No. 2, Pg 2		control, etc.
Residential				56.29%	\$	(588,889)
General				40.46%	\$	(423,261)
Industrial				3.25%	\$	(34,022)
Total contract payments received	\$	(1,118,900)	\$ (1,046,172)	100.00%	\$	(1,046,172)
		(a)	93.50%			

Duke Energy Carolinas, LLC

Electricity No. 4

North Carolina Twelfth (Proposed) Revised Leaf No. 68 Superseding North Carolina Eleventh Revised Leaf No. 68

REPS (NC) RENEWABLE ENERGY PORTFOLIO STANDARD RIDER

APPLICABILITY (North Carolina Only)

Service supplied to the Company's retail customer agreements is subject to a REPS Monthly Charge. This charge is adjusted annually, pursuant to North Carolina General Statute 62-133.8 and North Carolina Utilities Commission Rule R8-67 as ordered by the North Carolina Utilities Commission. This Rider is not applicable to agreements for the Company's outdoor lighting rate schedules, OL, PL, NL, nor for services defined as auxiliary to another agreement. An auxiliary service is defined as a non-demand metered, nonresidential service, provided on Schedule SGS, at the same premises, with the same service address, and with the same account name as an agreement for which a monthly REPS charge has been applied.

APPROVED REPS MONTHLY CHARGE

The Commission has ordered that a REPS Monthly Charge, which includes an Experience Modification Factor (EMF), be included in the customers' bills as follows:

RESIDENTIAL SERVICE AGREEMENTS	
REPS Monthly Charge	\$ 0.80
Experience Modification Factor	(\$ (0.02)
Net REPS Monthly Charge	\$ 0.78
Regulatory Fee Multiplier	1.001302
Total REPS Monthly Charge per agreement per month	\$ 0.78
GENERAL SERVICE AGREEMENTS	
REPS Monthly Charge	\$ 3.99
Experience Modification Factor	<u>(\$ 0.18)</u>
Net REPS Monthly Charge	\$ 3.81
Regulatory Fee Multiplier	1.001302
Total REPS Monthly Charge per agreement per month	\$ 3.81
INDUSTRIAL SERVICE AGREEMENTS	
REPS Monthly Charge	\$ 16.18
Experience Modification Factor	\$ 1.37
Net REPS Monthly Charge	\$ 17.55
Regulatory Fee Multiplier	1.001302
Total REPS Monthly Charge per agreement per month	\$ 17.57

USE OF RIDER

The REPS Billing Factor is not included in the Company's current rate schedules and will apply as a separate charge to each agreement for service covered under this Rider as described above, unless the service qualifies for a waiver of the REPS Billing Factor for an auxiliary service. An auxiliary service is a non-demand metered nonresidential service, on Schedule SGS for the same customer at the same service location.

To qualify for an auxiliary service, not subject to this Rider, the Customer must notify the Company and the Company must verify that such agreement is considered an auxiliary service, after which the REPS Billing Factor will not be applied to qualifying auxiliary service agreements. The Customer shall also be responsible for notifying the Company of any change in service that would no longer qualify the service as auxiliary.

North Carolina Twelfth (Proposed) Revised Leaf No. 68 Effective for service rendered on and after September 1, 2020 NCUC Docket No. E-7 Sub 1229, Order dated