

STATE OF NORTH CAROLINA
UTILITIES COMMISSION
RALEIGH

DOCKET NO. E-7, SUB 1249

BEFORE THE NORTH CAROLINA UTILITIES COMMISSION

In the Matter of	)	
Application of Duke Energy Carolinas, LLC	)	REBUTTAL TESTIMONY
for Approval of Demand-Side Management	)	OF SHANNON R.
and Energy Efficiency Cost Recovery Rider	)	LISTEBARGER
Pursuant to N.C. Gen. Stat. § 62-133.9 and	)	FOR DUKE ENERGY
Commission Rule R8-69	)	CAROLINAS, LLC

1 **Q. PLEASE STATE YOUR NAME, BUSINESS ADDRESS, AND**
2 **POSITION WITH DUKE ENERGY.**

3 A. My name is Shannon R. Listebarger, and my business address is 550 South
4 Tryon Street, Charlotte, North Carolina, 28202. I am employed by Duke
5 Energy Carolinas, LLC (“DEC” or the “Company”) as Rates and Regulatory
6 Strategy Manager. In that capacity, I provide regulatory support for both DEC
7 and Duke Energy Progress, LLC (“DEP”).

8 **Q. DID YOU PREVIOUSLY FILE DIRECT TESTIMONY IN SUPPORT**
9 **OF THE COMPANY’S APPLICATION IN THIS DOCKET?**

10 A. Yes. I did.

11 **Q. WHAT IS THE PURPOSE OF YOUR REBUTTAL TESTIMONY?**

12 A. The purpose of my rebuttal testimony is to provide updated exhibits to support
13 the inclusion of the Reserve Margin Adjustment Factor in the rates. This
14 change was accepted by the Public Staff as noted on Page 18, Line 23 of the
15 direct testimony of Public Staff witness, where he states the following: “Yes,
16 for purposes of this proceeding, the Public Staff accepts the inclusion of the
17 RMAF adjustment.”

18 **Q. HAVE YOU INCLUDED EXHIBITS TO REFLECT THE IMPACT OF**
19 **THE RMAF ADJUSTMENT?**

20 A. Yes. Listebarger Rebuttal Exhibit Nos. 1 through 6, which are attached to my
21 testimony, reflect the impact of the RMAF adjustment. Company witness
22 Evans refers to these rebuttal exhibits on page 3 of his rebuttal testimony.

- 1 **Q. DOES THIS CONCLUDE YOUR REBUTTAL TESTIMONY?**
- 2 A. Yes.

DSM/EE Cost Recovery Rider 13
Docket Number E-7 Sub 1249
Exhibit Summary of Rider EE Exhibits and Factors

Residential Billing Factor for Rider 13 True-up (EMF) Components

Line			
1	Year 2017 EE/DSM True-Up (EMF) Revenue Requirement	Listebarger Exhibit 2, pg 1, Line 15	\$ 139,884
2	Year 2018 EE/DSM True-Up (EMF) Revenue Requirement	Listebarger Exhibit 2 pg 2, Line 15	2,924,339
3	Year 2019 EE/DSM True-Up (EMF) Revenue Requirement	Listebarger Exhibit 2 pg 3, Line 15	(1,047,573)
4	Year 2020 EE/DSM True-Up (EMF) Revenue Requirement	Listebarger Exhibit 2 pg 4, Line 15	9,301,580
5	Total True-up (EMF) Revenue Requirement	Sum Lines 1-4	\$ 11,318,229
6	Projected NC Residential Sales (kWh) for rate period	Listebarger Exhibit 6, Line 1	21,909,979,810
7	EE/DSM Revenue Requirement EMF Residential Rider EE (cents per kWh)	Line 5 / Line 6 * 100	0.0517

Residential Billing Factor for Rider 13 Prospective Components

8	Vintage 2019 Total EE/DSM Prospective Amounts Revenue Requirement	Listebarger Exhibit 2 pg 3, Line 15	2,233,068
9	Vintage 2020 Total EE/DSM Prospective Amounts Revenue Requirement	Listebarger Exhibit 2 pg 4, Line 15	5,386,818
10	Vintage 2021 Total EE/DSM Prospective Amounts Revenue Requirement	Listebarger Exhibit 2 pg 5, Line 1	6,249,665
11	Vintage 2022 Total EE/DSM Prospective Amounts Revenue Requirement	Listebarger Exhibit 2 pg 6, Line 11	79,497,286
12	Total Prospective Revenue Requirement	Sum Lines 8-11	\$ 93,366,837
13	Projected NC Residential Sales (kWh) for rate period	Listebarger Exhibit 6, Line 1	21,909,979,810
14	EE/DSM Revenue Requirement Prospective Residential Rider EE (cents per kWh)	Line 12 / Line 13 * 100	0.4261

Total Revenue Requirements in Rider 13 from Residential Customers

15	Total True-up (EMF) Revenue Requirement	Line 5	\$ 11,318,229
16	Total Prospective Revenue Requirement	Line 12	93,366,837
17	Total EE/DSM Revenue Requirement for Residential Rider EE	Line 15 + Line 16	\$ 104,685,067
18	Total EE/DSM Revenue Requirement for Residential Rider EE (cents per kWh)	Line 7 + Line 14	0.4778

Non-Residential Billing Factors for Rider 13 True-up (EMF) Components

19	Vintage Year 2017 EE True-up (EMF) Revenue Requirement	Listebarger Exhibit 2 pg 1, Line 25	\$ 2,780,097
20	Projected Year 2017 EE Participants NC Non-Residential Sales (kwh) for rate period	Listebarger Exhibit 6, Line 4	17,695,122,407
21	EE Revenue Requirement Year 2017 EMF Non-Residential Rider EE (cents per kWh)	Line 19 / Line 20 * 100	0.0157
22	Vintage Year 2017 DSM True-up (EMF) Revenue Requirement	Listebarger Exhibit 2 pg 1, Line 35	\$ (418)
23	Projected Year 2017 DSM Participants NC Non-Residential Sales (kwh) for rate period	Listebarger Exhibit 6, Line 5	17,997,249,012
24	DSM Revenue Requirement Year 2017 EMF Non-Residential Rider EE (cents per kWh)	Line 22 / Line 23 * 100	(0.0000)
25	Vintage Year 2018 EE True-up (EMF) Revenue Requirement	Listebarger Exhibit 2 pg 2, Line 25	\$ 513,230
26	Projected Year 2018 EE Participants NC Non-Residential Sales (kwh) for rate period	Listebarger Exhibit 6, Line 6	17,147,081,141
27	EE Revenue Requirement Year 2018 EMF Non-Residential Rider EE (cents per kWh)	Line 25 / Line 26 * 100	0.0030
28	Vintage Year 2018 DSM True-up (EMF) Revenue Requirement	Listebarger Exhibit 2 pg 2, Line 35	\$ 345,011
29	Projected Year 2018 DSM Participants NC Non-Residential Sales (kwh) for rate period	Listebarger Exhibit 6, Line 7	17,899,660,553
30	DSM Revenue Requirement Year 2018 EMF Non-Residential Rider EE (cents per kWh)	Line 28 / Line 29 * 100	0.0019
31	Vintage Year 2019 EE True-up (EMF) Revenue Requirement	Listebarger Exhibit 2 pg 3, Line 25	\$ (7,185,389)
32	Projected Year 2019 EE Participants NC Non-Residential Sales (kwh) for rate period	Listebarger Exhibit 6, Line 8	17,011,812,574
33	EE Revenue Requirement Year 2019 EMF Non-Residential Rider EE (cents per kWh)	Line 31 / Line 32 * 100	(0.0422)
34	Vintage Year 2019 DSM True-up (EMF) Revenue Requirement	Listebarger Exhibit 2 pg 3, Line 35	\$ (260,821)
35	Projected Year 2019 DSM Participants NC Non-Residential Sales (kwh) for rate period	Listebarger Exhibit 6, Line 9	17,943,635,986
36	DSM Revenue Requirement Year 2019 EMF Non-Residential Rider EE (cents per kWh)	Line 34 / Line 35 * 100	(0.0015)
37	Vintage Year 2020 EE True-up (EMF) Revenue Requirement	Listebarger Exhibit 2 pg 4, Line 25	\$ (14,167,719)
38	Projected Year 2020 EE Participants NC Non-Residential Sales (kwh) for rate period	Listebarger Exhibit 6, Line 10	16,558,342,828
39	EE Revenue Requirement Year 2020 EMF Non-Residential Rider EE (cents per kWh)	Line 37 / Line 38 * 100	(0.0856)
40	Vintage Year 2020 DSM True-up (EMF) Revenue Requirement	Listebarger Exhibit 2 pg 4, Line 35	\$ (2,037,192)
41	Projected Year 2020 DSM Participants NC Non-Residential Sales (kwh) for rate period	Listebarger Exhibit 6, Line 11	17,988,085,206
42	DSM Revenue Requirement Year 2020 EMF Non-Residential Rider EE (cents per kWh)	Line 40 / Line 41 * 100	(0.0113)

Non-Residential Billing Factors for Rider 13 Prospective Components

43	Vintage Year 2019 EE Prospective Amounts Revenue Requirement	Listebarger Exhibit 2 pg 3, Line 25	\$	2,074,187
44	Projected Program Year 2019 EE Participants NC Non-Residential Sales (kwh) for rate period	Listebarger Exhibit 6, Line 8		17,011,812,574
45	<i>EE Revenue Requirement Vintage 2019 Prospective Component for Non-Residential Rider EE (cents per kWh)</i>	Line 43 / Line 44 * 100		0.0122
46	Vintage Year 2020 EE Prospective Amounts Revenue Requirement	Listebarger Exhibit 2 pg 4, Line 25	\$	6,802,676
47	Projected Vintage 2020 EE Participants NC Non-Residential Sales (kwh) for rate period	Listebarger Exhibit 6, Line 10		16,558,342,828
48	<i>EE Revenue Requirement Vintage 2020 Prospective Component for Non-Residential Rider EE (cents per kWh)</i>	Line 46 / Line 47 * 100		0.0411
49	Vintage Year 2021 EE Prospective Amounts Revenue Requirement	Listebarger Exhibit 2 pg 5, Line 4	\$	13,494,665
50	Projected Vintage 2021 EE Participants NC Non-Residential Sales (kwh) for rate period	Listebarger Exhibit 6, Line 12		16,602,233,535
51	<i>EE Revenue Requirement Vintage 2021 Prospective Component for Non-Residential Rider EE (cents per kWh)</i>	Line 49 / Line 50 * 100		0.0813
52	Vintage Year 2022 EE Prospective Amounts Revenue Requirement	Listebarger Exhibit 2 pg 6, Line 18	\$	68,425,867
53	Projected Vintage 2022 EE Participants NC Non-Residential Sales (kwh) for rate period	Listebarger Exhibit 6, Line 14		16,602,233,535
54	<i>EE Revenue Requirement Vintage 2022 Prospective Component for Non-Residential Rider EE (cents per kWh)</i>	Line 52 / Line 53 * 100		0.4121
55	Vintage Year 2022 DSM Prospective Amounts Revenue Requirement	Listebarger Exhibit 2 pg 6, Line 25	\$	18,683,620
56	Projected Vintage 2022 DSM Participants NC Non-Residential Sales (kwh) for rate period	Listebarger Exhibit 6, Line 15		17,994,339,628
57	<i>DSM Revenue Requirement Vintage 2022 Prospective Component for Non-Residential Rider EE (cents per kWh)</i>	Line 55 / Line 56 * 100		0.1038
	Total EMF Rate			(0.1200)
	Total Prospective Rate			0.6505

Total Revenue Requirements in Rider 13 from Non-Residential Customers

58	Vintage Year 2017 EE True-up (EMF) Revenue Requirement	Line 19		2,780,097
59	Vintage Year 2017 DSM True-up (EMF) Revenue Requirement	Line 22		(418)
60	Vintage Year 2018 EE True-up (EMF) Revenue Requirement	Line 25		513,230
61	Vintage Year 2018 DSM True-up (EMF) Revenue Requirement	Line 28		345,011
62	Vintage Year 2019 EE True-up (EMF) Revenue Requirement	Line 31		(7,185,389)
63	Vintage Year 2019 DSM True-up (EMF) Revenue Requirement	Line 34		(260,821)
64	Vintage Year 2020 EE True-up (EMF) Revenue Requirement	Line 37		(14,167,719)
65	Vintage Year 2020 DSM True-up (EMF) Revenue Requirement	Line 40		(2,037,192)
66	Vintage Year 2019 EE Prospective Amounts Revenue Requirement	Line 43		2,074,187
67	Vintage Year 2020 EE Prospective Amounts Revenue Requirement	Line 46		6,802,676
68	Vintage Year 2021 EE Prospective Amounts Revenue Requirement	Line 49		13,494,665
69	Vintage Year 2022 EE Prospective Amounts Revenue Requirement	Line 52		68,425,867
70	Vintage Year 2022 DSM Prospective Amounts Revenue Requirement	Line 55		18,683,620
	Total Non-Residential Revenue Requirement in Rider 13	Sum (Lines 58-70)		89,467,813

Duke Energy Carolinas, LLC
Docket Number E-7 Sub 1249
True Up of Year 1, 2 and 3 for Vintage Year 2017

RESIDENTIAL Energy Efficiency Programs

Line	Reference	E-7 Sub 1105 Rider 8 Original Estimate	E-7 Sub 1130 Year 2017 Yr 2 LR estimate	E-7 Sub 1164 Rider 10 True up	E-7 Sub 1164 Year 2017 Yr 3 LR Estimate	E-7 Sub 1192 Rider 11 True up	E-7 Sub 1192 Year 2017 Yr 4 LR Estimate	E-7 Sub 1230 Rider 12 True Up	E-7 Sub 1249 Rider 13 True Up	Year 2017
1 Residential EE Program Cost	Evans Exhibit 1 pg. 1, Line 10 * NC Alloc. Factor	\$ 33,488,974		\$ 13,998,885		\$ -		\$ -	\$ (0)	\$ 47,487,859
2 Residential EE Earned Utility Incentive	Evans Exhibit 1 pg. 1, Line 10 * NC Alloc. Factor	4,149,244		4,340,033		(250,931)		-	\$ (0)	8,238,346
3 Return on overcollection of Residential EE Program Costs	Listebarger Exhibit 3 pg 1			522,611		1,226,138		622,205	(225,201)	2,145,754
4 Total EE Program Cost and Incentive Components	Line 1 + Line 2 + line 3	37,638,218		18,861,529		975,207	-	622,205	(225,201)	57,871,958
5 Residential DSM Program Cost	Evans Exhibit 1 pg. 1, Line 11 * NC Alloc. Factor	10,258,751		(176,455)		-			(0)	10,082,296
6 Residential DSM Earned Utility Incentive	Evans Exhibit 1 pg. 2, Line 11 * NC Alloc. Factor	2,837,134		89,061		-			(0)	2,926,195
7 Return on overcollection of Residential DSM Program Costs	Listebarger Exhibit 3 pg 2			15,015		12,882	-	7,019	(10,229)	24,687
8 Total DSM Program Cost and Incentive Components	Line 5 + Line 6 + Line 7	13,095,886		(72,379)		12,882	-	7,019	(10,230)	13,033,178
9 Total EE/DSM Program Cost and Incentive Components	Line 4 + Line 8	50,734,104		18,789,150		988,089	-	629,225	(235,431)	70,905,137
10 Revenue-related taxes and regulatory fees factor **	Listebarger Exhibit 2, pg. 7	1.001482		1.001402		1.001352	-	1.001302	1.001302	
11 Total EE/DSM Program Cost and Incentive Revenue Requirement	Line 9 * Line 10	50,809,292		18,815,493		989,425	-	630,044	(235,738)	71,008,516
12 Residential Net Lost Revenues	Evans Exhibit 2 pg 1-6	12,699,119	4,202,002	6,456,129	8,904,587	2,572,270	1,751,061	(4,729,337)	385,723	32,241,553
13 Total Residential EE/DSM Revenue Requirement	Line 11 + Line 12	63,508,411	4,202,002	25,271,622	8,904,587	3,561,695	1,751,061	(4,099,293)	149,985	103,250,069
14 Total Collected for Vintage Year 2017 (through estimated Rider 12)	Listebarger Exhibit 4, Line 1									103,110,185
15 Total Residential EE/DSM Revenue Requirement	Line 13 - Line 14									\$ 139,884

See Listebarger Exhibit A for rate

NON-RESIDENTIAL Energy Efficiency Programs

Line	Reference	E-7 Sub 1105 Rider 8 Original Estimate	E-7 Sub 1130 Year 2017 Yr 2 LR estimate	E-7 Sub 1164 Rider 10 True up	E-7 Sub 1164 Year 2017 Yr 3 LR Estimate	E-7 Sub 1192 Rider 11 True up	E-7 Sub 1192 Year 2017 Yr 4 LR Estimate	E-7 Sub 1230 Rider 12 True Up	E-7 Sub 1249 Rider 13 True Up	Year 2017
16 Non- Residential EE Program Cost	Evans Exhibit 1 pg. 1, Line 26 * NC Alloc. Factor	38,791,601		32,155,814		-			(0)	70,947,415
17 Non-Residential EE Earned Utility Incentive	Evans Exhibit 1 pg. 1, Line 26 * NC Alloc. Factor	9,347,504		9,073,243		3,304,511		(0)	(0)	21,725,258
18 Return on undercollection of Non-residential EE Program Costs	Listebarger Exhibit 3 page 3			1,588,185		2,709,383		1,615,334	80,592	5,993,494
19 Total EE Program Cost and Incentive Components	Line 16 + Line 17 + Line 18	48,139,105		42,817,242		6,013,894		1,615,334	80,592	98,666,167
20 Revenue-related taxes and regulatory fees factor	Listebarger Exhibit 2, pg. 7	1.001482		1.001402		1.001352		1.001302	1.001302	
21 Total Non-Residential EE Program Cost and Incentive Revenue Requirements	Line 19 * Line 20	48,210,448		42,877,271		6,022,025		1,617,437	80,697	98,727,181
22 Non-Residential Net Lost Revenues	Evans Exhibit 2 pg 1-6	6,039,892	9,466,867	2,627,210	14,570,381	7,280,971	5,593,790	512,352	1,227,896	47,319,359
23 Total Non-Residential EE Revenue Requirement	Line 21 + Line 22	54,250,339	9,466,867	45,504,481	14,570,381	13,302,996	5,593,790	2,129,789	1,308,593	146,046,540
24 Total Collected for Vintage Year 2017 (through estimated Rider 12)	Listebarger Exhibit 4 Line 9									143,266,443
25 Non-Residential EE Revenue Requirement	Line 23 - Line 24									2,780,097
26 Projected NC Residential Sales (kWh)	Listebarger Exhibit 6, Line 4									17,695,122,407
27 NC Non-Residential EE billing factor (Cents/kWh)	Line 25/Line 26*100									0.0157

DSM Programs

Line	Reference	E-7 Sub 1105 Rider 8 Original Estimate	E-7 Sub 1164 Rider 10 True up	E-7 Sub 1192 Rider 11 True up	E-7 Sub 1230 Rider 12 True Up	E-7 Sub 1249 Rider 13 True Up	Year 2017
28 Non-Residential DSM Program Cost	Evans Exhibit 1, pg. 1 Line 28 * NC Alloc. Factor	13,389,985	(1,438,646)		-	0	11,951,339
29 Non-Residential DSM Earned Utility Incentive	Evans Exhibit 1, pg. 1 Line 28 * NC Alloc. Factor	3,703,101	(234,452)		-	0	3,468,649
30 Return on overcollection of Non-residential DSM Program Costs	Listebarger Exhibit 3 page 4		4,761	4,266	2,401	(17,829)	(6,400)
31 Total Non-Residential DSM Program Cost and Incentive Components	Line 28 + Line 29 + Line 30	17,093,085	(1,668,337)	4,266	2,401	(17,828)	15,413,588
32 Revenue-related taxes and regulatory fees factor	Listebarger Exhibit 2, pg. 7	1.001482	1.001402	1.001352	1.001302	1.001302	
33 Total Non-Residential DSM Revenue Requirement	Line 31 * Line 32	17,118,417	(1,670,676)	4,272	2,404	(17,851)	15,454,417
34 Total Collected for Vintage Year 2017 (through estimated Rider 12)	Listebarger Exhibit 4 Line 15						15,454,836
35 Non-Residential EE Revenue Requirement True-up Amount	Line 33 - Line 34						(418)
36 Projected NC Non-Residential Sales (kWh)	Listebarger Exhibit 6, Line 5						17,997,249,012
37 NC Non-Residential DSM billing factor	Line 35/Line 36*100						-

** Actual regulatory fee rate in effect in year of collection. May differ from original filed estimates.

Duke Energy Carolinas, LLC
Docket Number E-7 Sub 1249
True Up of Year 1, 2 and 3 Lost Revenues for Vintage Year 2018

RESIDENTIAL Energy Efficiency Programs

Line	Reference	E-7 Sub 1130 Rider 9 Year 1 Estimate	E-7 Sub 1164 Year 2018 Yr 2 LR Estimate	E-7 Sub 1192 Rider 11 True up	E-7 Sub 1192 Year 2018 Year 3 Estimate	E-7 Sub 1230 Rider 12 True Up	E-7 Sub 1230 Year 2018 Yr 4 LR Estimate	E-7 Sub 1249 Rider 13 True up	Year 2018
1	Residential EE Program Cost	41,623,609		14,606,717		\$ (0)		\$ -	\$ 56,230,326
2	Residential EE Earned Utility Incentive	5,511,264		4,154,068		140,649		(22,279)	9,783,702
3	Return on overcollection of Residential EE Program Costs			244,540		1,024,850		750,744	2,020,134
4	Total EE Program Cost and Incentive Components	47,134,873		19,005,325		1,165,498		728,465	68,034,161
5	Residential DSM Program Cost	9,903,130		(124,235)		0		-	9,778,895
6	Residential DSM Earned Utility Incentive	2,569,925		17,215		(5,581)		(289)	2,581,270
7	Return on undercollection of Residential DSM Program Costs			(28,626)		(40,884)		(21,193)	(90,702)
8	Total DSM Program Cost and Incentive Components	12,473,055		(135,646)		(46,465)		(21,481)	12,269,463
9	Total EE/DSM Program Cost and Incentive Components	59,607,928		18,869,679		1,119,034		706,984	80,303,625
10	Revenue-related taxes and regulatory fees factor **	1,001,402		1,001,352		1,001,302		1,001,302	
11	Total EE/DSM Program Cost and Incentive Revenue Requirement	59,691,498		18,895,191		1,120,491		707,904	80,415,084
12	Residential Net Lost Revenues	19,612,717	6,294,025	894,901	9,715,212	1,534,156	-	2,310,499	40,361,510
13	Total Residential EE/DSM Revenue Requirement	79,304,216	6,294,025	19,790,092	9,715,212	2,654,647	-	3,018,403	120,776,594
14	Total Collected for Vintage Year 2018 (through estimated Rider 12)								117,852,256
15	Total Residential EE/DSM Revenue Requirement							\$	2,924,339

See Listebarger Exhibit A for rate

NON-RESIDENTIAL Energy Efficiency Programs

Line	Reference	E-7 Sub 1130 Rider 9 Year 1 Estimate	E-7 Sub 1164 Year 2018 Yr 2 LR Estimate	E-7 Sub 1192 Rider 11 True up	E-7 Sub 1192 Year 2018 Year 3 Estimate	E-7 Sub 1230 Rider 12 True Up	E-7 Sub 1230 Year 2018 Yr 4 LR Estimate	E-7 Sub 1249 Rider 13 True up	Year 2018
16	Non-Residential EE Program Cost	40,592,949		(3,317,005)		0		-	37,275,944
17	Non-Residential EE Earned Utility Incentive	11,623,199		2,818,045		(25,396)		(2,366)	14,413,483
18	Return on undercollection of Non-residential EE Program Costs			461,049		592,305		407,815	1,461,170
19	Total EE Program Cost and Incentive Components	52,216,148		(37,911)		566,910		405,450	53,150,596
20	Revenue-related taxes and regulatory fees factor	1,001,402		1,001,352		1,001,302		1,001,302	
21	Total Non-Residential EE Program Cost and Incentive Revenue Requirements	52,289,355		(37,962)		567,648		405,977	53,225,018
22	Non-Residential Net Lost Revenues	5,167,253	8,746,000	2,933,863	9,507,185	(1,090,744)	2,182,027	(2,020,437)	25,425,146
23	Total Non-Residential EE Revenue Requirement	57,456,608	8,746,000	2,895,901	9,507,185	(523,097)	2,182,027	(1,614,460)	78,650,164
24	Total Collected for Vintage Year 2018 (through estimated Rider 12)								78,136,934
25	Non-Residential EE Revenue Requirement								513,230
26	Projected NC Residential Sales (kWh)								17,147,081,141
27	NC Non-Residential EE billing factor (Cents/kWh)								0.0030

DSM Programs

Line	Reference	E-7 Sub 1130 Rider 9 Year 1 Estimate	E-7 Sub 1192 Rider 11 True up	E-7 Sub 1230 Rider 12 True Up	E-7 Sub 1249 Rider 13 True up	Year 2018
28	Non-Residential DSM Program Cost	11,959,889	651,281	(0)	-	12,611,170
29	Non-Residential DSM Earned Utility Incentive	3,103,667	232,789	(7,197)	(372)	3,328,887
30	Return on undercollection of Non-residential DSM Program Costs		37,743	76,651	54,598	168,991
31	Total Non-Residential DSM Program Cost and Incentive Components	15,063,556	921,813	69,454	54,225	16,109,048
32	Revenue-related taxes and regulatory fees factor	1,001,402	1,001,352	1,001,302	1,001,302	
33	Total Non-Residential DSM Revenue Requirement	15,084,675	923,059	69,544	54,296	16,131,574
34	Total Collected for Vintage Year 2018 (through estimated Rider 12)					15,786,564
35	Non-Residential EE Revenue Requirement True-up Amount					345,011
36	Projected NC Non-Residential Sales (kWh)					17,899,660,553
37	NC Non-Residential DSM billing factor					0.0019

** Actual regulatory fee rate in effect in year of collection. May differ from original filed estimates.

Duke Energy Carolinas, LLC
Docket Number E-7 Sub 1249
Estimated Year 4 Lost Revenue and True Up of Year 1 and Year 2 for Vintage Year 2019

RESIDENTIAL Energy Efficiency Programs

Line	Reference	Year 2019 Yr 4 LR Estimate
1 Residential EE Program Cost	Evans Exhibit 1 pg. 3, Line 9 * NC Alloc. Factor	
2 Residential EE Earned Utility Incentive	Evans Exhibit 1 pg. 3, Line 9 * NC Alloc. Factor	
3 Return on undercollection of Residential EE Program Costs	Listebarger Exhibit 3 pg 5	
4 Total EE Program Cost and Incentive Components	Line 1 + Line 2 + Line 3	
5 Residential DSM Program Cost	Evans Exhibit 1 pg. 3, Line 10 + Line 26 * NC Alloc. Factor	
6 Residential DSM Earned Utility Incentive	Evans Exhibit 1 pg. 3, Line 10 + Line 26 * NC Alloc. Factor	
7 Return on undercollection of Residential DSM Program Costs	Listebarger Exhibit 3 pg 6	
8 Total DSM Program Cost and Incentive Components	Line 5 + Line 6 + Line 7	
9 Total EE/DSM Program Cost and Incentive Components	Line 4 + Line 8	
10 Revenue-related taxes and regulatory fees factor **	Listebarger Exhibit 2, pg. 7	
11 Total EE/DSM Program Cost and Incentive Revenue Requirement	Line 9 * Line 10	
12 Residential Net Lost Revenues	Evans Exhibit 2 pg 1 - 6	\$ 2,233,068
13 Total Residential EE/DSM Revenue Requirement	Line 11 + Line 12	2,233,068
14 Total Collected for Vintage Year 2019 (through estimated Rider 12)	Listebarger Exhibit 4, Line 3	
15 Total Residential EE/DSM Revenue Requirement	Line 13 - Line 14	\$ 2,233,068

Note: No prospective Year 4 lost revenue is included in this exhibit because the rate case test period was extended for residential customers.

NON-RESIDENTIAL Energy Efficiency Programs

Line	Reference	Year 2019 Yr 4 LR Estimate
16 Non-Residential EE Program Cost	Evans Exhibit 1 pg. 2, Line 23 * NC Alloc. Factor	
17 Non-Residential EE Earned Utility Incentive	Evans Exhibit 1 pg. 2, Line 23 * NC Alloc. Factor	
18 Return on undercollection of Non-residential EE Program Costs	Listebarger Exhibit 3 page 11	
19 Total EE Program Cost and Incentive Components	Line 16 + Line 17 + Line 18	
20 Revenue-related taxes and regulatory fees factor	Listebarger Exhibit 2, pg. 7	
21 Total Non-Residential EE Program Cost and Incentive Revenue Requirements	Line 19 * Line 20	
22 Non-Residential Net Lost Revenues	Evans Exhibit 2 pg 1 - 6	2,074,187
23 Total Non-Residential EE Revenue Requirement	Line 21 + Line 22	2,074,187
24 Total Collected for Vintage Year 2019 (through estimated Rider 12)	Listebarger Exhibit 4 Line 11	
25 Non-Residential EE Revenue Requirement	Line 23 - Line 24	2,074,187
26 Projected NC Residential Sales (kWh)	Listebarger Exhibit 6, Line 8	17,011,812.574
27 NC Non-Residential EE billing factor (Cents/kWh)	Line 25/Line 26*100	0.0122

Note: Only non-residential customer lost revenues earned after the rate case test period have been included.

DSM Programs

Line	Reference	Year 2019 Yr 4 LR Estimate
28 Non-Residential DSM Program Cost	Evans Exhibit 1 pg. 3, Line 10 + Line 26 * NC Alloc. Factor	
29 Non-Residential DSM Earned Utility Incentive	Evans Exhibit 1 pg. 3, Line 10 + Line 26 * NC Alloc. Factor	
30 Return on undercollection of Non-residential DSM Program Costs	Listebarger Exhibit 3 page 12	
31 Total Non-Residential DSM Program Cost and Incentive Components	Line 28 + Line 29 + Line 30	
32 Revenue-related taxes and regulatory fees factor	Listebarger Exhibit 2, pg. 7	
33 Total Non-Residential DSM Revenue Requirement	Line 31 * Line 32	
34 Total Collected for Vintage Year 2019 (through estimated Rider 12)	Listebarger Exhibit 4 Line 17	
35 Non-Residential EE Revenue Requirement True-up Amount	Line 33 - Line 34	
36 Projected NC Non-Residential Sales (kWh)	Listebarger Exhibit 6, Line 9	
37 NC Non-Residential DSM billing factor	Line 35/Line 36*100	

** Actual regulatory fee rate in effect in year of collection. May differ from original filed estimates.

E-7 Sub 1164	E-7 Sub 1192	E-7 Sub 1230	E-7 Sub 1230	E-7 Sub 1249	
Rider 10 Year 1 Estimate	Year 2019 Yr 2 LR Estimate	Rider 12 True up	Year 2019 Yr 3 LR Estimate	Rider 13 True up	Year 2019
\$ 41,002,874		\$ 13,243,503		\$ (0)	\$ 54,246,377
3,801,819		3,296,056		(124,962)	6,972,913
		55,738		750,744	806,481
44,804,694		16,595,296		625,782	62,025,771
10,577,352		(308,751)		(0)	10,268,601
2,773,086		541,821		0	3,314,907
		(6,600)		(21,193)	(27,793)
13,350,438		226,469		(21,193)	13,555,715
58,155,132		16,821,766		604,589	75,581,486
1.001402		1.001352		1.001302	
58,236,665		16,844,509		605,376	75,686,550
18,783,204	5,519,302	6,704,043	5,292,331	(1,623,869)	34,675,011
77,019,869	5,519,302	23,548,552	5,292,331	(1,018,493)	110,361,561
					111,409,134
					\$ (1,047,573)

See Listebarger Exhibit A for rate

E-7 Sub 1164	E-7 Sub 1192	E-7 Sub 1230	E-7 Sub 1230	E-7 Sub 1249	
Rider 10 Year 1 Estimate	Year 2019 Yr 2 LR Estimate	Rider 12 True up	Year 2019 Yr 3 LR Estimate	Rider 13 True up	Year 2019
41,671,833		(8,698,625)		-	32,973,208
8,464,629		1,873,850		759,937	11,098,417
		(553,659)		(275,034)	(828,693)
50,136,462		(7,378,434)		484,904	43,242,932
1.001402		1.001352		1.001302	
50,206,753		(7,388,410)		485,535	43,303,879
5,590,446	9,219,870	452,216	10,794,655	(8,183,962)	17,873,224
55,797,199	9,219,870	(6,936,194)	10,794,655	(7,698,427)	61,177,103
					68,362,492
					(7,185,389)
					17,011,812.574
					(0.0422)

E-7 Sub 1164	E-7 Sub 1230	E-7 Sub 1249	
Rider 10 Year 1 Estimate	Rider 12 True up	Rider 13 True up	Year 2019
12,538,168	(462,163)	-	12,076,005
3,287,157	611,215	-	3,898,372
-	(9,744)	7,619	(2,124)
15,825,325	139,308	7,619	15,972,253
1.001402	1.001352	1.001302	
15,847,512	139,497	7,629	15,994,638
			16,255,459
			(260,821)
			17,943,635,986
			(0.0015)

Duke Energy Carolinas, LLC
Docket Number E-7 Sub 1249
Estimated Year 3 Lost Revenue and True Up of Year 1 for Vintage Year 2020

RESIDENTIAL Energy Efficiency Programs

Line	Reference	Year 2020 Yr 3 LR Estimate
1 Residential EE Program Cost	Evans Exhibit 1 pg. 4, Line 9 * NC Alloc. Factor	
2 Residential EE Earned Utility Incentive	Evans Exhibit 1 pg. 4, Line 9 * NC Alloc. Factor	
3 Return on undercollection of Residential EE Program Costs	Listebarger Exhibit 3 pg 13	
4 Total EE Program Cost and Incentive Components	Line 1 + Line 2 + Line 3	
5 Residential DSM Program Cost	Evans Exhibit 1 pg. 4, Line 10 + Line 26 * NC Alloc. Factor	
6 Residential DSM Earned Utility Incentive	Evans Exhibit 1 pg. 4, Line 10 + Line 26 * NC Alloc. Factor	
7 Return on overcollection of Residential DSM Program Costs	Listebarger Exhibit 3 pg 14	
8 Total DSM Program Cost and Incentive Components	Line 5 + Line 6 + Line 7	
9 Total EE/DSM Program Cost and Incentive Components	Line 4 + Line 8	
10 Revenue-related taxes and regulatory fees factor **	Listebarger Exhibit 2, pg. 7	
11 Total EE/DSM Program Cost and Incentive Revenue Requirement	Line 9 * Line 10	
12 Residential Net Lost Revenues	Evans Exhibit 2 pg. 1	\$ 5,386,818
13 Total Residential EE/DSM Revenue Requirement	Line 11 + Line 12	5,386,818
14 Total Collected for Vintage Year 2020 (through estimated Rider 12)	Listebarger Exhibit 4, Line 4	
15 Total Residential EE/DSM Revenue Requirement	Line 13 - Line 14	\$ 5,386,818

E-7 Sub 1192 Rider 11 Year 1 Estimate	E-7 Sub 1230 Year 2020 Yr 2 LR Estimate	E-7 Sub 1249 Rider 13 True up	Year 2020
\$ 33,551,578		\$ 4,018,794	\$ 37,570,373
3,173,534		1,216,825	4,390,359
		146,633	146,633
36,725,112		5,382,253	42,107,365
12,243,392		(2,355,317)	9,888,075
3,189,876		7,301	3,197,177
		(73,960)	(73,960)
15,433,268		(2,421,975)	13,011,293
52,158,380		2,960,278	55,118,657
1,001402		1,001302	
52,231,506		2,964,132	55,195,638
14,667,095	4,495,479	6,588,261	25,750,835
66,898,602	4,495,479	9,552,393	80,946,473
			71,644,893
			\$ 9,301,580

See Listebarger Exhibit A for rate

NON-RESIDENTIAL Energy Efficiency Programs

Line	Reference	Year 2020 Yr 3 LR Estimate
16 Non- Residential EE Program Cost	Evans Exhibit 1 pg. 4, Line 23 * NC Alloc. Factor	
17 Non-Residential EE Earned Utility Incentive	Evans Exhibit 1 pg. 4, Line 23 * NC Alloc. Factor	
18 Return on overcollection of Non-residential EE Program Costs	Listebarger Exhibit 3 page 15	
19 Total EE Program Cost and Incentive Components	Line 16 + Line 17 + Line 18	
20 Revenue-related taxes and regulatory fees factor	Listebarger Exhibit 2, pg. 7	
21 Total Non-Residential EE Program Cost and Incentive Revenue Requirements	Line 19 * Line 20	
22 Non-Residential Net Lost Revenues	Evans Exhibit 2 pg. 1 - 6	6,802,676
23 Total Non-Residential EE Revenue Requirement	Line 21 + Line 22	6,802,676
24 Total Collected for Vintage Year 2020 (through estimated Rider 12)	Listebarger Exhibit 4 Line 12	
25 Non-Residential EE Revenue Requirement	Line 23 - Line 24	6,802,676
26 Projected NC Residential Sales (kWh)	Listebarger Exhibit 6, Line 10	16,558,342,828
27 NC Non-Residential EE billing factor (Cents/kWh)	Line 25/Line 26*100	0.0411

E-7 Sub 1192 Rider 11 Year 1 Estimate	E-7 Sub 1230 Year 2020 Yr 2 LR Estimate	E-7 Sub 1249 Rider 13 True up	Year 2020
37,708,077		(15,681,234)	22,026,843
10,010,194		(2,909,256)	7,100,938
		(327,773)	(327,773)
47,718,271		(18,918,263)	28,800,008
1,001402		1,001352	
47,785,172		(18,943,841)	28,841,332
5,183,193	9,376,721	(4,169,004)	10,390,910
52,968,365	9,376,721	(23,112,845)	39,232,242
			53,399,960
			(14,167,719)
			16,558,342,828
			(0.0856)

DSM Programs

Line	Reference
28 Non-Residential DSM Program Cost	Evans Exhibit 1 pg. 4, Line 10 + Line 26 * NC Alloc. Factor
29 Non-Residential DSM Earned Utility Incentive	Evans Exhibit 1 pg. 4, Line 10 + Line 26 * NC Alloc. Factor
30 Return on overcollection of Non-residential DSM Program Costs	Listebarger Exhibit 3 page 16
31 Total Non-Residential DSM Program Cost and Incentive Components	Line 28 + Line 29 + Line 30
32 Revenue-related taxes and regulatory fees factor	Listebarger Exhibit 2, pg. 7
33 Total Non-Residential DSM Revenue Requirement	Line 31 * Line 32
34 Total Collected for Vintage Year 2020 (through estimated Rider 12)	Listebarger Exhibit 4 Line 18
35 Non-Residential EE Revenue Requirement True-up Amount	Line 33- Line 34
36 Projected NC Non-Residential Sales (kWh)	Listebarger Exhibit 6 Line 11
37 NC Non-Residential DSM billing factor	Line 35/Line 36*100

E-7 Sub 1192 Rider 11 Year 1 Estimate	E-7 Sub 1249 Rider 13 True up	Year 2020
15,789,462	(3,918,078)	11,871,383
4,113,764	(275,311)	3,838,453
-	(53,705)	(53,705)
19,903,226	(4,247,095)	15,656,131
1,001402	1,001352	
19,931,130	(4,252,837)	15,678,293
		17,715,486
		(2,037,192)
		17,988,085,206
		(0.0113)

** Actual regulatory fee rate in effect in year of collection. May differ from original filed estimates.

Duke Energy Carolinas, LLC
Docket Number E-7 Sub 1249
Estimated Year 2 Lost Revenues for Vintage Year 2021

RESIDENTIAL

Line

- 1 Residential Net Lost Revenues
- 2 Projected NC Residential Sales (kWh)
- 3 NC Residential EE Billing Factor (Cents/kWh)

Reference
Evans Exhibit 2 pg 1 - 6
Listebarger Exhibit 6, Line 1
Line 1/Line 2*100

2021
6,249,665
\$ 21,909,979,810
0.0285

NON-RESIDENTIAL

Energy Efficiency Programs

- 4 Non-Residential Net Lost Revenues
- 5 Projected NC Non-Residential Sales (kWh)
- 6 NC Non-Residential EE billing factor (Cents/kWh)

Reference
Evans Exhibit 2 pg 1 - 6
Listebarger Exhibit 6, Line 12
Line 4/Line 5*100

2021
13,494,665
16,602,233,535
0.0813

Duke Energy Carolinas, LLC
Docket Number E-7 Sub 1249
Estimated Program Costs, Earned Incentive and Lost Revenues for Vintage Year 2022

RESIDENTIAL

Line	Reference	2022
1 Residential EE Program Cost	Evans Exhibit 1, pg. 5, Line 9 * NC Alloc. Factor	\$ 39,429,805
2 Residential EE Earned Utility Incentive	Evans Exhibit 1, pg. 5, Line 9 * NC Alloc. Factor	3,423,061
3 Total EE Program Cost and Incentive Components	Line 1 + Line 2	42,852,866
4 Residential DSM Program Cost	Evans Exhibit 1 pg. 5, Line 10 + Line 26 * NC Alloc. Factor	12,587,919
5 Residential DSM Earned Utility Incentive	Evans Exhibit 1 pg. 5, Line 10 + Line 26 * NC Alloc. Factor	2,954,061
6 Total DSM Program Cost and Incentive Components	Line 4 + Line 5	15,541,981
7 Total EE/DSM Program Cost and Incentive Components	Line 3 + Line 6	58,394,847
8 Revenue-related taxes and regulatory fees factor	Listebarger Exhibit 2, pg. 7	1.001302
9 Total EE/DSM Program Cost and Incentive Revenue Requirement	Line 7 * Line 8	58,470,877
10 Residential Net Lost Revenues	Evans Exhibit 2 pg 1 - 6	21,026,409
11 Total Residential EE Revenue Requirement	Line 9 + Line 10	\$ 79,497,286

See Listebarger Exhibit 1 for rate

NON-RESIDENTIAL Energy Efficiency Programs

	Reference	2022
12 Non- Residential EE Program Cost	Evans Exhibit 1, pg. 5, Line 23 * NC Alloc. Factor	\$ 49,276,542
13 Non-Residential EE Earned Utility Incentive	Evans Exhibit 1, pg. 5, Line 23 * NC Alloc. Factor	10,889,761
14 Total EE Program Cost and Incentive Components	Line 12 + Line 13	60,166,303
15 Revenue-related taxes and regulatory fees factor	Listebarger Exhibit 2, pg. 7	1.001302
16 Total Non-Residential EE Program Cost and Incentive Revenue Requirements	Line 14 * Line 15	60,244,639
17 Non-Residential Net Lost Revenues	Evans Exhibit 2 pg 1 - 6	8,181,228
18 Total Non-Residential EE Revenue Requirement	Line 16 + Line 17	\$ 68,425,867
19 Projected NC Residential Sales (kWh)	Listebarger Exhibit 6, Line 14	16,602,233,535
20 NC Non-Residential EE billing factor (Cents/kWh)	Line 18/Line 19*100	0.4121

DSM Programs

		2022
21 Non-Residential DSM Program Cost	Evans Exhibit 1 pg. 5, Line 10 + Line 26 * NC Alloc. Factor	\$ 15,112,751
22 Non-Residential DSM Earned Utility Incentive	Evans Exhibit 1 pg. 5, Line 10 + Line 26 * NC Alloc. Factor	3,546,574
23 Total Non-Residential DSM Program Cost and Incentive Components	Line 21 + Line 22	18,659,325
24 Revenue-related taxes and regulatory fees factor	Listebarger Exhibit 2, pg. 7	1.001302
25 Total Non-Residential DSM Revenue Requirement	Line 23 * Line 24	18,683,620
26 Projected NC Non-Residential Sales (kWh)	Listebarger Exhibit 6, Line 15	17,994,339,628
27 NC Non-Residential DSM billing factor	Line 25/Line 26*100	0.1038

Duke Energy Carolinas, LLC
Docket Number E-7 Sub 1249
Gross Receipts Tax Years 2017 through estimated 2022

	<u>Year</u>		<u>Actual GRT Rate In Effect</u>
Rider 8	2017		1.001402
Rider 9	2018		1.001402
Rider 10	2019		1.001402
	2020	Jan - June	1.001402
	2020	July - Dec	1.001302
Rider 11	2020	Weighted Average	1.001352
Rider 12	2021		1.001302
Rider 13	2022		1.001302

Note: the current rate is used as the estimate for 2021 and 2022. This will be subject to true-up based on actual rates in effect.

Duke Energy Carolinas, LLC
Docket Number E-7 Sub 1249
Estimated Return Calculation - Residential EE Programs Vintage 2017

NC Residential EE	Cumulative (Over)/Under Recovery	Current Income Tax Rate	Monthly Deferred Income Tax	Cumulative Deferred Income Tax	Net Deferred After Tax Balance	Monthly Return	Monthly A/T Return on Deferral	YTD After Tax Interest	Gross up of Return to Pretax Rate	Gross up of Return to Pretax
		1/2020 - 12/2020				6.84%			0.766497	
Beginning Balance	(2,633,637)			(567,047)	(2,066,590)					
2020 January	(2,665,284)	0.233503	(7,390)	(574,437)	(2,090,847)	0.005700	(11,849)	(11,849)	0.766497	(15,458)
2020 February	(2,792,434)	0.233503	(29,690)	(604,127)	(2,188,307)	0.005700	(12,196)	(24,044)	0.766497	(31,369)
2020 March	(2,898,285)	0.233503	(24,716)	(628,843)	(2,269,441)	0.005700	(12,705)	(36,749)	0.766497	(47,944)
2020 April	(2,983,213)	0.233503	(19,831)	(648,674)	(2,334,539)	0.005700	(13,121)	(49,870)	0.766497	(65,063)
2020 May	(3,058,825)	0.233503	(17,656)	(666,330)	(2,392,495)	0.005700	(13,472)	(63,342)	0.766497	(82,639)
2020 June	(3,165,268)	0.233503	(24,855)	(691,185)	(2,474,084)	0.005700	(13,870)	(77,212)	0.766497	(100,734)
2020 July	(3,319,753)	0.233503	(36,073)	(727,258)	(2,592,496)	0.005700	(14,440)	(91,652)	0.766497	(119,572)
2020 August	(3,482,482)	0.233503	(37,998)	(765,255)	(2,717,227)	0.005700	(15,133)	(106,784)	0.766497	(139,315)
2020 September	(3,611,456)	0.233503	(30,116)	(795,371)	(2,816,085)	0.005700	(15,770)	(122,554)	0.766497	(159,889)
2020 October	(3,688,654)	0.233503	(18,026)	(813,397)	(2,875,257)	0.005700	(16,220)	(138,775)	0.766497	(181,051)
2020 November	(3,769,781)	0.233503	(18,944)	(832,340)	(2,937,441)	0.005700	(16,566)	(155,341)	0.766497	(202,663)
2020 December	(4,013,074)	0.233503	(56,810)	(889,150)	(3,123,924)	0.005700	(17,275)	(172,616)	0.766497	(225,201)
							(172,616)			(225,201)

Note 1: Amounts represent all revenue actually collected through 2020.

Interest Calculation
2019 - Rider 10

NC Residential EE	NC Program Costs Incurred	Revenue Collected	Undercollected Balance	Lost Revenues	Revenues Collected	Undercollected Balance	PPI	Revenue Collected	Undercollected Balance	Total (Over)/Under Collection
2017 January										
2017 February										
2017 March										
2017 April										
2017 May										
2017 June										
2017 July										
2017 August										
2017 September										
2017 October										
2017 November										
2017 December	47,487,859	29,379,532	18,108,327	23,357,250	14,450,537	8,906,713	8,570,768	5,302,516	3,268,251	30,283,291
YTD Balance	47,487,859	29,379,532	18,108,327	23,357,250	14,450,537	8,906,713	8,570,768	5,302,516	3,268,251	30,283,291

Revenue Requirement		
Res EE Program Costs	47,487,859	0.60
Res EE PPI & GRT	8,570,768	0.11
Res EE Lost Revenue	23,357,250	0.29
	79,415,877	
Total Revenue Collected	49,132,586	
Residential EE Rev Collected	49,132,586	

Interest Calculation
2020 - Rider 11

NC Residential EE	NC Program Costs Incurred	Revenue Collected	Undercollected Balance	Lost Revenues	Revenues Collected	Undercollected Balance	PPI	Revenue Collected	Undercollected Balance	Total (Over)/Under Collection
Beginning Balance	47,487,859	29,379,532	18,108,327	23,357,250	14,450,537	8,906,713	8,570,768	5,302,516	3,268,251	30,283,291
2018 January					234,785			(22,935)		
2018 February					461,305			(45,062)		
2018 March					339,367			(33,151)		
2018 April					341,793			(33,388)		
2018 May					298,837			(29,192)		
2018 June					426,042			(41,618)		
2018 July					489,050			(47,773)		
2018 August					450,004			(43,958)		
2018 September					483,004			(47,182)		
2018 October					341,239			(33,334)		
2018 November					315,399			(30,810)		
2018 December				2,572,270	735,271		(251,270)	(71,824)		
YTD Balance	-	-	-	2,572,270	4,916,096	(2,343,826)	(251,270)	(480,225)	228,955	(2,114,871)
Cumulative Balance	47,487,859	29,379,532	18,108,327	25,929,520	19,366,634	6,562,886	8,319,498	4,822,291	3,497,207	28,168,420

Interest Calculation 2021 - Rider 12	NC Program Costs		Undercollected Balance	Lost Revenues	Revenues Collected	Undercollected Balance	PPI	Revenue Collected	Undercollected Balance	Total (Over)/Under Collection		
	Incurred	Revenue Collected										
Beg. Bal. - Source Rider 11	47,487,859	29,379,532	18,108,327	25,929,520	19,366,634	6,562,886	8,319,498	4,822,291	3,497,207	28,168,420	Revenue Requirement	
2019 January		774,528	17,333,799	165,137	459,291	6,268,732		149,582	3,347,624	26,950,155	Res Program Costs	18,108,326
2019 February		1,870,895	15,462,904	398,893	1,109,430	5,558,195		361,320	2,986,304	24,007,403	Res PPI & GRT	3,497,207
2019 March		1,518,055	13,944,848	323,664	900,198	4,981,661		293,177	2,693,127	21,619,636	Res Lost Revenue	10,738,136
2019 April		1,283,951	12,660,898	273,751	761,376	4,494,036		247,966	2,445,161	19,600,095		32,343,668
2019 May		1,276,803	11,384,095	272,227	757,137	4,009,126		246,585	2,198,576	17,591,797		
2019 June		1,632,830	9,751,264	348,135	968,259	3,389,002		315,344	1,883,232	15,023,499	Revenue Collected in 2019	35,500,650
2019 July		1,916,183	7,835,081	408,549	1,136,286	2,661,265		370,067	1,513,166	12,009,512	Less Interest Collected (and GRT):	523,344
2019 August		1,974,223	5,860,858	420,924	1,170,703	1,911,486		381,276	1,131,890	8,904,234	Checkpoint	34,977,306
2019 September		1,829,053	4,031,805	389,972	1,084,618	1,216,839		353,240	778,650	6,027,295		
2019 October		1,447,627	2,584,178	308,648	858,435	667,053		279,576	499,074	3,750,305		
2019 November		1,262,243	1,321,935	269,123	748,503	187,672		243,773	255,301	1,764,908		
2019 December		2,796,434	(1,474,500)	596,227	1,658,270	(874,371)		540,067	(284,766)	(2,633,636)		
YTD Balance	-	19,582,827	(1,474,500)	4,175,250	11,612,507	(874,371)	-	3,781,972	(284,766)	(2,633,636)		
Cumulative Balance	47,487,859	48,962,359	(1,474,500)	30,104,770	30,979,140	(874,371)	8,319,498	8,604,264	(284,766)	(2,633,636)		

Interest Calculation 2022 - Rider 13	NC Program Costs		Undercollected Balance	Lost Revenues	Revenues Collected	Undercollected Balance	PPI	Revenue Collected	Undercollected Balance	Total (Over)/Under Collection		
	Incurred	Revenue Collected										
Beg. Bal. - Source Rider 12	47,487,859	48,962,359	(1,474,500)	30,104,770	30,979,140	(874,371)	8,319,498	8,604,264	(284,766)	(2,633,636)	Revenue Requirement	
2020 January		239,408	(1,713,908)	49,024	(204,973)	(620,374)		46,236	(331,002)	(2,665,284)	Res Program Costs	(1,474,500)
2020 February		961,849	(2,675,757)	196,958	(823,500)	400,084		185,759	(516,761)	(2,792,434)	Res PPI & GRT	(284,766)
2020 March		800,727	(3,476,483)	163,965	(685,553)	1,249,602		154,642	(671,403)	(2,898,285)	Res Lost Revenue	1,262,413
2020 April		642,456	(4,118,940)	131,556	(550,048)	1,931,206		124,076	(795,479)	(2,983,213)		(496,853)
2020 May		571,984	(4,690,924)	117,125	(489,712)	2,538,043		110,466	(905,945)	(3,058,825)		
2020 June		805,209	(5,496,132)	164,883	(689,391)	3,392,316		155,508	(1,061,452)	(3,165,268)	Revenue Collected in 2020	4,744,018
2020 July		1,168,632	(6,664,764)	239,301	(1,000,540)	4,632,157		225,694	(1,287,147)	(3,319,753)	Less Interest Collected (and GRT):	1,227,796
2020 August		1,230,992	(7,895,756)	252,071	(1,053,930)	5,938,158		237,738	(1,524,885)	(3,482,482)		3,516,222
2020 September		975,647	(8,871,402)	199,784	(835,313)	6,973,255		188,424	(1,713,309)	(3,611,456)	Checkpoint	3,516,222
2020 October		583,977	(9,455,379)	119,581	(499,979)	7,592,816		112,782	(1,826,090)	(3,688,654)		
2020 November		613,705	(10,069,084)	125,669	(525,432)	8,243,916		118,523	(1,944,613)	(3,769,781)		
2020 December		1,840,439	(11,909,522)	376,867	(1,575,717)	10,196,500		355,439	(2,300,052)	(4,013,074)		
YTD Balance	-	10,435,023	(11,909,522)	2,136,784	(8,934,087)	10,196,500	-	2,015,286	(14,878,138)	(4,013,074)		
Cumulative Balance	47,487,859	59,397,381	(11,909,522)	32,241,553	22,045,054	10,196,500	8,319,498	10,619,550	(15,162,904)	(4,013,074)		

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Estimated Return Calculation - Residential DSM Programs Vintage 2017

		Cumulative (Over)/Under	Current Income Tax	Monthly Deferred Income	Cumulative Deferred Income	Net Deferred After Tax		Monthly A/T	YTD After Tax	Gross up of Return to	Gross up of Return
NC Residential DSM		Recovery	Rate	Tax	Tax	Balance	Monthly Return	Return on Deferral	Interest	Pretax Rate	to Pretax
		1/2020 - 12/2020				6.84%		0.766497			
Beginning Balance		(817)			(191)	(626)					
2020	January	(13,050)	23.3503000%	(2,857)	(3,047)	(10,003)	0.005700	(30)	(30)	0.766497	(40)
2020	February	(42,988)	23.3503000%	(6,991)	(10,038)	(32,950)	0.005700	(122)	(153)	0.766497	(199)
2020	March	(68,977)	23.3503000%	(6,069)	(16,106)	(52,871)	0.005700	(245)	(397)	0.766497	(518)
2020	April	(91,088)	23.3503000%	(5,163)	(21,269)	(69,818)	0.005700	(350)	(747)	0.766497	(975)
2020	May	(111,471)	23.3503000%	(4,760)	(26,029)	(85,442)	0.005700	(442)	(1,189)	0.766497	(1,552)
2020	June	(137,570)	23.3503000%	(6,094)	(32,123)	(105,447)	0.005700	(544)	(1,733)	0.766497	(2,262)
2020	July	(172,575)	23.3503000%	(8,174)	(40,297)	(132,279)	0.005700	(678)	(2,411)	0.766497	(3,145)
2020	August	(209,109)	23.3503000%	(8,531)	(48,828)	(160,281)	0.005700	(834)	(3,245)	0.766497	(4,233)
2020	September	(239,385)	23.3503000%	(7,070)	(55,897)	(183,488)	0.005700	(980)	(4,225)	0.766497	(5,511)
2020	October	(260,062)	23.3503000%	(4,828)	(60,725)	(199,337)	0.005700	(1,091)	(5,316)	0.766497	(6,935)
2020	November	(281,468)	23.3503000%	(4,998)	(65,724)	(215,744)	0.005700	(1,183)	(6,499)	0.766497	(8,478)
2020	December	(332,937)	23.3503000%	(12,018)	(77,742)	(255,195)	0.005700	(1,342)	(7,841)	0.766497	(10,229)
								(7,841)	(10,229)		

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Estimated Return Calculation - Residential DSM Programs Vintage 2017

Interest Calculation

2019 - Rider 10	Month	NC Program Costs		Undercollected Balance	PPI	Revenue Collected	Undercollected Balance	Total Cumulative Over/Under Collected			
		Incurred	Revenue Collected								
	January	552,143	402,036	150,107	245,458	117,452	128,006	278,113	DSM Program Costs	10,082,296	0.77
	February	599,356	787,156	(187,800)	245,458	229,963	15,496	105,809	DSM PPI & GRT	2,945,502	0.23
	March	610,370	718,976	(108,606)	245,458	210,044	35,414	32,617	Total Revenue Requirement	13,027,798	
	April	723,296	688,278	35,018	245,458	201,076	44,382	112,018			
	May	711,649	637,878	73,771	245,458	186,352	59,106	244,896			
	June	748,136	809,869	(61,733)	245,458	236,598	8,860	192,023			
	July	1,168,981	1,001,748	167,233	245,458	292,654	(47,196)	312,060			
	August	1,258,110	987,042	271,068	245,458	288,358	(42,900)	540,228			
	September	1,199,488	857,261	342,227	245,458	250,443	(4,985)	877,471			
	October	1,053,068	669,295	383,773	245,458	195,531	49,928	1,311,171			
	November	605,961	652,223	(46,262)	245,458	190,543	54,916	1,319,825			
	December	851,737	1,680,290	(828,554)	245,458	490,886	(245,428)	245,844			
YTD Balance		10,082,297	9,892,052	190,244	2,945,502	2,889,902	55,600	245,844			

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Estimated Return Calculation - Residential DSM Programs Vintage 2017

Interest Calculation

2020 - Rider 11	Month	NC Program Costs Incurred	Revenue Collected	Undercollected Balance	PPI	Revenue Collected	Undercollected Balance	Total Cumulative Over/Under Collected
	Beginning Balance	10,082,297	9,892,052	190,244	2,945,502	2,889,902	55,600	245,844
	January			-			-	245,844
	February			-			-	245,844
	March			-			-	245,844
	April			-			-	245,844
	May			-			-	245,844
	June			-			-	245,844
	July			-			-	245,844
	August			-			-	245,844
	September			-			-	245,844
	October			-			-	245,844
	November			-			-	245,844
	December			-			-	245,844
	YTD Balance	10,082,297	9,892,052	190,244	2,945,502	2,889,902	55,600	245,844

Note: Year 2 of all residential vintages goes toward the collection of Year 2 lost revenues. Therefore, no revenues offset the overcollection of Program costs or PPI. Interest continued to accrue on beginning balance.

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Interest Calculation

2021 - Rider 12	Month	NC Program Costs Incurred	Revenue Collected	Undercollected Balance	PPI	Revenue Collected	Undercollected Balance	Total Cumulative Over/Under Collected
	Beginning Balance	10,082,297	9,892,052	190,244	2,945,502	2,889,902	55,600	245,844
	January		7,171	183,073		2,096	53,504	236,576
	February		18,341	164,731		5,360	48,143	212,875
	March		14,746	149,985		4,310	43,834	193,819
	April		12,361	137,624		3,613	40,221	177,845
	May		12,289	125,335		3,591	36,630	161,965
	June		15,916	109,419		4,651	31,978	141,397
	July		18,803	90,617		5,495	26,483	117,100
	August		19,394	71,223		5,668	20,815	92,038
	September		17,915	53,308		5,236	15,579	68,887
	October		14,029	39,279		4,100	11,479	50,758
	November		12,140	27,138		3,548	7,931	35,070
	December		27,771	(632)		8,116	(185)	(817)
	YTD Balance	10,082,297	10,082,929	(632)	2,945,502	2,945,686	(185)	(817)

Revenue Requirement:

Program Costs	190,244	0.77
PPI	55,600	0.23
Total	245,844	

Revenue Given back	261,676
Less Interest given back	15,015
Total	246,661

Check Point	13,028,615
Difference	(12,781,955)

Duke Energy Carolinas, LLC
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Interest Calculation

2022 - Rider 13	Month	NC Program Costs Incurred	Revenue Collected	Undercollected Balance	PPI	Revenue Collected	Undercollected Balance	Total Cumulative Over/Under Collected
Beginning Balance		10,082,297	10,082,929	(632)	2,945,502	2,945,686	(185)	(817)
	January		9,467	(10,099)		2,767	(2,951)	(13,050)
	February		23,167	(33,266)		6,771	(9,722)	(42,988)
	March		20,112	(53,377)		5,878	(15,600)	(68,977)
	April		17,110	(70,487)		5,000	(20,600)	(91,088)
	May		15,774	(86,261)		4,610	(25,210)	(111,471)
	June		20,197	(106,458)		5,903	(31,113)	(137,570)
	July		27,089	(133,546)		7,917	(39,029)	(172,575)
	August		28,271	(161,817)		8,262	(47,292)	(209,109)
	September		23,429	(185,246)		6,847	(54,139)	(239,385)
	October		16,001	(201,247)		4,676	(58,815)	(260,062)
	November		16,565	(217,812)		4,841	(63,656)	(281,468)
	December		39,829	(257,640)		11,640	(75,296)	(332,937)
YTD Balance		-	257,008			75,112		
Cumulative Ending Balance		10,082,297	10,339,937	(257,640)	2,945,502	3,020,798	(75,296)	(332,937)

Note 1: Amounts represent all revenue actually collected through 2020.

Revenue Requirement:		
Program Costs	(632)	0.77
PPI	(185)	0.23
Total	(817)	
Revenue Given back	345,019	
Less Interest given back	12,899	
Total	332,120	
Check Point Difference	332,120	
	-	

Duke Energy Carolinas, LLC
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Estimated Return Calculation - Non- Residential EE Programs Vintage 2017

NC Non- Residential EE	Non-Residential EE Program Costs		NC Allocated EE Program Costs	NC Residential Revenue Collected	NC Non- Residential EE Program Collection %	Non-Residential EE Program Costs Revenue Collected	(Over)/Under Collection
	Incurred	NC Allocation %					
	Listebarger Exhibit 5, pg 1, Line 4				See calc. at right		
Beginning Balance	97,443,527		70,947,415	111,140,302		(68,867,194)	2,080,222
2020 January		72.8087506%	-	1,341,532	12.1332887%	(162,772)	(162,771)
2020 February		72.8087506%	-	1,281,958	12.1332887%	(155,544)	(155,544)
2020 March		72.8087506%	-	1,112,861	12.1332887%	(135,027)	(135,027)
2020 April		72.8087506%	-	1,069,815	12.1332887%	(129,804)	(129,804)
2020 May		72.8087506%	-	990,287	12.1332887%	(120,154)	(120,154)
2020 June		72.8087506%	-	1,186,430	12.1332887%	(143,953)	(143,953)
2020 July		72.8087506%	-	1,453,192	12.1332887%	(176,320)	(176,320)
2020 August		72.8087506%	-	1,512,458	12.1332887%	(183,511)	(183,511)
2020 September		72.8087506%	-	1,426,534	12.1332887%	(173,085)	(173,085)
2020 October		72.8087506%	-	1,193,526	12.1332887%	(144,814)	(144,814)
2020 November		72.8087506%	-	1,226,331	12.1332887%	(148,794)	(148,794)
2020 December		72.8087506%	-	1,797,625	12.1332887%	(218,111)	(218,111)
	97,443,527		70,947,415	126,732,852		(70,759,083)	188,334

Program Costs to be Recovered in Rider 11	2,080,222
Revenues to be Collected in Rider 11	17,144,751

% Revenue to be assigned to Program Costs	12.13%
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		Cumulative (Over)/Under Recovery	Current Income Tax Rate	Monthly Deferred Income Tax	Cumulative Deferred Income Tax	Net Deferred After Tax Balance		Monthly A/T Return on Deferral	YTD After Tax Interest	Gross up of Return to Pretax Rate	Gross up of Return to Pretax
NC Non-Residential EE											
		1/2020 - 12/2020					6.84%			0.766497	
Interest Calculation		2,080,222			485,738	1,594,484					
2020	January	1,917,451	0.233503	(38,007.51)	447,731	1,469,721	0.005700	8,733	8,733	0.766497	11,393
2020	February	1,761,907	0.233503	(36,319.91)	411,411	1,350,497	0.005700	8,038	16,771	0.766497	21,880
2020	March	1,626,881	0.233503	(31,529.14)	379,882	1,246,999	0.005700	7,403	24,173	0.766497	31,538
2020	April	1,497,077	0.233503	(30,309.57)	349,572	1,147,505	0.005700	6,824	30,998	0.766497	40,441
2020	May	1,376,923	0.233503	(28,056.42)	321,516	1,055,407	0.005700	6,278	37,276	0.766497	48,632
2020	June	1,232,970	0.233503	(33,613.46)	287,902	945,067	0.005700	5,701	42,977	0.766497	56,070
2020	July	1,056,650	0.233503	(41,171.23)	246,731	809,919	0.005700	5,002	47,979	0.766497	62,595
2020	August	873,139	0.233503	(42,850.36)	203,881	669,258	0.005700	4,216	52,195	0.766497	68,095
2020	September	700,053	0.233503	(40,415.97)	163,465	536,589	0.005700	3,437	55,631	0.766497	72,579
2020	October	555,239	0.233503	(33,814.49)	129,650	425,589	0.005700	2,742	58,374	0.766497	76,156
2020	November	406,445	0.233503	(34,743.91)	94,906	311,539	0.005700	2,101	60,475	0.766497	78,897
2020	December	188,334	0.233503	(50,929.58)	43,977	144,357	0.005700	1,299	61,774	0.766497	80,592
								61,774			80,592

Note 1: Amounts represent all revenue actually collected through 2019.

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Estimated Return Calculation -Non - Residential DSM Programs Vintage 2017

	Total System NC		NC Allocated DSM Non-		NC Non-Residential		NC Non-	
	DSM Program	NC Non- Residential	Residential Program	DSM Revenue	Residential DSM	Non-Residential		
NC Non- Residential DSM	Costs Incurred	DSM Allocation %	Costs	Collected	Program	DSM Program Costs	(Over)/Under	
					Collection %	Revenue Collected	Collection	
See Miller Exhibit 5 pg. 3, Line 10								
Beginning Balance	29,822,653	40.0747013%	11,951,339	15,447,879		(11,951,439)	(100)	
2020 January	(13,050)	40.4790117%	(5,283)	1,554	-9.2424228%	144	(5,139)	
2020 February	(42,988)	40.4790117%	(17,401)	31	-9.2424228%	3	(17,398)	
2020 March	(68,977)	40.4790117%	(27,921)	(81)	-9.2424228%	(7)	(27,929)	
2020 April	(91,088)	40.4790117%	(36,871)	1	-9.2424228%	0	(36,871)	
2020 May	(111,471)	40.4790117%	(45,122)	-	-9.2424228%	-	(45,122)	
2020 June	(137,570)	40.4790117%	(55,687)	0	-9.2424228%	0	(55,687)	
2020 July	(172,575)	40.4790117%	(69,857)	(1)	-9.2424228%	(0)	(69,857)	
2020 August	(209,109)	40.4790117%	(84,645)	(1)	-9.2424228%	(0)	(84,645)	
2020 September	(239,385)	40.4790117%	(96,901)	0	-9.2424228%	0	(96,901)	
2020 October	(260,062)	40.4790117%	(105,271)	(1)	-9.2424228%	(0)	(105,271)	
2020 November	(281,468)	40.4790117%	(113,936)	0	-9.2424228%	0	(113,935)	
2020 December	(332,937)	40.4790117%	(134,770)	(0)	-9.2424228%	(0)	(134,770)	
	27,861,973		11,157,675	15,449,381		(11,951,300)	(793,625)	

Program Costs to be Recovered in Rider 11	(100)
Revenues to be Collected in Rider 11	1,084
% Revenue to be assigned to Program Costs	-9.24%

NC Non-Residential DSM	Cumulative (Over)/Under Recovery	Current Income Tax Rate	Monthly Deferred Income Tax	Cumulative Deferred Income Tax	Net Deferred After Tax Balance	Monthly Return	Monthly A/T Return on Deferral	YTD After Tax Interest	Gross up of Return to Pretax Rate	Gross up of Return to Pretax
	1/2020 - 12/2020					6.84%			0.766497	
Beginning Balance	(100)			(23)	(77)					
2020 January	(5,239)	0.233503	(1,200)	(1,223)	(4,016)	0.005700	(12)	(12)	0.766497	(15)
2020 February	(22,637)	0.233503	(4,063)	(5,286)	(17,351)	0.005700	(61)	(73)	0.766497	(95)
2020 March	(50,566)	0.233503	(6,521)	(11,807)	(38,759)	0.005700	(160)	(232)	0.766497	(303)
2020 April	(87,437)	0.233503	(8,610)	(20,417)	(67,020)	0.005700	(301)	(534)	0.766497	(697)
2020 May	(132,560)	0.233503	(10,536)	(30,953)	(101,607)	0.005700	(481)	(1,015)	0.766497	(1,324)
2020 June	(188,247)	0.233503	(13,003)	(43,956)	(144,291)	0.005700	(701)	(1,715)	0.766497	(2,238)
2020 July	(258,104)	0.233503	(16,312)	(60,268)	(197,836)	0.005700	(975)	(2,690)	0.766497	(3,510)
2020 August	(342,749)	0.233503	(19,765)	(80,033)	(262,716)	0.005700	(1,313)	(4,003)	0.766497	(5,222)
2020 September	(439,650)	0.233503	(22,627)	(102,659)	(336,990)	0.005700	(1,709)	(5,712)	0.766497	(7,452)
2020 October	(544,920)	0.233503	(24,581)	(127,241)	(417,680)	0.005700	(2,151)	(7,863)	0.766497	(10,258)
2020 November	(658,856)	0.233503	(26,604)	(153,845)	(505,011)	0.005700	(2,630)	(10,493)	0.766497	(13,689)
2020 December	(793,625)	0.233503	(31,469)	(185,314)	(608,311)	0.005700	(3,173)	(13,666)	0.766497	(17,829)
							(13,666)			(17,829)

Note 1: Amounts represent all revenue actually collected through 2020.

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Estimated Return Calculation - Residential EE Programs Vintage 2018

		Residential EE Program Costs		NC Allocated EE Program Costs	NC Residential Revenue Collected	NC Residential EE Program Collection %	EE Program Costs Revenue Collected	(Over)/Under Collection
NC Residential EE		Incurred	NC Allocation %					
Listebarger Exhibit 5 pg. 2, Line 4								
						see calc. at right		
Beginning Balance		77,331,818		56,230,324	70,458,658			15,050,447
2020	January		72.7130507%	-	1,006,435	57.8928%	(582,653)	(582,653)
2020	February		72.7130507%	-	2,345,333	57.8928%	(1,357,779)	(1,357,779)
2020	March		72.7130507%	-	2,046,726	57.8928%	(1,184,907)	(1,184,907)
2020	April		72.7130507%	-	1,753,404	57.8928%	(1,015,094)	(1,015,094)
2020	May		72.7130507%	-	1,622,797	57.8928%	(939,483)	(939,483)
2020	June		72.7130507%	-	2,055,033	57.8928%	(1,189,716)	(1,189,716)
2020	July		72.7130507%	-	2,728,564	57.8928%	(1,579,642)	(1,579,642)
2020	August		72.7130507%	-	2,844,136	57.8928%	(1,646,549)	(1,646,549)
2020	September		72.7130507%	-	2,370,905	57.8928%	(1,372,583)	(1,372,583)
2020	October		72.7130507%	-	1,645,023	57.8928%	(952,350)	(952,350)
2020	November		72.7130507%	-	1,700,118	57.8928%	(984,246)	(984,246)
2020	December		72.7130507%	-	3,973,623	57.8928%	(2,300,441)	(2,300,441)
		77,331,818		56,230,324	96,550,755		(15,105,443)	(54,997)

Program Costs to be Recovered in Rider 11	15,050,447
Revenues to be Collected in Rider 11	25,997,099
% Revenue related to Program Costs	57.8928%

NC Residential EE		Cumulative (Over)/Under Recovery	Current Income Tax Rate	Monthly Deferred Income Tax	Cumulative Deferred Income Tax	Net Deferred After Tax Balance	Monthly Return	Monthly A/T Return on Deferral	YTD After Tax Interest	Gross up of Return to Pretax Rate	Gross up of Return to Pretax
		1/2020 - 12/2020					6.84%			0.766497	
2020 January		14,467,793	0.233503	(136,051)	(136,051)	14,603,845	0.005700	41,621	41,621	0.766497	54,300
2020 February		13,110,014	0.233503	(317,045)	(136,051)	13,246,066	0.005700	79,372	120,993	0.766497	157,852
2020 March		11,925,108	0.233503	(276,679)	(412,731)	12,337,838	0.005700	72,914	193,907	0.766497	252,979
2020 April		10,910,013	0.233503	(237,028)	(373,079)	11,283,092	0.005700	67,320	261,227	0.766497	340,806
2020 May		9,970,531	0.233503	(219,372)	(632,103)	10,602,633	0.005700	62,374	323,601	0.766497	422,182
2020 June		8,780,815	0.233503	(277,802)	(650,881)	9,431,696	0.005700	57,098	380,699	0.766497	496,674
2020 July		7,201,173	0.233503	(368,851)	(1,000,954)	8,202,127	0.005700	50,256	430,956	0.766497	562,240
2020 August		5,554,624	0.233503	(384,474)	(1,035,355)	6,589,979	0.005700	42,158	473,113	0.766497	617,241
2020 September		4,182,040	0.233503	(320,502)	(1,321,456)	5,503,496	0.005700	34,466	507,579	0.766497	662,207
2020 October		3,229,690	0.233503	(222,377)	(1,257,732)	4,487,422	0.005700	28,474	536,054	0.766497	699,355
2020 November		2,245,445	0.233503	(229,824)	(1,551,280)	3,796,725	0.005700	23,610	559,663	0.766497	730,157
2020 December		(54,997)	0.233503	(537,160)	(1,794,892)	1,739,895	0.005700	15,779	575,443	0.766497	750,744
								575,443			750,744

Note 1: Amounts represent all revenue actually collected through 2020.

Duke Energy Carolinas, LLC
Docket Number E-7 Sub 1249
Estimated Return Calculation - Residential DSM Programs Vintage 2018

		Total System NC DSM Program	NC Allocated DSM Program	NC Residential DSM Program	NC Residential DSM Program	DSM Program Costs Revenue	(Over)/Under	
NC Residential DSM		Costs Incurred	NC Allocation %	Costs	Revenue Collected	Collection %	Collected	Collection
Listebarger Exhibit 5 pg. 2, Line 9					see calc. at right			
Beginning Balance		30,409,405		9,778,896	13,173,193		(10,402,600)	(623,705)
2020	January	32.1574721%			(31,607)	76.2023%	24,085	24,085
2020	February	32.1574721%	-		(73,655)	76.2023%	56,127	56,127
2020	March	32.1574721%	-		(64,277)	76.2023%	48,981	48,981
2020	April	32.1574721%	-		(55,066)	76.2023%	41,961	41,961
2020	May	32.1574721%	-		(50,964)	76.2023%	38,836	38,836
2020	June	32.1574721%	-		(64,538)	76.2023%	49,180	49,180
2020	July	32.1574721%	-		(85,690)	76.2023%	65,298	65,298
2020	August	32.1574721%	-		(89,320)	76.2023%	68,064	68,064
2020	September	32.1574721%	-		(74,458)	76.2023%	56,739	56,739
2020	October	32.1574721%	-		(51,662)	76.2023%	39,368	39,368
2020	November	32.1574721%	-		(53,392)	76.2023%	40,686	40,686
2020	December	32.1574721%	-		(124,791)	76.2023%	95,094	95,094
		30,409,405		9,778,896	12,353,771		(9,778,182)	713

Program Costs to be Recovered in Rider 11	(623,705)
Revenues to be Collected in Rider 11	(818,486)
% Revenue related to Program Costs	76.2023%

		Cumulative (Over)/Under Recovery	Current Income Tax Rate	Monthly Deferred Income Tax	Cumulative Deferred Income Tax	Net Deferred After Tax Balance	Monthly Return	Monthly A/T Return on Deferral	YTD After Tax Interest	Gross up of Return to Pretax Rate	Gross up of Return to Pretax
NC Residential DSM		1/2020 - 12/2020					6.84%			0.766497	
2020	January	(599,620)	0.233503	(145,637)	(145,637)	(453,983)	0.005700	(1,294)	(1,294)	0.766497	(1,688)
2020	February	(543,493)	0.233503	13,106	(132,531)	(410,962)	0.005700	(2,465)	(3,759)	0.766497	(4,904)
2020	March	(494,512)	0.233503	11,437	(121,094)	(373,418)	0.005700	(2,235)	(5,994)	0.766497	(7,821)
2020	April	(452,551)	0.233503	9,798	(111,296)	(341,255)	0.005700	(2,037)	(8,031)	0.766497	(10,478)
2020	May	(413,715)	0.233503	9,068	(102,228)	(311,487)	0.005700	(1,860)	(9,892)	0.766497	(12,905)
2020	June	(364,536)	0.233503	11,484	(90,744)	(273,791)	0.005700	(1,668)	(11,560)	0.766497	(15,081)
2020	July	(299,238)	0.233503	15,247	(75,497)	(223,741)	0.005700	(1,418)	(12,978)	0.766497	(16,931)
2020	August	(231,174)	0.233503	15,893	(59,604)	(171,570)	0.005700	(1,127)	(14,104)	0.766497	(18,401)
2020	September	(174,435)	0.233503	13,249	(46,355)	(128,080)	0.005700	(854)	(14,958)	0.766497	(19,515)
2020	October	(135,067)	0.233503	9,192	(37,163)	(97,905)	0.005700	(644)	(15,602)	0.766497	(20,355)
2020	November	(94,381)	0.233503	9,500	(27,662)	(66,719)	0.005700	(469)	(16,071)	0.766497	(20,967)
2020	December	713	0.233503	22,205	(5,458)	6,170	0.005700	(173)	(16,244)	0.766497	(21,193)
								(16,244)			(21,193)

Note 1: Amounts represent all revenue actually collected through 2020.

Duke Energy Carolinas, LLC
Docket Number E-7 Sub 1249
Estimated Return Calculation - Non- Residential EE Programs Vintage 2018

	Non-Residential EE Program Costs		NC Allocated EE Program Costs	NC Residential Revenue Collected	NC Non- Residential EE Program Collection %	Non-Residential EE Program Costs Revenue Collected	(Over)/Under Collection
NC Non- Residential EE	Incurred	NC Allocation %					
		Listebarger Exhibit 5, pg 2 , Line 4					
Beginning Balance	51,264,448		37,275,944	51,998,801	See calc. at right	28,240,012	9,035,932
2020 January		72.7130507%	-	392,528	63.0919461%	(247,653)	(247,653)
2020 February		72.7130507%	-	1,052,999	63.0919461%	(664,358)	(664,358)
2020 March		72.7130507%	-	949,816	63.0919461%	(599,257)	(599,257)
2020 April		72.7130507%	-	879,720	63.0919461%	(555,033)	(555,033)
2020 May		72.7130507%	-	817,578	63.0919461%	(515,826)	(515,826)
2020 June		72.7130507%	-	982,053	63.0919461%	(619,596)	(619,596)
2020 July		72.7130507%	-	1,211,328	63.0919461%	(764,250)	(764,250)
2020 August		72.7130507%	-	1,261,498	63.0919461%	(795,904)	(795,904)
2020 September		72.7130507%	-	1,187,870	63.0919461%	(749,450)	(749,450)
2020 October		72.7130507%	-	990,798	63.0919461%	(625,114)	(625,114)
2020 November		72.7130507%	-	1,011,212	63.0919461%	(637,993)	(637,993)
2020 December		72.7130507%	-	1,456,757	63.0919461%	(919,096)	(919,096)
	51,264,448		37,275,944	64,192,958		20,546,481	1,342,401

Program Costs to be Recovered in Rider 11	9,035,932
Revenues to be Collected in Rider 11	14,321,847
% Revenue related to Program Costs	63.0919%

		Cumulative (Over)/Under Recovery	Current Income Tax Rate	Monthly Deferred Income Tax	Cumulative Deferred Income Tax	Net Deferred After Tax Balance		Monthly A/T Return on Deferral	YTD After Tax Interest	Gross up of Return to Pretax Rate	Gross up of Return to Pretax
NC Non-Residential EE		1/2020 - 12/2020					6.84%			0.766497	
2020	January	8,788,279	0.233503	(57,827.82)	(57,828)	8,846,106	0.005700	25,211	25,211	0.766497	32,892
2020	February	8,123,921	0.233503	(155,129.52)	(212,957)	8,336,878	0.005700	48,972	74,183	0.766497	96,782
2020	March	7,524,664	0.233503	(139,928.36)	(352,886)	7,877,549	0.005700	46,211	120,394	0.766497	157,070
2020	April	6,969,631	0.233503	(129,601.78)	(482,487)	7,452,119	0.005700	43,690	164,084	0.766497	214,069
2020	May	6,453,805	0.233503	(120,446.91)	(602,934)	7,056,739	0.005700	41,350	205,434	0.766497	268,016
2020	June	5,834,209	0.233503	(144,677.56)	(747,612)	6,581,821	0.005700	38,870	244,304	0.766497	318,728
2020	July	5,069,959	0.233503	(178,454.71)	(926,067)	5,996,025	0.005700	35,847	280,151	0.766497	365,495
2020	August	4,274,055	0.233503	(185,845.91)	(1,111,913)	5,385,968	0.005700	32,439	312,589	0.766497	407,815
2020	September	3,524,605	0.233503	(174,998.88)	(1,286,911)	4,811,516	0.000000	-	312,589	0.766497	407,815
2020	October	2,899,491	0.233503	(145,966.00)	(1,432,877)	4,332,368	0.000000	-	312,589	0.766497	407,815
2020	November	2,261,497	0.233503	(148,973.36)	(1,581,851)	3,843,348	0.000000	-	312,589	0.766497	407,815
2020	December	1,342,401	0.233503	(214,611.73)	(1,796,463)	3,138,864	0.000000	-	312,589	0.766497	407,815
								312,589			407,815

Note 1: Amounts represent all revenue actually collected through 2020.

Duke Energy Carolinas, LLC
Docket Number E-7 Sub 1249
Estimated Return Calculation -Non - Residential DSM Programs Vintage 2018

		Total System NC DSM Program	NC Non- Residential DSM Allocation %	NC Allocated DSM Non- Residential Program Costs	NC Non-Residential DSM Revenue Collected	NC Non- Residential DSM Program Collection %	Non-Residential DSM Program Costs Revenue Collected	(Over)/Under Collection
NC Non- Residential DSM		Costs Incurred						
See Listebarger Exhibit 5 pg. 2, Line 10								
Beginning Balance		30,409,405		12,611,170	41,424		(11,696,128)	915,042
2020	January	-	41.4712829%	-	27,967	65.4492958%	(18,304)	(18,304)
2020	February	-	41.4712829%	-	105,354	65.4492958%	(68,954)	(68,954)
2020	March	-	41.4712829%	-	95,955	65.4492958%	(62,802)	(62,802)
2020	April	-	41.4712829%	-	87,201	65.4492958%	(57,072)	(57,072)
2020	May	-	41.4712829%	-	80,651	65.4492958%	(52,785)	(52,785)
2020	June	-	41.4712829%	-	94,704	65.4492958%	(61,983)	(61,983)
2020	July	-	41.4712829%	-	115,867	65.4492958%	(75,834)	(75,834)
2020	August	-	41.4712829%	-	121,103	65.4492958%	(79,261)	(79,261)
2020	September	-	41.4712829%	-	114,043	65.4492958%	(74,640)	(74,640)
2020	October	-	41.4712829%	-	96,133	65.4492958%	(62,918)	(62,918)
2020	November	-	41.4712829%	-	99,258	65.4492958%	(64,964)	(64,964)
2020	December	-	41.4712829%	-	138,685	65.4492958%	(90,769)	(90,769)
		30,409,405		12,611,170	1,218,346		(12,466,415)	144,755

Program Costs to be Recovered in Ride	915,042
Revenues to be Collected in Rider 11	1,398,093
% Revenue related to Program Costs	65.4493%

NC Non-Residential DSM		Cumulative (Over)/Under Recovery	Current Income Tax Rate	Monthly Deferred Income Tax	Cumulative Deferred Income Tax	Net Deferred After Tax Balance	Monthly Return	Monthly A/T Return on Deferral	YTD After Tax Interest	Gross up of Return to Pretax Rate	Gross up of Return to Pretax
		1/2020 - 12/2020						6.84%	0.766497		
2020	January	896,738	0.233503	(4,274)	(4,274)	901,012	0.005700	2,568	2,568	0.766497	3,350
2020	February	827,784	0.233503	(16,101)	(20,375)	848,159	0.005700	4,985	7,553	0.766497	9,854
2020	March	764,982	0.233503	(14,664)	(35,039)	800,022	0.005700	4,697	12,250	0.766497	15,982
2020	April	707,910	0.233503	(13,327)	(48,366)	756,276	0.005700	4,435	16,686	0.766497	21,769
2020	May	655,125	0.233503	(12,326)	(60,692)	715,816	0.005700	4,195	20,881	0.766497	27,242
2020	June	593,142	0.233503	(14,473)	(75,165)	668,306	0.005700	3,945	24,826	0.766497	32,389
2020	July	517,307	0.233503	(17,708)	(92,872)	610,180	0.005700	3,644	28,470	0.766497	37,143
2020	August	438,046	0.233503	(18,508)	(111,380)	549,426	0.005700	3,305	31,775	0.766497	41,454
2020	September	363,406	0.233503	(17,429)	(128,809)	492,214	0.005700	2,969	34,743	0.766497	45,327
2020	October	300,488	0.233503	(14,692)	(143,500)	443,988	0.005700	2,668	37,411	0.766497	48,808
2020	November	235,524	0.233503	(15,169)	(158,670)	394,193	0.005700	2,389	39,800	0.766497	51,925
2020	December	144,755	0.233503	(21,195)	(179,864)	324,619	0.005700	2,049	41,849	0.766497	54,598
								41,849			54,598

Note 1: Amounts represent all revenue actually collected through 2020.

Duke Energy Carolinas, LLC
Docket Number E-7 Sub 1249
Estimated Return Calculation - Residential EE Programs Vintage 2019

NC Residential EE	Residential EE Program Costs		NC Allocated EE Program Costs	NC Residential Revenue Collected	NC Residential EE Program Collection %	EE Program Costs Revenue Collected	(Over)/Under Collection
	Incurred	NC Allocation %					
	Listebarger Exhibit 5 pg. 3, Line 4				see calc. at right		
Beginning Balance	74,218,205		54,246,377	63,652,577		(39,726,803)	14,519,574
2020 January		73.0903918%			0.0000%		
2020 February		73.0903918%			0.0000%		
2020 March		73.0903918%			0.0000%		
2020 April		73.0903918%			0.0000%		
2020 May		73.0903918%			0.0000%		
2020 June		73.0903918%			0.0000%		
2020 July		73.0903918%			0.0000%		
2020 August		73.0903918%			0.0000%		
2020 September		73.0903918%			0.0000%		
2020 October		73.0903918%			0.0000%		
2020 November		73.0903918%			0.0000%		
2020 December		73.0903918%			0.0000%		
	74,218,205		54,246,377	63,652,577		(39,726,803)	14,519,574

Note: All revenues collected in Rider 11 were to collect Y2 of lost revenue. Therefore, no revenue received in 2020 would offset the under collected balance of program costs and a return would still be earned.

NC Residential EE		Cumulative (Over)/Under Recovery	Current Income Tax Rate	Monthly Deferred Income Tax	Cumulative Deferred Income Tax	Net Deferred After Tax Balance	Monthly Return	Monthly A/T Return on Deferral	YTD After Tax Interest	Gross up of Return to Pretax Rate	Gross up of Return to Pretax
			1/2020 - 12/2020				6.84%			0.766497	
2020 January		14,519,574	0.233503	-	-	14,519,574	0.005700	41,381	41,381	0.766497	53,987
2020 February		14,519,574	0.233503	-	-	14,519,574	0.005700	82,762	124,142	0.766497	161,961
2020 March		14,519,574	0.233503	-	-	14,519,574	0.005700	82,762	206,904	0.766497	269,934
2020 April		14,519,574	0.233503	-	-	14,519,574	0.005700	82,762	289,665	0.766497	377,908
2020 May		14,519,574	0.233503	-	-	14,519,574	0.005700	82,762	372,427	0.766497	485,882
2020 June		14,519,574	0.233503	-	-	14,519,574	0.005700	82,762	455,189	0.766497	593,856
2020 July		14,519,574	0.233503	-	-	14,519,574	0.005700	82,762	537,950	0.766497	701,830
2020 August		14,519,574	0.233503	-	-	14,519,574	0.005700	82,762	620,712	0.766497	809,803
2020 September		14,519,574	0.233503	-	-	14,519,574	0.005700	82,762	703,473	0.766497	917,777
2020 October		14,519,574	0.233503	-	-	14,519,574	0.005700	82,762	786,235	0.766497	1,025,751
2020 November		14,519,574	0.233503	-	-	14,519,574	0.005700	82,762	868,996	0.766497	1,133,725
2020 December		14,519,574	0.233503	-	-	14,519,574	0.005700	82,762	951,758	0.766497	1,241,698
								951,758			1,241,698

Note 1: Amounts represent all revenue actually collected through 2020.

Duke Energy Carolinas, LLC
Docket Number E-7 Sub 1249
Estimated Return Calculation - Residential DSM Programs Vintage 2019

NC Residential DSM	Total System NC DSM Program Costs Incurred	NC Allocation %	NC Allocated EE Program Costs	NC Residential Revenue Collected	NC Residential EE Program Collection %	EE Program Costs Revenue Collected	(Over)/Under Collection
	Listebarger Exhibit 5 pg. 3, Line 9			see calc. at right			
Beginning Balance	30,097,219		10,268,600	13,367,259		(10,090,987)	177,614
2020 January		34.1181040%					
2020 February		34.1181040%	-		0.0000%	-	-
2020 March		34.1181040%	-		0.0000%	-	-
2020 April		34.1181040%	-		0.0000%	-	-
2020 May		34.1181040%	-		0.0000%	-	-
2020 June		34.1181040%	-		0.0000%	-	-
2020 July		34.1181040%	-		0.0000%	-	-
2020 August		34.1181040%	-		0.0000%	-	-
2020 September		34.1181040%	-		0.0000%	-	-
2020 October		34.1181040%	-		0.0000%	-	-
2020 November		34.1181040%	-		0.0000%	-	-
2020 December		34.1181040%	-		0.0000%	-	-
	30,097,219		10,268,600	13,367,259		(10,090,987)	177,614

Note: All revenues collected in Rider 11 were to collect Y2 of lost revenue. Therefore, no revenue received in 2020 would offset the under collected balance of program costs and a return would still be earned.

NC Residential DSM	Cumulative (Over)/Under Recovery	Current Income Tax Rate	Monthly Deferred Income Tax	Cumulative Deferred Income Tax	Net Deferred After Tax Balance	Monthly Return	Monthly A/T Return on Deferral	YTD After Tax Interest	Gross up of Return to Pretax Rate	Gross up of Return to Pretax
	1/2020 - 12/2020					6.84%			0.766497	
2020 January	177,614	0.233503	-	-	177,614	0.005700	506	506	0.766497	660
2020 February	177,614	0.233503	-	-	177,614	0.005700	1,012	1,519	0.766497	1,981
2020 March	177,614	0.233503	-	-	177,614	0.005700	1,012	2,531	0.766497	3,302
2020 April	177,614	0.233503	-	-	177,614	0.005700	1,012	3,543	0.766497	4,623
2020 May	177,614	0.233503	-	-	177,614	0.005700	1,012	4,556	0.766497	5,944
2020 June	177,614	0.233503	-	-	177,614	0.005700	1,012	5,568	0.766497	7,264
2020 July	177,614	0.233503	-	-	177,614	0.005700	1,012	6,581	0.766497	8,585
2020 August	177,614	0.233503	-	-	177,614	0.005700	1,012	7,593	0.766497	9,906
2020 September	177,614	0.233503	-	-	177,614	0.005700	1,012	8,605	0.766497	11,227
2020 October	177,614	0.233503	-	-	177,614	0.005700	1,012	9,618	0.766497	12,548
2020 November	177,614	0.233503	-	-	177,614	0.005700	1,012	10,630	0.766497	13,869
2020 December	177,614	0.233503	-	-	177,614	0.005700	1,012	11,643	0.766497	15,189
							11,643			15,189

Note 1: Amounts represent all revenue actually collected through 2020.

Duke Energy Carolinas, LLC
Docket Number E-7 Sub 1249
Estimated Return Calculation - Non- Residential EE Programs Vintage 2019

NC Non- Residential EE	Non-Residential EE Program Costs		NC Allocated EE Program Costs	Program Performance Incentives	Lost Revenues	Total Costs	NC Residential Revenue Collected	NC Non-Residential EE Program Collection %	Non-Residential EE	(Over)/Under Collection
	Incurred	NC Allocation %							Program Costs	
		Listebarger Exhibit 5, pg 3, Line 4							Program Costs Revenue Collected	
Beginning Balance	45,112,919		32,973,209	10,338,479	6,042,662	49,354,350	52,862,599	See calc. at right	(52,862,599)	(3,508,249) NOTE 2
2020 January		73.0903918%			735,973	735,973	999,604	100.00%	(999,604)	(263,630)
2020 February		73.0903918%			735,973	735,973	650,424	100.00%	(650,424)	85,550
2020 March		73.0903918%			735,973	735,973	546,614	100.00%	(546,614)	189,360
2020 April		73.0903918%			735,973	735,973	534,733	100.00%	(534,733)	201,240
2020 May		73.0903918%			735,973	735,973	497,189	100.00%	(497,189)	238,785
2020 June		73.0903918%			735,973	735,973	596,535	100.00%	(596,535)	139,438
2020 July		73.0903918%			735,973	735,973	736,944	100.00%	(736,944)	(971)
2020 August		73.0903918%			735,973	735,973	765,002	100.00%	(765,002)	(29,029)
2020 September		73.0903918%			735,973	735,973	720,622	100.00%	(720,622)	15,352
2020 October		73.0903918%			735,973	735,973	602,519	100.00%	(602,519)	133,454
2020 November		73.0903918%			735,973	735,973	621,317	100.00%	(621,317)	114,656
2020 December		73.0903918%			735,973	735,973	961,460	100.00%	(961,460)	(225,487)
	45,112,919		32,973,209	10,338,479	14,874,342	58,186,030	61,095,561		(61,095,561)	(2,909,531)

Since Rider 12 was overcollected, interest has continued to be calculated on the entire balance. Lost revenues earned in 2020 were applied to the outstanding balance and all revenues collected in 2020 were also applied to the outstanding balance.

NC Non-Residential EE		Cumulative (Over)/Under Recovery	Current Income Tax Rate	Monthly Deferred Income Tax	Cumulative Deferred Income Tax	Net Deferred After Tax Balance	Monthly Return	Monthly A/T Return on Deferral	YTD After Tax Interest	Gross up of Return to Pretax Rate	Gross up of Return to Pretax
		1/2020 - 12/2020					6.84%			0.766497	
2020 January	(3,771,879)	0.233503	(61,559)	(61,559)	(3,710,321)	0.005700	(10,574)	(10,574)	0.766497	(13,796)	
2020 February	(3,686,329)	0.233503	19,976	(41,582)	(3,644,747)	0.005700	(20,962)	(31,536)	0.766497	(41,143)	
2020 March	(3,496,970)	0.233503	44,216	2,634	(3,499,603)	0.005700	(20,361)	(51,898)	0.766497	(67,708)	
2020 April	(3,295,729)	0.233503	46,990	49,624	(3,345,353)	0.005700	(19,508)	(71,406)	0.766497	(93,159)	
2020 May	(3,056,945)	0.233503	55,757	105,381	(3,162,325)	0.005700	(18,547)	(89,953)	0.766497	(117,356)	
2020 June	(2,917,507)	0.233503	32,559	137,940	(3,055,447)	0.005700	(17,721)	(107,673)	0.766497	(140,475)	
2020 July	(2,918,478)	0.233503	(227)	137,713	(3,056,191)	0.005700	(17,418)	(125,092)	0.766497	(163,199)	
2020 August	(2,947,506)	0.233503	(6,778)	130,935	(3,078,441)	0.005700	(17,484)	(142,575)	0.766497	(186,009)	
2020 September	(2,932,154)	0.233503	3,585	134,520	(3,066,674)	0.005700	(17,514)	(160,089)	0.766497	(208,858)	
2020 October	(2,798,700)	0.233503	31,162	165,682	(2,964,382)	0.005700	(17,189)	(177,277)	0.766497	(231,283)	
2020 November	(2,684,044)	0.233503	26,773	192,454	(2,876,498)	0.005700	(16,647)	(193,924)	0.766497	(253,000)	
2020 December	(2,909,531)	0.233503	(52,652)	139,802	(3,049,333)	0.005700	(16,889)	(210,812)	0.766497	(275,034)	
							(210,812)			(275,034)	

Note 1: Amounts represent all revenue actually collected through 2020.

Note 2: An error was discovered in the calculation of the prior period interest. Beginning balances have been updated to reflect the correct balances, but no changes are requested to the prior period interest paid.

Duke Energy Carolinas, LLC
Docket Number E-7 Sub 1249
Estimated Return Calculation -Non - Residential DSM Programs Vintage 2019

NC Non- Residential DSM	NC Non-Residential						
	Total System NC DSM Program Costs Incurred	NC Non- Residential DSM Allocation %	NC Allocated DSM Non- Residential Program Costs	NC Non-Residential DSM Revenue Collected	NC Non- Residential DSM Program Collection %	Non-Residential DSM Program Costs Revenue Collected	(Over)/Under Collection
	See Listebarger Exhibit 5 pg. 3, Line 10						
Beginning Balance	30,097,219		12,076,004	15,674,069		(11,832,404)	243,600
2020 January		40.1233224%	-	271,556	75.5363612%	(205,124)	(205,124)
2020 February		40.1233224%	-	4,012	75.5363612%	(3,030)	(3,030)
2020 March		40.1233224%	-	(10,154)	75.5363612%	7,670	7,670
2020 April		40.1233224%	-	15	75.5363612%	(12)	(12)
2020 May		40.1233224%	-	(1)	75.5363612%	1	1
2020 June		40.1233224%	-	19	75.5363612%	(14)	(14)
2020 July		40.1233224%	-	(98)	75.5363612%	74	74
2020 August		40.1233224%	-	(255)	75.5363612%	192	192
2020 September		40.1233224%	-	-	75.5363612%	-	-
2020 October		40.1233224%	-	(15)	75.5363612%	11	11
2020 November		40.1233224%	-	41	75.5363612%	(31)	(31)
2020 December		40.1233224%	-	3,329	75.5363612%	(2,515)	(2,515)
	30,097,219		12,076,004	15,942,519		(12,035,182)	40,822

Program Costs	12,076,005
Revenue Requirement	15,987,009
 % Revenues related to Program Costs	 75.5364%

NC Non-Residential DSM		Cumulative	Current Income Tax Rate	Monthly Deferred Income Tax	Cumulative	Net Deferred	Monthly Return	Monthly A/T Return on Deferral	YTD After Tax Interest	Gross up of	Gross up of Return to Pretax
		(Over)/Under Recovery			Deferred Income Tax	After Tax Balance				Return to Pretax Rate	
1/2020 - 12/2020							6.84%			0.766497	
2020	January	38,476	0.233503	(47,897)	(47,897)	86,373	0.005700	246	246	0.766497	321
2020	February	35,446	0.233503	(708)	(48,605)	84,050	0.005700	486	732	0.766497	955
2020	March	43,116	0.233503	1,791	(46,814)	89,929	0.005700	496	1,228	0.766497	1,602
2020	April	43,104	0.233503	(3)	(46,816)	89,921	0.005700	513	1,740	0.766497	2,270
2020	May	43,105	0.233503	0	(46,816)	89,921	0.005700	513	2,253	0.766497	2,939
2020	June	43,091	0.233503	(3)	(46,819)	89,910	0.005700	513	2,765	0.766497	3,608
2020	July	43,165	0.233503	17	(46,802)	89,967	0.005700	513	3,278	0.766497	4,277
2020	August	43,357	0.233503	45	(46,757)	90,114	0.005700	513	3,791	0.766497	4,946
2020	September	43,357	0.233503	-	(46,757)	90,114	0.005700	514	4,305	0.766497	5,616
2020	October	43,368	0.233503	3	(46,755)	90,123	0.005700	514	4,819	0.766497	6,286
2020	November	43,337	0.233503	(7)	(46,762)	90,099	0.005700	514	5,332	0.766497	6,957
2020	December	40,822	0.233503	(587)	(47,349)	88,171	0.005700	508	5,840	0.766497	7,619
								5,840			7,619

Note 1: Amounts represent all revenue actually collected through 2019.

Duke Energy Carolinas, LLC
Docket Number E-7 Sub 1249
Estimated Return Calculation - Residential EE Programs Vintage 2020

		Residential EE Program Costs	NC Allocated EE Program Costs	NC Residential Revenue Collected	NC Residential EE Program Collection %	EE Program Costs Revenue Collected	(Over)/Under Collection	
NC Residential EE		Incurred	NC Allocation %					
		Listebarger Exhibit 5 pg. 4, Line 4			see calc. at right			
2020	January	5,241,003	73.2212736%	3,837,530	1,992,076	59.3769%	(1,182,833)	2,654,697
2020	February	4,945,880	73.2212736%	3,621,436	4,642,209	59.3769%	(2,756,400)	865,036
2020	March	4,499,298	73.2212736%	3,294,443	4,051,164	59.3769%	(2,405,455)	888,988
2020	April	5,151,309	73.2212736%	3,771,854	3,470,580	59.3769%	(2,060,723)	1,711,131
2020	May	3,275,554	73.2212736%	2,398,402	3,212,066	59.3769%	(1,907,225)	491,177
2020	June	4,557,881	73.2212736%	3,337,338	4,067,606	59.3769%	(2,415,218)	922,120
2020	July	4,221,191	73.2212736%	3,090,810	5,400,753	59.3769%	(3,206,799)	(115,989)
2020	August	3,180,734	73.2212736%	2,328,974	5,629,508	59.3769%	(3,342,627)	(1,013,654)
2020	September	3,989,125	73.2212736%	2,920,888	4,692,825	59.3769%	(2,786,454)	134,435
2020	October	3,183,471	73.2212736%	2,330,978	3,256,058	59.3769%	(1,933,346)	397,631
2020	November	3,996,630	73.2212736%	2,926,383	3,365,110	59.3769%	(1,998,098)	928,286
2020	December	5,068,659	73.2212736%	3,711,336	7,865,147	59.3769%	(4,670,080)	(958,744)
		51,310,734		37,570,373	51,645,101		(30,665,260)	6,905,113

NC Residential EE		Cumulative (Over)/Under Recovery	Current Income Tax Rate	Monthly Deferred Income Tax	Cumulative Deferred Income Tax	Net Deferred After Tax Balance	Monthly Return	Monthly A/T Return on Deferral	YTD After Tax Interest	Gross up of Return to Pretax Rate	Gross up of Return to Pretax
		1/2020 - 12/2020					6.84%			0.766497	
2020 January		2,654,697	0.233503	619,880	619,880	2,034,817	0.005700	5,799	5,799	0.766497	7,566
2020 February		2,654,697	0.233503	201,989	619,880	2,034,817	0.005700	11,598	17,398	0.766497	22,698
2020 March		2,654,697	0.233503	207,581	827,461	1,827,236	0.005700	11,007	28,405	0.766497	37,058
2020 April		2,654,697	0.233503	399,554	1,019,434	1,635,263	0.005700	9,868	38,273	0.766497	49,932
2020 May		2,654,697	0.233503	114,691	942,152	1,712,544	0.005700	9,541	47,814	0.766497	62,380
2020 June		2,654,697	0.233503	215,318	1,234,752	1,419,945	0.005700	8,928	56,742	0.766497	74,027
2020 July		2,654,697	0.233503	(27,084)	915,068	1,739,628	0.005700	9,005	65,746	0.766497	85,775
2020 August		2,654,697	0.233503	(236,691)	998,060	1,656,636	0.005700	9,679	75,426	0.766497	98,403
2020 September		2,654,697	0.233503	31,391	946,459	1,708,237	0.005700	9,590	85,016	0.766497	110,914
2020 October		2,654,697	0.233503	92,848	1,090,909	1,563,788	0.005700	9,325	94,341	0.766497	123,080
2020 November		2,654,697	0.233503	216,757	1,163,217	1,491,480	0.005700	8,708	103,048	0.766497	134,441
2020 December		2,654,697	0.233503	(223,870)	867,039	1,787,658	0.005700	9,346	112,394	0.766497	146,633
								112,394			146,633

Note 1: Amounts represent all revenue actually collected through 2020.

Duke Energy Carolinas, LLC
Docket Number E-7 Sub 1249
Estimated Return Calculation - Residential DSM Programs Vintage 2020

		Total System NC DSM Program Costs Incurred	NC Allocation %	NC Allocated EE Program Costs	Program Incentives	Total Costs	NC Residential Revenue Collected	NC Residential EE Program Collection %	EE Program Costs Revenue Collected	(Over)/Under Collection
Listebarger Exhibit 5 pg. 4, Line 9										
2020	January	1,802,624	33.71633333%	607,779	196,329	804,108	598,039	100.0000%	(598,039)	206,069
2020	February	1,817,798	33.71633333%	612,895	197,982	810,877	1,393,632	100.0000%	(1,393,632)	(582,755)
2020	March	1,735,864	33.71633333%	585,270	189,058	774,328	1,216,195	100.0000%	(1,216,195)	(441,867)
2020	April	1,556,003	33.71633333%	524,627	169,469	694,096	1,041,899	100.0000%	(1,041,899)	(347,802)
2020	May	1,257,677	33.71633333%	424,043	136,977	561,020	964,290	100.0000%	(964,290)	(403,270)
2020	June	2,343,514	33.71633333%	790,147	255,239	1,045,386	1,221,131	100.0000%	(1,221,131)	(175,745)
2020	July	3,919,340	33.71633333%	1,321,458	426,867	1,748,325	1,621,353	100.0000%	(1,621,353)	126,971
2020	August	3,729,569	33.71633333%	1,257,474	406,199	1,663,673	1,690,028	100.0000%	(1,690,028)	(26,355)
2020	September	3,825,800	33.71633333%	1,289,919	416,679	1,706,599	1,408,827	100.0000%	(1,408,827)	297,772
2020	October	3,350,491	33.71633333%	1,129,663	364,912	1,494,575	977,497	100.0000%	(977,497)	517,077
2020	November	2,211,240	33.71633333%	745,549	240,833	986,382	1,010,235	100.0000%	(1,010,235)	(23,853)
2020	December	1,777,335	33.71633333%	599,252	193,575	792,827	2,361,186	100.0000%	(2,361,186)	(1,568,359)
		29,327,255		9,888,075	3,194,120	13,082,195	15,504,312		(15,504,312)	(2,422,117)

Vintage is overcollected. Interest is calculated on all components.

		Cumulative (Over)/Under Recovery	Current Income Tax Rate	Monthly Deferred Income Tax	Cumulative Deferred Income Tax	Net Deferred After Tax Balance	Monthly Return	Monthly A/T Return on Deferral	YTD After Tax Interest	Gross up of Return to Pretax Rate	Gross up of Return to Pretax
NC Residential DSM		1/2020 - 12/2020						6.84%	0.766497		
2020	January	206,069	0.233503	48,118	48,118	157,951	0.005700	450	450	0.766497	587
2020	February	(376,686)	0.233503	(136,075)	(87,957)	(288,729)	0.005700	(373)	77	0.766497	101
2020	March	(818,553)	0.233503	(103,177)	(191,135)	(627,418)	0.005700	(2,611)	(2,534)	0.766497	(3,305)
2020	April	(1,166,355)	0.233503	(81,213)	(272,347)	(894,008)	0.005700	(4,336)	(6,870)	0.766497	(8,962)
2020	May	(1,569,626)	0.233503	(94,165)	(366,512)	(1,203,113)	0.005700	(5,977)	(12,846)	0.766497	(16,760)
2020	June	(1,745,370)	0.233503	(41,037)	(407,549)	(1,337,821)	0.005700	(7,242)	(20,088)	0.766497	(26,208)
2020	July	(1,618,399)	0.233503	29,648	(377,901)	(1,240,498)	0.005700	(7,348)	(27,436)	0.766497	(35,794)
2020	August	(1,644,754)	0.233503	(6,154)	(384,055)	(1,260,699)	0.005700	(7,128)	(34,565)	0.766497	(45,094)
2020	September	(1,346,982)	0.233503	69,531	(314,524)	(1,032,458)	0.005700	(6,535)	(41,100)	0.766497	(53,621)
2020	October	(829,905)	0.233503	120,739	(193,785)	(636,120)	0.005700	(4,755)	(45,856)	0.766497	(59,825)
2020	November	(853,758)	0.233503	(5,570)	(199,355)	(654,403)	0.005700	(3,678)	(49,534)	0.766497	(64,623)
2020	December	(2,422,117)	0.233503	(366,216)	(565,572)	(1,856,545)	0.005700	(7,156)	(56,690)	0.766497	(73,960)
								(56,690)	(73,960)		

Note 1: Amounts represent all revenue actually collected through 2020.

Duke Energy Carolinas, LLC
Docket Number E-7 Sub 1249
Estimated Return Calculation - Non- Residential EE Programs Vintage 2020

		Non-Residential EE Program Costs Incurred	NC Allocation %	NC Allocated EE Program Costs	Program Incentives	Lost Revenues	Total Costs	NC Residential Revenue Collected	NC Non- Residential EE Program Collection %	Non-Residential EE Program Costs Revenue Collected	(Over)/Under Collection
NC Non- Residential EE		Listebarger Exhibit 5. pg 4, Line 4									
		See calc. at right									
2020	January	2,204,460	73.2212736%	1,614,134	523,420	281,338	2,418,892	1,720,718	100.0000000%	(1,720,718)	698,174
2020	February	2,217,190	73.2212736%	1,623,455	526,442	282,963	2,432,860	3,774,525	100.0000000%	(3,774,525)	(1,341,665)
2020	March	3,162,378	73.2212736%	2,315,534	750,865	403,590	3,469,988	3,438,287	100.0000000%	(3,438,287)	31,702
2020	April	2,229,853	73.2212736%	1,632,726	529,449	284,579	2,446,754	3,142,994	100.0000000%	(3,142,994)	(696,240)
2020	May	1,657,586	73.2212736%	1,213,706	393,572	211,545	1,818,822	2,931,465	100.0000000%	(2,931,465)	(1,112,643)
2020	June	1,389,931	73.2212736%	1,017,725	330,020	177,386	1,525,132	3,515,446	100.0000000%	(3,515,446)	(1,990,314)
2020	July	2,180,671	73.2212736%	1,596,715	517,771	278,302	2,392,789	4,352,391	100.0000000%	(4,352,391)	(1,959,603)
2020	August	2,384,883	73.2212736%	1,746,242	566,259	304,364	2,616,865	4,514,664	100.0000000%	(4,514,664)	(1,897,799)
2020	September	2,707,150	73.2212736%	1,982,210	642,777	345,493	2,970,479	4,239,371	100.0000000%	(4,239,371)	(1,268,892)
2020	October	3,550,217	73.2212736%	2,599,514	842,952	453,087	3,895,553	3,527,537	100.0000000%	(3,527,537)	368,016
2020	November	2,554,076	73.2212736%	1,870,127	606,431	325,957	2,802,515	3,587,755	100.0000000%	(3,587,755)	(785,239)
2020	December	3,844,177	73.2212736%	2,814,755	912,748	490,603	4,218,107	5,278,087	100.0000000%	(5,278,087)	(1,059,980)
		30,082,572		22,026,843	7,142,705	3,839,208	33,008,756	44,023,239		(44,023,239)	(11,014,483)

Vintage is overcollected. Interest
is calculated on all components.

		Cumulative (Over)/Under Recovery	Current Income Tax Rate	Monthly Deferred Income Tax	Cumulative Deferred Income Tax	Net Deferred After Tax Balance	Monthly Return	Monthly A/T Return on Deferral	YTD After Tax Interest	Gross up of Return to Pretax Rate	Gross up of Return to Pretax
NC Non-Residential EE		1/2020 - 12/2020									
		6.84%									
		0.766497									
2020	January	698,174	0.233503	163,026	163,026	535,149	0.005700	1,525	1,525	0.766497	1,990
2020	February	(643,491)	0.233503	(313,283)	(150,257)	(493,234)	0.005700	119	1,645	0.766497	2,146
2020	March	(611,789)	0.233503	7,402	(142,855)	(468,934)	0.005700	(2,742)	(1,098)	0.766497	(1,432)
2020	April	(1,308,029)	0.233503	(162,574)	(305,429)	(1,002,600)	0.005700	(4,194)	(5,291)	0.766497	(6,903)
2020	May	(2,420,671)	0.233503	(259,805)	(565,234)	(1,855,437)	0.005700	(8,145)	(13,437)	0.766497	(17,530)
2020	June	(4,410,986)	0.233503	(464,744)	(1,029,978)	(3,381,007)	0.005700	(14,924)	(28,361)	0.766497	(37,000)
2020	July	(6,370,588)	0.233503	(457,573)	(1,487,552)	(4,883,037)	0.005700	(23,553)	(51,913)	0.766497	(67,728)
2020	August	(8,268,388)	0.233503	(443,142)	(1,930,693)	(6,337,694)	0.005700	(31,979)	(83,892)	0.766497	(109,449)
2020	September	(9,537,279)	0.233503	(296,290)	(2,226,983)	(7,310,296)	0.005700	(38,897)	(122,789)	0.766497	(160,195)
2020	October	(9,169,264)	0.233503	85,933	(2,141,051)	(7,028,213)	0.005700	(40,865)	(163,654)	0.766497	(213,509)
2020	November	(9,954,503)	0.233503	(183,356)	(2,324,406)	(7,630,097)	0.005700	(41,776)	(205,430)	0.766497	(268,012)
2020	December	(11,014,483)	0.233503	(247,509)	(2,571,915)	(8,442,568)	0.005700	(45,807)	(251,237)	0.766497	(327,773)

Note 1: Amounts represent all revenue actually collected through 2019.

Duke Energy Carolinas, LLC
Docket Number E-7 Sub 1249
Estimated Return Calculation - Non - Residential DSM Programs Vintage 2020

		Total System NC DSM Program Costs Incurred	NC Non- Residential DSM Allocation %	NC Allocated DSM Non- Residential Program Costs	Program Incentives	Total Costs	NC Non-Residential DSM Revenue Collected	NC Non-Residential DSM Program Collection %	Non-Residential DSM Program Costs Revenue Collected	(Over)/Under Collection
NC Non- Residential DSM										
See Listebarger Exhibit 5 pg. 4, Line 10										
2020	January	1,802,624	40.4790117%	729,684	237,300	966,985	651,304	100.00000000%	(651,304)	315,681
2020	February	1,817,798	40.4790117%	735,827	239,298	975,124	1,510,975	100.00000000%	(1,510,975)	(535,850)
2020	March	1,735,864	40.4790117%	702,661	228,512	931,173	1,401,695	100.00000000%	(1,401,695)	(470,522)
2020	April	1,556,003	40.4790117%	629,855	204,835	834,690	1,253,949	100.00000000%	(1,253,949)	(419,259)
2020	May	1,257,677	40.4790117%	509,095	165,563	674,658	1,162,991	100.00000000%	(1,162,991)	(488,332)
2020	June	2,343,514	40.4790117%	948,631	308,504	1,257,135	1,362,014	100.00000000%	(1,362,014)	(104,879)
2020	July	3,919,340	40.4790117%	1,586,510	515,948	2,102,458	1,663,228	100.00000000%	(1,663,228)	439,231
2020	August	3,729,569	40.4790117%	1,509,693	490,967	2,000,659	1,737,950	100.00000000%	(1,737,950)	262,709
2020	September	3,825,800	40.4790117%	1,548,646	503,635	2,052,281	1,636,344	100.00000000%	(1,636,344)	415,937
2020	October	3,350,491	40.4790117%	1,356,246	441,064	1,797,310	1,379,652	100.00000000%	(1,379,652)	417,657
2020	November	2,211,240	40.4790117%	895,088	291,091	1,186,179	1,424,195	100.00000000%	(1,424,195)	(238,016)
2020	December	1,777,335	40.4790117%	719,448	233,971	953,419	2,531,189	100.00000000%	(2,531,189)	(1,577,770)
		29,327,255		11,871,383	3,860,688	15,732,071	17,715,486		(17,715,486)	(1,983,414)

Program Costs	11,871,383
Revenue Requirement	15,732,071
% Revenues related to Program Costs	75.4598%

		Cumulative (Over)/Under Recovery	Current Income Tax Rate	Monthly Deferred Income Tax	Cumulative Deferred Income Tax	Net Deferred After Tax Balance	Monthly Return	Monthly A/T Return on Deferral	YTD After Tax Interest	Gross up of Return to Pretax Rate	Gross up of Return to Pretax
NC Non-Residential DSM			1/2020 - 12/2020				6.84%			0.766497	
2020	January	315,681	0.233503	73,712	73,712	241,968	0.005700	690	690	0.766497	900
2020	February	(220,170)	0.233503	(125,123)	(51,410)	(168,760)	0.005700	209	898	0.766497	1,172
2020	March	(690,692)	0.233503	(109,868)	(161,279)	(529,413)	0.005700	(1,990)	(1,092)	0.766497	(1,424)
2020	April	(1,109,951)	0.233503	(97,898)	(259,177)	(850,774)	0.005700	(3,934)	(5,025)	0.766497	(6,556)
2020	May	(1,598,284)	0.233503	(114,027)	(373,204)	(1,225,080)	0.005700	(5,916)	(10,941)	0.766497	(14,274)
2020	June	(1,703,163)	0.233503	(24,489)	(397,694)	(1,305,469)	0.005700	(7,212)	(18,153)	0.766497	(23,683)
2020	July	(1,263,932)	0.233503	102,562	(295,132)	(968,800)	0.005700	(6,482)	(24,635)	0.766497	(32,140)
2020	August	(1,001,223)	0.233503	61,343	(233,789)	(767,434)	0.005700	(4,948)	(29,583)	0.766497	(38,595)
2020	September	(585,286)	0.233503	97,123	(136,666)	(448,620)	0.005700	(3,466)	(33,049)	0.766497	(43,117)
2020	October	(167,629)	0.233503	97,524	(39,142)	(128,487)	0.005700	(1,645)	(34,694)	0.766497	(45,263)
2020	November	(405,645)	0.233503	(55,577)	(94,719)	(310,925)	0.005700	(1,252)	(35,946)	0.766497	(46,897)
2020	December	(1,983,414)	0.233503	(368,414)	(463,133)	(1,520,281)	0.005700	(5,219)	(41,165)	0.766497	(53,705)
								(41,165)			(53,705)

Note 1: Amounts represent all revenue actually collected through 2019.

Duke Energy Carolinas, LLC
DSM/EE Actual Revenues Collected from Years 2017-2020 (By Vintage)
and Estimated 2021 Collections from Rider 12 (by Vintage)
Docket Number E-7 Sub 1249
For Vintage Year 2017-2021 Estimate and True Up Calculations

			Actual 2017 Rider 8	Actual 2018 Rider 9	Actual 2019 Rider 10	Actual 2020 Rider 11	Estimated 2021 Rider 12 ⁽¹⁾	Total
Residential								
Line	Vintage							
	EE/DSM							
1	Year 2017		61,914,541	4,435,871	35,762,325	5,089,037	(4,091,589)	103,110,185
2	Year 2018			83,631,851	6,302,019	25,272,676	2,645,710	117,852,256
3	Year 2019				77,019,837	5,261,547	29,127,751	111,409,134
4	Year 2020					67,149,413	4,495,479	71,644,893
5	Year 2021						82,430,973	82,430,973
6	Total Residential		\$ 61,914,541	\$ 88,067,722	\$ 119,084,181	\$ 102,772,673	\$ 114,608,324	\$ 486,447,441
Non-Residential								
	EE							
7	Year 2017		46,928,129	10,882,796	64,212,173	15,592,550	5,650,795	143,266,443
8	Year 2018			51,998,801	12,546,122	12,194,157	1,397,854	78,136,934
9	Year 2019				52,862,599	8,232,962	7,266,932	68,362,492
10	Year 2020					44,023,239	9,376,721	53,399,960
11	Year 2021						53,575,595	53,575,595
	DSM							
12	Year 2017		15,361,431	(1,084)	86,448	1,502	6,539	15,454,836
13	Year 2018			14,074,924	777,733	1,176,922	(243,015)	15,786,564
14	Year 2019				15,674,069	268,450	312,940	16,255,459
15	Year 2020					17,715,486	-	17,715,486
16	Year 2021						20,278,244	20,278,244
17	Total Non-Residential		\$ 62,289,560	\$ 76,955,437	\$ 146,159,143	\$ 99,205,268	\$ 97,622,605	\$ 482,232,012
18	Total Revenue		\$ 124,204,101	\$ 165,023,159	\$ 265,243,324	\$ 201,977,941	\$ 212,230,928	\$ 968,679,453

⁽¹⁾ Rider 12 estimates are based on Order issued in Docket No. E-7 Sub 1230 dated 12/11/2020.

Duke Energy Carolinas, LLC
 Vintage Year 2017 Allocation Factors for the Period January 1, 2017 - December 31, 2017
 Docket Number E-7 Sub 1249
 Allocation Factors

			MWH		
Line	New Mechanism Sales Allocator at Generator				
1	NC Retail MWH Sales Allocation	Company Records	60,219,051		
2	SC Retail MWH Sales Allocation	Company Records	22,489,484		
3	Total Retail	Line 1 + Line 2	82,708,535		
Allocation 1 to state based on kWh sales					
4	NC Retail	Line 1 / Line 3	72.8087506%		
Demand Allocators			NC	SC	Total
5	Residential	Company Records	5,545,784	1,803,958	7,349,742
6	Non Residential	Company Records	6,573,854	2,480,404	9,054,258
7	Total	Line 5 + Line 6	12,119,638	4,284,362	16,404,000
Allocation 2 to state based on peak demand					
8	NC Retail	Line 7, NC / Line 7 Total	73.8822117%		
Allocation 3 NC res vs non-res Peak Demand to retail system peak					
9	NC Residential	Line 5 NC/ Line 7 Total	33.8075104%		
10	NC Non-residential	Line 6 NC/ Line 7 Total	40.0747013%		

Duke Energy Carolinas, LLC
 Vintage Year 2018 Allocation Factors for the Period January 1, 2018 - December 31, 2018
 Docket Number E-7 Sub 1249
 Allocation Factors

			MWH		
Line	New Mechanism Sales Allocator at Generator				
1	NC Retail MWH Sales Allocation	Company Records	58,534,269		
2	SC Retail MWH Sales Allocation	Company Records	21,966,093		
3	Total Retail	Line 1 + Line 2	80,500,362		
Allocation 1 to state based on kWh sales					
4	NC Retail	Line 1 / Line 3	72.7130507%		
Demand Allocators			NC	SC	Total
5	Residential	Company Records	5,078,308	1,617,566	6,695,874
6	Non Residential	Company Records	6,549,145	2,546,981	9,096,126
7	Total	Line 5 + Line 6	11,627,453	4,164,547	15,792,000
Allocation 2 to state based on peak demand					
8	NC Retail	Line 7, NC / Line 7 Total	73.6287551%		
Allocation 3 NC res vs non-res Peak Demand to retail system peak					
9	NC Residential	Line 5 NC/ Line 7 Total	32.1574721%		
10	NC Non-residential	Line 6 NC/ Line 7 Total	41.4712829%		

Duke Energy Carolinas, LLC
 Vintage Year 2019 Allocation Factors for the Period January 1, 2019 - December 31, 2019
 Docket Number E-7 Sub 1249
 Allocation Factors

			MWH		
Line	New Mechanism Sales Allocator at Generator				
1	NC Retail MWH Sales Allocation	Company Records	62,147,533		
2	SC Retail MWH Sales Allocation	Company Records	22,880,788		
3	Total Retail	Line 1 + Line 2	85,028,321		
Allocation 1 to state based on kWh sales					
4	NC Retail	Line 1 / Line 3	73.0903918%		
Demand Allocators			NC	SC	Total
5	Residential	Company Records	5,420,002	1,681,673	7,101,675
6	Non Residential	Company Records	6,373,991	2,410,334	8,784,325
7	Total	Line 5 + Line 6	11,793,993	4,092,007	15,886,000
Allocation 2 to state based on peak demand					
8	NC Retail	Line 7, NC / Line 7 Total	74.2414264%		
Allocation 3 NC res vs non-res Peak Demand to retail system peak					
9	NC Residential	Line 5 NC/ Line 7 Total	34.1181040%		
10	NC Non-residential	Line 6 NC/ Line 7 Total	40.1233224%		

Duke Energy Carolinas, LLC
 Vintage Year 2020 Allocation Factors for the Period January 1, 2020 - December 31, 2022
 Docket Number E-7 Sub 1249
 Allocation Factors

			MWH		
Line	New Mechanism Sales Allocator at Generator				
1	NC Retail MWH Sales Allocation	Company Records	61,250,523		
2	SC Retail MWH Sales Allocation	Company Records	22,400,744		
3	Total Retail	Line 1 + Line 2	83,651,267		
Allocation 1 to state based on kWh sales					
4	NC Retail	Line 1 / Line 3	73.2212736%		
Demand Allocators			NC	SC	Total
5	Residential	Company Records	5,410,460	1,632,146	7,042,606
6	Non Residential	Company Records	6,495,667	2,508,727	9,004,394
7	Total	Line 5 + Line 6	11,906,127	4,140,873	16,047,000
Allocation 2 to state based on peak demand					
8	NC Retail	Line 7, NC / Line 7 Total	74.1953449%		
Allocation 3 NC res vs non-res Peak Demand to retail system peak					
9	NC Residential	Line 5 NC/ Line 7 Total	33.7163333%		
10	NC Non-residential	Line 6 NC/ Line 7 Total	40.4790117%		

Duke Energy Carolinas, LLC
DSM/EE Cost Recovery Rider 13
Docket Number E-7 Sub 1249
Forecasted 2022 kWh Sales for Rate Period for Vintage Years 2016-2022

Fall 2020 Sales Forecast - kWhs		Forecasted 2022 sales		
North Carolina Retail:				
Line				
1	Residential	21,909,979,810		
2	Non-Residential	36,242,826,711		
3	Total Retail	58,152,806,522		
NC Opt Out Sales		Total Usage	Opt-Outs	Net Usage
Vintage 2017 Actual Opt Out				
4	EE	36,242,826,711	18,547,704,304	17,695,122,407
5	DSM	36,242,826,711	18,245,577,699	17,997,249,012
Vintage 2018 Actual Opt Out				
6	EE	36,242,826,711	19,095,745,570	17,147,081,141
7	DSM	36,242,826,711	18,343,166,159	17,899,660,553
Vintage 2019 Actual Opt Out				
8	EE	36,242,826,711	19,231,014,137	17,011,812,574
9	DSM	36,242,826,711	18,299,190,726	17,943,635,986
Vintage 2020 Estimated Opt Out				
10	EE	36,242,826,711	19,684,483,883	16,558,342,828
11	DSM	36,242,826,711	18,254,741,506	17,988,085,206
Vintage 2021 Estimated Opt Out				
12	EE	36,242,826,711	19,640,593,176	16,602,233,535
13	DSM	36,242,826,711	18,248,487,084	17,994,339,628
Vintage 2022 Estimated Opt Out				
14	EE	36,242,826,711	19,640,593,176	16,602,233,535
15	DSM	36,242,826,711	18,248,487,084	17,994,339,628