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May 28, 2019

VIA ELECTRONIC FILING AND HAND DELIVERY

Ms. M. Lynn Jarvis Chief Clerk North Carolina Utilities Commission 4325 Mail Service Center Raleigh, North Carolina 27699-4300

Re: Duke Energy Carolinas, LLC's DSM/EE Cost Recovery Rider -

Supplemental Testimony and Exhibits

Docket No. E-7, Sub 1192

Dear Ms. Jarvis:

Enclosed for filing is Duke Energy Carolinas, LLC's Supplemental Testimony and Supplemental Exhibits of Carolyn T. Miller and Supplemental Exhibits of Robert P. Evans for filing in connection with the referenced matter. Fifteen (15) paper copies of the Supplemental Testimony and Supplemental Exhibits will be delivered to the Clerk's Office by close of business on May 29, 2019.

Please do not hesitate to contact me if you have any questions.

Sincerely,

Kendrick C. Fentress

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Enclosures

cc: Parties of Record

BEFORE THE NORTH CAROLINA UTILITIES COMMISSION

DOCKET NO. E-7, SUB 1192

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

1	$\mathbf{\Omega}$	LEASE STATE YOUR NAME AND BUSINESS ADDRESS.
	()	T.R.ASR. STATE, YOUR NAME, AND BUSINESS ADDRESS
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- 2 A. My name is Carolyn T. Miller. My business address is 550 South Tryon
- 3 Street, Charlotte, North Carolina.
- 4 Q. BY WHOM ARE YOU EMPLOYED AND IN WHAT CAPACITY?
- 5 A. I am a Rates Manager for Duke Energy Carolinas, LLC ("DEC" or the
- 6 "Company").
- 7 Q. DID YOU PREVIOUSLY FILE DIRECT TESTIMONY IN SUPPORT
- 8 OF DEC'S APPLICATION IN THIS DOCKET?
- 9 A. Yes.
- 10 Q. WHAT IS THE PURPOSE OF YOUR SUPPLEMENTAL
- 11 **TESTIMONY?**
- 12 A. The purpose of my supplemental testimony is to support the filing of
- Supplemental Exhibits that reflect revisions to Miller Exhibits 1, 2, 3 and 7
- and Evans Exhibits 1, 2 and 3 filed February 26, 2019 in this proceeding.
- These revisions are due to two corrections:
- 1. Updates to lost revenues and PPI (Program Performance
- Incentives) based on Evaluation, Measurement and Verification ("EM&V")
- 18 adjustments for Vintages 2017, 2018, 2019 and 2020.
- 19 2. Adjustments to Vintage 2018 program costs resulting from the
- 20 Public Staff of the North Carolina Utilities Commission's ("Public Staff")
- 21 program cost audit.
- 22 Q. WHY IS THE COMPANY UPDATING LOST REVENUE AND PPI
- 23 FOR VINTAGES 2017, 2018 AND 2020?

1	A.	As a result of its internal review process, the Company determined that two
2		EM&V updates were necessary. The first update is a result of an input error in
3		the HVAC Smart \$aver Evaluation Report dated May 1, 2016 - April 30
4		2017. The second update is to use lighting load shapes based on assumed
5		hours of operation instead of a ratio of hours of operation and percentage of
6		time the lights operate. The result of these two adjustments is a decrease in
7		lost revenue of (\$74,096) and an increase in PPI of \$92,837. The Public Staff
8		was notified of these necessary updates to the HVAC Smart \$aver program
9		and the lighting program. Supporting Supplemental Evans Exhibits 1 and 2
10		reflecting the adjustments are attached and subject to final Public Staff review

11 Q. WHY IS THE COMPANY REVISING VINTAGE 2018 PROGRAM

12 COSTS?

22

13 A. During the course of the Public Staff's audit of Vintage 2018 program costs, 14 the Public Staff and the Company discovered some charges that were not directly related to Demand-Side Management ("DSM") or Energy Efficiency 15 16 ("EE") programs. The Company has agreed to remove the total costs in the 17 amount of (\$280.00) from Vintage 2018 program costs. In addition, it was 18 determined that certain MYHER-related invoices totaling (\$468,240) on a 19 system basis were inadvertently misallocated. The Company is revising 20 Evans Exhibit 1, page 4 and Evans Exhibit 3, page 1 to reflect both of these 21 adjustments.

Q. HOW DO THESE CHANGES IMPACT DEC'S REQUESTED RATES?

As a result of these changes, the overall residential rate will decrease from

1		0.4848 to 0.4835 cents per kilowatt-hour ("kWh"). There are no changes to
2		non-residential rates.
3	Q.	WHAT SUPPLEMENTAL EXHIBITS WILL BE FILED IN
4		CONJUNCTION WITH YOUR SUPPLEMENTAL TESTIMONY?
5	A.	Only the exhibits impacted as a result of the changes outlined above will be
6		re-filed as Supplemental Exhibits. A description of the specific pages and
7		contents that have been revised is provided below:
8		• Supplemental Miller Exhibit 1: Summary of Rider EE Exhibits
9		and Factors
10		• Supplemental Miller Exhibit 2, page 3: Vintage 2017 True-up of
11		Year 1 and Year 2 Rate Calculation
12		• Supplemental Miller Exhibit 2, page 4: Vintage 2018 True-up of
13		Year 1 Rate Calculation
14		• Supplemental Miller Exhibit 2, page 5: Vintage 2019 Estimated
15		Year 2 Lost Revenues
16		• Supplemental Miller Exhibit 2, page 6: Vintage 2020 Estimated
17		Program Costs, Earned Incentive and Lost Revenues
18		• Supplemental Miller Exhibit 3, pages 13 through 16: Vintage
19		2018 Interest Calculations
20		• Supplemental Miller Exhibit 7: Revised Tariff Sheet
21		• Supplemental Evans Exhibit 1, page 3: Vintage 2017 Load
22		Impacts and Estimated Revenue Requirements
23		• Supplemental Evans Exhibit 1, page 4: Vintage 2018 Load

1		Impacts and Estimated Revenue Requirer	nents	
2		• Supplemental Evans Exhibit 1, page	5; Vintage	2020 Load
3		Impacts and Estimated Revenue Requirer	ments	
4		• Supplemental Evans Exhibit 2, pages 2 to	hrough 5: No	orth Carolina
5		Net Lost Revenue Estimates for Vintages	2015 - 2020	
6		• Supplemental Evans Exhibit 3, page 1:	Carolinas S	ystem Level
7		Program Costs Years 2014 through 2018		
8	Q.	WHAT ARE THE FINAL RATES RE	QUESTED	IN THE
9		APPLICATION OF DEC FOR APPROVAL OF	ITS DSM/EI	E RIDER 11
10		FOR 2020 AS A RESULT OF THESE REVISION	NS?	
11	A.	Pursuant to the provisions of N.C. Gen. Stat. § 6	2-133.9 and	Commission
12		Rule R8-69, the Company requests Commission a	approval of th	ne following
13		annual billing adjustments (all shown on a cents	per kWh bas	is, including
14		gross receipts tax and regulatory fee):		
15		Residential Billing Factors	a/leXX/le	\neg
1.		Residential Billing Factor for Rider 11	¢/kWh	
16		Prospective Components	0.3891	
17		Residential Billing Factor for Rider 11 EMF	0.0044	
18		Components	0.0944	
10				

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Non-Residential Billing Factors for Rider 11 Prospective Components	¢/kWh
Vintage 2017 EE Participant	0.0312
Vintage 2018 EE Participant	0.0549
Vintage 2019 EE Participant	0.0509

Non-Residential Billing Factors for Rider 11 Prospective Components	¢/kWh
Vintage 2020 EE Participant	0.3082
Vintage 2020 DSM Participant	0.1101

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5	Non-Residential Billing Factors EMF Component	¢/kWh
6	Vintage 2018 EE Participant	0.0278
7	Vintage 2018 DSM Participant	0.0077
8	Vintage 2017 EE Participant	0.0645
9	Vintage 2017 DSM Participant	0.0000
	Vintage 2016 EE Participant	0.0512
10	Vintage 2016 DSM Participant	0.0001
11	Vintage 2015 EE Participant	0.0064
12	Vintage 2015 DSM Participant	0.0001

13

DOES THIS CONCLUDE YOUR PRE-FILED SUPPLEMENTAL 14 Q.

TESTIMONY? 15

16 A. Yes.

Supplemental Miller Exhibit 1, page 1

Duke Energy Carolinas, LLC DSM/EE Cost Recovery Rider 11 Docket Number E-7 Sub 1192 Exhibit Summary of Rider EE Exhibits and Factors

Residential Billing Factors

			Adju	isted
	Residential Billing Factor for Rider 11 True-up (EMF) Component	ts	, iaja	.stcu
Line				
1 2	Year 2015 EE/DSM True-Up (EMF) Revenue Requirement Year 2016 EE/DSM True-Up (EMF) Revenue Requirement	Miller Exhibit 2 pg. 1 Line 15		524,656 967,614
3	Year 2017 EE/DSM True-Up (EMF) Revenue Requirement	Miller Exhibit 2 pg. 2 Line 15 Miller Exhibit 2 pg. 43Line 15		3,327,874
4	Year 2018 EE/DSM True-Up (EMF) Revenue Requirement	Miller Exhibit 2 pg 4 Line 15		15,463,399
5	Total True-up (EMF) Revenue Requirement	Sum Lines 1-4	Ś	20,283,544
6	Projected NC Residential Sales (kWh) for rate period	Miller Exhibit 6 pg. 1, Line 1	Y	21,487,301,475
7	EE/DSM Revenue Requirement EMF Residential Rider EE (cents per kWh)	Line 5 / Line 6 * 100		0.0944
	Residential Billing Factor for Rider 11 Prospective Components			
8	Vintage 2017 Total EE/DSM Prospective Amounts Revenue Requirement	Miller Exhibit 2 pg. 4, Line 1		1,751,061
9	Vintage 2018 Total EE/DSM Prospective Amounts Revenue Requirement	Miller Exhibit 2 pg. 5, Line 1		9,715,212
10	Vintage 2019 Total EE/DSM Prospective Amounts Revenue Requirement	Miller Exhibit 2 pg. 6, Line 11		5,232,466
11	Vintage 2020 Total EE/DSM Prospective Amounts Revenue Requirement			66,898,601
12	Total Prospective Revenue Requirement	Sum Lines 8-11	\$	83,597,339
	Projected NC Residential Sales (kWh) for rate period	Miller Exhibit 6 pg. 1, Line 1		21,487,301,475
14	EE/DSM Revenue Requirement Prospective Residential Rider EE (cents per kWh)	Line 12 / Line 13 * 100		0.3891
	Total Revenue Requirements in Rider 11 from Residential Customers			
15	Total True-up (EMF) Revenue Requirement	Line 5	\$	20,283,544
16	Total Prospective Revenue Requirement	Line 12		83,597,339
17	Total EE/DSM Revenue Requirement for Residential Rider EE	Line 15 + Line 16	Ś	103,880,883
1/		Line 13 + Line 10	7	100,000,000
	Total EE/DSM Revenue Requirement for Residential Rider EE (cents per kWh)	Line 7 + Line 14	Ý	0.4835
18	Total EE/DSM Revenue Requirement for Residential Rider EE (cents per kWh) Non-Residential Billing Factors for Rider 11 True-up (EMF) Comp	Line 7 + Line 14 ponents		0.4835
	Total EE/DSM Revenue Requirement for Residential Rider EE (cents per kWh) Non-Residential Billing Factors for Rider 11 True-up (EMF) Comp Vintage Year 2015 EE True-up (EMF) Revenue Requirement	Line 7 + Line 14	\$	0.4835 1,171,685
18	Total EE/DSM Revenue Requirement for Residential Rider EE (cents per kWh) Non-Residential Billing Factors for Rider 11 True-up (EMF) Comp	Line 7 + Line 14 Ponents Miller Exhibit 2 pg. 1, Line 25		0.4835
19 20 21	Non-Residential Billing Factors for Rider 11 True-up (EMF) Comp Vintage Year 2015 EE True-up (EMF) Revenue Requirement Projected Year 2015 EE Participants NC Non-Residential Sales (kwh) for rate period EE Revenue Requirement Year 2015 EMF Non-Residential Rider EE (cents per kWh) Vintage Year 2015 DSM True-up (EMF) Revenue Requirement	Line 7 + Line 14 Donents Miller Exhibit 2 pg. 1, Line 25 Miller Exhibit 6 Line 4 Line 25/Line 26 * 100 Miller Exhibit 2 pg. 1, Line 35		0.4835 1,171,685 18,371,972,219 0.0064 19,262
19 20 21 22 23	Non-Residential Billing Factors for Rider 11 True-up (EMF) Comp Vintage Year 2015 EE True-up (EMF) Revenue Requirement Projected Year 2015 EE Participants NC Non-Residential Sales (kwh) for rate period EE Revenue Requirement Year 2015 EMF Non-Residential Rider EE (cents per kWh) Vintage Year 2015 DSM True-up (EMF) Revenue Requirement Projected Year 2015 DSM Participants NC Non-Residential Sales (kwh) for rate period	Line 7 + Line 14 Ponents Miller Exhibit 2 pg. 1, Line 25 Miller Exhibit 6 Line 4 Line 25/Line 26 * 100 Miller Exhibit 2 pg. 1, Line 35 Miller Exhibit 6 Line 5	\$	1,171,685 18,371,972,219 0.0064 19,262 18,413,235,012
19 20 21	Non-Residential Billing Factors for Rider 11 True-up (EMF) Comp Vintage Year 2015 EE True-up (EMF) Revenue Requirement Projected Year 2015 EE Participants NC Non-Residential Sales (kwh) for rate period EE Revenue Requirement Year 2015 EMF Non-Residential Rider EE (cents per kWh) Vintage Year 2015 DSM True-up (EMF) Revenue Requirement	Line 7 + Line 14 Donents Miller Exhibit 2 pg. 1, Line 25 Miller Exhibit 6 Line 4 Line 25/Line 26 * 100 Miller Exhibit 2 pg. 1, Line 35	\$	0.4835 1,171,685 18,371,972,219 0.0064 19,262
19 20 21 22 23 24	Non-Residential Billing Factors for Rider 11 True-up (EMF) Comp Vintage Year 2015 EE True-up (EMF) Revenue Requirement Projected Year 2015 EE Participants NC Non-Residential Sales (kwh) for rate period EE Revenue Requirement Year 2015 EMF Non-Residential Sales (kwh) for rate period Projected Year 2015 DSM True-up (EMF) Revenue Requirement Projected Year 2015 DSM Participants NC Non-Residential Rider EE (cents per kWh) Non-Residential Sales (kwh) for rate period DSM Revenue Requirement Year 2015 EMF Non-Residential Rider EE (cents per kWh)	Miller Exhibit 2 pg. 1, Line 25 Miller Exhibit 6 Line 4 Line 25/Line 26 * 100 Miller Exhibit 2 pg. 1, Line 35 Miller Exhibit 6 Line 5 Line 28/Line 29 * 100	\$	1,171,685 18,371,972,219 0.0064 19,262 18,413,235,012 0.0001
19 20 21 22 23 24	Non-Residential Billing Factors for Rider 11 True-up (EMF) Comp Vintage Year 2015 EE True-up (EMF) Revenue Requirement Projected Year 2015 EE Participants NC Non-Residential Sales (kwh) for rate period EE Revenue Requirement Year 2015 EMF Non-Residential Rider EE (cents per kWh) Vintage Year 2015 DSM True-up (EMF) Revenue Requirement Projected Year 2015 DSM Participants NC Non-Residential Sales (kwh) for rate period DSM Revenue Requirement Year 2015 EMF Non-Residential Rider EE (cents per kWh) Vintage Year 2016 EE True-up (EMF) Revenue Requirement	Miller Exhibit 2 pg. 1, Line 25 Miller Exhibit 6 Line 4 Line 25/Line 26 * 100 Miller Exhibit 6 Line 5 Line 28/Line 29 * 100 Miller Exhibit 2 pg. 2, Line 25	\$	1,171,685 18,371,972,219 0.0064 19,262 18,413,235,012 0.0001 9,273,079
19 20 21 22 23 24	Non-Residential Billing Factors for Rider 11 True-up (EMF) Comp Vintage Year 2015 EE True-up (EMF) Revenue Requirement Projected Year 2015 EE Participants NC Non-Residential Sales (kwh) for rate period EE Revenue Requirement Year 2015 EMF Non-Residential Sales (kwh) for rate period Projected Year 2015 DSM True-up (EMF) Revenue Requirement Projected Year 2015 DSM Participants NC Non-Residential Rider EE (cents per kWh) Non-Residential Sales (kwh) for rate period DSM Revenue Requirement Year 2015 EMF Non-Residential Rider EE (cents per kWh)	Miller Exhibit 2 pg. 1, Line 25 Miller Exhibit 6 Line 4 Line 25/Line 26 * 100 Miller Exhibit 2 pg. 1, Line 35 Miller Exhibit 6 Line 5 Line 28/Line 29 * 100	\$	1,171,685 18,371,972,219 0.0064 19,262 18,413,235,012 0.0001
19 20 21 22 23 24 25 26 27 28	Non-Residential Billing Factors for Rider 11 True-up (EMF) Comp Vintage Year 2015 EE True-up (EMF) Revenue Requirement Projected Year 2015 EE Participants NC Non-Residential Sales (kwh) for rate period EE Revenue Requirement Year 2015 EMF Non-Residential Rider EE (cents per kWh) Vintage Year 2015 DSM True-up (EMF) Revenue Requirement Projected Year 2015 DSM Participants NC Non-Residential Sales (kwh) for rate period DSM Revenue Requirement Year 2015 EMF Non-Residential Rider EE (cents per kWh) Vintage Year 2016 EE True-up (EMF) Revenue Requirement Projected Year 2016 EE Porticipants NC Non-Residential Sales (kwh) for rate period EE Revenue Requirement Year 2016 EMF Non-Residential Sales (kwh) for rate period EE Revenue Requirement Year 2016 EMF Non-Residential Rider EE (cents per kWh) Vintage Year 2016 DSM True-up (EMF) Revenue Requirement	Miller Exhibit 2 pg. 1, Line 25 Miller Exhibit 6 Line 4 Line 25/Line 26 * 100 Miller Exhibit 6 Line 35 Miller Exhibit 6 Line 5 Line 28/Line 29 * 100 Miller Exhibit 2 pg. 2, Line 25 Miller Exhibit 6 Line 6 Line 31/Line 32 * 100 Miller Exhibit 2 pg. 2, Line 35	\$	1,171,685 18,371,972,219 0.0064 19,262 18,413,235,012 0.0001 9,273,079 18,126,497,772 0.0512
19 20 21 22 23 24 25 26 27 28 29	Non-Residential Billing Factors for Rider 11 True-up (EMF) Comp Vintage Year 2015 EE True-up (EMF) Revenue Requirement Projected Year 2015 EE Participants NC Non-Residential Sales (kwh) for rate period EE Revenue Requirement Year 2015 EMF Non-Residential Sales (kwh) for rate period Unitage Year 2015 DSM True-up (EMF) Revenue Requirement Projected Year 2015 DSM Participants NC Non-Residential Sales (kwh) for rate period DSM Revenue Requirement Year 2015 EMF Non-Residential Rider EE (cents per kWh) Vintage Year 2016 EE True-up (EMF) Revenue Requirement Projected Year 2016 EE Participants NC Non-Residential Sales (kwh) for rate period EE Revenue Requirement Year 2016 EMF Non-Residential Sales (kwh) for rate period EE Revenue Requirement Year 2016 EMF Non-Residential Rider EE (cents per kWh) Vintage Year 2016 DSM True-up (EMF) Revenue Requirement Projected Year 2016 DSM Participants NC Non-Residential Sales (kwh) for rate period	Miller Exhibit 2 pg. 1, Line 25 Miller Exhibit 6 Line 4 Line 25/Line 26 * 100 Miller Exhibit 6 Line 3 Miller Exhibit 6 Line 5 Line 28/Line 29 * 100 Miller Exhibit 2 pg. 2, Line 25 Miller Exhibit 6 Line 6 Line 31/Line 32 * 100 Miller Exhibit 2 pg. 2, Line 35 Miller Exhibit 6 Line 6 Line 31/Line 32 * 100	\$ \$	1,171,685 18,371,972,219 0.0064 19,262 18,413,235,012 0.0001 9,273,079 18,126,497,772 0.0512 14,674 18,166,831,506
19 20 21 22 23 24 25 26 27 28	Non-Residential Billing Factors for Rider 11 True-up (EMF) Comp Vintage Year 2015 EE True-up (EMF) Revenue Requirement Projected Year 2015 EE Participants NC Non-Residential Sales (kwh) for rate period EE Revenue Requirement Year 2015 EMF Non-Residential Rider EE (cents per kWh) Vintage Year 2015 DSM True-up (EMF) Revenue Requirement Projected Year 2015 DSM Participants NC Non-Residential Sales (kwh) for rate period DSM Revenue Requirement Year 2015 EMF Non-Residential Rider EE (cents per kWh) Vintage Year 2016 EE True-up (EMF) Revenue Requirement Projected Year 2016 EE Porticipants NC Non-Residential Sales (kwh) for rate period EE Revenue Requirement Year 2016 EMF Non-Residential Sales (kwh) for rate period EE Revenue Requirement Year 2016 EMF Non-Residential Rider EE (cents per kWh) Vintage Year 2016 DSM True-up (EMF) Revenue Requirement	Miller Exhibit 2 pg. 1, Line 25 Miller Exhibit 6 Line 4 Line 25/Line 26 * 100 Miller Exhibit 6 Line 35 Miller Exhibit 6 Line 5 Line 28/Line 29 * 100 Miller Exhibit 2 pg. 2, Line 25 Miller Exhibit 6 Line 6 Line 31/Line 32 * 100 Miller Exhibit 2 pg. 2, Line 35	\$ \$	1,171,685 18,371,972,219 0.0064 19,262 18,413,235,012 0.0001 9,273,079 18,126,497,772 0.0512
19 20 21 22 23 24 25 26 27 28 29 30	Non-Residential Billing Factors for Rider 11 True-up (EMF) Composition of the Composition	Miller Exhibit 2 pg. 1, Line 25 Miller Exhibit 6 Line 4 Line 25/Line 26 * 100 Miller Exhibit 6 Line 5 Line 28/Line 29 * 100 Miller Exhibit 6 Line 5 Line 28/Line 29 * 100 Miller Exhibit 6 Line 6 Line 31/Line 32 * 100 Miller Exhibit 2 pg. 2, Line 35 Miller Exhibit 6 Line 7 Line 34/Line 35 * 100 Miller Exhibit 6 Line 7 Line 34/Line 35 * 100	\$ \$	1,171,685 18,371,972,219 0.0064 19,262 18,413,235,012 0.0001 9,273,079 18,126,497,772 0.0512 14,674 18,166,831,506 0.0001 11,550,961
19 20 21 22 23 24 25 26 27 28 29 30	Non-Residential Billing Factors for Rider 11 True-up (EMF) Compositions of the Composition of the Compositio	Miller Exhibit 2 pg. 1, Line 25 Miller Exhibit 6 Line 4 Line 25/Line 26 * 100 Miller Exhibit 6 Line 5 Line 28/Line 29 * 100 Miller Exhibit 6 Line 5 Line 28/Line 29 * 100 Miller Exhibit 6 Line 6 Line 31/Line 32 * 100 Miller Exhibit 6 Line 7 Line 34/Line 35 * 100 Miller Exhibit 6 Line 7 Line 34/Line 35 * 100 Miller Exhibit 6 Line 7 Line 34/Line 35 * 100 Miller Exhibit 6 Line 7 Line 34/Line 35 * 100	\$ \$	1,171,685 18,371,972,219 0.0064 19,262 18,413,235,012 0.0001 9,273,079 18,126,497,772 0.0512 14,674 18,166,831,506 0.0001 11,550,961 17,918,240,840
19 20 21 22 23 24 25 26 27 28 29 30	Non-Residential Billing Factors for Rider 11 True-up (EMF) Composition of the Composition	Miller Exhibit 2 pg. 1, Line 25 Miller Exhibit 6 Line 4 Line 25/Line 26 * 100 Miller Exhibit 6 Line 5 Line 28/Line 29 * 100 Miller Exhibit 6 Line 5 Line 28/Line 29 * 100 Miller Exhibit 6 Line 6 Line 31/Line 32 * 100 Miller Exhibit 2 pg. 2, Line 35 Miller Exhibit 6 Line 7 Line 34/Line 35 * 100 Miller Exhibit 6 Line 7 Line 34/Line 35 * 100	\$ \$	1,171,685 18,371,972,219 0.0064 19,262 18,413,235,012 0.0001 9,273,079 18,126,497,772 0.0512 14,674 18,166,831,506 0.0001 11,550,961
19 20 21 22 23 24 25 26 27 28 29 30	Non-Residential Billing Factors for Rider 11 True-up (EMF) Compositions of the Composition of the Compositio	Miller Exhibit 2 pg. 1, Line 25 Miller Exhibit 6 Line 4 Line 25/Line 26 * 100 Miller Exhibit 6 Line 5 Line 28/Line 29 * 100 Miller Exhibit 6 Line 5 Line 28/Line 29 * 100 Miller Exhibit 6 Line 6 Line 31/Line 32 * 100 Miller Exhibit 6 Line 7 Line 34/Line 35 * 100 Miller Exhibit 6 Line 7 Line 34/Line 35 * 100 Miller Exhibit 6 Line 7 Line 34/Line 35 * 100 Miller Exhibit 6 Line 7 Line 34/Line 35 * 100	\$ \$	1,171,685 18,371,972,219 0.0064 19,262 18,413,235,012 0.0001 9,273,079 18,126,497,772 0.0512 14,674 18,166,831,506 0.0001 11,550,961 17,918,240,840
19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35	Non-Residential Billing Factors for Rider 11 True-up (EMF) Composition of the Composition	Miller Exhibit 2 pg. 1, Line 25 Miller Exhibit 6 Line 4 Line 25/Line 26 * 100 Miller Exhibit 6 Line 3 Miller Exhibit 6 Line 5 Line 28/Line 29 * 100 Miller Exhibit 6 Line 5 Line 28/Line 29 * 100 Miller Exhibit 6 Line 6 Line 31/Line 32 * 100 Miller Exhibit 6 Line 7 Line 34/Line 35 * 100 Miller Exhibit 6 Line 7 Line 34/Line 35 * 100 Miller Exhibit 6 Line 8 Line 37/Line 38 * 100 Miller Exhibit 6 Line 8 Line 37/Line 38 * 100 Miller Exhibit 6 Line 8 Line 37/Line 38 * 100 Miller Exhibit 2 pg. 3, Line 35 Miller Exhibit 6 Line 9	\$ \$ \$ \$	1,171,685 18,371,972,219 0.0064 19,262 18,413,235,012 0.0001 9,273,079 18,126,497,772 0.0512 14,674 18,166,831,506 0.0001 11,550,961 17,918,240,840 0.0645
19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34	Non-Residential Billing Factors for Rider 11 True-up (EMF) Composition of the Composition	Miller Exhibit 2 pg. 1, Line 25 Miller Exhibit 6 Line 4 Line 25/Line 26 * 100 Miller Exhibit 6 Line 5 Line 28/Line 29 * 100 Miller Exhibit 6 Line 5 Line 28/Line 29 * 100 Miller Exhibit 6 Line 6 Line 31/Line 32 * 100 Miller Exhibit 6 Line 7 Line 34/Line 35 * 100 Miller Exhibit 6 Line 7 Line 34/Line 35 * 100 Miller Exhibit 6 Line 8 Line 37/Line 38 * 100 Miller Exhibit 6 Line 8 Line 37/Line 38 * 100 Miller Exhibit 6 Line 8 Line 37/Line 38 * 100 Miller Exhibit 2 pg. 3, Line 35	\$ \$ \$ \$	1,171,685 18,371,972,219 0.0064 19,262 18,413,235,012 0.0001 9,273,079 18,126,497,772 0.0512 14,674 18,166,831,506 0.0001 11,550,961 17,918,240,840 0.0645

Supplmental Miller Exhibit 1, page 2	2
Supplifiental Willer Exhibit 1, page 2	-

37 38	Vintage Year 2018 EE True-up (EMF) Revenue Requirement Projected Year 2018 EE Participants NC Non-Residential Sales (kwh) for rate period	Miller Exhibit 2 pg. 4, Line 25 Miller Exhibit 6 Line 10	\$ 4,814,662 17,320,957,422
39	EE Revenue Requirement Year 2018 EMF Non-Residential Rider EE (cents per kWh)	Line 37/Line 38 * 100	0.0278
40	Vintage Year 2018 DSM True-up (EMF) Revenue Requirement	Miller Exhibit 2 pg. 4, Line 35	\$ 1,398,093
41	Projected Year 2018 DSM Participants NC Non-Residential Sales (kwh) for rate period	Miller Exhibit 6 Line 11	18,056,545,344
42	DSM Revenue Requirement Year 2018 EMF Non-Residential Rider EE (cents per kWh)	Line 40/Line 41 * 100	0.0077
	Non-Residential Billing Factors for Rider 11 Prospective Components		
43	Vintage Year 2017 EE Prospective Amounts Revenue Requirement	Miller Exhibit 2 pg. 3, Line 25	\$ 5,593,790
44	Projected Program Year 2017 EE Participants NC Non-Residential Sales (kwh) for rate period	Miller Exhibit 6 Line 8	17,918,240,840
45	EE Revenue Requirement Vintage 2017 Prospective Component for Non-Residential Rider EE (cents per kWh)	Line 43/Line 44 * 100	0.0312
46	Vintage Year 2018 EE Prospective Amounts Revenue Requirement	Miller Exhibit 2 pg. 4, Line 25	\$ 9,507,185
47	Projected Vintage 2018 EE Participants NC Non-Residential Sales (kwh) for rate period	Miller Exhibit 6 Line 10	17,320,957,422
48	EE Revenue Requirement Vintage 2018 Prospective Component for Non-Residential Rider EE (cents per kWh)	Line 46/Line 47 * 100	0.0549
49	Vintage Year 2019 EE Prospective Amounts Revenue Requirement	Miller Exhibit 2 pg. 5, Line 4	\$ 8,746,000
50	Projected Vintage 2019 EE Participants NC Non-Residential Sales (kwh) for rate period	Miller Exhibit 6 Line 12	17,184,515,812
51	EE Revenue Requirement Vintage 2019 Prospective Component for Non-Residential Rider EE (cents per kWh)	Line 49/Line 50 * 100	0.0509
52	Vintage Year 2020 EE Prospective Amounts Revenue Requirement	Miller Exhibit 2 pg. 6, Line 18	\$ 52,968,365
53	Projected Vintage 2020 EE Participants NC Non-Residential Sales (kwh) for rate period	Miller Exhibit 6 Line 14	17,184,515,812
54	EE Revenue Requirement Vintage 2020 Prospective Component for Non-Residential Rider EE (cents per kWh)	Line 52/Line 53 * 100	0.3082
55	Vintage Year 2020 DSM Prospective Amounts Revenue Requirement	Miller Exhibit 2 pg. 6, Line 25	\$ 19,931,130
56	Projected Vintage 2020 DSM Participants NC Non-Residential Sales (kwh) for rate period	Miller Exhibit 6 Line 15	18,099,339,344
57	DSM Revenue Requirement Vintage 2020 Prospective Component for Non-Residential Rider EE (cents per kWh)	Line 55/Line 56 * 100	0.1101
	Total EMF Rate		0.1578
	Total Prospective Rate		0.5553
	Total Revenue Requirements in Rider 11 from Non-Residential Customers		
58	Vintage Year 2015 EE True-up (EMF) Revenue Requirement	Line 19	1,171,685
59	Vintage Year 2015 DSM True-up (EMF) Revenue Requirement	Line 22	19,262
60	Vintage Year 2016 EE True-up (EMF) Revenue Requirement	Line 25	9,273,079
61		Line 28	14,674
62	Vintage Year 2017 EE True-up (EMF) Revenue Requirement	Line 31 Line 34	11,550,961
63 64	Vintage Year 2017 DSM True-up (EMF) Revenue Requirement Vintage Year 2018 EE True-up (EMF) Revenue Requirement	Line 34 Line 37	1,084 4,814,662
65	Vintage Year 2018 DSM True-up (EMF) Revenue Requirement	Line 40	1,398,093
64	Vintage Year 2017 EE Prospective Amounts Revenue Requirement	Line 43	5,593,790
65	Vintage Year 2018 EE Prospective Amounts Revenue Requirement	Line 46	9,507,185
66	Vintage Year 2019 EE Prospective Amounts Revenue Requirement	Line 49	8,746,000
67	Vintage Year 2020 EE Prospective Amounts Revenue Requirement	Line 52	52,968,365
68	Vintage Year 2020 DSM Prospective Amounts Revenue Requirement	Line 55	19,931,130
	Total Non-Residential Revenue Requirement in Rider 11	Sum (Lines 58-68)	\$ 124,989,970
	·		

Duke Energy Carolinas, LLC Docket No. E-7, Sub 1192 True Up of Year 1, 2, 3 and 4 of Vintage Year 2015

RESIDENTIAL **Energy Efficiency Programs**

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Line	
1	Residential EE Program Cost

2 Residential EE Earned Utility Incentive 3 Return on undercollection of Residential EE Program Costs

4 Total EE Program Cost and Incentive Components

5 Residential DSM Program Cost

6 Residential DSM Earned Utility Incentive

7 Return on undercollection of Residential DSM Program Costs

8 Total DSM Program Cost and Incentive Components

9 Total EE/DSM Program Cost and Incentive Components 10 Revenue-related taxes and regulatory fees factor **

11 Total EE/DSM Program Cost and Incentive Revenue Requirement

12 Residential Net Lost Revenues

13 Total Residential EE/DSM Revenue Requirement

14 Total Collected for Vintage Year 2015 (through estimated Rider 10)

15 Total Residential EE/DSM Revenue Requirement

Reference Evans Exhibit 1 pg. 1, Line 10 * NC Alloc. Factor Evans Exhibit 1 pg. 1, Line 10 * NC Alloc. Factor Miller Exhibit 3 pg 1 Line 1 + Line 2 + line 3 Evans Exhibit 1 pg. 1, Line 11 * NC Alloc. Factor Evans Exhibit 1 pg. 1, Line 11 * NC Alloc. Factor Miller Exhibit 3 pg 2 Line 5 + Line 6 + Line 7 Line 4 + Line 8 Miller Exhibit 2, pg. 7 Line 9 * Line 10 Evans Exhibit 2 pg. 1 Line 11 + Line 12

Miller Exhibit 4 Line 2

Line 13 - Line 14

E-7 Sub 1050	E-7 Sub 1073	E-7 Sub 1105	E-7 Sub 1105	E-7 Sub 1130	E-7 Sub 1130	E-7 Sub 1164	E-7 Sub 1192	
Rider 6 Original	Rider 7 Year 2	Rider 8 True up	Rider 8 Year 3	Rider 9 True up of Lost Revenues &	Rider 9 Year 4	Rider 10 True	Rider 11 True	
Estimate	Lost Revenues	of Year 1	Lost Revenues	EM&V	LR Estimate	up	up	Year 2015
\$ 30,685,449		\$ (2,726,335)		\$ -		\$ -		\$ 27,959,114
2,374,641		2,431,922		125,671		-		4,932,234
_,,		49,064		77,792		35,939	(5,811)	
33,060,090		(245,348)		203,463		35,939	(5,811)	33,048,33
12,532,432		(2,137,589)		(1,252)		(0)		10,393,59
3,275,217		(676,007)		(12,280)		(532)		2,586,39
		(10,786)		23,451		11,838	304	24,80
15,807,649		(2,824,381)		9,919		11,306	304	13,004,79
48,867,739		(3,069,730)		213,382		47,245	(5,507)	46,053,12
1.001417		1.001402		1.001402		1.001402	1.001402	
48,936,985		(3,074,034)		213,681		47,310	(5,515)	46,118,42
9,169,840	4,071,955	5,563,184	8,090,365	4,191,232	3,431,636	(1,336,510)	959,114	34,140,81
58,106,825	4,071,955	2,489,151	8,090,365	4,404,913	3,431,636	(1,289,200)	953,599	80,259,243
								79,734,588
		1	1	1	1		1	\$ 524,656

See Miller Exhibit A for rate

NON-RESIDENTIAL Energy Efficiency Programs

	16	Non- Residential EE Pr	ogram Cost
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17 Non-Residential EE Earned Utility Incentive

18 Return on undercollection of Non-residential EE Program Costs

19 Total EE Program Cost and Incentive Components

20 Revenue-related taxes and regulatory fees factor

21 Total Non-Residential EE Program Cost and Incentive Revenue Requirements

22 Non-Residential Net Lost Revenues

23 Total Non-Residential EE Revenue Requirement

24 Total Collected for Year 2015 (through estimated Rider 10)

25 Non-Residential FF Revenue Requirement 26 Projected NC Residential Sales (kWh)

27 NC Non-Residential EE billing factor (Cents/kWh)

Reference Evans Exhibit 1 pg. 1, Line 24 * NC Alloc. Factor Evans Exhibit 1 pg. 1, Line 24 * NC Alloc. Factor Miller Exhibit 3 page 3 Line 16 + Line 17 + Line 18 Miller Exhibit 2, pg. 7 Line 19 * Line 20 Evans Exhibit 2 pg. 1 Line 21 + Line 22 Miller Exhibit 4 Line 7 Line 23 - Line 24 Miller Exhibit 6. Line 4

Line 25/Line 26*100

Rider 6 Original Estimate	Rider 7 Year 2 Lost Revenues	Rider 8 True up of Year 1	Rider 8 Year 3 Lost Revenues	Rider 9 True up of Lost Revenues & EM&V	Year 2015 Year 4 LR Estimate	Rider 10 True Up	Rider 11 True up	Year 2015
17,348,807		11,904,051		0		-		29,252,858
6,214,226		3,351,028		846,899		(594,998)		9,817,155
		457,891		838,299		448,315	67,376	1,811,881
23,563,033		15,712,970		1,685,198		(146,683)	67,376	40,881,894
1.001417		1.001402		1.001402		1.001402	1.001402	
23,596,422		15,735,000		1,687,561		(146,889)	67,470	40,939,564
2,523,480	8,194,003	2,547,914	9,483,428	2,426,543	4,183,188	(3,671,147)	1,078,554	26,765,963
26,119,902	8,194,003	18,282,914	9,483,428	4,114,104	4,183,188	(3,818,036)	1,146,025	67,705,528
								66,533,843
								1,171,685
								18,371,972,219

DSM Programs

28	Non	-Re	side	ntial	DSM	Program	Cost
		_					

29 Non-Residential DSM Earned Utility Incentive

30 Return on overcollection of Non-residential DSM Program Costs

31 Total Non-Residential DSM Program Cost and Incentive Components

32 Revenue-related taxes and regulatory fees factor

33 Total Non-Residential DSM Revenue Requirement

34 Total Revenue Collected for Year 2015 (through estimated Rider 10)

35 Non-Residential DSM Revenue Requirement True-up Amount

36 Projected NC Non-Residential Sales (kWh)

37 NC Non-Residential DSM billing factor

Reference

Evans Exhibit 1, pg. 1 Line 25 * NC Alloc. Factor Evans Exhibit 1, pg. 1 Line 25 * NC Alloc. Factor Miller Exhibit 3 page 4 Line 28 + Line 29 + Line 30 Miller Exhibit 2, pg. 7 Line 31 * Line 32 Miller Exhibit 4 Line 12 Line 33- Line 34 Miller Exhibit 6 Line 5 Line 35/Line 36*100

E-7 Sub 1050	E-7 Sub 1005	E-7 Sub 1130	E-7 Sub 1164	E-7 Sub 1192	
Rider 6 Original Estimate	Rider 8 Original True Up	Rider 9 True Up	Rider 10 True Up	Rider 11 True	Year 2015
16,493,488	(2,925,873)		ОР	up	13,565,981
4,310,397	(917,841)		(693)		3,375,833
	(107,297)	(203,069)	(128,531)	(12,427)	(451,324)
20,803,885	(3,951,011)	(220,733)	(129,224)	(12,427)	16,490,490
1.001417	1.001402	1.001402	1.001402	1.001402	
20,833,364	(3,956,550)	(221,042)	(129,405)	(12,445)	16,513,922
					16,494,660
					19,262
					18,413,235,012
					0.0001

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

Duke Energy Carolinas, LLC Docket No. E-7, Sub 1192 True Up of Year 1, 2 and 3 for Vintage Year 2016

RESIDENTIAL Energy Efficiency Programs

		E-7 Sub 1073	E-7 Sub 1105	E-7 Sub 1130	E-7 Sub 1130	E-7 Sub 1164	E-7 Sub 1192	
Line _	Reference	Rider 7 Original Estimate	Rider 8 Year 2 Lost Revenues	Rider 9 True up (Year 1)	Year 2016 Yr 3 LR Estimate	Rider 10 True up (Year 2)	Rider 11 True Up (Year 3)	Year 2016
1 Residential EE Program Cost	Evans Exhibit 1 pg. 2, Line 10 * NC Alloc. Factor	\$ 31,056,079		\$ 8,965,024		\$ (2)		\$ 40,021,101
Residential EE Earned Utility Incentive Return on undercollection of Residential EE Program Costs	Evans Exhibit 1 pg. 2, Line 10 * NC Alloc. Factor Miller Exhibit 3 pg 5	2,392,652		4,361,799 272,476		(52,098) 710,786	430,926	6,702,353 1,414,188
4 Total EE Program Cost and Incentive Components 5 Residential DSM Program Cost	Line 1 + Line 2 + line 3 Evans Exhibit 1 pg. 2, Line 11 * NC Alloc. Factor	33,448,731 10,613,016		13,599,299 (1,012,441)		658,686 0	430,926	48,137,642 9,600,575
6 Residential DSM Earned Utility Incentive 7 Return on overcollection of Residential DSM Program Costs	Evans Exhibit 1 pg. 2, Line 11 * NC Alloc. Factor Miller Exhibit 3 pg 6	2,887,418		(129,612) (26,322)		(27,890) (46,199)	(39,872)	2,729,916 (112,393)
8 Total DSM Program Cost and Incentive Components	Line 5 + Line 6 + Line 7	13,500,434		(1,168,375)		(74,089)	(39,872)	12,218,099
9 Total EE/DSM Program Cost and Incentive Components 10 Revenue-related taxes and regulatory fees factor **	Line 4 + Line 8 Miller Exhibit 2, pg. 7	46,949,165 1.001442		12,430,924 1.001402		584,597 1.001402	391,055 1.001402	60,355,741
11 Total EE/DSM Program Cost and Incentive Revenue Requirement 12 Residential Net Lost Revenues	Line 9 * Line 10 Evans Exhibit 2 pg. 2	47,016,866 11,873,767	5,723,916	12,448,352 4,795,359	7,765,323	585,417 (3,299,616)	391,603 1,969,313	60,442,238 28,828,063
 13 Total Residential EE/DSM Revenue Requirement 14 Total Collected for Vintage Year 2016 (through estimated Rider 10) 	Line 11 + Line 12 Miller Exhibit 4 Line 2	58,890,633	5,723,916	17,243,711	7,765,323	(2,714,199)	2,360,916	89,270,300 88,302,686
15 Total Residential EE/DSM Revenue Requirement	Line 11 + Line 12							\$ 967,614

See Miller Exhibit A for rate

NON-RESIDENTIAL Energy Efficiency Programs

			E-7 Sub 1073	E-7 Sub 1105	E-7 Sub 1130	E-7 Sub 1130	E-7 Sub 1164	E-7 Sub 1192	
		Reference	Rider 7 Original Estimate		Year 1 True up		Rider 10 True up (Year 2)	Rider 11 True Up (Year 3)	Year 2016
16	Non- Residential EE Program Cost	Evans Exhibit 1 pg. 2, Line 25 * NC Alloc. Factor	36,494,611		13,515,376		1		50,009,988
17	Non-Residential EE Earned Utility Incentive	Evans Exhibit 1 pg. 2, Line 25 * NC Alloc. Factor	10,105,721		4,261,607		(353,368)		14,013,960
18	Return on undercollection of Non-residential EE Program Costs	Miller Exhibit 3 page 7			378,293		1,051,375	731,576	2,161,244
19	Total EE Program Cost and Incentive Components	Line 16 + Line 17 + Line 18	46,600,332		18,155,276		698,008	731,576	66,185,192
20	Revenue-related taxes and regulatory fees factor	Miller Exhibit 2, pg. 7	1.001442		1.001402		1.001402	1.001402	
21	Total Non-Residential EE Program Cost and Incentive Revenue Requirements	Line 19 * Line 20	46,667,530		18,180,730		698,987	732,602	66,279,848
22	Non-Residential Net Lost Revenues	Evans Exhibit 2 pg. 2	4,745,315	8,309,444	2,524,047	13,375,187	(4,085,026)	6,383,046	31,252,013
23	Total Non-Residential EE Revenue Requirement	Line 21 + Line 22	51,412,845	8,309,444	20,704,776	13,375,187	(3,386,039)	7,115,648	97,531,860
24	Total Collected for Vintage Year 2016 (through estimated Rider 10)	Miller Exhibit 4 Line 8							88,258,782
25	Non-Residential EE Revenue Requirement	Line 23 - Line 24							9,273,079
26	Projected NC Residential Sales (kWh)	Miller Exhibit 6, Line 6							18,126,497,772
27	NC Non-Residential EE billing factor (Cents/kWh)	Line 25/Line 26*100					,		0.0512

DSM Programs

		Reference
28	Non-Residential DSM Program Cost	Evans Exhibit 1, pg. 2 Line 26 * NC Alloc. Factor
29	Non-Residential DSM Earned Utility Incentive	Evans Exhibit 1, pg. 2 Line 26 * NC Alloc. Factor
30	Return on undercollection of Non-residential DSM Program Costs	Miller Exhibit 3 page 8
31	Total Non-Residential DSM Program Cost and Incentive Components	Line 28 + Line 29 + Line 30
32	Revenue-related taxes and regulatory fees factor	Miller Exhibit 2, pg. 7
33	Total Non-Residential DSM Revenue Requirement	Line 31 * Line 32
34	Total Collected for Vintage Year 2016 (through estimated Rider 10)	Miller Exhibit 4 Line 13
35	Non-Residential EE Revenue Requirement True-up Amount	Line 33- Line 34
36	Projected NC Non-Residential Sales (kWh)	Miller Exhibit 6, Line 7
37	NC Non-Residential DSM billing factor	Line 35/Line 36*100

	E-7 Sub 1192	E-7 Sub 1164	E-7 Sub 1130	E-7 Sub 1073
Year 2016	Rider 11 True Up (Year 3)	Rider 10 True Up	Rider 9 True up	Rider 7 Original Estimate
11,594,49		0	(1,261,413)	12,855,910
3,296,88		(33,683)	(167,059)	3,497,628
(90	(6,087)	3,420	1,759	
14,890,47	(6,087)	(30,262)	(1,426,713)	16,353,538
	1.001402	1.001402	1.001402	1.001442
14,912,00	(6,095)	(30,305)	(1,428,713)	16,377,120
14,897,33				
14,67				
18,166,831,50				
0.000				

- * Year 4 Projected Lost Revenue is not being requested in this filing because lost revenue through the test period of Docket E7 Sub XXXX was requested as part of base rates.
- ** Actual regulatory fee rate in effect in year of collection. May differ from original filed estimates.

Duke Energy Carolinas, LLC Docket No. E-7, Sub 1192 Estimated Year 4 Lost Revenue and True Up of Year 1 and 2 for Vintage Year 2017

RESIDENTIAL Energy Efficiency Programs

Line	<u> </u>	Reference	 r 2017 Yr 4 t Estimate
1	Residential EE Program Cost	vans Exhibit 1 pg. 3, Line 10 * NC Alloc. Factor	
2	Residential EE Earned Utility Incentive	vans Exhibit 1 pg. 3, Line 10 * NC Alloc. Factor	
3	Return on undercollection of Residential EE Program Costs	Miller Exhibit 3 pg 9	
4	Total EE Program Cost and Incentive Components	Line 1 + Line 2 + line 3	
5	Residential DSM Program Cost	vans Exhibit 1 pg. 3, Line 11 * NC Alloc. Factor	
6	Residential DSM Earned Utility Incentive	vans Exhibit 1 pg. 3, Line 11 * NC Alloc. Factor	
7	Return on undercollection of Residential DSM Program Costs	Miller Exhibit 3 pg 10	
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 **	Miller 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. 2	\$ 1,751,061
13	Total Residential EE/DSM Revenue Requirement	Line 11 + Line 12	1,751,061
14	Total Collected for Vintage Year 2017 (through estimated Rider 10)	Miller Exhibit 4 Line 3	
15	Total Residential EE/DSM Revenue Requirement	Line 11 + Line 12	\$ 1,751,061

	E-7 Sub 1192	E-7 Sub 1164	E-7 Sub 1164	E-7 Sub 1130	E-7 Sub 1105
Year 2017	Rider 11 True Up	Year 2017 Year 3 Estimate	Rider 10 True up	Year 2017 Yr 2 LR Estimate	Rider 8 Year 1 Estimate
47,487,859	\$ \$ -		\$ 13,998,885		\$ 33,488,974
8,238,346	(250,931)		4,340,033		4,149,244
1,748,749	1,226,138		522,611		
57,474,954	975,207		18,861,529		37,638,218
10,082,296	-		(176,455)		10,258,751
2,926,195	-		89,061		2,837,134
27,897	12,882		15,015		
13,036,388	12,882		(72,379)		13,095,885
70,511,342	988,088		18,789,150		50,734,103
	1.001402		1.001402		1.001482
70,614,257	989,474		18,815,493		50,809,291
34,834,107	2,572,270	8,904,587	6,456,129	4,202,002	12,699,119
105,448,364	3,561,743	8,904,587	25,271,622	4,202,002	63,508,411
102,120,490					
3,327,874	\$				

See Miller Exhibit A for rate

NON-RESIDENTIAL Energy Efficiency Programs

			Year 2017 Yr 3
		Reference	LR Estimate
16	Non- Residential EE Program Cost	Evans Exhibit 1 pg. 3, Line 25 * NC Alloc. Factor	
17	Non-Residential EE Earned Utility Incentive	Evans Exhibit 1 pg. 3, Line 25 * NC Alloc. Factor	
18	Return on undercollection of Non-residential EE Program Costs	Miller Exhibit 3 page 7	
19	Total EE Program Cost and Incentive Components	Line 16 + Line 17 + Line 18	
20	Revenue-related taxes and regulatory fees factor	Miller 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. 2	5,593,790
23	Total Non-Residential EE Revenue Requirement	Line 21 + Line 22	5,593,790
24	Total Collected for Vintage Year 2017 (through estimated Rider 10)	Miller Exhibit 4 Line 9	
25	Non-Residential EE Revenue Requirement	Line 23 - Line 24	5,593,790
26	Projected NC Residential Sales (kWh)	Miller Exhibit 6, pg. 1, Line 8	17,918,240,840
27	NC Non-Residential EE billing factor (Cents/kWh)	Line 25/Line 26*100	0.0312

E-7 Sub 1105	E-7 Sub 1130	E-7 Sub 1164	E-7 Sub 1164	E-7 Sub 1192	
Rider 8 Year 1 Estimate	Year 2017 Yr 2 LR Estimate	Rider 10 True up	Year 2017 Year 3 Estimate	Rider 11 True Up	Year 2017
38,791,601		32,155,814		-	70,947,415
9,347,504		9,073,243		3,304,511	21,725,258
		1,588,185		2,709,383	4,297,568
48,139,105		42,817,242		6,013,893	96,970,240
1.001482		1.001402		1.001402	
48,210,447		42,877,271		6,022,325	97,110,043
6,039,892	9,466,867	2,627,210	14,570,381	7,280,971	39,985,321
54,250,339	9,466,867	45,504,481	14,570,381	13,303,295	137,095,364
					125,544,403
					11,550,961
					17,918,240,840
					0.0645

DSM Programs

28	Non	-ĸe	siae	ntiai	DZI	л Pro	igram Cost

29 Non-Residential DSM Earned Utility Incentive

30 Return on undercollection of Non-residential DSM Program Costs

31 Total Non-Residential DSM Program Cost and Incentive Components

32 Revenue-related taxes and regulatory fees factor

33 Total Non-Residential DSM Revenue Requirement

34 Total Collected for Vintage Year 2017 (through estimated Rider 10)

35 Non-Residential EE Revenue Requirement True-up Amount

36 Projected NC Non-Residential Sales (kWh)

37 NC Non-Residential DSM billing factor

Reference

Evans Exhibit 1, pg. 3 Line 26 * NC Alloc. Factor
Evans Exhibit 1, pg. 3 Line 26 * NC Alloc. Factor
Evans Exhibit 3, pg. 3 Line 26 * NC Alloc. Factor
Miller Exhibit 3, pg. 7
Line 31 * Line 32
Miller Exhibit 4 Line 14
Line 33 - Line 34
Miller Exhibit 6, pg. 1, Line 9

Line 35/Line 36*100

E-7 Sub 1105	E-7 Sub 1164	E-7 Sub 1192	
Rider 8 Year 1 Estimate	Rider 10 True Up	Rider 11 True Up	Year 2017
13,389,985	(1,438,646)		11,951,339
3,703,101	(234,452)		3,468,649
-	4,761	4,266	9,027
17,093,086	(1,668,337)	4,266	15,429,016
1.001482	1.001402	1.001402	
17,118,418	(1,670,676)	4,272	15,447,742
			15,446,658
			1,084
			18,135,782,680
			-

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

Duke Energy Carolinas, LLC Docket No. E-7, Sub 1192 Estimated Year 3 Lost Revenue and True Up of Year 1 for Vintage Year 2018

RESIDENTIAL Energy Efficiency Programs

Line		Reference		ar 2018 Yr 3 R Estimate
Line	·	nererenee	F	
1	Residential EE Program Cost	Evans Exhibit 1 pg. 3, Line 10 * NC Alloc. Factor		
2	Residential EE Earned Utility Incentive	Evans Exhibit 1 pg. 3, Line 10 * NC Alloc. Factor		
3	Return on undercollection of Residential EE Program Costs	Miller 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. 3, Line 11 * NC Alloc. Factor		
6	Residential DSM Earned Utility Incentive	Evans Exhibit 1 pg. 3, Line 11 * NC Alloc. Factor		
7	Return on undercollection of Residential DSM Program Costs	Miller 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 **	Miller 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. 3	\$	9,715,212
13	Total Residential EE/DSM Revenue Requirement	Line 11 + Line 12		9,715,212
14	Total Collected for Vintage Year 2018 (through estimated Rider 10)	Miller Exhibit 4 Line 4		
15	Total Residential EE/DSM Revenue Requirement	Line 11 + Line 12	\$	9,715,212

E-7 Sub 1130	E-7 Sub 1164	E-7 Sub 1192	
Rider 9 Year 1 Estimate	Year 2018 Yr 2 LR Estimate	Rider 11 True up	Year 2018
\$ 41,623,609		\$ 14,606,717	\$ 56,230,326
5,511,264		4,154,068	9,665,332
		244,540	244,540
47,134,873		19,005,324	66,140,197
9,903,130		(124,235)	9,778,895
2,569,925		17,215	2,587,140
		(28,626)	(28,626)
12,473,055		(135,646)	12,337,409
59,607,928		18,869,679	78,477,607
1.001402		1.001402	
59,691,498		18,896,134	78,587,632
19,612,717	6,294,025	894,901	26,801,643
79,304,216	6,294,025	19,791,035	105,389,275
			89,925,876
			\$ 15,463,399

See Miller Exhibit A for rate

NON-RESIDENTIAL Energy Efficiency Programs

Reference Restinate 16 Non-Residential EE Program Cost Evans Exhibit 1 pg. 3, Line 25 * NC Alloc. Factor 17 Non-Residential EE Earned Utility Incentive Evans Exhibit 1 pg. 3, Line 25 * NC Alloc. Factor 18 Return on undercollection of Non-residential EE Program Costs Miller 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 Miller Exhibit 2, pg. 7 21 Total Non-Residential EE Program Cost and Incentive Revenue Requirements Line 19 * Line 20 22 Non-Residential EE Revenue Requirement Evans Exhibit 2 pg. 3 9,507,18 23 Total Non-Residential EE Revenue Requirement Line 12 + Line 22 9,507,18 24 Total Collected for Vintage Year 2018 (through estimated Rider 10) Miller Exhibit 4 Line 10				
16 Non- Residential EE Program Cost 17 Non-Residential EE Farned Utility Incentive 18 Return on undercollection of Non-residential EE Program Costs 18 Return on undercollection of Non-residential EE Program Costs 19 Total EE Program Cost and Incentive Components 20 Revenue-related taxes and regulatory fees factor 21 Total Non-Residential EE Program Cost and Incentive Revenue Requirements 22 Non-Residential EE Program Cost and Incentive Sevenue Requirements 23 Incential Net Lost Revenues 24 Non-Residential EE Revenue Requirement 25 Non-Residential EE Revenue Requirement 26 Line 19 Line 20 27 Non-Residential EE Revenue Requirement 28 Total Collected for Vintage Year 2018 (through estimated Rider 10) 38 Miller Exhibit 4 Line 10				Year 2018 Yr 3
17 Non-Residential EE Earned Utility Incentive Evans Exhibit 1 pg. 3, Line 25 * NC Alloc. Factor 18 Return on undercollection of Non-residential EE Program Costs Miller 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 Miller Exhibit 2, pg. 7 21 Total Non-Residential EE Program Cost and Incentive Revenue Requirements Line 19 * Line 20 22 Non-Residential EE Revenue Requirement Evans Exhibit 2 pg. 3 23 Total Non-Residential EE Revenue Requirement Line 21 + Line 22 24 Total Collected for Vintage Year 2018 (through estimated Rider 10) Miller Exhibit 1 pg. 3, Line 25 * NC Alloc. Factor Miller Exhibit 2 pg. 3, John 18: Line 19 * Line 20 * 9,507,18! Line 19 * Line 20 * 9,507,18! Line 21 + Line 22 * 9,507,18!			Reference	LR Estimate
18 Return on undercollection of Non-residential EE Program Costs Miller 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 Miller Exhibit 2, pg. 7 21 Total Non-Residential EE Program Cost and Incentive Revenue Requirements Line 19 * Line 20 22 Non-Residential Revenues Evans Exhibit 2, pg. 3 9,507,18 3 Total Non-Residential Revenue Requirement Line 21 + Line 22 9,507,18 24 Total Collected for Vintage Year 2018 (through estimated Rider 10) Miller Exhibit 4 Line 10	16	Non- Residential EE Program Cost	Evans Exhibit 1 pg. 3, Line 25 * NC Alloc. Factor	
19 Total EE Program Cost and Incentive Components Line 16 + Line 17 + Line 18 20 Revenue-related taxes and regulatory fees factor Miller Exhibit 2, pg. 7 21 Total Non-Residential EE Program Cost and Incentive Revenue Requirements Line 19 * Line 20 21 Non-Residential EE Revenue Requirement Expense Evans Exhibit 2 pg. 3 23 Total Non-Residential EE Revenue Requirement Line 21 + Line 22 24 Total Collected for Vintage Year 2018 (through estimated Rider 10) 35 Miller Exhibit 4 Line 10	17	Non-Residential EE Earned Utility Incentive	Evans Exhibit 1 pg. 3, Line 25 * NC Alloc. Factor	
20 Revenue-related taxes and regulatory fees factor Miller Exhibit 2, pg. 7 21 Total Non-Residential EE Program Cost and Incentive Revenue Requirements Line 19 * Line 20 22 Non-Residential REt Lost Revenues Evans Exhibit 2 pg. 3 9,507,181 23 Total Non-Residential EE Revenue Requirement Line 21 + Line 22 9,507,181 24 Total Collected for Vintage Year 2018 (through estimated Rider 10) Miller Exhibit 4 Line 10	18	Return on undercollection of Non-residential EE Program Costs	Miller Exhibit 3 page 15	
21 Total Non-Residential EE Program Cost and Incentive Revenue Requirements Line 19 * Line 20 22 Non-Residential Ret Lost Revenues 23 Total Non-Residential Ret Revenue Requirement 24 Total Collected for Vintage Year 2018 (through estimated Rider 10) 25 Miller Exhibit 4 Line 10	19	Total EE Program Cost and Incentive Components	Line 16 + Line 17 + Line 18	
22 Non-Residential Net Lost Revenues Evans Exhibit 2 pg. 3 9,507,182 23 Total Non-Residential EE Revenue Requirement Line 21 + Line 22 9,507,182 24 Total Collected for Vintage Year 2018 (through estimated Rider 10) Miller Exhibit 4 Line 10	20	Revenue-related taxes and regulatory fees factor	Miller Exhibit 2, pg. 7	
23 Total Non-Residential EE Revenue Requirement Line 21 + Line 22 9,507,18: 24 Total Collected for Vintage Year 2018 (through estimated Rider 10) Miller Exhibit 4 Line 10	21	Total Non-Residential EE Program Cost and Incentive Revenue Requirements	Line 19 * Line 20	
24 Total Collected for Vintage Year 2018 (through estimated Rider 10) Miller Exhibit 4 Line 10	22	Non-Residential Net Lost Revenues	Evans Exhibit 2 pg. 3	9,507,185
	23	Total Non-Residential EE Revenue Requirement	Line 21 + Line 22	9,507,185
25 Non-Residential EE Revenue Requirement Line 23 - Line 24 9,507,18	24	Total Collected for Vintage Year 2018 (through estimated Rider 10)	Miller Exhibit 4 Line 10	
	25	Non-Residential EE Revenue Requirement	Line 23 - Line 24	9,507,185
26 Projected NC Residential Sales (kWh) Miller Exhibit 6, Line 10 17,320,957,42	26	Projected NC Residential Sales (kWh)	Miller Exhibit 6, Line 10	17,320,957,422
27 NC Non-Residential EE billing factor (Cents/kWh) Line 25/Line 26*100 0.054	27	NC Non-Residential EE billing factor (Cents/kWh)	Line 25/Line 26*100	0.0549

E-7 Sub 1105	E-7 Sub 1130	E-7 Sub 1192	
Rider 9 Year 1	Year 2018 Yr 2	Rider 11 True	
Estimate	LR Estimate	up	Year 2018
40,592,949		(3,317,005)	37,275,944
11,623,199		2,818,045	14,441,244
		461,049	461,049
52,216,148		(37,911)	52,178,237
1.001402		1.001402	
52,289,355		(37,965)	52,251,390
5,167,253	8,746,000	2,933,863	16,847,117
57,456,608	8,746,000	2,895,899	69,098,507
			64,283,845
			4,814,662
			17,320,957,422
			0.0278

E-7 Sub 1105	E-7 Sub 1192	
Rider 9 Year 1	Rider 11 True	
Estimate	Up	Year 2018
11,959,889	651,281	12,611,170
3,103,667	232,789	3,336,456
-	37,743	37,743
15,063,556	921,812	15,985,368
1.001402	1.001402	
15,084,675	923,105	16,007,780
		14,609,687
		1,398,093
		18,056,545,344
		0.0077

DSM Programs

		Reference
28	Non-Residential DSM Program Cost	Evans Exhibit 1, pg. 3 Line 26 * NC Alloc. Factor
29	Non-Residential DSM Earned Utility Incentive	Evans Exhibit 1, pg. 3 Line 26 * NC Alloc. Factor
30	Return on undercollection of Non-residential DSM Program Costs	Miller 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	Miller Exhibit 2, pg. 7
33	Total Non-Residential DSM Revenue Requirement	Line 31 * Line 32
34	Total Collected for Vintage Year 2018 (through estimated Rider 10)	Miller Exhibit 4 Line 15
35	Non-Residential EE Revenue Requirement True-up Amount	Line 33- Line 34
36	Projected NC Non-Residential Sales (kWh)	Miller Exhibit 6 Line 11
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.

Supplemental Miller Exhibit 2, page 5

Duke Energy Carolinas, LLC Docket No. E-7, Sub 1192 Estimated Year 2 Lost Revenues for Vintage Year 2019

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. 3 Line 148 Miller Exhibit 6 Line 1/Line 2*100

	2019	
	5,232,466	
\$	21,487,301,475	
0.0244		

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. 3 Line 165 Miller Exhibit 6 Line 4/Line 5*100

2019	
8,746,000	
17,184,515,812	
0.0509	

Supplemental Miller Exhibit 2, page 6

Duke Energy Carolinas, LLC Docket No. E-7, Sub 1192 Estimated Program Costs, Earned Incentive and Lost Revenues for Vintage Year 2020

RESIDENTIAL

Line		Reference	2020
1	Residential EE Program Cost	Evans Exhibit 1, pg. 5 * NC Alloc. Factor	\$ 33,551,578
2	Residential EE Earned Utility Incentive	Evans Exhibit 1, pg. 5 * NC Alloc. Factor	3,173,534
3	Total EE Program Cost and Incentive Components	Line 1 + Line 2, Evans Exhibit 1, Line 10	36,725,112
4	Residential DSM Program Cost	Evans Exhibit 1, pg. 5 * NC Alloc. Factor	12,243,392
5	Residential DSM Earned Utility Incentive	Evans Exhibit 1, pg. 5 * NC Alloc. Factor	3,189,876
6	Total DSM Program Cost and Incentive Components Line 4 + Line 5, Evans Exhibit 1, Line 12		15,433,268
7	Total EE/DSM Program Cost and Incentive Components	Line 3 + Line 6	52,158,380
8	Revenue-related taxes and regulatory fees factor	Miller Exhibit 2, pg. 7	1.001402
9	Total EE/DSM Program Cost and Incentive Revenue Requirement	Line 7 * Line 8	52,231,506
10	Residential Net Lost Revenues	Evans Exhibit 2 pg. 3 Line 177	14,667,095
11	Total Residential EE Revenue Requirement	Line 9 + Line 10	\$ 66,898,601

NON-RESIDENTIAL Energy Efficiency Programs

		Reference	2020
12	Non- Residential EE Program Cost	Evans Exhibit 1, pg. 5 * NC Alloc. Factor	\$ 37,708,077
13	Non-Residential EE Earned Utility Incentive	Evans Exhibit 1, pg. 5 * NC Alloc. Factor	10,010,194
14	Total EE Program Cost and Incentive Components	Line 12 + Line 13, Evans Exhibit 1, Line 27	47,718,271
15	Revenue-related taxes and regulatory fees factor	Miller Exhibit 2, pg. 7	1.001402
16	Total Non-Residential EE Program Cost and Incentive Revenue Requirements	Line 14 * Line 15	47,785,172
17	Non-Residential Net Lost Revenues	Evans Exhibit 2 pg. 3 Line 194	5,183,193
18	Total Non-Residential EE Revenue Requirement	Line 16 + Line 17	\$ 52,968,365
19	Projected NC Residential Sales (kWh)	Miller Exhibit 6, pg. 1, Line 14	17,184,515,812
20	NC Non-Residential EE billing factor (Cents/kWh)	Line 18/Line 19*100	0.3082

DSM Programs

27 NC Non-Residential DSM billing factor

21	Non-Residential DSM Program Cost
22	Non-Residential DSM Earned Utility Incentive
23	Total Non-Residential DSM Program Cost and Incentive Components
24	Revenue-related taxes and regulatory fees factor
25	Total Non-Residential DSM Revenue Requirement
26	Projected NC Non-Residential Sales (kWh)

Evans Exhibit 1, pg. 5 * NC Alloc. Factor
Evans Exhibit 1, pg. 5 * NC Alloc. Factor
Line 21 + Line 22, Evans Exhibit 1, Line 29
Miller Exhibit 2, pg. 7
Line 23 * Line 24
Miller Exhibit 6, pg. 1, Line 15
Line 25/Line 26*100

Poforonco

	2020
\$	15,789,462
	4,113,764
	19,903,226
	1.001402
	19,931,130
	18,099,339,344
	0.1101

See Miller Exhibit 1 for rate

Miller Exhibit 2, page 7
NO CHANGE

Duke Energy Carolinas, LLC Docket No. E-7, Sub 1192 Gross Receipts Tax Years 2015 through estimated 2020

	Year		Actual GRT Rate In Effect
	2015	Jan - June	1.001352
		July - Dec	1.001482
Rider 6	2015	Weighted Average	1.001417
Rider 7	2016	Jan - June	1.001482
		July - Dec	1.001402
		Weighted Average	1.001442
Rider 8	2017		1.001402
Rider 9	2018		1.001402
Rider 10	2019		1.001402
Rider 11	2020		1.001402

Note: the current rate is used as the estimate for 2019 and 2020. This will be subject to true-up based on actual rates in effect.

Duke Energy Carolinas, LLC Docket No. E-7, Sub 1192 Estimated Return Calculation - Residential EE Programs Vintage 2015

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
	,	2018				7.29%			0.766497	
						6.83%			(1-233503)	
Beginning Balance - sou	arce (200,678)			(47,390)						
2018 January	(186,248)	0.236149	3,408	(43,982)	(142,265)	0.006075	(432)	(432	0.766497	(564)
2018 February	(157,663)	0.236149	6,750	(37,232)	(120,431)	0.006075	(798)	(1,230	0.766497	(1,605)
2018 March	(136,697)	0.236149	4,951	(32,281)	(104,416)	0.006075	(683)	(1,913	0.766497	(2,496)
2018 April	(115,580)	0.236149	4,987	(27,294)	(88,286)	0.006075	(585)	(2,498	0.766497	(3,259)
2018 May	(97,147)	0.236149	4,353	(22,941)	(74,206)	0.006075	(494)	(2,992	0.766497	(3,903)
2018 June	(70,765)	0.236149	6,230	(16,711)	(54,054)	0.006075	(390)	(3,382	0.766497	(4,412)
2018 July	(40,447)	0.236149	7,160	(9,551)	(30,895)	0.006075	(258)	(3,640	0.766497	(4,748)
2018 August	(12,568)	0.236149	6,584	(2,968)	(9,600)	0.005692	(115)	(3,755	0.766497	(4,899)
2018 September	17,373	0.236149	7,070	4,103	13,270	0.005692	10	(3,744	0.766497	(4,885)
2018 October	38,455	0.236149	4,979	9,081	29,374	0.005692	121	(3,623	0.766497	(4,727)
2018 November	57,923	0.236149	4,597	13,679	44,245	0.005692	210	(3,414	0.766497	(4,453)
2018 December	(536,672)	0.236149	(140,413)	(126,735)	(409,938)	0.005692	(1,041)	(4,454	0.766497	(5,811)
							(4,454)			(5,811)

Note 1: Revenues collected represent amounts actually collected through 2018.

Interest Calculation

2017 - Rider 8	Month	NC Program Costs Incurred	Revenue Collected	Undercollected Balance	Lost Revenues	Revenue Collected	Undercollected Balance	PPI	Revenue Collected	Undercollected Balance	Total Cumulative Under/Over Collected
Beginnin	g Balance	27,959,114	26,837,675	1,121,439		-	-		-	-	1,121,439
	January					-	-		-	-	1,121,439
	February					-	-		-	-	1,121,439
	March					-	-		-	-	1,121,439
	April					-	-		-	-	1,121,439
	May					-	-		-	-	1,121,439
	June					-	-		-	-	1,121,439
	July					-	-		-	-	1,121,439
	August					-	-		-	-	1,121,439
	September					-	-		-	-	1,121,439
	October					-	-		-	-	1,121,439
	November					-	-		-	-	1,121,439
	December					-	-		-	-	1,121,439
YTD Bala	nce	27,959,114	26.837.675	1.121.439	14.733.024	14.142.082	590.942	4.852.974	4.658.321	194.654	1.907.034

Duke Energy Carolinas, LLC Docket No. E-7, Sub 1192 Estimated Return Calculation - Residential EE Programs Vintage 2015

Interest Calculation

Interest C	Calculation										
2018 - Rider9	Month	NC Program Costs Incurred	Revenue Collected	Undercollected Balance	Lost Revenues	Revenue Collected	Undercollected Balance	PPI	Revenue Collected	Undercollected Balance	Total Cumulative Over/Under Collected
Beginning		27,959,114	26,837,675	1,121,439	14,733,024	14,142,082	590,942	4,852,974	4,658,321	194,654	1,907,034
	January		-	-		155,318	(155,318)		2,365	(2,365)	1,749,351
	February		-	-		390,165	(390,165)		5,942	(5,942)	1,353,244
	March		-	-		326,594	(326,594)		4,974	(4,974)	1,021,675
	April		-	-		242,852	(242,852)		3,699	(3,699)	775,124
	May		-	-		236,501	(236,501)		3,602	(3,602)	535,022
	June		-	-		316,267	(316,267)		4,817	(4,817)	213,938
	July		-	-		402,008	(402,008)		6,123	(6,123)	(194,192)
	August		-	-		420,989	(420,989)		6,412	(6,412)	(621,592)
	September		-	-		406,238	(406,238)		6,187	(6,187)	(1,034,017)
	October		-	-		267,581	(267,581)		4,075	(4,075)	(1,305,673)
	November		-	-		235,865	(235,865)		3,592	(3,592)	(1,545,130)
	December		-	-	8,263,187	565,268	7,697,919	126,047	8,609	117,438	6,270,227
YTD Balar		-	-	-	8,263,187	3,965,645	4,297,542	126,047	60,396	65,651	
Cumulati	ve Ending Balance	27,959,114	26,837,675	1,121,439	22,996,211	18,107,728	4,888,483	4,979,022	4,718,717	260,305	6,270,227
Interest C	Calculation										
				Cumulative			Cumulative			Cumulative	Total Cumulative
2019 -		NC Program Costs	Revenue	Undercollected		Revenue	Undercollected			Undercollected	Under/(Over)
Rider10	Month	Incurred	Collected	Balance	Lost Revenues	Collected	Balance	PPI	Revenue Collected	Balance	Collected Balance
Beginning	Balance	27,959,114	26,837,675	1,121,439	22,996,211	18,107,728	4,888,483	4,979,022	4,718,717	260,305	6,270,227
0	January	,,	53,450	1,067,989	,,		4,888,483	.,,	.,,	260,305	6,216,777
	February		105,182	962,808		_	4,888,483		-	260,305	6,111,595
	March		96,023	866,784		_	4,888,483		_	260,305	6,015,572
	April		91,900	774,884			4,888,483			260,305	5,923,672
	May		85,130	689,755			4,888,483			260,305	5,838,542
	June		108,233	581,522			4,888,483			260,305	5,730,310
	July		134,008	447,514		-	4,888,483		-	260,305	5,596,302
	August		132,032	315,482		-	4,888,483		-	260,305	5,464,270
	September		114,599	200,883		-	4,888,483		-	260,305	5,349,671
						-			-		
	October		89,350	111,533		-	4,888,483		-	260,305	5,260,321
	November		87,057	24,476		-	4,888,483		-	260,305	5,173,264
	December		225,155	(200,678)	6,753,855	8,269,323	3,373,016		148,603	111,702	3,284,039
YTD Balar Cumulativ	nce ve Ending Balance	- 27,959,114	1,322,117 28,159,792	(200,678)	6,753,855 29,750,066	8,269,323 26,377,050	3,373,016	- 4,979,022	148,603 4,867,320	111,702	3,284,039
Interest C	Calculation			Cumulative			Cumulative			Cumulative	Total Cumulative
2020 -		NC Program Costs	Revenue	Undercollected		Revenue	Undercollected			Undercollected	Under/(Over)
Rider 11	Month	Incurred	Collected	Balance	Lost Revenues	Collected	Balance	PPI	Revenue Collected	Balance	Collected Balance
Muci 11	WIGHT	incurred	Conceted	Darance	LOSE NEVERIGES	conceted	Dalarice		Neveride conceted	Darance	Concetted Bulance
Beginning	g Balance	27,959,114	28,159,792	(200,678)	29,750,066	26,377,050	3,373,016	4,979,022	4,867,320	111,702	3,284,039
	January		(14,431)	(186,248)	900,128	393,209	3,879,934		10,620	101,081	3,794,768
	February		(28,585)	(157,663)	797,208	778,892	3,898,250		21,037	80,044	3,820,631
	March		(20,966)	(136,697)	708,474	571,275	4,035,448		15,430	64,614	3,963,366
	April		(21,117)	(115,580)	625,633	575,405	4,085,676		15,541	49,073	4,019,169
	May		(18,433)	(97,147)	543,299	502,268	4,126,708		13,566	35,507	4,065,068
	June		(26,381)	(70,765)	450,244	718,851	3,858,100		19,416	16,091	3,803,425
	July		(30,319)	(40,447)	365,764	826,133	3,397,731		22,313	(6,222)	3,351,062
	August		(27,879)	(12,568)	303,704	759,650	2,638,081		20,518	(26,740)	2,598,773
	September		(29,941)	17,373		815,838	1,822,243		22,035	(48,775)	1,790,841
	October		,	38,455		574,463	1,247,781		22,035 15,869		1,790,841
			(21,082)							(64,645)	
	November		(19,468)	57,923		530,467	717,314		14,328	(78,972)	696,265
\/TD = '	December		(45,704)	103,627	4 000 ==-	1,245,359	(528,045)		33,282	(112,255)	(536,672)
YTD Balar			(304,305)	402.627	4,390,750	8,291,811	(520.045)	4 070 000	223,956	(442 2==)	(500 550)
Cumulati	ve Ending Balance	27,959,114	27,855,487	103,627	34,140,816	34,668,861	(528,045)	4,979,022	5,091,276	(112,255)	(536,672)

Duke Energy Carolinas, LLC Docket No. E-7, Sub 1192 Estimated Return Calculation - Residential DSM Programs Vintage 2015

Beginning Balance - from Ri 31,962,633 32.5218612% 10,394,843 12,983,975 (10,384, 2018 January 32.5218612% - 2,102 61.5470492% (1, 2018 February 32.5218612% - 1,547 61.5470492% (1, 2018 April 32.5218612% - 1,558 61.5470492% (1, 2018 May 32.5218612% - 1,558 61.5470492% (1, 2018 June 32.5218612% - 1,362 61.5470492% (1, 2018 June 32.5218612% - 1,942 61.5470492% (1, 2018 July 32.5218612% - 2,229 61.5470492% (1, 2018 August 32.5218612% - 2,251 61.5470492% (1, 2018 September 32.5218612% - 2,051 61.5470492% (1, 2018 September 32.5218612% - 2,051 61.5470492% (1, 2018 October 32.5218612% - 2,051 61.5470492% (1, 2018 October 32.5218612% - 1,555 61	(Over)/Under Collection	DSM Program Costs Revenue Collected	NC Residential DSM Program Collection %	NC Residential Revenue Collected(EEC2)	NC Allocated DSM Residential Program Costs	NC Residential DSM Allocation % Miller Exhibit 5,	Total System NC DSM Program Costs Incurred	NC Residential DSM	
2018 January 32.5218612% - 1,070 61.5470492% () 2018 February 32.5218612% - 2,102 61.5470492% (1, 2018 March 32.5218612% - 1,554 61.5470492% () 2018 April 32.5218612% - 1,558 61.5470492% () 2018 May 32.5218612% - 1,942 61.5470492% () 2018 June 32.5218612% - 1,942 61.5470492% (1, 2018 July 32.5218612% - 2,229 61.5470492% (1, 2018 September 32.5218612% - 2,051 61.5470492% (1, 2018 September 32.5218612% - 2,201 61.5470492% (1, 2018 October 32.5218612% - 2,201 61.5470492% (1,			See calc. at right			pg 2 Line 9			
2018 February 32.5218612% - 2,102 61.5470492% (1,2) 2018 March 32.5218612% - 1,547 61.5470492% (6 2018 April 32.5218612% - 1,352 61.5470492% (6 2018 May 32.5218612% - 1,362 61.5470492% (1,20) 2018 June 32.5218612% - 1,942 61.5470492% (1,20) 2018 July 32.5218612% - 2,259 61.5470492% (1,20) 2018 September 32.5218612% - 2,201 61.5470492% (1,20) 2018 October 32.5218612% - 2,201 61.5470492% (1,20)	6) 10,447	(10,384,396)		12,983,975	10,394,843	32.5218612%	31,962,633	ng Balance - from Ri	Beginni
2018 March 32.5218612% - 1,547 61.5470492% (2018 April 32.5218612% - 1,558 61.5470492% (2018 May 32.5218612% - 1,362 61.5470492% (1, 2018 June 32.5218612% - 1,942 61.5470492% (1, 2018 July 32.5218612% - 2,229 61.5470492% (1, 2018 August 32.5218612% - 2,051 61.5470492% (1, 2018 September 32.5218612% - 2,201 61.5470492% (1, 2018 October 32.5218612% - 1,555 61.5470492% (1,	9) (659)	(659)	61.5470492%	1,070	-	32.5218612%		January	2018
2018 April 32.5218612% - 1,558 61.5470492% (2018 May 32.5218612% - 1,362 61.5470492% (1, 2018 June 32.5218612% - 1,942 61.5470492% (1, 2018 July 32.5218612% - 2,229 61.5470492% (1, 2018 August 32.5218612% - 2,051 61.5470492% (1, 2018 September 32.5218612% - 2,201 61.5470492% (1, 2018 October 32.5218612% - 1,555 61.5470492% (1,	4) (1,294)	(1,294)	61.5470492%	2,102	-	32.5218612%		February	2018
2018 May 32.5218612% - 1,362 61.5470492% () 2018 June 32.5218612% - 1,942 61.5470492% (1, 2018 July 32.5218612% - 2,229 61.5470492% (1, 2018 August 32.5218612% - 2,051 61.5470492% (1, 2018 September 32.5218612% - 2,201 61.5470492% (1, 2018 October 32.5218612% - 1,555 61.5470492% (1,	2) (952)	(952)	61.5470492%	1,547	-	32.5218612%		March	2018
2018 June 32.5218612% - 1,942 61.5470492% (1,2018 2018 July 32.5218612% - 2,229 61.5470492% (1,2018 2018 August 32.5218612% - 2,051 61.5470492% (1,2018 2018 September 32.5218612% - 2,201 61.5470492% (1,2018 2018 October 32.5218612% - 1,555 61.5470492% (1,2018)	9) (959)	(959)	61.5470492%	1,558	-	32.5218612%		April	2018
2018 July 32.5218612% - 2,229 61.5470492% (1,2018 2018 August 32.5218612% - 2,051 61.5470492% (1,2018 2018 September 32.5218612% - 2,201 61.5470492% (1,2018 2018 October 32.5218612% - 1,555 61.5470492% (1,2018	8) (838)	(838)	61.5470492%	1,362	-	32.5218612%		May	2018
2018 August 32.5218612% - 2,051 61.5470492% (1,2018) 2018 September 32.5218612% - 2,201 61.5470492% (1,2018) 2018 October 32.5218612% - 1,555 61.5470492% (1,2018)	5) (1,195)	(1,195)	61.5470492%	1,942	-	32.5218612%		June	2018
2018 September 32.5218612% - 2,201 61.5470492% (1,201) 2018 October 32.5218612% - 1,555 61.5470492% (1,201)	2) (1,372)	(1,372)	61.5470492%	2,229	-	32.5218612%		July	2018
2018 October 32.5218612% - 1,555 61.5470492% (2) (1,262)	(1,262)	61.5470492%	2,051	-	32.5218612%		August	2018
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	5) (1,355)	(1,355)	61.5470492%	2,201	-	32.5218612%		September	2018
2018 November 32.5218612% - 1,437 61.5470492% (7) (957)	(957)	61.5470492%	1,555	-	32.5218612%		October	2018
	5) (885)	(885)	61.5470492%	1,437	-	32.5218612%		November	2018
2018 December 32.5218612% - 3,351 61.5470492% (2,	2) (2,062)	(2,062)	61.5470492%	3,351	-	32.5218612%		December	2018
- 10,394,843 13,006,378 (10,398,	5) (3,341)	(10,398,185)	_	13,006,378	10,394,843	•	=	-	

Program Costs to be recovered in Rider 11	10,447
Revenue Requirement Requested in Rider 11	16,974
Percent of Revenue to be applied to total collections	62%

NC Resid	lential 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
	_		2018				7.29%			0.766497	
							6.83%				
Beginnir	ng Balance - from Ri	10,447			2,467	7,980					
2018	January	9,789	0.236149	(156)	2,312	7,477	0.006075	47	47	0.766497	61
2018	February	8,495	0.236149	(306)	2,006	6,489	0.006075	42	89	0.766497	117
2018	March	7,543	0.236149	(225)	1,781	5,762	0.006075	37	127	0.766497	165
2018	April	6,584	0.236149	(226)	1,555	5,029	0.006075	33	159	0.766497	208
2018	May	5,746	0.236149	(198)	1,357	4,389	0.006075	29	188	0.766497	245
2018	June	4,551	0.236149	(282)	1,075	3,476	0.006075	24	212	0.766497	276
2018	July	3,179	0.236149	(324)	751	2,429	0.006075	18	230	0.766497	300
2018	August	1,917	0.236149	(298)	453	1,464	0.005692	11	241	0.766497	314
2018	September	563	0.236149	(320)	133	430	0.005692	5	246	0.766497	321
2018	October	(395)	0.236149	(226)	(93)	(301)	0.005692	0	247	0.766497	322
2018	November	(1,279)	0.236149	(209)	(302)	(977)	0.005692	(4)	243	0.766497	317
2018	December	(3,341)	0.236149	(487)	(789)	(2,552)	0.005692	(10)	233	0.766497	304
								233			304

Note 1: Amounts represent all revenue actually collected through 2018.

Duke Energy Carolinas, LLC Docket No. E-7, Sub 1192 Estimated Return Calculation - Non- Residential EE Programs Vintage 2015

NC Non-

					INC INOTI-		
	Non-Residential EE			NC Residential	Residential EE	Non-Residential	
	Program Costs		NC Allocated EE	Revenue	Program	EE Program Costs	(Over)/Under
NC Non- Residential EE	Incurred	NC Allocation %	Program Costs	Collected(EEC15)	Collection %	Revenue Collected	Collection
		Miller Exhibit 5.					
		pg 2, Line 4			See calc. at right		
Beginning Balance - source Ride	40,096,318	72.9564706%	29,252,858	49,895,986		(27,536,038)	1,716,820
2018 January		72.9564706%	-	568,041	20.6964576%	(117,564)	(117,564)
2018 February		72.9564706%	-	602,713	20.6964576%	(124,740)	(124,740)
2018 March		72.9564706%	-	539,207	20.6964576%	(111,597)	(111,597)
2018 April		72.9564706%	-	571,303	20.6964576%	(118,239)	(118,239)
2018 May		72.9564706%	-	583,957	20.6964576%	(120,858)	(120,858)
2018 June		72.9564706%	-	707,348	20.6964576%	(146,396)	(146,396)
2018 July		72.9564706%	-	719,033	20.6964576%	(148,814)	(148,814)
2018 August		72.9564706%	-	715,298	20.6964576%	(148,041)	(148,041)
2018 September		72.9564706%	-	797,739	20.6964576%	(165,104)	(165,104)
2018 October		72.9564706%	-	826,401	20.6964576%	(171,036)	(171,036)
2018 November		72.9564706%	-	568,555	20.6964576%	(117,671)	(117,671)
2018 December		72.9564706%	-	787,159	20.6964576%	(162,914)	(162,914)
	-		29,252,858	57,882,741		(25,883,063)	63,845

Program Cost Allocation Calculation	
Non-Res EE Program Costs under collected balance	1,716,820
Non-Res EE Revenue Requirement in Rider 9	8,295,238
% Revenue related to Program Costs	21%
Note: Vintage Year 2015 collections in 2018 stem from Rider 9	

		Cumulative			Cumulative	Net Deferred				Gross up of	
		(Over)/Under	Current Income	Monthly Deferred	Deferred Income	After Tax		Monthly A/T Return	YTD After Tax	Return to	Gross up of Return to
NC Non-	Residential EE	Recovery	Tax Rate	Income Tax	Tax	Balance	Monthly Return	on Deferral	Interest	Pretax Rate	Pretax
	-		2018				7.29%			0.766497	
							6.83%				
Beginnir	ng Balance from Rider 9	1,716,820			405,425	1,311,395					
2018	January	1,599,256	0.236149	(27,762.70)	377,663	1,221,593	0.006075	7,694	7,694	0.766497	10,038
2018	February	1,474,516	0.236149	(29,457.30)	348,205	1,126,310	0.006075	7,132	14,826	0.766497	19,342
2018	March	1,362,919	0.236149	(26,353.48)	321,852	1,041,067	0.006075	6,583	21,409	0.766497	27,931
2018	April	1,244,680	0.236149	(27,922.13)	293,930	950,750	0.006075	6,050	27,459	0.766497	35,824
2018	May	1,123,821	0.236149	(28,540.60)	265,389	858,432	0.006075	5,495	32,955	0.766497	42,994
2018	June	977,425	0.236149	(34,571.28)	230,818	746,607	0.006075	4,875	37,830	0.766497	49,354
2018	July	828,611	0.236149	(35,142.37)	195,676	632,935	0.006075	4,190	42,020	0.766497	54,821
2018	August	680,569	0.236149	(34,959.80)	160,716	519,854	0.005692	3,281	45,301	0.766497	59,101
2018	September	515,466	0.236149	(38,989.08)	121,727	393,739	0.005692	2,600	47,901	0.766497	62,493
2018	October	344,430	0.236149	(40,389.92)	81,337	263,093	0.005692	1,869	49,770	0.766497	64,932
2018	November	226,759	0.236149	(27,787.83)	53,549	173,210	0.005692	1,242	51,012	0.766497	66,552
2018	December	63,845	0.236149	(38,471.97)	15,077	48,768	0.005692	632	51,643	0.766497	67,376
								51,643			67,376

Duke Energy Carolinas, LLC Docket No. E-7, Sub 1192 Estimated Return Calculation -Non - Residential DSM Programs Vintage 2015

Incentives Earned &

				GRT remitted				Non-Residential		
	Total System NC	NC Non-	NC Allocated DSM Non-	(Allocated based on	Total DSM	NC Non-Residential	NC Non-Residential	DSM Program		
	DSM Program	Residential DSM	Residential Program	WA of Program	Revenue	DSM Revenue	DSM Program	Costs Revenue	(Over)/Under	
NC Non- Residential DSM	Costs Incurred	Allocation %	Costs	Costs Incurred)	Requirement	Collected(DS15)	Collection %	Collected	Collection	
				and a few alternation						
				calculated interest			4000/			
		See Miller Exhibit		on entire balance due to over-			100% used due to over-collection of			
		5 pg. 2, Line 10		collection in total			entire vintage			
		5 pg. 2, Line 10		collection in total			entire vintage			
Beginning Balance - revenue req	31,958,782	42.4483655%	13,565,981	2,960,385	16,526,366	16,946,105	100.000000%	(16,946,105)	(419,739)	
2018 January	-	42.4483655%	-		-	(53,805)	100.000000%	(53,805)	53,805	Program Cost Allocation Methodology
2018 February	-	42.4483655%	-		-	(37,120)	100.000000%	(37,120)	37,120	No program cost allocation is needed because
2018 March	-	42.4483655%	-		-	(32,596)	100.000000%	(32,596)	32,596	the vintage was overcollected in total and interest
2018 April	-	42.4483655%	-		-	(35,291)	100.000000%	(35,291)	35,291	due was calculated on the entire vintage.
2018 May	-	42.4483655%	-		-	(35,545)	100.000000%	(35,545)	35,545	
2018 June	-	42.4483655%	-		-	(42,596)	100.000000%	(42,596)	42,596	Therefore, 100% of all revenues offset the overcollecte
2018 July	-	42.4483655%	-		-	(44,317)		(44,317)		balance.
2018 August	-	42.4483655%	-		-	(43,372)		(43,372)		
2018 September	-	42.4483655%	-		-	(48,517)	100.000000%	(48,517)		
2018 October	-	42.4483655%	-		-	(50,018)	100.000000%	(50,018)		
2018 November	-	42.4483655%	-		-	(35,152)		(35,152)		
2018 December	-	42.4483655%	-		-	(56,830)	100.000000%	(56,830)		
	-		-		16,526,366	16,430,948			95,418	

		Cumulative			Cumulative	Net Deferred				Gross up of	
		(Over)/Under	Current Income	Monthly Deferred	Deferred Income	After Tax		Monthly A/T Return	YTD After Tax	Return to Pretax	Gross up of Return to
NC Non	-Residential DSM	Recovery	Tax Rate	Income Tax	Tax	Balance	Monthly Return	on Deferral	Interest	Rate	Pretax
	_		2018				7.29%			0.766497	
							6.83%				
Beginni	ng Balance - from Rider 9	(419,739)			(99,121)	(320,618)					
2018	January	(365,934)	0.236149	12,706	(86,415)	(279,519)	0.006075	(1,823)	(1,823)	0.766497	(2,378)
2018	February	(328,814)	0.236149	8,766	(77,649)	(251,165)	0.006075	(1,612)	(3,435)	0.766497	(4,481)
2018	March	(296,218)	0.236149	7,697	(69,952)	(226,267)	0.006075	(1,450)	(4,885)	0.766497	(6,373)
2018	April	(260,927)	0.236149	8,334	(61,618)	(199,310)	0.006075	(1,293)	(6,178)	0.766497	(8,060)
2018	May	(225,383)	0.236149	8,394	(53,224)	(172,159)	0.006075	(1,128)	(7,306)	0.766497	(9,532)
2018	June	(182,787)	0.236149	10,059	(43,165)	(139,622)	0.006075	(947)	(8,253)	0.766497	(10,767)
2018	July	(138,470)	0.236149	10,465	(32,700)	(105,771)	0.006075	(745)	(8,999)	0.766497	(11,740)
2018	August	(95,098)	0.236149	10,242	(22,457)	(72,641)	0.005692	(508)	(9,506)	0.766497	(12,402)
2018	September	(46,581)	0.236149	11,457	(11,000)	(35,581)	0.005692	(308)	(9,814)	0.766497	(12,804)
2018	October	3,437	0.236149	11,812	812	2,625	0.005692	(94)	(9,908)	0.766497	(12,926)
2018	November	38,589	0.236149	8,301	9,113	29,476	0.005692	91	(9,817)	0.766497	(12,807)
2018	December	95,418	0.236149	13,420	22,533	72,885	0.005692	291	(9,525)	0.766497	(12,427)
								(9,525)			(12,427)

Note 1: Revenues collected represent amounts actually collected through 2018.

EE Program Costs EE PPI & GRT

EE Lost Revenue

Total EE Revenue Requirement

40,021,103

6,821,368

16,669,126 63,511,597 0.63

0.11

0.26

Duke Energy Carolinas, LLC Docket No. E-7, Sub 1192 Estimated Return Calculation - Residential EE Programs Vintage 2016

		Cumulative		Monthly	Cumulative	Net Deferred				Gross up of	
		(Over)/Under	Current Income	Deferred Income	Deferred Income	After Tax		Monthly A/T Return	YTD After Tax	Return to Pretax	Gross up of Return to
NC Resid	dential EE	Recovery	Tax Rate	Tax	Tax	Balance	Monthly Return	on Deferral	Interest	Rate	Pretax
	-		2018				7.29%			0.766497	
							6.83%				
Beginni	ng Balance - source	11,777,137			2,781,159	8,995,978					
2018	January	11,187,036	0.236149	(139,352)	2,641,807	8,545,229	0.006075	53,281	53,281	0.766497	69,513
2018	February	9,990,702	0.236149	(282,513)	2,359,294	7,631,407	0.006075	49,137	102,418	0.766497	133,618
2018	March	9,120,709	0.236149	(205,448)	2,153,846	6,966,862	0.006075	44,342	146,760	0.766497	191,469
2018	April	8,244,224	0.236149	(206,981)	1,946,865	6,297,359	0.006075	40,290	187,050	0.766497	244,033
2018	May	7,482,701	0.236149	(179,833)	1,767,032	5,715,668	0.006075	36,490	223,540	0.766497	291,638
2018	June	6,380,741	0.236149	(260,227)	1,506,806	4,873,936	0.006075	32,166	255,706	0.766497	333,603
2018	July	5,110,153	0.236149	(300,048)	1,206,757	3,903,395	0.006075	26,661	282,367	0.766497	368,386
2018	August	3,944,064	0.236149	(275,371)	931,387	3,012,678	0.005692	19,682	302,049	0.766497	394,064
2018	September	2,689,658	0.236149	(296,227)	635,160	2,054,498	0.005692	14,420	316,469	0.766497	412,877
2018	October	1,814,656	0.236149	(206,631)	428,529	1,386,127	0.005692	9,791	326,261	0.766497	425,652
2018	November	1,008,808	0.236149	(190,300)	238,229	770,579	0.005692	6,138	332,398	0.766497	433,659
2018	December	(1,972,320)	0.236149	(703,990)	(465,762)	(1,506,559)	0.005692	(2,094)	330,304	0.766497	430,926
								330,304			430,926

Note 1: Amounts represent all revenue actually collected through 2018.

Interest Calculation

interest C	alculation										Total Cumu
2018 - Bider 0	Manth	NC Program Costs	Revenue Collected	Undercollected Balance	PPI	Revenue Collected	Undercollected Balance	Last Dougnus	Revenue Collected	Undercollected	Under/Ov
Rider 9	Month	Incurred	Collected	вагапсе	PPI	Collected	Balance	Lost Revenue	Revenue Collected	Balance	Collected
Beginning	Balance	40,021,103	28,243,964	11,777,138	6,821,368	4,814,022	2,007,346	16,669,126	11,763,849	4,905,277	18,689
	January					-	-				18,689
	February					-	-				18,689
	March					-	-				18,689
	April					-	-				18,689
	May					-	-				18,689
	June					-	-				18,689
	July					-	-				18,689
	August					-	-				18,689
	September					-	-				18,689
	October					-	-				18,689
	November					-	-				18,689
	December					-	-	-	-	-	18,689
YTD Balan	ice	40,021,103	28,243,964	11,777,138	6,821,368	4,814,022	2,007,346	16,669,126	11,763,849	4,905,277	18,689

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193,724

208,396

145,365

133,877

320,558

6,923,539

6,770,575

655,233

446,837

301,471

167,595

(152,964)

(152,964)

28,828,063

1,166,088

1,254,406

875,003

805,848

1,929,546

40,941,840

40,021,101

August September

October November

December

Cumulative Ending Balance

3,944,064

2,689,658

1,814,656

1,008,808

(920,739)

(920,739)

Interest Calculation										T-1-16			
2019 - Rider 10 Month	NC Program Costs Incurred	Revenue Collected	Undercollected Balance	PPI	Revenue Collected	Undercollected Balance	Lost Revenue	Revenue Collected	Undercollected Balance	Total Cumulative Over/Under Collected			
Beginning Balance January February	40,021,103	28,243,964	11,777,138 - -	6,821,368	4,814,022	2,007,346 - -	16,669,126	11,763,849	4,905,277	18,689,761 18,689,761 18,689,761	Note: Year 2 of all residential vint toward the collection of Year 2 los Therefore, no revenues offset the	undercollection	
March April May June			- - -			- - -				18,689,761 18,689,761 18,689,761 18,689,761	of Year 1 Program costs or PPI. In accrue on beginning balance.	terest continued to	
July August September			- - -			-				18,689,761 18,689,761 18,689,761			
October November December	(2)		- (2)	(50,792.97)		- - (50,793)	2,424,300	5,570,022	(3,145,722)	18,689,761 18,689,761 15,493,244			
YTD Balance Cumulative Ending Balance	(2) 40,021,101	28,243,964	(2) 11,777,137	(50,793) 6,770,575	4,814,022	(50,793) 1,956,553	2,424,300 19,093,426	5,570,022 17,333,871	(3,145,722) 1,759,555	15,493,244 15,493,244			
Interest Calculation 2020- Rider 11 Month	NC Program Costs	Revenue Collected	Cumulative Under/(Over)coll ected Balance	PPI	Revenue Collected	Cumulative Under/(Over)'coll ected Balance	Lost Revenue	Revenue Collected	Cumulative Under/(Over)colle cted Balance	Total Cumulative Over/Under Collected			
Beginning Balance January	40,021,101	28,243,964 590,101	11,777,137 11,187,036	6,770,575	4,814,022 98,034	1,956,553 1,858,519	19,093,426 1,390,664	17,333,871 575,924	1,759,555 2,574,295	15,493,244 15,619,850	Revenue Requirement: Program Costs	11,777,137	0.47
February March April		1,196,334 869,993 876,484	9,990,702 9,120,709 8,244,224		198,749 144,533 145,612	1,659,770 1,515,237 1,369,625	1,390,664 1,390,664 1,390,664	1,167,592 849,091 855,427	2,797,367 2,797,367 3,338,940 3,874,178	14,447,839 13,974,885 13,488,027	PPI & GRT Lost Revenue Total Revenue Requirement	1,956,553 11,494,191 25,227,881	0.08 0.46
May June July		761,524 1,101,959 1,270,589	7,482,701 6,380,741 5,110,153		126,513 183,070 211,085	1,243,112 1,060,042 848,957	1,390,664 1,390,664 1,390,651	743,228 1,075,485 1,240,063	4,521,614 4,836,793 4,987,381	13,247,426 12,277,576 10,946,491			

1,138,073

1,224,269

853,981

786,488

1,883,189

29,726,681

3,849,308

2,625,039

1,771,059

984,571

(898,618)

8,448,606

5,761,535

3,887,186

2,160,973

(1,972,320)

(1,972,320)

DSM Program Costs

Total Revenue Requirement

DSM PPI & GRT

9,600,575

2,775,672

12,376,248

0.78

0.22

Duke Energy Carolinas, LLC Docket No. E-7, Sub 1192 Estimated Return Calculation - Residential DSM Programs Vintage 2016

NC Residential DSM _		Cumulative (Over)/Under Recovery	Current Income Tax Rate 2018	Monthly Deferred Income Tax	Cumulative Deferred Income Tax	Net Deferred After Tax Balance	Monthly Return 7.29%	Monthly A/T Return on Deferral	YTD After Tax Interest	Gross up of Return to Pretax Rate	Gross up of Return to Pretax
							6.83%				
Beginnir	ng Balance - source	(986,784)			(233,028)	(753,756)					
2018	January	(943,803)	0.236149	10,150	(222,878)	(720,925)	0.006075	(4,479)	(4,479)	0.766497	(5,844)
2018	February	(851,272)	0.236149	21,851	(201,027)	(650,245)	0.006075	(4,165)	(8,644)	0.766497	(11,278)
2018	March	(785,414)	0.236149	15,552	(185,475)	(599,939)	0.006075	(3,797)	(12,442)	0.766497	(16,232)
2018	April	(719,025)	0.236149	15,678	(169,797)	(549,228)	0.006075	(3,491)	(15,932)	0.766497	(20,786)
2018	May	(662,033)	0.236149	13,459	(156,338)	(505,694)	0.006075	(3,204)	(19,137)	0.766497	(24,966)
2018	June	(577,215)	0.236149	20,030	(136,309)	(440,906)	0.006075	(2,875)	(22,012)	0.766497	(28,718)
2018	July	(478,615)	0.236149	23,284	(113,024)	(365,590)	0.006075	(2,450)	(24,462)	0.766497	(31,914)
2018	August	(388,556)	0.236149	21,267	(91,757)	(296,799)	0.006075	(2,012)	(26,474)	0.766497	(34,539)
2018	September	(291,278)	0.236149	22,972	(68,785)	(222,493)	0.006075	(1,577)	(28,051)	0.766497	(36,596)
2018	October	(225,011)	0.236149	15,649	(53,136)	(171,875)	0.006075	(1,198)	(29,249)	0.766497	(38,159)
2018	November	(164,396)	0.236149	14,314	(38,822)	(125,574)	0.006075	(904)	(30,152)	0.766497	(39,338)
2018	December	(11,973)	0.236149	35,994	(2,827)	(9,146)	0.006075	(409)	(30,562)	0.766497	(39,872)
								(30,562)			(39,872)

Note 1: Amounts represent all revenue actually collected through 2018.

Interest Calculation

								Total Cumulative
2018 -		NC Program Costs	Revenue	Undercollected		Revenue	Undercollected	Under/Over
Rider 9	Month	Incurred	Collected	Balance	PPI	Collected	Balance	Collected
Beginning	g Balance	9,600,575	10,366,049	(765,474)	2,775,672	2,996,983.02	(221,311)	(986,784)
	January					-	-	(986,784)
	February					-	-	(986,784)
	March					-	-	(986,784)
	April					-	-	(986,784)
	May					-	-	(986,784)
	June					-	-	(986,784)
	July					-	-	(986,784)
	August					-	-	(986,784)
	September					-	-	(986,784)
	October					-	-	(986,784)
	November					-	-	(986,784)
	December					-	-	(986,784)
YTD Balar	nce	9,600,575	10,366,049	(765,474)	2,775,672	2,996,983	(221,311)	

Miller Exhibit 3, page 6A NO CHANGE

Duke Energy Carolinas, LLC Docket No. E-7, Sub 1192 Estimated Return Calculation - Residential DSM Programs Vintage 2016

Interest	Calculation
iliterest	Calculation

2019 - Rider 10 Month	NC Program Costs Incurred	Revenue Collected	Undercollected Balance	PPI	Revenue Collected	Undercollected Balance	Total Cumulative Over/Under Collected
Beginning Balance	9,600,575	10,366,049	(765,474)	2,775,672	2,996,983	(221,311)	(986,784)
January			-			-	(986,784)
February			-			-	(986,784)
March			-			-	(986,784)
April			-			-	(986,784)
May			-			-	(986,784)
June			-			-	(986,784)
July			-			-	(986,784)
August			-			-	(986,784)
September			-			-	(986,784)
October			-			-	(986,784)
November			-			-	(986,784)
December			-			-	(986,784)
YTD Balance	-	-	-		-	-	(986,784)
Cumulative Ending Bala	nce 9,600,575	10,366,049	(765,474)	2,775,672	2,996,983	(221,311)	(986,784)
Interest Calculation							
			Cumulative			Cumulative	Total Cumulative
2020-	NC Program Costs	Revenue	Under/(Over)coll		Revenue	Under/(Over)colle	Over/Under
	Incurred	Collected	ected Balance	PPI	Collected	cted Balance	Collected
Rider 11 Month		10,366,049	ected Balance (765,474)	PPI 2,775,672	2,996,983	cted Balance (221,311)	(986,784)
Rider 11 Month	Incurred						
Rider 11 Month Beginning Balance	Incurred	10,366,049	(765,474)	2,775,672	2,996,983	(221,311)	(986,784)
Rider 11 Month Beginning Balance January	Incurred	10,366,049 (38,138)	(765,474) (727,336)	2,775,672 (6,183)	2,996,983 (11,026)	(221,311) (216,467)	(986,784) (943,803)
Rider 11 Month Beginning Balance January February	Incurred	10,366,049 (38,138) (76,575)	(765,474) (727,336) (650,761)	2,775,672 (6,183) (6,183)	2,996,983 (11,026) (22,139)	(221,311) (216,467) (200,511)	(986,784) (943,803) (851,272)
Rider 11 Month Beginning Balance January February March	Incurred	10,366,049 (38,138) (76,575) (55,884)	(765,474) (727,336) (650,761) (594,877)	2,775,672 (6,183) (6,183) (6,183)	2,996,983 (11,026) (22,139) (16,157)	(221,311) (216,467) (200,511) (190,537)	(986,784) (943,803) (851,272) (785,414)
Rider 11 Month Beginning Balance January February March April	Incurred	10,366,049 (38,138) (76,575) (55,884) (56,295)	(765,474) (727,336) (650,761) (594,877) (538,582)	2,775,672 (6,183) (6,183) (6,183) (6,183)	2,996,983 (11,026) (22,139) (16,157) (16,276)	(221,311) (216,467) (200,511) (190,537) (180,443)	(986,784) (943,803) (851,272) (785,414) (719,025)
Rider 11 Month Beginning Balance January February March April May	Incurred	10,366,049 (38,138) (76,575) (55,884) (56,295) (49,007)	(765,474) (727,336) (650,761) (594,877) (538,582) (489,575)	2,775,672 (6,183) (6,183) (6,183) (6,183) (6,183)	2,996,983 (11,026) (22,139) (16,157) (16,276) (14,169)	(221,311) (216,467) (200,511) (190,537) (180,443) (172,458)	(986,784) (943,803) (851,272) (785,414) (719,025) (662,033)
Rider 11 Month Beginning Balance January February March April May June	Incurred	10,366,049 (38,138) (76,575) (55,884) (56,295) (49,007) (70,591)	(765,474) (727,336) (650,761) (594,877) (538,582) (489,575) (418,984)	2,775,672 (6,183) (6,183) (6,183) (6,183) (6,183) (6,183)	2,996,983 (11,026) (22,139) (16,157) (16,276) (14,169) (20,409)	(221,311) (216,467) (200,511) (190,537) (180,443) (172,458) (158,231)	(986,784) (943,803) (851,272) (785,414) (719,025) (662,033) (577,215)
Rider 11 Month Beginning Balance January February March April May June July	Incurred	10,366,049 (38,138) (76,575) (55,884) (56,295) (49,007) (70,591) (81,283)	(765,474) (727,336) (650,761) (594,877) (538,582) (489,575) (418,984) (337,701)	2,775,672 (6,183) (6,183) (6,183) (6,183) (6,183) (6,183) (6,183)	2,996,983 (11,026) (22,139) (16,157) (16,276) (14,169) (20,409) (23,500)	(221,311) (216,467) (200,511) (190,537) (180,443) (172,458) (158,231) (140,914)	(986,784) (943,803) (851,272) (785,414) (719,025) (662,033) (577,215) (478,615)
Rider 11 Month Beginning Balance January February March April May June July August	Incurred	10,366,049 (38,138) (76,575) (55,884) (56,295) (49,007) (70,591) (81,283) (74,657)	(765,474) (727,336) (650,761) (594,877) (538,582) (489,575) (418,984) (337,701) (263,044)	2,775,672 (6,183) (6,183) (6,183) (6,183) (6,183) (6,183) (6,183)	2,996,983 (11,026) (22,139) (16,157) (16,276) (14,169) (20,409) (23,500) (21,585)	(221,311) (216,467) (200,511) (190,537) (180,443) (172,458) (158,231) (140,914) (125,512)	(986,784) (943,803) (851,272) (785,414) (719,025) (662,033) (577,215) (478,615) (388,556)
Rider 11 Month Beginning Balance January February March April May June July August September	Incurred	10,366,049 (38,138) (76,575) (55,884) (56,295) (49,007) (70,591) (81,283) (74,657) (80,257)	(765,474) (727,336) (650,761) (594,877) (538,582) (489,575) (418,984) (337,701) (263,044) (182,787)	2,775,672 (6,183) (6,183) (6,183) (6,183) (6,183) (6,183) (6,183) (6,183)	2,996,983 (11,026) (22,139) (16,157) (16,276) (14,169) (20,409) (23,500) (21,585) (23,204)	(221,311) (216,467) (200,511) (190,537) (180,443) (172,458) (158,231) (140,914) (125,512) (108,491)	(986,784) (943,803) (851,272) (785,414) (719,025) (662,033) (577,215) (478,615) (388,556) (291,278)
Rider 11 Month Beginning Balance January February March April May June July August September October	Incurred	10,366,049 (38,138) (76,575) (55,884) (56,295) (49,007) (70,591) (81,283) (74,657) (80,257) (56,201)	(765,474) (727,336) (650,761) (594,877) (538,582) (489,575) (418,984) (337,701) (263,044) (182,787) (126,586)	2,775,672 (6,183) (6,183) (6,183) (6,183) (6,183) (6,183) (6,183) (6,183) (6,183)	2,996,983 (11,026) (22,139) (16,157) (16,276) (14,169) (20,409) (23,500) (21,585) (23,204) (16,249)	(221,311) (216,467) (200,511) (190,537) (180,443) (172,458) (158,231) (140,914) (125,512) (108,491) (98,425)	(986,784) (943,803) (851,272) (785,414) (719,025) (662,033) (577,215) (478,615) (388,556) (291,278) (225,011)
Rider 11 Month Beginning Balance January February March April May June July August September October November	Incurred	10,366,049 (38,138) (76,575) (55,884) (56,295) (49,007) (70,591) (81,283) (74,657) (80,257) (56,201) (51,817)	(765,474) (727,336) (650,761) (594,877) (538,582) (489,575) (418,984) (337,701) (263,044) (182,787) (126,586) (74,769)	2,775,672 (6,183) (6,183) (6,183) (6,183) (6,183) (6,183) (6,183) (6,183) (6,183) (6,183)	2,996,983 (11,026) (22,139) (16,157) (16,276) (14,169) (20,409) (23,500) (21,585) (23,204) (16,249) (14,981)	(221,311) (216,467) (200,511) (190,537) (180,443) (172,458) (158,231) (140,914) (125,512) (108,491) (98,425) (89,627)	(986,784) (943,803) (851,272) (785,414) (719,025) (662,033) (577,215) (478,615) (388,556) (291,78) (225,011) (164,396)
Rider 11 Month Beginning Balance January February March April May June July August September October November December	9,600,575	10,366,049 (38,138) (76,575) (55,884) (56,295) (49,007) (70,591) (81,283) (74,657) (80,257) (56,201) (51,817) (123,063)	(765,474) (727,336) (650,761) (594,877) (538,582) (489,575) (418,984) (337,701) (263,044) (182,787) (126,586) (74,769)	2,775,672 (6,183) (6,183) (6,183) (6,183) (6,183) (6,183) (6,183) (6,183) (6,183) (6,183) (6,183)	2,996,983 (11,026) (22,139) (16,157) (16,276) (14,169) (23,500) (21,585) (23,204) (16,249) (14,981) (35,579)	(221,311) (216,467) (200,511) (190,537) (180,443) (172,458) (158,231) (140,914) (125,512) (108,491) (98,425) (89,627) (60,267)	(986,784 (943,803 (851,272 (785,414 (719,025 (662,033 (577,215 (478,615 (388,556 (291,278 (225,011 (164,396 (11,973

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.

Revenue Requirement:		
Program Costs	(765,474)	0.78
PPI	(221,311)	0.22
Total	(986,784)	

Duke Energy Carolinas, LLC Docket No. E-7, Sub 1192 Estimated Return Calculation - Non- Residential EE Programs Vintage 2016

		Non-Residential				Percent				
		EE Program Costs	i	NC Allocated EE	Total Revenue	Attributable to	NC Residential	(Over)/Under		
NC Non-	Residential EE	Incurred	NC Allocation %	Program Costs	Collected	Program Costs	Revenue Collected	Collection		
			Miller Exhibit 5.						•	
			pg 3, Line 4							
Beginni	ng Balance - Source Ride	68,416,594		50,009,987	45,662,897	69.71121%	(31,832,160)	18,177,827		
2018	January		73.0962827%	-	679,787	45.63863%	(310,246)	(310,246)		
2018	February		73.0962827%	-	2,902,313	45.63863%	(1,324,576)	(1,324,576)		
2018	March		73.0962827%	-	2,586,992	45.63863%	(1,180,668)	(1,180,668)	Program Costs to be Recovered in Rider 9	18,177,827
2018	April		73.0962827%	-	2,741,877	45.63863%	(1,251,355)	(1,251,355)	Revenues to be Collected in Rider 9	39,829,912
2018	May		73.0962827%	-	2,801,556	45.63863%	(1,278,592)	(1,278,592)		
2018	June		73.0962827%	-	3,405,104	45.63863%	(1,554,043)	(1,554,043)	% Revenue to be assigned to Program Costs	0.4564
2018	July		73.0962827%	-	3,471,798	45.63863%	(1,584,481)	(1,584,481)		
2018	August		73.0962827%	-	3,444,453	45.63863%	(1,572,001)	(1,572,001)		
2018	September		73.0962827%	-	3,831,885	45.63863%	(1,748,820)	(1,748,820)		
2018	October		73.0962827%	-	4,000,975	45.63863%	(1,825,990)	(1,825,990)		
2018	November		73.0962827%	-	2,724,564	45.63863%	(1,243,454)	(1,243,454)		
2018	December		73.0962827%	-	3,701,529	45.63863%	(1,689,327)	(1,689,327)		
		-	_	50,009,987	81,955,731		(48,395,713)	1,614,274	•	

		Cumulative			Cumulative	Net Deferred				Gross up of	
		(Over)/Under	Current Income	Monthly Deferred	Deferred Income	After Tax		Monthly A/T Return	YTD After Tax	Return to	Gross up of Return
NC Non-	-Residential EE	Recovery	Tax Rate	Income Tax	Tax	Balance	Monthly Return	on Deferral	Interest	Pretax Rate	to Pretax
	-		2018				7.29%			0.766497	
							6.83%				
Beginni	ng Balance - Source Ride	18,177,827			4,292,676						
2018	January	17,867,582	0.236149	(73,264.18)	4,219,412	13,648,170	0.006075	41,456	41,456	0.766497	54,085
2018	February	16,543,006	0.236149	(312,797.25)	3,906,614	12,636,391	0.006075	79,839	121,296	0.766497	158,247
2018	March	15,362,338	0.236149	(278,813.47)	3,627,801	11,734,537	0.006075	74,027	195,322	0.766497	254,825
2018	April	14,110,983	0.236149	(295,506.26)	3,332,295	10,778,689	0.006075	68,384	263,706	0.766497	344,041
2018	May	12,832,391	0.236149	(301,938.21)	3,030,356	9,802,035	0.006075	62,514	326,220	0.766497	425,599
2018	June	11,278,348	0.236149	(366,985.70)	2,663,371	8,614,977	0.006075	55,942	382,162	0.766497	498,582
2018	July	9,693,867	0.236149	(374,173.59)	2,289,197	7,404,670	0.006075	48,660	430,822	0.766497	562,066
2018	August	8,121,866	0.236149	(371,226.57)	1,917,970	6,203,895	0.006075	41,336	472,158	0.766497	615,994
2018	September	6,373,046	0.236149	(412,982.12)	1,504,988	4,868,057	0.006075	33,631	505,789	0.766497	659,870
2018	October	4,547,055	0.236149	(431,205.81)	1,073,783	3,473,273	0.006075	25,337	531,125	0.766497	692,926
2018	November	3,303,601	0.236149	(293,640.40)	780,142	2,523,459	0.006075	18,215	549,341	0.766497	716,690
2018	December	1,614,274	0.236149	(398,932.93)	381,209	1,233,065	0.006075	11,410	560,751	0.766497	731,576
								560,751		[731,576

Duke Energy Carolinas, LLC Docket No. E-7, Sub 1192 Estimated Return Calculation -Non - Residential DSM Programs Vintage 2016

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
			2018				7.29% 6.83%			0.766497	
Roginnie	ng Balance - Source Ride	45,391			10,719	34,672	0.05/0				
2018	January	38,152	0.236149	(1,710)	9,010	29,142	0.006075	194	194	0.766497	253
2018	February	(3,375)	0.236149	(9,807)	(797)	(2,578)	0.006075		275	0.766497	
2018	March	(39,808)	0.236149	(8,604)	(9,401)	(30,407)	0.006075		174	0.766497	
2018	April	(17,951)	0.236149	5,161	(4,239)	(13,712)	0.006075		40	0.766497	
2018	May	(42,359)	0.236149	(5,764)	(10,003)	(32,356)	0.006075		(100)	0.766497	
2018	June	(71,615)	0.236149	(6,909)	(16,912)	(54,703)	0.006075	(264)	(364)	0.766497	(475)
2018	July	(102,080)	0.236149	(7,194)	(24,106)	(77,974)	0.006075	(403)	(767)	0.766497	(1,001)
2018	August	(131,902)	0.236149	(7,042)	(31,148)	(100,753)	0.005692	(509)	(1,276)	0.766497	(1,664)
2018	September	(164,952)	0.236149	(7,805)	(38,953)	(125,999)	0.005692	(645)	(1,921)	0.766497	(2,506)
2018	October	(199,743)	0.236149	(8,216)	(47,169)	(152,574)	0.005692	(793)	(2,714)	0.766497	(3,540)
2018	November	(223,833)	0.236149	(5,689)	(52,858)	(170,975)	0.005692	(921)	(3,635)	0.766497	(4,742)
2018	December	(250,377)	0.236149	(6,268)	(59,126)	(191,251)	0.005692	(1,031)	(4,665)	0.766497	(6,087)
								(4,665)			(6,087)

Note 1: Amounts represent all revenue actually collected through 2018.

Interest Calculation

								Total Cumulative			
2018 -		NC Program Costs	Revenue	Undercollected		Revenue		Under/Over			
Rider 9	Month	Incurred	Collected	Balance	PPI	Collected	Undercollected Balance	Collected			%
Beginning	g Balance	11,594,497	11,354,396	240,102	3,352,151	3,282,731	69,419	309,521	DSM Program Costs	11,594,497	0.78
	January					-	-	309,521	DSM PPI & GRT	3,352,151	0.22
	February					-	-	309,521	Total Revenue Requirement	14,946,648	
	March					-	-	309,521			
	April					-	-	309,521			
	May					-	-	309,521			
	June					-	-	309,521			
	July					-	-	309,521			
	August					-	-	309,521			
	September					-		309,521			
	October					-	-	309,521			
	November					-	-	309,521			
	December					-	-	309,521			
YTD Balar	nce	11,594,497	11,354,396	240,102	3,352,151	3,282,731	69,419				

Duke Energy Carolinas, LLC Docket No. E-7, Sub 1192 Estimated Return Calculation -Non - Residential DSM Programs Vintage 2016

Interest Calculation

							Total Cumulative			
2019 -	NC Program Costs	Revenue	Undercollected		Revenue		Over/Under			
Rider 10 Month	Incurred	Collected	Balance	PPI	Collected	Undercollected Balance	Collected			
Beginning Balance	11,594,497	11,354,396	240,102	3,352,151	3,282,731	69,419	309.521	Note: There was no Non-Resident	tial DSM Rider in Rider 10.	
January	11,55 1, 157	192,582	(192,582)	3,332,131	55,678	(55,678)		All revenues collected represented		
February		1,806	(1,806)		522	(522)	58,933			
March		(2,074)			(600)	600	61,607		, , , , , , , , , , , , , , , , , , , ,	
April		(294)			(85)	85	61,986			
May		20			6	(6)	61,960			
June		(7)			(2)	2	61,969			
July		(4)			(1)	1	61,974			
August		(2,270)			(656)	656	64,901			
September		(31)	31		(9)	9	64,940			
October		8	(8)		2	(2)	64,930			
November		(8)			(2)	2	64,940			
December		4,982	(4,982)		1,440	(1,440)	58,517			
YTD Balance	-	194,710	(194,710)	-	56,294	(56,294)	58,517	=		
Cumulative Ending Balance	11,594,497	11,549,106	45,391	3,352,151	3,339,025	13,125	58,517			
Interest Calculation										
			Cumulative			Cumulative	Total Cumulative			
2020-	NC Program Costs	Revenue	Under/(Over)collected		Revenue	Under/(Over)collected	Over/Under			
Rider 11 Month	Incurred	Collected	Balance	PPI	Collected	Balance	Collected	=		
Beginning Balance	11,594,497	11,549,106	45,391	3,352,151	3,339,025	13,125	58.517	Revenue Requirement:		
January	,_,	7,239	38,152	(485)	(3,286)	15,927		Program Costs	45,391	1.83
February		41,527	(3,375)	(2,780)	(18,850)	31,998	28,623		(20,605)	(0.83)
March		36,433	(39,808)	(2,439)	(16,538)	46,097	6,289		24,787	(/
April		39,543	(79,351)	(2,647)	(17,950)	61,400	(17,951)		·	
May		39,817	(119,168)	(2,665)	(18,074)	76,809	(42,359)			
June		47,726	(166,894)	(3,195)	(21,665)	95,279	(71,615)	Revenue Collected:	276,923	
July		49,697	(216,591)	(3,327)	(22,559)	114,511	(102,080)	Less Interest collected:	1,759	
August		48,648	(265,240)	(3,256)	(22,083)	133,338	(131,902)	Total	275,164	
September		53,916	(319,155)	(3,609)	(24,474)	154,203	(164,952)			
October		56,754	(375,909)	(3,799)	(25,763)	176,167	(199,743))		
November		39,300	(415,209)	(2,631)	(17,839)	191,375	(223,833)			
December		43,300	(458,509)	(2,898)	(19,655)	208,133	(250,377))		
YTD Balance	-	503,901	(458,509)	(33,730)	(228,737)	208,133	(250,377))		
Cumulative Ending Balance	11,594,497	12,053,007	(458,509)	3,318,420	3,110,288	208,133	(250,377))		

Reconciliation to Filing - Exhibit 2 page 2 :

Interest not yet paid Rider 10 & 11	(2,667
Revenue not yet given back	267,721
	14,678
Exhibit 2 page 2 Line 35	14,674
	3

Duke Energy Carolinas, LLC Docket No. E-7, Sub 1192 Estimated Return Calculation - Residential EE Programs Vintage 2017

NC Resid	dential EE	Residential EE 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
			Miller Exhibit 5					
			pg. 4, Line 4			see calc. at right		
2018	January	65,222,734	72.8087506%	47,487,858	49,132,586	59.7964%	(29,379,532)	18,108,325
2018	February	03,222,734	72.8087506%		45,152,500	0.0000%		10,100,525
2018	March		72.8087506%	_		0.0000%		_
2018	April		72.8087506%	_		0.0000%	_	_
2018	May		72.8087506%	-		0.0000%	-	-
2018	June		72.8087506%	-		0.0000%	-	-
2018	July		72.8087506%	-		0.0000%	-	-
2018	August		72.8087506%	-		0.0000%	-	-
2018	September		72.8087506%	-		0.0000%	-	-
2018	October		72.8087506%	-		0.0000%	-	-
2018	November		72.8087506%	-		0.0000%	-	-
2018	December		72.8087506%	-		0.0000%	-	-
		65,222,734		47,487,858	49,132,586			18,108,325

Note: All revenues collected in Rider 9 were to collect Y2 of lost revenue. Therefore, no revenue received in 2018 would offset the under collected balance of program costs and a return would still be earned.

NC Resid	dential EE	Cumulative (Over)/Under Recovery	Current Income Tax Rate 2018	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 0.766497	Gross up of Return to Pretax
			2016				6.83%			0.766497	
2018	January	18,108,325	0.236149	4,276,263	4,276,263	13,832,063	0.006075	42,015	42,015	0.766497	54,814
2018	February	18,108,325	0.236149		4,276,263	13,832,063	0.006075		126,045	0.766497	164,442
2018	March	18,108,325	0.236149		4,276,263	13,832,063	0.006075		210,074	0.766497	274,071
2018	April	18,108,325	0.236149		4,276,263	13,832,063	0.006075	. ,	294,104	0.766497	383,699
2018	May	18,108,325	0.236149		4,276,263	13,832,063	0.006075		378,134	0.766497	493,327
2018	June	18,108,325	0.236149	-	4,276,263	13,832,063	0.006075	84,030	462,164	0.766497	602,956
2018	July	18,108,325	0.236149	-	4,276,263	13,832,063	0.006075	84,030	546,194	0.766497	712,584
2018	August	18,108,325	0.236149	-	4,276,263	13,832,063	0.005692	78,727	624,921	0.766497	815,295
2018	September	18,108,325	0.236149	-	4,276,263	13,832,063	0.005692	78,727	703,649	0.766497	918,006
2018	October	18,108,325	0.236149	-	4,276,263	13,832,063	0.005692	78,727	782,376	0.766497	1,020,716
2018	November	18,108,325	0.236149	-	4,276,263	13,832,063	0.005692	78,727	861,104	0.766497	1,123,427
2018	December	18,108,325	0.236149	-	4,276,263	13,832,063	0.005692	78,727	939,831	0.766497	1,226,138
								939,831			1,226,138

Duke Energy Carolinas, LLC Docket No. E-7, Sub 1192 Estimated Return Calculation - Residential DSM Programs Vintage 2017

		Total System NC	NC Residential	NC Allocated		NC Residential	DSM Program	
		DSM Program	DSM Allocation	DSM Residential	NC Residential	DSM Program	Costs Revenue	(Over)/Under
NC Resid	lential DSM	Costs Incurred	%	Program Costs	Revenue Collected	Collection %	Collected	Collection
			Miller Exhibit 5,					
			pg 4 Line 9			See calc. at right		
2018	January	29,822,653	33.8075104%	10,082,297	12,781,955	77.3907656%	(9,892,053)	190,244
2018	February		33.8075104%	-			-	-
2018	March		33.8075104%	-			-	-
2018	April		33.8075104%	-			-	-
2018	May		33.8075104%	-			-	-
2018	June		33.8075104%	-			-	-
2018	July		33.8075104%	-			-	-
2018	August		33.8075104%	-			-	-
2018	September		33.8075104%	-			-	-
2018	October		33.8075104%	-			-	-
2018	November		33.8075104%	-			-	-
2018	December		33.8075104%	-		_	-	
		29,822,653	-	10,082,297	12,781,955		(9,892,053)	190,244

Note: All revenues collected in Rider 9 were to collect Y2 of lost revenue. Therefore, no revenue received in 2018 would offset the under collected balance of program costs and a return would still be earned.

NC Resid	dential DSM	Cumulative (Over)/Under Recovery	Current Income Tax Rate 2018	Monthly Deferred Income Tax	Cumulative Deferred Income Tax	Net Deferred After Tax Balance	Monthly Return 7.29% 6.83%	Monthly A/T Return on Deferral	YTD After Tax Interest	Gross up of Return to Pretax Rate 0.766497	Gross up of Return to Pretax
2018	January	190,244	0.236149	44,926	44,926	145,318	0.006075	441	441	0.766497	576
2018	February	190,244	0.236149	-	44,926	145,318	0.006075	883	1,324	0.766497	1,728
2018	March	190,244	0.236149	-	44,926	145,318	0.006075	883	2,207	0.766497	2,879
2018	April	190,244	0.236149	-	44,926	145,318	0.006075	883	3,090	0.766497	4,031
2018	May	190,244	0.236149	-	44,926	145,318	0.006075	883	3,973	0.766497	5,183
2018	June	190,244	0.236149	-	44,926	145,318	0.006075	883	4,855	0.766497	6,335
2018	July	190,244	0.236149	-	44,926	145,318	0.006075	883	5,738	0.766497	7,486
2018	August	190,244	0.236149	-	44,926	145,318	0.005692	827	6,565	0.766497	8,565
2018	September	190,244	0.236149	-	44,926	145,318	0.005692	827	7,392	0.766497	9,644
2018	October	190,244	0.236149	-	44,926	145,318	0.005692	827	8,220	0.766497	10,724
2018	November	190,244	0.236149	-	44,926	145,318	0.005692	827	9,047	0.766497	11,803
2018	December	190,244	0.236149	-	44,926	145,318	0.005692	827	9,874	0.766497	12,882
								9,874			12,882

Duke Energy Carolinas, LLC Docket No. E-7, Sub 1192 Estimated Return Calculation - Non- Residential EE Programs Vintage 2017

NC Non-

NC Non-	Residential EE	Non-Residential EE Program Costs Incurred	NC Allocation % Miller Exhibit 5. pg 4, Line 4	NC Allocated EE Program Costs	NC Residential Revenue Collected	Residential EE Program Collection %	Non-Residential EE Program Costs Revenue Collected	(Over)/Under Collection
2018	January	97,443,527	72.8087506%	70,947,415	46,928,129	65.9170989%	(30,933,661)	40,013,754
2018	February			-			-	-
2018	March			-			-	-
2018	April			-			-	-
2018	May			-			-	-
2018	June			-			-	-
2018	July			-			-	-
2018	August			-			-	-
2018	September			-			-	-
2018	October			-			-	-
2018	November			-			-	-
2018	December			-			-	-
		97,443,527	_	70,947,415	46,928,129		(30,933,661)	40,013,754

Note: All revenues collected in Rider 9 were to collect Y2 of lost revenue. Therefore, no revenue received in 2018 would offset the under collected balance of program costs and a return would still be earned.

		Cumulative			Cumulative	Net Deferred				Gross up of	
		(Over)/Under	Current Income	Monthly Deferred	Deferred Income	After Tax		Monthly A/T Return	YTD After Tax	Return to	Gross up of Return to
NC Non-	Residential EE	Recovery	Tax Rate	Income Tax	Tax	Balance	Monthly Return	on Deferral	Interest	Pretax Rate	Pretax
			2018				7.29%			0.766497	
							6.83%				
2018	January	40,013,754	0.236149	9,449,208.08	9,449,208	30,564,546	0.006075	92,840	92,840	0.766497	121,122
2018	February	40,013,754	0.236149	-	9,449,208	30,564,546	0.006075		278,519	0.766497	363,367
2018	March	40,013,754	0.236149	_	9,449,208	30,564,546	0.006075		464,199	0.766497	605,611
2018	April	40,013,754	0.236149	_	9,449,208	30,564,546	0.006075		649,879	0.766497	847,855
2018	May	40,013,754	0.236149	-	9,449,208	30,564,546	0.006075		835,558	0.766497	1,090,100
2018	June	40,013,754	0.236149	-	9,449,208	30,564,546	0.006075	185,680	1,021,238	0.766497	1,332,344
2018	July	40,013,754	0.236149	-	9,449,208	30,564,546	0.006075	185,680	1,206,918	0.766497	1,574,589
2018	August	40,013,754	0.236149	-	9,449,208	30,564,546	0.005692	173,963	1,380,881	0.766497	1,801,547
2018	September	40,013,754	0.236149	-	9,449,208	30,564,546	0.005692	173,963	1,554,844	0.766497	2,028,506
2018	October	40,013,754	0.236149	-	9,449,208	30,564,546	0.005692	173,963	1,728,807	0.766497	2,255,465
2018	November	40,013,754	0.236149	-	9,449,208	30,564,546	0.005692	173,963	1,902,770	0.766497	2,482,424
2018	December	40,013,754	0.236149	-	9,449,208	30,564,546	0.005692	173,963	2,076,734	0.766497	2,709,383
								2,076,734			2,709,383

Duke Energy Carolinas, LLC Docket No. E-7, Sub 1192 Estimated Return Calculation -Non - Residential DSM Programs Vintage 2017

						NC Non-		
		Total System NC	NC Non-	NC Allocated DSM Non-	NC Non-Residential	Residential DSM	Non-Residential	
		DSM Program	Residential DSM	Residential Program	DSM Revenue	Program	DSM Program Costs	(Over)/Under
NC Non-	Residential DSM	Costs Incurred	Allocation %	Costs	Collected	Collection %	Revenue Collected	Collection
			See Miller					
			Exhibit 5 pg. 4,					
			Line 10					
Beginning	g Balance	29,822,653	40.0747013%	11,951,339	15,361,431	77.3901377%	(11,888,233)	63,106
2018	January				-	77.3901377%		
2018	February	-		-	289	77.3901377%	(223)	(223)
2018	March	-		-	114	77.3901377%	(88)	(88)
2018	April	-		-	(135)	77.3901377%	104	104
2018	May	-		-	(109)	77.3901377%	85	85
2018	June	-		-	(46)	77.3901377%	36	36
2018	July	-		-	71	77.3901377%	(55)	(55)
2018	August	-		-	(48)	77.3901377%	37	37
2018	September	-		-	(2)	77.3901377%	2	2
2018	October	-		-	(2)	77.3901377%	2	2
2018	November	-		-	(0)	77.3901377%	0	0
2018	December				(1,215)	77.3901377%	940	940
		29,822,653	=	11,951,339	15,360,347	=	(11,887,394)	63,945

No rider was collected in 2018 for Vintage 2017. All revenue collected in 2018 represents bill corrections. Amounts allocated at same % as calculated in Rider 9.

		Cumulative			Cumulative	Net Deferred				Gross up of	
		(Over)/Under	Current Income	Monthly Deferred	Deferred Income	After Tax		Monthly A/T Return	YTD After Tax	Return to Pretax	Gross up of Return
NC Non-	Residential DSM	Recovery	Tax Rate	Income Tax	Tax	Balance	Monthly Return	on Deferral	Interest	Rate	to Pretax
			2018				7.29%			0.766497	
							6.83%				
2018	January	63,106	0.236149	14,903	14,903	48,204	0.006075	146	146	0.766497	191
2018	February	62,883	0.236149	(53)	14,850	48,033	0.006075	292	439	0.766497	572
2018	March	62,795	0.236149	(21)	14,829	47,966	0.006075	292	730	0.766497	953
2018	April	62,899	0.236149	25	14,854	48,046	0.006075	292	1,022	0.766497	1,333
2018	May	62,984	0.236149	20	14,874	48,110	0.006075	292	1,314	0.766497	1,714
2018	June	63,019	0.236149	8	14,882	48,137	0.006075	292	1,606	0.766497	2,096
2018	July	62,964	0.236149	(13)	14,869	48,095	0.006075	292	1,899	0.766497	2,477
2018	August	63,002	0.236149	9	14,878	48,124	0.005692	274	2,173	0.766497	2,834
2018	September	63,003	0.236149	0	14,878	48,125	0.005692	274	2,446	0.766497	3,192
2018	October	63,005	0.236149	0	14,879	48,126	0.005692	274	2,720	0.766497	3,549
2018	November	63,005	0.236149	0	14,879	48,126	0.005692	274	2,994	0.766497	3,906
2018	December	63,945	0.236149	222	15,101	48,845	0.005692	276	3,270	0.766497	4,266
								3,270			4,266

Duke Energy Carolinas, LLC Docket No. E-7, Sub 1192 Estimated Return Calculation - Residential EE Programs Vintage 2018

NC Residential EE		Residential EE 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
			Miller Exhibit 5					
			pg. 4, Line 4			see calc. at right		
2018	January	6,092,327	72.7130507%	4,429,917	3,364,993	65.0094%	(2,187,562)	2,242,355
2018	February	4,207,163	72.7130507%	3,059,157	6,611,534	65.0094%	(4,298,120)	(1,238,963)
2018	March	4,408,777	72.7130507%	3,205,756	4,863,891	65.0094%	(3,161,987)	43,769
2018	April	4,357,763	72.7130507%	3,168,662	4,898,653	65.0094%	(3,184,586)	(15,923)
2018	May	1,949,686	72.7130507%	1,417,676	4,283,009	65.0094%	(2,784,359)	(1,366,683)
2018	June	9,594,979	72.7130507%	6,976,802	6,106,131	65.0094%	(3,969,560)	3,007,241
2018	July	7,017,359	72.7130507%	5,102,536	7,009,187	65.0094%	(4,556,632)	545,904
2018	August	8,991,684	72.7130507%	6,538,128	6,449,559	65.0094%	(4,192,821)	2,345,307
2018	September	4,496,588	72.7130507%	3,269,606	6,922,525	65.0094%	(4,500,293)	(1,230,687)
2018	October	7,847,725	72.7130507%	5,706,320	4,890,719	65.0094%	(3,179,428)	2,526,893
2018	November	7,870,683	72.7130507%	5,723,014	4,520,378	65.0094%	(2,938,671)	2,784,343
2018	December	10,497,084	72.7130507%	7,632,750	10,538,080	65.0094%	(6,850,745)	782,005
		77,331,818	=' '	56,230,324	70,458,658	_		10,425,561

EE Program Costs	56,230,326
EE Revenue Requirement	86,495,661
% Revenue related to Program Costs	65.0094%

NC Resid	dential EE	Cumulative (Over)/Under Recovery	Current Income Tax Rate 2018	Monthly Deferred Income Tax	Cumulative Deferred Income Tax	Net Deferred After Tax Balance	Monthly Return 7.29% 6.83%	Monthly A/T Return on Deferral	YTD After Tax Interest	Gross up of Return to Pretax Rate 0.766497	Gross up of Return to Pretax
2018	January	2,242,355	0.236149	529,530	529,530	1,712,825	0.006075	5,203	5,203	0.766497	6,788
2018	February	1,003,391	0.236149	(292,580)	236,950	766,441	0.006075	7,531	12,733	0.766497	16,613
2018	March	1,047,161	0.236149	10,336	247,286	799,875	0.006075	4,758	17,491	0.766497	22,820
2018	April	1,031,237	0.236149	(3,760)	243,526	787,712	0.006075	4,822	22,313	0.766497	29,111
2018	May	(335,445)	0.236149	(322,741)	(79,215)	(256,230)	0.006075	1,614	23,928	0.766497	31,217
2018	June	2,671,796	0.236149	710,157	630,942	2,040,854	0.006075	5,421	29,349	0.766497	38,289
2018	July	3,217,700	0.236149	128,915	759,857	2,457,843	0.006075	13,665	43,013	0.766497	56,117
2018	August	5,563,007	0.236149	553,842	1,313,699	4,249,308	0.005692	19,087	62,101	0.766497	81,019
2018	September	4,332,320	0.236149	(290,625)	1,023,073	3,309,247	0.005692	21,510	83,611	0.766497	109,082
2018	October	6,859,213	0.236149	596,723	1,619,796	5,239,417	0.005692	24,328	107,939	0.766497	140,822
2018	November	9,643,555	0.236149	657,520	2,277,316	7,366,239	0.005692	35,874	143,813	0.766497	187,624
2018	December	10,425,561	0.236149	184,670	2,461,986	7,963,575	0.005692	43,626	187,439	0.766497	244,540
								187,439			244,540

Note 1: Amounts represent all revenue actually collected through 2018.

Duke Energy Carolinas, LLC Docket No. E-7, Sub 1192 Estimated Return Calculation - Residential DSM Programs Vintage 2018

NC Resi	dential EE	Residential EE 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
			Miller Exhibit 5					
			pg. 4, Line 9			see calc. at right		
2018	January	1,796,566	32.1574721%	577,730	629,131	78.9680%	(496,812)	80,919
2018	February	1,530,759	32.1574721%	492,253	1,236,115	78.9680%		(483,881)
2018	March	1,744,325	32.1574721%	560,931	909,370	78.9680%		(157,180
2018	April	1,806,257	32.1574721%	580,847	915,869	78.9680%	(723,243)	(142,396)
2018	May	1,425,924	32.1574721%	458,541	800,766	78.9680%	(632,349)	(173,807
2018	June	3,051,553	32.1574721%	981,302	1,141,623	78.9680%	(901,517)	79,786
2018	July	3,527,230	32.1574721%	1,134,268	1,310,462	78.9680%	(1,034,845)	99,423
2018	August	3,581,196	32.1574721%	1,151,622	1,205,832	78.9680%	(952,221)	199,402
2018	September	4,029,852	32.1574721%	1,295,899	1,294,259	78.9680%	(1,022,050)	273,849
2018	October	3,506,777	32.1574721%	1,127,691	914,386	78.9680%	(722,072)	405,619
2018	November	1,643,444	32.1574721%	528,490	845,145	78.9680%	(667,394)	(138,904
2018	December	2,765,522	32.1574721%	889,322	1,970,236	78.9680%	(1,555,855)	(666,533
		30,409,405	-	9,778,896	13,173,193		(10,402,600)	(623,705

DSM Program Costs	9,778,895
DSM Revenue Requirement	12,383,372
% Revenue related to Program Costs	78.9680%

NC Resid	lential 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
			2018				7.29%			0.766497	,
							6.83%				
2018	January	80,919	0.236149	19,109	19,109	61,810	0.006075	188	188	0.766497	245
2018	February	(402,963)	0.236149	(114,268)	(95,159)	(307,803)	0.006075	(747)	(559)	0.766497	(730)
2018	March	(560,143)	0.236149	(37,118)	(132,277)	(427,865)	0.006075	(2,235)	(2,794)	0.766497	(3,645)
2018	April	(702,539)	0.236149	(33,627)	(165,904)	(536,635)	0.006075	(2,930)	(5,724)	0.766497	(7,467)
2018	May	(876,346)	0.236149	(41,044)	(206,948)	(669,398)	0.006075	(3,663)	(9,387)	0.766497	(12,247)
2018	June	(796,561)	0.236149	18,841	(188,107)	(608,454)	0.006075	(3,881)	(13,269)	0.766497	(17,311)
2018	July	(697,137)	0.236149	23,479	(164,628)	(532,509)	0.006075	(3,466)	(16,734)	0.766497	(21,832)
2018	August	(497,736)	0.236149	47,088	(117,540)	(380,196)	0.006075	(2,772)	(19,507)	0.766497	(25,449)
2018	September	(223,887)	0.236149	64,669	(52,871)	(171,016)	0.005692	(1,569)	(21,075)	0.766497	(27,495)
2018	October	181,732	0.236149	95,787	42,916	138,816	0.005692	(92)	(21,167)	0.766497	(27,615)
2018	November	42,828	0.236149	(32,802)	10,114	32,714	0.005692	488	(20,679)	0.766497	(26,978)
2018	December	(623,705)	0.236149	(157,401)	(147,287)	(476,417)	0.005692	(1,263)	(21,941)	0.766497	(28,626)
								(21,941)			(28,626)

Duke Energy Carolinas, LLC Docket No. E-7, Sub 1192 Estimated Return Calculation - Non- Residential EE Programs Vintage 2018

NC Non-

NC Non- Residential EE		Non-Residential EE Program Costs Incurred	NC Allocation % Miller Exhibit 5.	NC Allocated EE Program Costs	NC Residential Revenue Collected	Residential EE Program Collection %	Non-Residential EE Program Costs Revenue Collected	(Over)/Under Collection
			pg 4, Line 4			See calc. at right		
2018	January	4,673,061	72.7130507%	3,397,925	1,957,913	54.3089677%	(1,063,322)	2,334,603
2018	February	7,695,239	72.7130507%	5,595,443	4,028,107	54.3089677%	(2,187,623)	3,407,820
2018	March	3,924,553	72.7130507%	2,853,662	3,609,259	54.3089677%	(1,960,151)	893,511
2018	April	3,329,880	72.7130507%	2,421,257	3,808,504	54.3089677%	(2,068,359)	352,898
2018	May	3,622,228	72.7130507%	2,633,832	3,892,120	54.3089677%	(2,113,770)	520,062
2018	June	3,399,916	72.7130507%	2,472,183	4,770,029	54.3089677%	(2,590,554)	(118,371)
2018	July	4,064,438	72.7130507%	2,955,377	4,861,345	54.3089677%	(2,640,146)	315,231
2018	August	3,790,914	72.7130507%	2,756,489	4,804,248	54.3089677%	(2,609,138)	147,352
2018	September	3,217,141	72.7130507%	2,339,281	5,326,524	54.3089677%	(2,892,780)	(553,499)
2018	October	3,753,904	72.7130507%	2,729,578	5,686,288	54.3089677%	(3,088,164)	(358,586)
2018	November	3,782,445	72.7130507%	2,750,331	3,774,427	54.3089677%	(2,049,852)	700,479
2018	December	6,010,729	72.7130507%	4,370,584	5,480,038	54.3089677%	(2,976,152)	1,394,432
		51,264,448	_	37,275,944	51,998,801		(28,240,012)	9,035,932

Non-Res EE Program Costs	37,275,944 68,636,812
Non-Res EE Revenue Requirement	68,636,812
2/ Bayanya ralatad ta Bragram Casts	E 40/

		Cumulative			Cumulative	Net Deferred				Gross up of	
		(Over)/Under	Current Income	Monthly Deferred	Deferred Income	After Tax		Monthly A/T Return	YTD After Tax	Return to	Gross up of Return to
NC Non-Residential EE		Recovery	Tax Rate	Income Tax	Tax	Balance	Monthly Return	on Deferral	Interest	Pretax Rate	Pretax
		2018					7.29%			0.766497	
							6.83%				
2018	January	2,334,603	0.236149	551,314.18	551,314	1,783,289	0.006075	5,417	5,417	0.766497	7,067
2018	February	5,742,423	0.236149	804,753.18	1,356,067	4,386,355	0.006075	18,740	24,157	0.766497	31,516
2018	March	6,635,934	0.236149	211,001.75	1,567,069	5,068,865	0.006075	28,720	52,877	0.766497	68,986
2018	April	6,988,832	0.236149	83,336.56	1,650,406	5,338,426	0.006075	31,612	84,489	0.766497	110,228
2018	May	7,508,894	0.236149	122,812.19	1,773,218	5,735,676	0.006075	33,638	118,127	0.766497	154,113
2018	June	7,390,523	0.236149	(27,953.21)	1,745,265	5,645,258	0.006075	34,570	152,697	0.766497	199,214
2018	July	7,705,754	0.236149	74,441.40	1,819,706	5,886,048	0.006075	35,026	187,723	0.766497	244,910
2018	August	7,853,105	0.236149	34,796.93	1,854,503	5,998,602	0.005692	33,822	221,545	0.766497	289,035
2018	September	7,299,607	0.236149	(130,708.16)	1,723,795	5,575,812	0.005692	32,939	254,484	0.766497	332,008
2018	October	6,941,021	0.236149	(84,679.72)	1,639,115	5,301,906	0.005692	30,956	285,440	0.766497	372,395
2018	November	7,641,499	0.236149	165,417.36	1,804,532	5,836,967	0.005692	31,699	317,139	0.766497	413,751
2018	December	9,035,932	0.236149	329,293.83	2,133,826	6,902,106	0.005692	36,253	353,392	0.766497	461,049
								353,392			461,049

DSM Program Costs

37,743

DSM Revenue Requirement

% Revenue related to Program Costs

12,611,170

15,969,985

79%

Duke Energy Carolinas, LLC Docket No. E-7, Sub 1192 Estimated Return Calculation -Non - Residential DSM Programs Vintage 2018

28,930

NC Nor	n- Residential DSM	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 Miller Exhibit 5 pg. 4, Line 10								_
2018	January	1,796,566	41.4712829%	745,059	517,085	78.9679563%	(408,332)	336,727			
2018	February	1,530,759	41.4712829%	634,825	1,108,919	78.9679563%	(875,690)	(240,865)			
2018	March	1,744,325	41.4712829%	723,394	976,678	78.9679563%	(771,263)	(47,869)			
2018	April	1,806,257	41.4712829%	749,078	1,056,527	78.9679563%	(834,318)	(85,240)			
2018	May	1,425,924	41.4712829%	591,349	1,064,087	78.9679563%	(840,288)	(248,939)			
2018	June	3,051,553	41.4712829%	1,265,518	1,275,106	78.9679563%	(1,006,925)	258,593			
2018	July	3,527,230	41.4712829%	1,462,788	1,327,182	78.9679563%	(1,048,049)	414,739			
2018	August	3,581,196	41.4712829%	1,485,168	1,298,531	78.9679563%	(1,025,424)	459,744			
2018	September	4,029,852	41.4712829%	1,671,231	1,432,259	78.9679563%	(1,131,025)	540,206			
2018	October	3,506,777	41.4712829%	1,454,305	1,521,526	78.9679563%	(1,201,518)	252,788			
2018	November	1,643,444	41.4712829%	681,557	1,048,352	78.9679563%	(827,863)	(146,305)			
2018	December	2,765,522	41.4712829%	1,146,897	1,448,672	78.9679563%	(1,143,986)	2,911			
		30,409,405		12,611,170	14,074,924		(11,114,680)	1,496,491			
		Cumulative			Cumulative	Net Deferred				Gross up of	
		(Over)/Under	Current Income	Monthly Deferred	Deferred Income	After Tax		Monthly A/T Return	YTD After Tax		Gross up of Return
NC Nor	n-Residential DSM	Recovery	Tax Rate	Income Tax	Tax	Balance	Monthly Return	on Deferral	Interest	Rate	to Pretax
1101101	. nesidential boili		2018				7.29%			0.766497	
			2010				6.83%			0.700437	
2018	January	336,727	0.236149	79,518	79,518	257,209	0.006075	781	781	0.766497	1,019
2018	February	95,862	0.236149	(56,880)	22,638	73,224	0.006075	1,004	1,785	0.766497	2,329
2018	March	47,993	0.236149	(11,304)	11,334	36,660	0.006075	334	2,119	0.766497	2,764
2018	April	(37,247)	0.236149	(20,129)	(8,796)	(28,451)	0.006075	25	2,144	0.766497	2,797
2018	May	(286,185)	0.236149	(58,787)	(67,582)	(218,603)	0.006075	(750)	1,393	0.766497	1,818
2018	June	(27,592)	0.236149	61,067	(6,516)	(21,076)	0.006075	(728)	665	0.766497	868
2018	July	387,147	0.236149	97,940	91,424	295,722	0.006075	834	1,499	0.766497	1,956
2018	August	846,891	0.236149	108,568	199,993	646,899	0.005692	2,683	4,182	0.766497	5,456
2018	September	1,387,097	0.236149	127,569	327,562	1,059,536	0.005692	4,856	9,038	0.766497	11,792
2018	October	1,639,885	0.236149	59,696	387,257	1,252,628	0.005692	6,580	15,618	0.766497	20,376
2018	November	1,493,580	0.236149	(34,550)	352,707	1,140,872	0.005692	6,812	22,430	0.766497	29,263
2018	December	1,496,491	0.236149	687	353,395	1,143,096	0.005692	6,500	28,930	0.766497	37,743

Electricity No. 4 North Carolina Fourteenth Revised Leaf No. 62 Superseding North Carolina Thirteenth Revised Leaf No. 62

Rider EE (NC) ENERGY EFFICIENCY RIDER

APPLICABILITY (North Carolina Only)

Service supplied under the Company's rate schedules is subject to approved adjustments for new energy efficiency and demandside management programs approved by the North Carolina Utilities Commission (NCUC). The Rider Adjustments are not included in the Rate Schedules of the Company and therefore, must be applied to the bill as calculated under the applicable rate.

As of January 1, 2020, cost recovery under Rider EE consists of the four-year term program, years 2014-2017, as well as rates under the continuation of that program for years 2018-2020 as outlined below. This Rider applies to service supplied under all rate schedules, except rate schedules OL, FL, PL, GL and NL for program years 2015-2020.

GENERAL PROVISIONS

This Rider will recover the cost of new energy efficiency and demand-side management programs beginning January 1, 2014, using the method approved by the NCUC as set forth in Docket No. E-7 Sub 1032, Order dated October 29, 2013, as revised by Docket No. E-7, Sub 1130, Order dated August 23, 2017.

TRUE-UP PROVISIONS

Rider amounts will initially be determined based on estimated kW and kWh impacts related to expected customer participation in the programs, and will be trued-up as actual customer participation and actual kW and kWh impacts are verified. If a customer participates in any vintage of programs, the customer is subject to the true-ups as discussed in this section for any vintage of programs in which the customer participated.

RIDER EE OPT OUT PROVISION FOR QUALIFYING NON-RESIDENTIAL CUSTOMERS

The Rider EE increment applicable to energy efficiency programs and/or demand-side management programs will not be applied to the energy charge of the applicable rate schedule for customers qualified to opt out of the programs where:

- a. The customer has notified the Company that it has implemented, or has plans for implementing, alternative energy efficiency measures in accordance with quantifiable goals.
- b. Electric service to the customer must be provided under:
 - An electric service agreement where the establishment is classified as a "manufacturing industry" by the Standard Industrial Classification Manual published by the United States Government and where more than 50% of the electric energy consumption of such establishment is used for its manufacturing processes. Additionally, all other agreements billed to the same entity associated with the manufacturing industry located on the same or contiguous properties are also eligible to opt out.
 - An electric service agreement for general service as provided for under the Company's rate schedules where
 the customer's annual energy use is 1,000,000 kilowatt hours or more. Additionally, all other agreements
 billed to the same entity with lesser annual usage located on the same or contiguous properties are also eligible
 to opt out.

The following additional provisions apply for qualifying customers who elect to opt out:

For customers who elect to opt out of energy efficiency programs, the following provisions also apply:

- Qualifying customers may opt out of the Company's energy efficiency programs each calendar year only during the annual two-month enrollment period between November 1 and December 31 immediately prior to a new Rider EE becoming effective on January 1. (Qualifying new customers have sixty days after beginning service to opt out).
- Customers may not opt out of individual energy efficiency programs offered by the Company. The choice to opt out applies to the Company's entire portfolio of energy efficiency programs.
- If a customer participates in any vintage of energy efficiency programs, the customer, irrespective of future opt out decisions, remains obligated to pay the remaining portion of the lost revenues for each vintage of energy efficiency programs in which the customer participated.
- Customers who elect to opt out during the two-month annual enrollment period immediately prior to the new Rider EE
 becoming effective may elect to opt in to the Company's energy efficiency programs during the first 5 business days of
 March each calendar year. Customers making this election will be back-billed retroactively to the effective date of the
 new Rider EE.

For customers who elect to opt out of demand-side management programs, the following provisions also apply:

• Qualifying customers may opt out of the Company's demand-side management program during the enrollment period between November 1 and December 31 immediately prior to a new Rider EE becoming effective on January 1 of the applicable year. (Qualifying new customers have sixty days after beginning service to opt out).

Electricity No. 4 North Carolina Fourteenth Revised Leaf No. 62 Superseding North Carolina Thirteenth Revised Leaf No. 62

0.7131¢ per kWh

Rider EE (NC) ENERGY EFFICIENCY RIDER

- If a customer elects to participate in a demand-side management program, the customer may not subsequently choose to opt out of demand-side management programs for three years.
- Customers who elect to opt out during the two-month annual enrollment period immediately prior to the new Rider EE
 becoming effective may elect to opt in to the Company's demand-side management program during the first 5 business
 days of March each calendar year. Customers making this election will be back-billed to the effective date of the new
 Rider EE.

Any qualifying non-residential customer that has not participated in an energy efficiency or demand-side management program may opt out during any enrollment period, and has no further responsibility to pay Rider EE amounts associated with the customer's opt out election for energy efficiency and/or demand-side management programs.

ENERGY EFFICIENCY RIDER ADJUSTMENTS (EEA) FOR ALL PROGRAM YEARS

The Rider EE amounts applicable to the residential and nonresidential rate schedules for the period January 1, 2019 through December 31, 2019 including utility assessments are as follows:

Residential	Vintage 2015 ¹ ,2016 ¹ , 2017 ¹ , 2018 ¹ Vintage 2017 ² , 2018 ² , 2019 ² , 2020 ² Total Residential Rate	0.0944¢ per kWh <u>0.3891¢ per kWh</u> 0.4835¢ per kWh
Nonresidential	Į.	
Vintage	2015³	
En	ergy Efficiency	0.0064¢ per kWh
De	emand Side Management	0.0001¢ per kWh
Vintage	e 2016 ³	
En	ergy Efficiency	0.0512¢ per kWh
	emand Side Management	0.0001¢ per kWh
Vintage	e 2017 ³	
•	ergy Efficiency	0.0957¢ per kWh
De	emand Side Management	0.0000¢ per kWh
Vintage	e 2018 ³	
	ergy Efficiency	0.0827¢ per kWh
	emand Side Management	0.0077¢ per kWh
Vintage	e 2019 ³	
•	ergy Efficiency	0.0509¢ per kWh
	emand Side Management	0.0000¢ per kWh
Vintage	2020^3	
_	ergy Efficiency	0.3082¢ per kWh
	mand Side Management	0.1101¢ per kWh

¹ Includes the true-up of program costs, shared savings and lost revenues from Year 1 of Vintage 2018 and Year 2 of Vintage 2017, and Year 3 of 2016 and Year 4 of 2015.

Total Nonresidential

Each factor listed under Nonresidential is applicable to nonresidential customers who are not eligible to opt out and to eligible customers who have not opted out. If a nonresidential customer has opted out of a Vintage(s), then the applicable energy efficiency and/or demand-side management charge(s) shown above for the Vintage(s) during which the customer has opted out, will not apply to the bill.

² Includes prospective component of Vintage 2017, 2018, 2019 and 2020

³ Not Applicable to Rate Schedules OL, FL, PL, GL, and NL.

Evans Exhibit 1 pg. 1 NO CHANGE

Duke Energy Carolinas, LLC Vintage 2015 Actual for January 1, 2015 to December 31, 2015 Docket Number E-7, Sub 1192

	System kW Reduction -	System Energy	Sy	A stem NPV of		В		с		D= B+C	E NC Retail kWh Sales Allocation Factor (Miller	NC Residential Revenue Requirement
Residential Programs	Summer Peak	Reduction (kWh)	A	voided Cost		System Cost	Earn	ed Utility Incentive	System (Cost Plus Incentive	Exhibit 5 pg. 1)	D * E
EE Programs												
1 Appliance Recycling Program	748	5,534,546	\$	1,901,321	\$	1,537,241	\$	41,869	\$	1,579,111	72.9564706%	\$ 1,152,063
2 Energy Efficiency Education 3 Energy Efficient Appliances and Devices	830 14.743	4,417,898 129,350,071	\$ \$	2,498,417 49,525,402	\$ \$	2,054,672	\$	51,031 4,309,616	\$	2,105,702 16,360,100	72.9564706% 72.9564706%	\$ 1,536,246 \$ 11,935,752
4 HVAC Energy Efficiency	2,663	4,763,631	\$	6,816,479	\$	12,050,485 5,416,833	\$	4,309,616	\$	5,577,792	72.9564706%	\$ 11,935,752
5 Income Qualified Energy Efficiency and Weatherization Assistance	608	3,125,184	\$	1,854,068	\$	2,238,776	\$	-	\$	2,238,776	72.9564706%	\$ 1,633,332
6 Multi-Family Energy Efficiency	1,339	13,988,109	\$	7,431,163	\$	2,092,935	\$	613,896	\$	2,706,831	72.9564706%	\$ 1,974,808
7 Energy Assessments	1,275	10,293,765	\$	10,115,222	\$	3,086,173	\$	808,341	\$	3,894,514	72.9564706%	\$ 2,841,300
8 Subtotal	22,205	171,473,205	\$	80,142,073	\$	28,477,114	\$	5,985,712	\$	34,462,825		\$ 25,142,861
9 My Home Energy Report (1)	61,770	228,776,428	\$	16,583,325	\$	9,845,895	\$	774,805	\$	10,620,699	72.9564706%	\$ 7,748,487
10 Total for Residential Energy Efficiency Programs	83,975	400,249,633	\$	96,725,398	\$	38,323,008	\$	6,760,516	\$	45,083,525	72.330470070	\$ 32,891,348
											NC Residential Peak Demand Allocation Factor (Miller Exhibit 5 pg. 1)	D11* E11
11 Total DSM Programs (2)	871,944	18,374		101,113,558	Ś	31,958,782	Ś	7,952,799	Ś	39,911,582	32.5218612%	\$ 12,979,989
12 Total Residential Revenue Requirement	071,544	10,574		101,113,330	,	31,330,762	,	1,552,155	Ÿ	33,311,302	32.3210012/0	\$ 45,871,337
12 Total Residential Revenue Requirement												3 43,671,337
	System kW Reduction -	System Energy	ç.	stem NPV of							NC Retail kWh Sales Allocation Factor (Miller	NC Non-Residential Revenue Requirement
	Summer Peak	Reduction (kWh)		voided Cost		System Cost	Earn	ed Utility Incentive	System (Cost Plus Incentive	Exhibit 5 pg. 1)	D*E
Non-Residential Programs												
EE Programs												
13 Non Residential Smart Saver Custom Energy Assessments	87	765,303	Ś	321,686	Ś	660,420	Ś	(38,954)	\$	621,465	72.9564706%	\$ 453,399
14 Non Residential Smart Saver Custom	11,108	76,142,627		53,882,448		9,932,877		5,054,201		14,987,078	72.9564706%	10,934,043
15 Non Residential Smart Saver Energy Efficient Food Service Products	140	1,672,329		1,099,734		194,425		104,111		298,535	72.9564706%	217,801
16 Non Residential Smart Saver Energy Efficient HVAC Products	1,611	5,405,220		6,221,217		1,142,522		584,050		1,726,572	72.9564706%	1,259,646
17 Non Residential Smart Saver Energy Efficient Lighting Products 18 Non Residential Smart Saver Energy Efficient Pumps and Drives Products	11,523 423	67,083,512 3,354,574		42,227,035 1,924,058		11,335,798 466,478		3,552,492 167,622		14,888,290 634,100	72.9564706% 72.9564706%	10,861,971 462,617
19 Non Residential Smart Saver Energy Efficient IT Products	540	5,196,710		1,130,386		716,542		47,592		764,134	72.9564706%	557,485
20 Non Residential Smart Saver Energy Efficient Process Equipment Products	112	630,354		517,342		88,823		49,280		138,103	72.9564706%	100,755
21 Small Business Energy Saver	14,417	77,515,622		47,989,975		13,968,790		3,912,436		17,881,226	72.9564706%	13,045,511
22 Smart Energy in Offices	3,109	14,938,552		1,666,306		1,463,240		23,353		1,486,592	72.9564706%	1,084,565
23 Business Energy Report 24 Total for Non-Residential Energy Efficiency Programs	43,072	252,704,804	Ś	156,980,188	Ś	126,404 40,096,318	Ś	13,456,181	Ś	126,404 53,552,499	72.9564706%	92,220
24 Total for Non-Neural Energy Efficiency (105, and	45,072	232,704,004	Ý	130,300,100	7	40,030,310	7	13,430,101	7	33,332,433		33,070,024
											NC Non-Residential Peak Demand Allocation Factor (Miller Exhibit 5 pg. 1)	D23*E23
25 Total DSM Programs(2)	871,944	18,374	\$	101,113,558	\$	31,958,782	\$	7,952,799	\$	39,911,582	42.4483655%	\$ 16,941,814
26 Total Non-Residential Revenue Requirement												\$ 56,011,828
											NC Retail Peak Demand Allocation Factor (Miller	
Total DSM Program Breakdown											Exhibit 5 pg. 1)	D28* E28
27 Power Manager (Residential)	454,663	1.	\$	52,718,688	\$	14,634,279	\$	4,379,707	\$	19,013,986		D28* E28
27 Power Manager (Residential) 28 EnergyWise for Business	454,663 6	- 18,374	\$	52,718,688 11,248	\$	14,634,279 1,549,305	\$	4,379,707 (176,876)	\$ \$	19,013,986 1,372,428		D28* E28
27 Power Manager (Residential) 28 EnergyWise for Business 29 Power Share CallOption (Non-Residential)	6 -	- 18,374 - -		11,248		1,549,305 -		(176,876)		1,372,428		D28* E28
27 Power Manager (Residential) 28 EnergyWise for Business	6 - 417,276	18,374 - -	\$		\$		\$		\$			D28* E28

⁽¹⁾ My Home Energy Report impacts reflect cumulative capability as of end of vintage year, including impacts for participants from prior vintage (2) Total System DSM programs allocated to Residential and Non-Residential based on contribution to retail system peak

Evans Exhibit 1, page 2 NO CHANGE

Duke Energy Carolinas, LLC Vintage 2016 Actual for January 1, 2016 to December 31, 2016 Docket Number E-7, Sub 1192 Load Impacts and Estimated Revenue Requirements, excluding Lost Revenue by Program

			А	В	C =	= (A-B) *11.5%		D= B+C	E NC Retail kWh Sales	NC R	esidential Revenue Requirement
Residential Programs	System kW Reduction - Summer Peak	System Energy Reduction (kWh)	System NPV of Avoided Cost	System Cost	Earne	d Utility Incentive	System	Cost Plus Incentive	Allocation Factor (Miller Exhibit 5 pg. 2)		D * E
EE Programs	<u></u>			 					·		
1 Appliance Recycling Program	21	164,720	\$ 59,758	\$ (97,397)	\$	18,073	\$	(79,324)	73.0962827%	\$	(57,983)
2 Energy Efficiency Education	1,512	6,441,283	3,695,507	2,126,509		180,435		2,306,944	73.0962827%		1,686,290
3 Energy Efficient Appliances and Devices	14,518	120,226,223	82,262,218	24,069,774		6,692,131		30,761,905	73.0962827%		22,485,809
4 HVAC Energy Efficiency	2,462	6,294,837	7,476,100	7,839,566		(41,799)		7,797,767	73.0962827%		5,699,878
5 Income Qualified Energy Efficiency and Weatherization Assistance	649	4,801,478	2,984,760	4,792,436		-		4,792,436	73.0962827%		3,503,093
6 Multi-Family Energy Efficiency	1,572	15,235,497	8,950,706	2,518,988		739,648		3,258,636	73.0962827%		2,381,941
7 Energy Assessments	1,070	7,389,091	6,822,806	 2,678,893		476,550		3,155,443	73.0962827%		2,306,512
8 Subtotal	21,804	160,553,127	\$ 112,251,855	\$ 43,928,769	\$	8,065,038	\$	51,993,807		\$	38,005,540
9 My Home Energy Report (1)	71,814	283,569,925	20,423,954	 10,822,444		1,104,174		11,926,618	73.0962827%		8,717,914
10 Total for Residential Energy Efficiency Programs	93,618	444,123,052	\$ 132,675,808	\$ 54,751,213	\$	9,169,211	\$	63,920,424		\$	46,723,454
									NC Residential Peak Demand Allocation Factor (Miller Exhibit 5 pg. 2)		D11* E11
11 Total DSM Programs (2)	825,492	718,623	98,643,760	\$ 28,406,298	\$	8,077,308	\$	36,483,606	33.7973480%	\$	12,330,491
12 Total Residential Revenue Requirement										\$	59,053,945
	System kW Reduction - Summer Peak	System Energy Reduction (kWh)	System NPV of Avoided Cost	System Cost	Farne	d Utility Incentive	System	Cost Plus Incentive	NC Retail kWh Sales Allocation Factor (Miller Exhibit 5 pg. 2)	NC Nor	-Residential Revenue Requirement D * E
Non-Residential Programs				 -,						-	
<u> </u>											
EE Programs											
13 Non Residential Smart Saver Custom Energy Assessments	1,584	16,953,402	\$ 9,572,687	\$ 2,034,308	\$	866,914	\$	2,901,222	73.0962827%	\$	2,120,685
14 Non Residential Smart Saver Custom	7,934	52,154,624	39,025,086	7,356,509		3,629,838		10,986,347	73.0962827%		8,030,611
15 Non Residential Smart Saver Energy Efficient Food Service Products	356	3,809,316	2,474,312	324,117		247,272		571,389	73.0962827%		417,664
16 Non Residential Smart Saver Energy Efficient HVAC Products	808	3,316,901	3,344,669	1,473,991		215,128		1,689,119	73.0962827%		1,234,683
17 Non Residential Smart Saver Energy Efficient Lighting Products 18 Non Residential Smart Saver Energy Efficient Pumps and Drives Products	29,268 368	167,342,422 2,494,340	120,392,639 1,574,965	39,622,944 471,930		9,288,515 126,849		48,911,459 598,779	73.0962827% 73.0962827%		35,752,458 437,685
	107	2,494,340				56,600		342,030	73.0962827%		437,685 250,011
19 Non Residential Smart Saver Energy Efficient IT Products 20 Non Residential Smart Saver Energy Efficient Process Equipment Products	50	313,131	777,601 279,184	285,430 125,947		17,622		143,569	73.0962827%		104,944
21 Non Residential Smart Saver Performance Incentive	30	313,131	2/3,104	35,670		(4,102)		31,568	73.0962827%		23,075
22 Small Business Energy Saver	16,110	85,687,928	55,685,830	15,360,852		4,637,372		19,998,224	73.0962827%		14,617,959
23 Smart Energy in Offices	3,505	16,842,267	1,843,559	1,061,729		89,911		1,151,640	73.0962827%		841,806
24 Business Energy Report	388	5,561,349	302,497	263,169		-		263,169	73.0962827%		192,367
25 Total for Non-Residential Energy Efficiency Programs	60,480	356,937,707	\$ 235,273,030	\$ 68,416,596	\$	19,171,918	\$	87,588,514		\$	64,023,948
									NC Non-Residential Peak Demand Allocation Factor (Miller Exhibit 5 pg. 2)		D24*E24
26 Total DSM Programs(2)	825,492	718,623	\$ 98,643,760	\$ 28,406,298	\$	8,077,308	\$	36,483,606	40.8166437%	\$	14,891,384
27 Total Non-Residential Revenue Requirement										\$	78,915,332
Total DSM Program Breakdown									NC Retail Peak Demand Allocation Factor (Miller Exhibit 5 pg. 2)		D29* E29
28 Power Manager (Residential)	455,393		\$ 54,179,776	\$ 13,644,970	\$	4,661,503	\$	18,306,473	,		
27 EnergyWise for Business (Non-Residential)	1,199	718,623	\$ 574,590	\$ 470,304	\$	11,993	\$	482,297			
29 Power Share CallOption (Non-Residential)	-	-	\$ -	\$	\$	-	\$	-			
30 Power Share (Non-Residential)	368,900		\$ 43,889,394	\$ 14,291,024	\$	3,403,812	\$	17,694,836			
31 Total DSM	825,492	718,623	\$ 98,643,760	\$ 28,406,298	\$	8,077,308	\$	36,483,606	74.6139917%	\$	27,221,875

⁽¹⁾ My Home Energy Report impacts reflect cumulative capability as of end of vintage year, including impacts for participants from prior vintage

⁽²⁾ Total System DSM programs allocated to Residential and Non-Residential based on contribution to retail system peak

Duke Energy Carolinas, LLC Vintage 2017 Actual for January 1, 2017 to December 31, 2017 Docket Number E-7, Sub 1192

				A		В	C:	= (A-B) *11.5%	ı)= B+C	E NC Retail kWh Sales	NC Residential Revenue Requireme	ent
Residential Programs	System kW Reduction - Summer Peak	System Energy Reduction (kWh)		stem NPV of voided Cost		System Cost	Earne	d Utility Incentive	System Co	st Plus Incentive	Allocation Factor (Miller Exhibit 5 pg. 3)	D*E	
EE Programs					_	-,			-,				
1 Appliance Recycling Program		-	\$		\$	5,307	\$	(610)	\$	4,697	72.8087506%	\$ 3	3,420
2 Energy Efficiency Education	1,393	5,932,086		3,597,724		2,077,611		174,813		2,252,424	72.8087506%	1,639	
3 Energy Efficient Appliances and Devices 4 Residential – Smart Saver Energy Efficiency Program	24,605 1,850	137,909,103 6,712,977		105,352,687 7,287,263		30,340,728 7,403,327		8,626,375 (13,347)		38,967,103 7,389,980	72.8087506% 72.8087506%	28,371 5,380	
5 Income Qualified Energy Efficiency and Weatherization Assistance	771	5,341,624		3,185,867		5,505,992		(13,547)		5,505,992	72.8087506%	4,008	
6 Multi-Family Energy Efficiency	2,056	19,038,529		13,539,656		3,168,422		1,192,692		4,361,114	72.8087506%	3,175	
7 Energy Assessments	1,040	7,720,549		6,602,773		2,909,098		424,773		3,333,871	72.8087506%	2,427	
8 Subtotal	31,715 79,070	182,654,868 311,368,855	\$	139,565,970 21,728,369	\$	51,410,486 13,812,250	\$	10,404,695 910,354	\$	61,815,181 14,722,603	72.8087506%	\$ 45,006 10,719	
9 My Home Energy Report (1) 10 Total for Residential Energy Efficiency Programs	110,786	494,023,724	\$	161,294,339	\$	65,222,736	\$	11,315,049	\$	76,537,785	/2.808/300%	\$ 55,726	
10 Total to heddenda Energy Emelency Programs	110,700	454,025,724	7	101,254,555	,	03,222,730	Ý	11,515,645	7	,0,337,703		35,720	,,203
											NC Residential Peak Demand Allocation Factor (Miller Exhibit 5 pg. 3)	D11* E11	
11 SubTotal DSM Programs (2)	846,941	2,943,906		105,087,510	\$	29,822,652	Ś	8,655,459	\$	38,478,111	33.8075104%	\$ 13,008	8.491
12 Total DSM Programs	,	, ,,,,,,		,,		-,-		.,,		., .,		13,008	
13 Total Residential Revenue Requirement												\$ 68,734	4,696
·													_
	System kW Reduction - Summer Peak	System Energy Reduction (kWh)		stem NPV of voided Cost		System Cost	Earne	d Utility Incentive	System Co	st Plus Incentive	NC Retail kWh Sales Allocation Factor (Miller Exhibit 5 pg. 3)	NC Non-Residential Revenue Requirer D * E	ment
Non-Residential Programs													
EE Programs													
14 Non Residential Smart Saver Custom Energy Assessments	1,627	15,791,732	\$	10,272,302	\$	2,139,875	\$	935,229	\$	3,075,104	72.8087506%	\$ 2,238	
15 Non Residential Smart Saver Custom	6,010	40,609,855		34,693,083		7,304,838		3,149,648		10,454,486	72.8087506%	7,611	
16 Non Residential Smart Saver Energy Efficient Food Service Products 17 Non Residential Smart Saver Energy Efficient HVAC Products	112 894	1,383,542 2,954,877		959,251 2,958,336		306,488 1,560,769		75,068 160,720		381,556 1,721,489	72.8087506% 72.8087506%	277 1,253	7,806
18 Non Residential Smart Saver Energy Efficient Lighting Products	47,322	270,572,885		240,054,511		66,689,770		19,936,945		86,626,715	72.8087506%	63,071	
19 Non Residential Smart Saver Energy Efficient Pumps and Drives Products	687	4,806,849		3,070,044		528,937		292,227		821,164	72.8087506%	597	7,879
20 Non Residential Smart Saver Energy Efficient IT Products		2,945		523		61,215		(6,980)		54,235	72.8087506%		9,488
21 Non Residential Smart Saver Energy Efficient Process Equipment Products 22 Non Residential Smart Saver Performance Incentive	99 3	651,289 12,373		530,295 8,958		162,413 320,559		42,306 (35,834)		204,719 284,725	72.8087506% 72.8087506%		9,054 7,305
23 Small Business Energy Saver	17,263	90,297,362		63,169,894		17,350,972		5,269,176		22,620,148	72.8087506%	16,469	
24 Smart Energy in Offices	2,138	10,272,154		1,067,480		891,010		20,294		911,304	72.8087506%		3,509
25 Business Energy Report	3	42,398		696		126,680		-		126,680	72.8087506%		2,234
26 Sub-Total for Non-Residential Energy Efficiency Programs 27 Total for Non-Residential Energy Efficiency Programs	76,158	437,398,260	\$	356,785,373	\$	97,443,527	\$	29,838,800	\$	127,282,328		\$ 92,672 \$ 92,672	
27 Total for Non-Nesidential Energy Efficiency Programs												32,072	.,072
											NC Non-Residential Peak Demand Allocation Factor (Miller Exhibit 5 pg. 3)	D24*E24	
												·	
28 Total DSM Programs(2)	846,941	2,943,906	\$	105,087,510	\$	29,822,652	\$	8,655,459	\$	38,478,111	40.0747013%	\$ 15,419	9,988
29 Total Non-Residential DSM Programs												15,419	9,988
30 Total Non-Residential Revenue Requirement												\$ 108,092	2,661
Tabal DCM Descriptor Descriptorum											NC Retail Peak Demand Allocation Factor (Miller		
Total DSM Program Breakdown 31 Power Manager (Residential)	501,118		\$	61,074,105	\$	14,021,500	s	5,411,050	Ś	19,432,549	Exhibit 5 pg. 3)	D29* E29	—
32 EnergyWise for Business (Non-Residential)	5,453	2,943,906	\$	2,530,761	\$	2,484,618	\$	5,411,050	\$	2,489,924			
33 Power Share CallOption (Non-Residential)			\$	-	\$	-	\$	-	\$	-			
34 Power Share (Non-Residential)	340,369		\$	41,482,644	\$	13,316,535	\$	3,239,103	\$	16,555,638			
35 Total DSM	846,941	2,943,906	\$	105,087,510	\$	29,822,652	\$	8,655,459	\$	38,478,111	73.8822117%	\$ 28,428	3,479

⁽¹⁾ My Home Energy Report impacts reflect cumulative capability as of end of vintage year, including impacts for participants from prior vintage

⁽²⁾ Total System DSM programs allocated to Residential and Non-Residential based on contribution to retail system peak

Duke Energy Carolinas, LLC Vintage 2018 Actual for January 1, 2018 to December 31, 2018 Docket Number E-7, Sub 1192

					_		4		_	
			Α		В	C =	= (A-B) *11.5%	D= B+C	E NC Retail kWh Sales	NC Residential Revenue Requirement
Residential Programs	System kW Reduction - Summer Peak	System Energy Reduction (kWh)	System NPV of Avoided Cost		System Cost	Earne	d Utility Incentive	System Cost Plus Incentive	Allocation Factor (Miller Exhibit 5 pg. 4)	D*E
EE Programs										 -
1 Appliance Recycling Program		-	\$ -	\$	-	\$	-	\$ -	72.7130507%	\$ -
2 Energy Efficiency Education 3 Energy Efficient Appliances and Devices	1,148 32,802	4,889,354 195,212,962	2,713,620 135,814,400		1,992,260 42,687,244		82,956 10,709,623	2,075,216 53,396,867	72.7130507% 72.7130507%	1,508,953 38,826,491
4 Residential – Smart Şaver Energy Efficiency Program	1,640	6,367,174	7,086,486		6,955,146		15,104	6,970,250	72.7130507%	5,068,281
5 Income Qualified Energy Efficiency and Weatherization Assistance	726	5,211,991	3,497,900		6,490,735			6,490,735	72.7130507%	4,719,611
6 Multi-Family Energy Efficiency	2,303	21,288,673	13,853,284		3,604,921		1,178,562	4,783,483	72.7130507%	3,478,216
7 Energy Assessments 8 Subtotal	929 39,546	7,716,668 240,686,821	5,754,998 \$ 168,720,688	\$	2,836,229 64,566,534	\$	335,658 12,321,904	\$ 76,888,438	72.7130507%	\$ 55,907,929
9 My Home Energy Report (1)	81,409	320,613,567	21,204,651	,	12,765,286		970,527	13,735,813	72.7130507%	9,987,729
10 Total for Residential Energy Efficiency Programs	120,956	561,300,388	\$ 189,925,339	\$	77,331,820	\$	13,292,431	\$ 90,624,251		\$ 65,895,657
									NC Residential Peak	
									Demand Allocation Factor (Miller Exhibit 5 pg. 4)	D11* E11
									(Willier Exhibit 5 pg. 4)	DII- EII
11 SubTotal DSM Programs (2)	876,165	2,498,948	100,367,844	\$	30,409,403	\$	8,045,221	\$ 38,454,624	32.1574721%	\$ 12,366,035
12 Total DSM Programs										12,366,035
13 Total Residential Revenue Requirement										\$ 78,261,692
										NC Non-Residential Revenue Requirement
	System kW Reduction -	System Energy	System NPV of						NC Retail kWh Sales Allocation Factor (Miller	
	Summer Peak	Reduction (kWh)	Avoided Cost		System Cost	Earne	d Utility Incentive	System Cost Plus Incentive	Exhibit 5 pg. 4)	D * E
Non-Residential Programs										
EE Programs										
14 Non Residential Smart Saver Custom Energy Assessments	13	83,588	\$ 67,284	\$	407,293	\$	(39,101)	\$ 368,192	72.7130507%	\$ 267,724
15 Non Residential Smart Saver Custom 16 Non Residential Smart Saver Energy Efficient Food Service Products	4,054 106	30,333,040 1,151,114	23,314,525 741,344		6,068,902 235,605		1,983,247 58,160	8,052,148 293,765	72.7130507% 72.7130507%	5,854,963 213,605
17 Non Residential Smart Saver Energy Efficient HVAC Products	893	2,908,386	2,809,366		1,620,748		136,691	1,757,439	72.7130507%	1,277,888
18 Non Residential Smart Saver Energy Efficient Lighting Products	31,537	178,360,156	146,553,308		25,872,380		13,878,307	39,750,687	72.7130507%	28,903,937
19 Non Residential Smart Saver Energy Efficient Pumps and Drives Products	421	2,669,016	1,617,233		277,785		154,036	431,822	72.7130507%	313,991
20 Non Residential Smart Saver Energy Efficient IT Products 21 Non Residential Smart Saver Energy Efficient Process Equipment Products	- 75	17,639 331,222	3,024 226,654		36,875 67,509		(3,893) 18,302	32,982 85,811	72.7130507% 72.7130507%	23,982 62,396
22 Non Residential Smart Saver Performance Incentive	168	3,271,186	1,671,227		479,610		137,036	616,646	72.7130507%	448,382
23 Small Business Energy Saver	13,374	76,696,523	46,818,065		15,977,993		3,546,608	19,524,601	72.7130507%	14,196,933
24 Smart Energy in Offices 25 Business Energy Report	310	1,488,592	143,239		219,748		(8,799)	210,949	72.7130507% 72.7130507%	153,388
26 Sub-Total for Non-Residential Energy Efficiency Programs	50,950	297,310,461	\$ 223,965,268	\$	51,264,448	\$	19,860,594	\$ 71,125,042		\$ 51,717,188
27 Total for Non-Residential Energy Efficiency Programs										\$ 51,717,188
									NC Non-Residential Peak	
									Demand Allocation Factor	D24*E24
									(Miller Exhibit 5 pg. 4)	D24-E24
28 Total DSM Programs(2)	876,165	2,498,948	\$ 100,367,844	\$	30,409,403	\$	8,045,221	\$ 38,454,624	41.4712829%	\$ 15,947,626
29 Total Non-Residential DSM Programs	,	_,,	,,	•	22, 122, 122	•	0,0 10,000	+		15,947,626
30 Total Non-Residential Revenue Requirement										\$ 67,664,814
·										<u> </u>
									NC Retail Peak Demand Allocation Factor (Miller	
Total DSM Program Breakdown									Exhibit 5 pg. 4)	D29* E29
31 Power Manager (Residential)	535,418		\$ 62,147,591	\$	14,423,610	\$	5,488,258	\$ 19,911,868		- -
32 EnergyWise for Business (Non-Residential)	8,117	2,498,948	\$ 2,235,498	\$	3,062,816	\$	(95,142)	\$ 2,967,675		
33 Power Share CallOption (Non-Residential) 34 Power Share (Non-Residential)	332,631		\$ - \$ 35,984,754	Ś	12,922,977	\$	2,652,104	\$ - \$ 15,575,082		
35 Total DSM	876,165	2,498,948	\$ 100,367,844	\$	30,409,403	\$	8,045,221	\$ 38,454,624	73.6287551%	\$ 28,313,661

⁽¹⁾ My Home Energy Report impacts reflect cumulative capability as of end of vintage year, including impacts for participants from prior vintage

⁽²⁾ Total System DSM programs allocated to Residential and Non-Residential based on contribution to retail system peak

May 28 2019

Duke Energy Carolinas, LLC Vintage 2020 Estimate for January 1, 2020 to December 31, 2020 Docket Number E-7, Sub 1192

			А		В	c	= (A-B) *11.5%	D= B+C	E NC Retail kWh Sales	NC Residential Revenue Requirement
Residential Programs	System kW Reduction - Summer Peak	System Energy Reduction (kWh)	System NPV of Avoided Cost		System Cost	Farne	ed Utility Incentive	System Cost Plus Incentive	Allocation Factor (Miller Exhibit 5 pg. 4)	D*E
-	Julillier Feak	Reduction (KWII)	Avoided Cost	_	System Cost	Earne	d Othity incentive	System Cost Plus micentive	Exhibit 5 pg. 4)	D-E
EE Programs			\$ -	Ś	_	Ś		\$ -	72.7130507%	s -
1 Appliance Recycling Program 2 Energy Efficiency Education	1,652	7,034,771	3,268,716	>	2,621,628	>	74,415	2,696,043	72.7130507%	1,960,375
3 Energy Efficient Appliances and Devices	10,988	47,538,836	28,215,962		9,114,148		2,196,709	11,310,857	72.7130507%	8,224,469
4 Residential – Smart \$aver Energy Efficiency Program	2,714	10,276,853	9,334,114		7,663,598		192,109	7,855,707	72.7130507%	5,712,125
5 Income Qualified Energy Efficiency and Weatherization Assistance	653	4,245,993	1,694,957		8,689,280			8,689,280	72.7130507%	6,318,240
6 Multi-Family Energy Efficiency	2,146	20,180,190	10,272,645		3,613,126		765,845	4,378,970	72.7130507%	3,184,083
7 Energy Assessments	725	6,119,618	3,579,246		2,795,258		90,159	2,885,417	72.7130507%	2,098,075
8 Subtotal	18,877	95,396,261	\$ 56,365,639	\$	34,497,038	\$	3,319,236	\$ 37,816,274		\$ 27,497,367
9 My Home Energy Report (1)	77,745	306,337,865	20,734,326		11,645,405		1,045,226	12,690,631	72.7130507%	9,227,745
10 Total for Residential Energy Efficiency Programs	96,623	401,734,126	\$ 77,099,965	\$	46,142,443	\$	4,364,462	\$ 50,506,906		\$ 36,725,112
									NC Residential Peak	
									Demand Allocation Factor (Miller Exhibit 5 pg. 4)	D11* E11
									(Miller Exhibit 5 pg. 4)	511 111
11 SubTotal DSM Programs (2)	976,260	2,557,590	124,330,187	\$	38,073,241	\$	9,919,549	\$ 47,992,790	32.1574721%	\$ 15,433,268
12 Total DSM Programs	. ,,====	, ,	,,					. ,		15,433,268
13 Total Residential Revenue Requirement										\$ 52,158,380
13 Total nestacital nestalac nequirement										ÿ 32,130,300
									NC Retail kWh Sales	NC Non-Residential Revenue Requirement
	System kW Reduction - Summer Peak	System Energy Reduction (kWh)	System NPV of Avoided Cost		System Cost	Earne	d Utility Incentive	System Cost Plus Incentive	Allocation Factor (Miller Exhibit 5 pg. 4)	D*E
Non-Residential Programs										
EE Programs										
14 Non Residential Smart Saver Custom Energy Assessments	908	7,950,216	\$ 4,114,401	\$	1,414,676	Ś	310,468	\$ 1,725,144	72.7130507%	\$ 1,254,405
15 Non Residential Smart Saver Custom	7,658	67,082,262	34,716,460	۶	10,756,254	,	2,755,424	13,511,678	72.7130507%	9,824,753
16 Non Residential Smart Saver Energy Efficient Food Service Products	288	4,363,034	1,892,593		1,435,926		52,517	1,488,443	72.7130507%	1,082,292
17 Non Residential Smart Saver Energy Efficient HVAC Products	756	2,546,698	2,005,587		1,358,750		74,386	1,433,137	72.7130507%	1,042,077
18 Non Residential Smart Saver Energy Efficient Lighting Products	23,878	131,137,431	87,238,062		21,546,401		7,554,541	29,100,942	72.7130507%	21,160,183
19 Non Residential Smart Saver Energy Efficient Pumps and Drives Products	730	4,603,201	2,264,861		653,139		185,348	838,487	72.7130507%	609,689
20 Non Residential Smart Saver Energy Efficient IT Products	-	323,520	40,508		71,858		(3,605)	68,253	72.7130507%	49,629
21 Non Residential Smart Saver Energy Efficient Process Equipment Products	85	547,055	348,206		172,146		20,247	192,393	72.7130507%	139,895
22 Non Residential Smart Saver Performance Incentive	2,797	22,097,800	11,816,217		3,810,989		920,601	4,731,590	72.7130507%	3,440,484
23 Small Business Energy Saver 24 Smart Energy in Offices	8,756	50,048,128	27,132,368		10,638,607		1,896,783	12,535,390	72.7130507% 72.7130507%	9,114,864
25 Business Energy Report									72.7130507%	
26 Sub-Total for Non-Residential Energy Efficiency Programs	45,856	290.699.344	\$ 171,569,263	Ś	51.858.747	Ś	13,766,709	\$ 65,625,456	72.713030776	\$ 47.718.271
27 Total for Non-Residential Energy Efficiency Programs	,		+,,	*	,,	*	,,	*		\$ 47,718,271
									NC Non-Residential Peak	
									Demand Allocation Factor	
									(Miller Exhibit 5 pg. 4)	D24*E24
28 Total DSM Programs(2)	976,260	2,557,590	\$ 124,330,187	\$	38,073,241	\$	9,919,549	\$ 47,992,790	41.4712829%	\$ 19,903,226
29 Total Non-Residential DSM Programs	370,200	2,337,330	3 124,330,167	,	30,073,241	Ÿ	3,313,343	3 47,332,730	41.471202576	19,903,226
<u> </u>										
30 Total Non-Residential Revenue Requirement										\$ 67,621,497
Total DCM Decreas Decalidation									NC Retail Peak Demand Allocation Factor (Miller	
Total DSM Program Breakdown	c+c ac=		A 33 cor oc :		40.004.00		C 700 047	A 25 005 /=-	Exhibit 5 pg. 4)	D29* E29
31 Power Manager (Residential) 32 EnergyWise for Business (Non-Residential)	616,237 17,397	2,557,590	\$ 77,685,921 \$ 3,451,278	\$ \$	19,391,626 5,098,177	\$	6,703,844 (189,393)	\$ 26,095,470 \$ 4,908,784		
32 Energywise for Business (Non-Residential) 33 Power Share CallOption (Non-Residential)	1/,39/	2,337,390	\$ 3,451,278 \$ -	\$	5,098,1//	\$	(169,393)	\$ 4,908,784 \$ -		
34 Power Share (Non-Residential)	342,625		\$ 43,192,988	Ś	13,583,438	Ś	3,405,098	\$ 16,988,536		
35 Total DSM	976,260	2,557,590	\$ 124,330,187	\$	38,073,241	\$	9,919,549	\$ 47,992,790	73.6287551%	\$ 35,336,494
								. ,		,,

⁽¹⁾ My Home Energy Report impacts reflect cumulative capability as of end of vintage year, including impacts for participants from prior vintage (2) Total System DSM programs allocated to Residential and Non-Residential based on contribution to retail system peak

Duke Energy Carolinas, LLC For the Period January 1, 2018. December 31, 2018 Docket Number E-7, Sub 1192 North Carolina Net Lost Revenue Estimates for Vintages 2015 - 2020

Duke Energy Carolinas, LLC

Duke Energy Carolinas, LLC

NO CHANGE

Adaptor 1, 2018 - December 31, 2018

						Vintage 2015			
Line	Residential		2015	2016	2017 ^(a)	2018	2019	2020	 Total
1	Residential Energy Assessments	\$	283,798 \$	477,738 \$	473,182 \$	163,880			\$ 1,398,597
2	My Home Energy Report		10,047,270	-					10,047,270
3	Energy Efficient Appliances and Devices		3,690,771	6,169,123	6,116,216	2,163,569			18,139,680
4	HVAC Energy Efficiency		132,089	234,967	232,892	91,744			691,692
5	Appliance Recycle Program		150,786	279,840	277,098	115,671			823,394
6	Income Qualified Energy Efficiency and Weatherization Assistance		69,833	152,201	150,742	68,856			441,633
7	Multi-Family Energy Efficiency		336,658	681,177	676,879	285,091			1,979,805
8	Energy Efficiency Education		89,806	220,572	218,470	89,897			618,746
9	Total Lost Revenues		14,801,010	8,215,618	8,145,479	2,978,708			34,140,816
10	Found Residential Revenues *								
11	Net Lost Residential Revenues	\$	14,801,010 \$	8,215,618 \$	8,145,479 \$	2,978,708			\$ 34,140,816
	Non Posidential		2015	2016	2017 ^(a)	2019	2010	2020	Total
	Non-Residential		2015	2016	2017 ^(a)	2018	2019	2020	 Total
12	Non-Residential Nonresidential Smart Saver Custom Energy Assessments	\$	2015 5,659 \$	2016 22,194 \$	2017 ^(a) 21,744 \$		2019	2020	\$ Total 62,316
12 13		\$					2019	2020	\$
	Nonresidential Smart Saver Custom Energy Assessments	\$	5,659 \$	22,194 \$	21,744 \$	12,719	2019	2020	\$ 62,316
13	Nonresidential Smart Saver Custom Energy Assessments Non Residential Smart Saver Custom	\$	5,659 \$	22,194 \$	21,744 \$	12,719	2019	2020	\$ 62,316
13 14	Nonresidential Smart Saver Custom Energy Assessments Non Residential Smart Saver Custom Energy Management Information Services	\$	5,659 \$ 1,432,898	22,194 \$ 2,477,128	21,744 \$ 2,416,373	12,719 830,053	2019	2020	\$ 62,316 7,156,453
13 14 15	Nonresidential Smart Saver Custom Energy Assessments Non Residential Smart Saver Custom Energy Management Information Services Non Residential Smart Saver Energy Efficient Food Service Products	\$	5,659 \$ 1,432,898 - 33,714	22,194 \$ 2,477,128 - 65,479	21,744 \$ 2,416,373 - 64,761	12,719 830,053 - 25,584	2019	2020	\$ 62,316 7,156,453 - 189,538
13 14 15 16	Nonresidential Smart Saver Custom Energy Assessments Non Residential Smart Saver Custom Energy Management Information Services Non Residential Smart Saver Energy Efficient Food Service Products Non Residential Smart Saver Energy Efficient HVAC Products	\$	5,659 \$ 1,432,898 - 33,714 109,819	22,194 \$ 2,477,128 - 65,479 196,207	21,744 \$ 2,416,373 - 64,761 193,346	12,719 830,053 - 25,584 73,963	2019	2020	\$ 62,316 7,156,453 - 189,538 573,335
13 14 15 16 17	Nonresidential Smart Saver Custom Energy Assessments Non Residential Smart Saver Custom Energy Management Information Services Non Residential Smart Saver Energy Efficient Food Service Products Non Residential Smart Saver Energy Efficient HVAC Products Non Residential Smart Saver Energy Efficient Lighting Products	s	5,659 \$ 1,432,898 - 33,714 109,819 1,439,011	22,194 \$ 2,477,128 - 65,479 196,207 2,400,931	21,744 \$ 2,416,373 - 64,761 193,346 2,289,093	12,719 830,053 - 25,584 73,963 769,611	2019	2020	\$ 62,316 7,156,453 - 189,538 573,335 6,898,646
13 14 15 16 17 18	Nonresidential Smart Saver Custom Energy Assessments Non Residential Smart Saver Custom Energy Management Information Services Non Residential Smart Saver Energy Efficient Food Service Products Non Residential Smart Saver Energy Efficient HVAC Products Non Residential Smart Saver Energy Efficient Lighting Products Non Residential Smart Saver Energy Efficient Uphings and Drives Products	\$	5,659 \$ 1,432,898 - 33,714 109,819 1,439,011 51,265	22,194 \$ 2,477,128 - 65,479 196,207 2,400,931 82,153	21,744 \$ 2,416,373 - 64,761 193,346 2,289,093 80,494	12,719 830,053 - 25,584 73,963 769,611 25,843	2019	2020	\$ 62,316 7,156,453 - 189,538 573,335 6,898,646 239,755
13 14 15 16 17 18	Nonresidential Smart Saver Custom Energy Assessments Non Residential Smart Saver Custom Energy Management Information Services Non Residential Smart Saver Energy Efficient Food Service Products Non Residential Smart Saver Energy Efficient HVAC Products Non Residential Smart Saver Energy Efficient Upting Products Non Residential Smart Saver Energy Efficient Demps and Drives Products Non Residential Smart Saver Energy Efficient T Products	\$	5,659 \$ 1,432,898 - 33,714 109,819 1,439,011 51,265 58,585	22,194 \$ 2,477,128 - 65,479 196,207 2,400,931 82,153 173,258	21,744 \$ 2,416,373 - 64,761 193,346 2,289,093 80,494 170,131	12,719 830,053 - 25,584 73,963 769,611 25,843 83,735	2019	2020	\$ 62,316 7,156,453 - 189,538 573,335 6,898,646 239,755 485,709
13 14 15 16 17 18 19	Nonresidential Smart Saver Custom Energy Assessments Non Residential Smart Saver Custom Energy Management Information Services Non Residential Smart Saver Energy Efficient Food Service Products Non Residential Smart Saver Energy Efficient HVAC Products Non Residential Smart Saver Energy Efficient Lighting Products Non Residential Smart Saver Energy Efficient Typing Products Non Residential Smart Saver Energy Efficient Typing Troducts Non Residential Smart Saver Energy Efficient Typing Saver	\$	5,659 \$ 1,432,898 - 33,714 109,819 1,439,011 51,265 58,585 14,723	22,194 \$ 2,477,128 - 65,479 196,207 2,400,931 82,153 173,258 25,414	21,744 \$ 2,416,373 64,761 193,346 2,289,093 80,494 170,131 24,674	12,719 830,053 - 25,584 73,963 769,611 25,843 83,735 8,676	2019	2020	\$ 62,316 7,156,453 - 189,538 573,335 6,898,646 239,755 485,709 73,487
13 14 15 16 17 18 19 20 21	Nonresidential Smart Saver Custom Energy Assessments Non Residential Smart Saver Custom Energy Management Information Services Non Residential Smart Saver Energy Efficient Food Service Products Non Residential Smart Saver Energy Efficient HVAC Products Non Residential Smart Saver Energy Efficient Lighting Products Non Residential Smart Saver Energy Efficient Uphings and Drives Products Non Residential Smart Saver Energy Efficient IT Products Non Residential Smart Saver Energy Efficient Process Equipment Products Non Residential Smart Saver Energy Efficient Process Equipment Products Smart Business Energy Saver	\$	5,659 \$ 1,432,898	22,194 \$ 2,477,128 - 65,479 196,207 2,400,931 82,153 173,258 25,414 3,599,216	21,744 \$ 2,416,373 64,761 193,346 2,289,093 80,494 170,131 24,674	12,719 830,053 - 25,584 73,963 769,611 25,843 83,735 8,676	2019	2020	\$ 62,316 7,156,453 - 189,538 573,335 6,898,646 239,755 485,709 73,487 10,520,625
13 14 15 16 17 18 19 20 21	Nonresidential Smart Saver Custom Energy Assessments Non Residential Smart Saver Custom Energy Management Information Services Non Residential Smart Saver Energy Efficient Food Service Products Non Residential Smart Saver Energy Efficient HVAC Products Non Residential Smart Saver Energy Efficient Uphting Products Non Residential Smart Saver Energy Efficient Demps and Drives Products Non Residential Smart Saver Energy Efficient Tip Products Non Residential Smart Saver Energy Efficient Tip Products Non Residential Smart Saver Energy Efficient Process Equipment Products Smart Business Energy Saver Smart Boriers in Offices	\$	5,659 \$ 1,432,898	22,194 \$ 2,477,128 - 65,479 196,207 2,400,931 82,153 173,258 25,414 3,599,216 387,139	21,744 \$ 2,416,373 64,761 193,346 2,289,093 80,494 170,131 24,674	12,719 830,053 - 25,584 73,963 769,611 25,843 83,735 8,676 1,515,918	2019	2020	\$ 62,316 7,156,453 - 189,538 573,335 6,898,646 239,755 485,709 73,487 10,520,625
13 14 15 16 17 18 19 20 21 22 23	Nonresidential Smart Saver Custom Energy Assessments Non Residential Smart Saver Custom Energy Management Information Services Non Residential Smart Saver Energy Efficient Food Service Products Non Residential Smart Saver Energy Efficient HVAC Products Non Residential Smart Saver Energy Efficient Lighting Products Non Residential Smart Saver Energy Efficient Troducts Non Residential Smart Saver Energy Efficient Troducts Non Residential Smart Saver Energy Efficient Troducts Non Residential Smart Saver Energy Efficient Process Equipment Products Smart Business Energy Saver Smart Energy in Offices Energy Wise for Business	\$	5,659 \$ 1,432,898 - 33,714 109,819 1,439,011 51,265 58,585 14,723 1,832,775 178,960	22,194 \$ 2,477,128 65,479 196,207 2,400,931 82,153 173,258 25,414 3,599,216 387,139	21,744 \$ 2,416,373	12,719 830,053 25,584 73,963 769,611 25,843 83,735 8,676 1,515,918	2019	2020	\$ 62,316 7,156,453 - 189,538 573,335 6,898,646 239,755 485,709 73,487 10,520,625 566,099

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		Vintage 2016						
Line	Residential	2015	2016	2017 ^(a)	2018	2019	2020	Total
27	Residential Energy Assessments	Ś	193,357 \$	336,600 \$	194,978		\$	724,934
28	My Home Energy Report		13,052,806		-			13,052,806
29	Energy Efficient Appliances and Devices		2,665,348	5,787,926	3,353,196			11,806,469
30	HVAC Energy Efficiency		132,531	334,414	193,675			660,620
31 32	Appliance Recycle Program Income Qualified Energy Efficiency and Weatherization Assistance		5,096 115,500	8,147 242,117	4,719 140,230			17,961 497,847
33	Multi-Family Energy Efficiency		347,362	698,540	403,459			1,449,361
34	Energy Efficiency Education		142,689	301,026	174,350			618,064
35	Total Lost Revenues		16,654,687	7,708,770	4,464,606			28,828,063
36	Found Residential Revenues *		-	-	-			•
37	Net Lost Residential Revenues	\$ - \$	16,654,687 \$	7,708,770 \$	4,464,606		\$	28,828,063
	Non-Residential Non-Residential	2015	2016	2017 ^(a)	2018	2019	2020	Total
38	Nonresidential Smart Saver Custom Energy Assessments	\$	199,079 \$	389,585 \$	318,658		\$	907,321
39	Non Residential Smart Saver Custom		914,009	1,703,790	1,398,549			4,016,348
40	Energy Management Information Services		-	-	-			
41	Non Residential Smart Saver Energy Efficient Food Service Products		24,889	66,328	54,035			145,252
42 43	Non Residential Smart Saver Energy Efficient HVAC Products Non Residential Smart Saver Energy Efficient Lighting Products		46,952 2.925.514	103,028 6,589,455	83,640 5.321.493			233,620 14.836.462
44	Non Residential Smart Saver Energy Efficient Pumps and Drives Products		38.898	66.558	54.453			159,908
45	Non Residential Smart Saver Energy Efficient IT Products		59,904	75,403	61,613			196,920
46	Non Residential Smart Saver Energy Efficient Process Equipment Products		4,731	10,652	8,811			24,194
47	Small Business Energy Saver		2,145,932	4,346,981	3,511,109			10,004,022
48	Smart Energy in Offices		227,062	418,553	-			645,616
49 75	Business Energy Report EnergyWise for Business		15,922	36,788	29,639			82,348
76	Total Lost Revenues		6,602,893	13,807,121	10,841,999			31,252,013
77	Found Non-Residential Revenues *		-		-			,,
78	Net Lost Non-Residential Revenues	\$	6,602,893 \$	13,807,121 \$	10,841,999		\$	31,252,013
		Vintage 2017						
Line	Residential	2015	2016	2017 ^(a)	2018	2019	2020	Total
		2015						
78	Residential Energy Assessments	2015	2016 \$	198,264 \$	274,951 \$	366,739 \$	75,609 \$	915,563
78 79	Residential Energy Assessments My Home Energy Report	2015		198,264 \$ 14,455,527	274,951 \$	366,739 \$	75,609 \$ -	915,563 14,455,527
78	Residential Energy Assessments My Home Energy Report Energy Efficient Appliances and Devices	2015		198,264 \$ 14,455,527 3,386,885	274,951 \$ - 5,134,538	366,739 \$ - 6,635,996	75,609 \$ - 1,569,818	915,563 14,455,527 16,727,238
78 79 80	Residential Energy Assessments My Home Energy Report Energy Efficient Appliances and Devices Residential – Smart Saver Energy Efficiency Program Appliance Revide Program	2015		198,264 \$ 14,455,527	274,951 \$	366,739 \$	75,609 \$ -	915,563 14,455,527
78 79 80 81 82 83	Residential Energy Assessments My Home Energy Report Energy Efficient Appliances and Devices Residential – Smart Saver Energy Efficiency Program Appliance Recycle Program Income Qualified Energy Efficiency and Weatherization Assistance	2015		198,264 \$ 14,455,527 3,386,885 197,134 - 141,450	274,951 \$ - 5,134,538 264,823 - 210,612	366,739 \$ - 6,635,996 433,059 - 242,487	75,609 \$ - 1,569,818 69,705 - 63,120	915,563 14,455,527 16,727,238 964,720 - 657,669
78 79 80 81 82 83	Residential Energy Assessments My Home Energy Report Energy Efficient Appliances and Devices Residential — Smart Saver Energy Efficiency Program Appliance Recycle Program Income Qualified Energy Efficiency and Weatherization Assistance Multi-Family Energy Efficiency	2015		198,264 \$ 14,455,527 3,386,885 197,134 - 141,450 535,154	274,951 \$ - 5,134,538 264,823 - 210,612 743,597	366,739 \$ - 6,635,996 433,059 - 242,487 946,417	75,609 \$ - 1,569,818 69,705 - 63,120 204,745	915,563 14,455,527 16,727,238 964,720 - 657,669 2,429,913
78 79 80 81 82 83 84 85	Residential Energy Assessments My Home Energy Report Energy Efficient Appliances and Devices Residential – Smart Saver Energy Efficiency Program Appliance Recycle Program Income Qualified Energy Efficiency and Weatherization Assistance Multi-Family Energy Efficiency Energy Efficiency Education	2015	\$	198,264 \$ 14,455,527 3,386,885 197,134 - 141,450 535,154 165,283	274,951 \$ - 5,134,538 264,823 - 210,612 743,597 221,302	366,739 \$ - 6,635,996 433,059 - 242,487 946,417 279,889	75,609 \$ - 1,569,818 69,705 - 63,120 204,745 57,994	915,563 14,455,527 16,727,238 964,720 - 657,669 2,429,913 724,468
78 79 80 81 82 83 84 85 86	Residential Energy Assessments My Home Energy Report Energy Efficient Appliances and Devices Residential — Smart Saver Energy Efficiency Program Appliance Recycle Program Income Qualified Energy Efficiency and Weatherization Assistance Multi-Family Energy Efficiency Energy Efficiency Education Total Lost Revenues	2015		198,264 \$ 14,455,527 3,386,885 197,134 - 141,450 535,154	274,951 \$ - 5,134,538 264,823 - 210,612 743,597	366,739 \$ - 6,635,996 433,059 - 242,487 946,417	75,609 \$ - 1,569,818 69,705 - 63,120 204,745 57,994 2,040,991	915,563 14,455,527 16,727,238 964,720 657,669 2,429,913 724,468 36,875,097
78 79 80 81 82 83 84 85	Residential Energy Assessments My Home Energy Report Energy Efficient Appliances and Devices Residential – Smart Saver Energy Efficiency Program Appliance Recycle Program Income Qualified Energy Efficiency and Weatherization Assistance Multi-Family Energy Efficiency Energy Efficiency Education		\$	198,264 \$ 14,455,527 3,386,885 197,134 - 141,450 535,154 165,283	274,951 \$ - 5,134,538 264,823 - 210,612 743,597 221,302	366,739 \$ - 6,635,996 433,059 - 242,487 946,417 279,889	75,609 \$ - 1,569,818 69,705 - 63,120 204,745 57,994	915,563 14,455,527 16,727,238 964,720 - 657,669 2,429,913 724,468
78 79 80 81 82 83 84 85 86	Residential Energy Assessments My Home Energy Report Energy Efficient Appliances and Devices Residential — Smart Saver Energy Efficiency Program Appliance Recycle Program Income Qualified Energy Efficiency and Weatherization Assistance Multi-Family Energy Efficiency Energy Efficiency Education Total Lost Revenues Lost Revenues Lost Revenues	- S - S	\$	198,264 \$ 14,455,527 3,386,885 197,134 - 141,450 535,154 165,283	274,951 \$ - 5,134,538 264,823 - 210,612 743,597 221,302	366,739 \$ - 6,635,996 433,059 - 242,487 946,417 279,889	75,609 \$ - 1,569,818 69,705 - 63,120 204,745 57,994 2,040,991	915,563 14,455,527 16,727,238 964,720 657,669 2,429,913 724,468 36,875,097
78 79 80 81 82 83 84 85 86 87	Residential Energy Assessments My Home Energy Report Energy Efficient Appliances and Devices Residential — Famat Saver Energy Efficiency Program Appliance Recycle Program Income Qualified Energy Efficiency and Weatherization Assistance Multi-Amily Energy Efficiency Energy Efficiency Education Total Lost Revenues Lost Revenue Decrement Pending Rate Case Implementation Found Residential Revenues *			198,264 \$ 14,455,527 3,386,885 197,134 141,450 535,154 165,283 19,079,697	274,951 \$ 5,134,538 264,823 - 210,612 743,597 221,302 6,849,823	366,739 \$ - 6,635,996 433,059 - 242,487 946,417 279,889 8,904,587	75,609 \$ -1,569,818 69,705 -63,120 204,745 57,994 2,040,991 289,930	915,563 14,455,527 16,727,238 964,720 - 657,669 2,429,913 724,468 36,875,037 289,930
78 79 80 81 82 83 84 85 86 87	Residential Energy Assessments My Home Energy Report Energy Efficient Appliances and Devices Residential — Famat Saver Energy Efficiency Program Appliance Recycle Program Income Qualified Energy Efficiency and Weatherization Assistance Multi-Amily Energy Efficiency Energy Efficiency Education Total Lost Revenues Lost Revenue Decrement Pending Rate Case Implementation Found Residential Revenues *			198,264 \$ 14,455,527 3,386,885 197,134 141,450 535,154 165,283 19,079,697	274,951 \$ 5,134,538 264,823 - 210,612 743,597 221,302 6,849,823	366,739 \$ - 6,635,996 433,059 - 242,487 946,417 279,889 8,904,587	75,609 \$ -1,569,818 69,705 -63,120 204,745 57,994 2,040,991 289,930	915,563 14,455,527 16,727,238 964,720 - 657,669 2,429,913 724,468 36,875,037 289,930
78 79 80 81 82 83 84 85 86 87 88 89	Residential Energy Assessments My Home Energy Report Energy Efficient Appliances and Devices Residential — Famat Saver Energy Efficiency Program Appliance Recycle Program Income Qualified Energy Efficiency and Weatherization Assistance Multi-Amily Energy Efficiency Energy Efficiency Education Total Lost Revenues Lost Revenue Decrement Pending Rate Case Implementation Found Residential Revenues Net Lost Residential Revenues Non-Residential	s - s	\$	198,264 \$ 14,455,527 3,386,885 197,134 - 141,450 535,154 165,283 19,079,697 \$ 2017 ^(a)	274,951 \$ 5,134,538 264,823 - 210,612 743,597 221,302 6,849,823 \$ 2018	366,739 \$ 6,635,996 433,059 - 242,487 946,417 279,889 8,904,587 - 8,904,587 \$	75,609 \$ 1,569,818 69,705 - 63,120 204,745 57,994 2,040,991 289,930 - 1,751,061 \$	915,563 14,455,527 16,727,238 964,720 . 657,669 2,429,913 724,468 36,875,097 289,30 . 36,585,168
78 79 80 81 82 83 84 85 86 87	Residential Energy Assessments My Home Energy Report Energy Efficient Appliances and Devices Residential — Smart Saver Energy Efficiency Program Appliance Recycle Program Income Qualified Energy Efficiency and Weatherization Assistance Multi-Family Energy Efficiency Energy Efficiency Education Total Lost Revenue Lost Revenue Decrement Pending Rate Case Implementation Found Residential Revenues * Net Lost Residential Revenues Non-Residential Nonresidential Smart Saver Custom Energy Assessments	s - s		198,264 \$ 14,455,527 3,386,885 197,134 - 141,450 535,154 165,283 19,079,697 - 19,079,697 \$ 2017 ^(a)	274,951 \$	366,739 \$ - 6,635,996 433,059 - 242,487 946,417 279,889 8,904,587 \$ - 8,904,587 \$	75,609 \$ 1,569,818 69,705 - 63,120 204,745 57,994 2,040,991 289,930 1,751,061 \$	915,563 14,455,527 16,727,238 964,720
78 79 80 81 82 83 84 85 86 87 88 89	Residential Energy Assessments My Home Energy Report Energy Efficient Appliances and Devices Residential — Famat Saver Energy Efficiency Program Appliance Recycle Program Income Qualified Energy Efficiency and Weatherization Assistance Multi-Amily Energy Efficiency Energy Efficiency Education Total Lost Revenues Lost Revenue Decrement Pending Rate Case Implementation Found Residential Revenues Net Lost Residential Revenues Non-Residential	s - s	\$	198,264 \$ 14,455,527 3,386,885 197,134 - 141,450 535,154 165,283 19,079,697 \$ 2017 ^(a)	274,951 \$ 5,134,538 264,823 - 210,612 743,597 221,302 6,849,823 \$ 2018	366,739 \$ 6,635,996 433,059 - 242,487 946,417 279,889 8,904,587 - 8,904,587 \$	75,609 \$ 1,569,818 69,705 - 63,120 204,745 57,994 2,040,991 289,930 - 1,751,061 \$	915,563 14,455,527 16,727,238 964,720 . 657,669 2,429,913 724,468 36,875,097 289,30 . 36,585,168
78 79 80 81 81 82 83 84 85 86 87 88 89	Residential Energy Assessments My Home Energy Report Energy Efficient Appliances and Devices Residential — Smart Saver Energy Efficiency Program Appliance Recycle Program Income Qualified Energy Efficiency and Weatherization Assistance Multi-Family Energy Efficiency Energy Efficiency Education Total Lost Revenues Lost Revenue Decrement Pending Rate Case Implementation Found Residential Revenues * Net Lost Residential Revenues Non-Residential Nonresidential Smart Saver Custom Energy Assessments Non Residential Smart Saver Custom Energy Management Information Services Non Residential Smart Saver Custom Energy Management Information Services Non Residential Smart Saver Energy Efficient Food Service Products	s - s	\$	198,264 \$ 14,455,527 3,386,885 197,134 141,450 535,154 165,283 19,079,697 19,079,697 \$ 2017 ^(a) 220,191 435,407 28,410	274,951 \$	366,739 \$ - 6,635,996 433,059 - 242,487 946,417 279,889 8,904,587 8,904,587 \$ 2019 355,020 \$ 916,764 - 69,365	75,609 \$ 1,569,818 69,705 63,120 204,745 57,994 2,040,991 289,930 1,751,061 \$ 2020 139,226 \$ 435,511 12,596	915,563 14,455,527 16,727,238 964,720 657,669 2,429,913 724,468 36,875,097 289,930 36,585,168 Total
78 79 80 81 81 82 83 84 85 86 87 88 89	Residential Energy Assessments My Home Energy Report Energy Efficient Appliances and Devices Residential — Samat Saver Energy Efficiency Program Appliance Recycle Program Income Qualified Energy Efficiency and Weatherization Assistance Multi-family Energy Efficiency Energy Efficiency Education Total Lost Revenues Lost Revenue Decrement Pending Rate Case Implementation Found Residential Revenues* Net Lost Residential Revenues Non-Residential Revenues Non-Residential Smart Saver Custom Energy Assessments Non Residential Smart Saver Custom Energy Management Information Services Non Residential Smart Saver Energy Efficient Food Service Products Non Residential Smart Saver Energy Efficient Food Service Products Non Residential Smart Saver Energy Efficient Food Service Products Non Residential Smart Saver Energy Efficient Food Service Products	s - s	\$	198,264 \$ 14,455,527 3,386,885 197,134 - 141,450 535,154 165,283 19,079,697 19,079,697 \$ 2017 ^(a) 220,191 \$ 435,407 - 28,410 61,639	274,951 \$ 5,134,538 264,823 - 210,612 743,597 221,302 6,849,823 \$ 2018 358,289 \$ 871,334 - 40,771 110,255	366,739 \$ 6,635,996 433,059 - 242,487 946,417 279,889 8,904,587 - 8,904,587 \$ 2019 355,020 \$ 916,764 - 69,365 131,612	75,609 \$ 1,569,818 69,705 - 63,120 204,745 57,994 2,040,991 289,930 - 1,751,061 \$ 2020 139,226 \$ 435,511 12,596 48,778	915,563 14,455,527 16,727,238 964,720 - 657,669 2,429,913 724,668 36,875,097 289,930 - 36,585,168 Total 1,072,725 2,659,016 - 151,142 352,284
78 79 80 81 82 83 84 85 86 87 88 89	Residential Energy Assessments My Home Energy Report Energy Efficient Appliances and Devices Residential — Smart Saver Energy Efficiency Program Appliance Recycle Program Income Qualified Energy Efficiency and Weatherization Assistance Multi-Family Energy Efficiency Energy Efficiency Education Total Lost Revenue Lost Revenue Decrement Pending Rate Case Implementation Found Residential Revenues * Net Lost Residential Revenues Non-Residential Smart Saver Custom Energy Assessments Non Residential Smart Saver Custom Energy Management Information Services Non Residential Smart Saver Energy Efficient Food Service Products Non Residential Smart Saver Energy Efficient HVAC Products	s - s	\$	198,264 \$ 14,455,527 3,386,885 197,134 - 141,450 535,154 165,283 19,079,697 - 19,079,697 \$ 2017 ^(a) 220,191 \$ 435,407 - 28,410 61,639 6,200,869	274,951 \$ 5,134,538 264,823 - 210,612 743,597 221,302 6,849,823 \$ 2018 358,289 \$ 871,334 - 40,771 110,255 10,299,304	366,739 \$ - 6,635,996 433,059 - 242,487 946,417 279,889 8,904,587 8,904,587 \$ 2019 355,020 \$ 916,764 69,365 131,612 8,730,546	75,609 \$ 1,569,818 69,705 - 63,120 204,745 57,994 2,040,991 289,930 1,751,061 \$ 2020 139,226 \$ 435,511 - 12,596 48,778 4,144,248	915,563 14,455,527 16,727,238 964,720 657,669 2,429,913 724,468 36,875,097 289,930 36,585,168 Total 1,072,725 2,659,016 151,142 352,284 29,374,967
78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96	Residential Energy Assessments My Home Energy Report Energy Efficient Appliances and Devices Residential — Famat Saver Energy Efficiency Program Appliance Recycle Program Income Qualified Energy Efficiency and Weatherization Assistance Multi-Amily Energy Efficiency Energy Efficiency Education Total Lost Revenues Lost Revenue Decrement Pending Rate Case Implementation Found Residential Revenues **Net Lost Residential Revenues** Net Lost Residential Revenues **Non-Residential Revenues** Non Residential Smart Saver Custom Energy Assessments Non Residential Smart Saver Custom Energy Management Information Services Non Residential Smart Saver Energy Efficient Food Service Products Non Residential Smart Saver Energy Efficient HVAC Products Non Residential Smart Saver Energy Efficient Upting Products	s - s	\$	198,264 \$ 14,455,527 3,386,885 197,134 - 141,450 535,154 155,283 19,079,697 2017 ^(a) 220,191 220,191 435,407 - 28,410 61,639 6,200,869 58,808	274,951 \$. 5,134,538 264,823 - 210,612 743,597 221,302 6,849,823 \$. 6,849,823 \$. 2018 358,289 \$ 871,334 . 4,0771 110,255 10,299,304 127,509	366,739 \$ 6,635,996 433,059 - 242,487 946,417 279,889 8,904,587 5,904,587 \$ 2019 355,020 \$ 916,764 - 69,365 131,612 8,730,546 93,363	75,609 \$ 1,569,818 69,705 - 63,120 204,745 57,994 2,040,991 289,930 - 1,751,061 \$ 2020 139,226 \$ 435,511 - 12,596 487,78 4,144,248 68,742	915,563 14,455,527 16,727,238 964,720 657,669 2,429,913 724,468 36,875,097 289,930 - 36,585,168 Total 1,072,725 2,659,016 - 151,142 352,284 29,374,967 348,421
78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97	Residential Energy Assessments My Home Energy Report Energy Efficient Appliances and Devices Residential — Smart Saver Energy Efficiency Program Appliance Recycle Program Income Qualified Energy Efficiency and Weatherization Assistance Multi-Family Energy Efficiency and Weatherization Assistance Multi-Family Energy Efficiency Energy Efficiency Education Total Lost Revenues Lost Revenue Decrement Pending Rate Case Implementation Found Residential Revenues **Net Lost Residential Revenues** Net Lost Residential Revenues **Net Lost Residential Revenues* **Net Lost Residential Saver Custom Energy Assessments Non Residential Samat Saver Custom Energy Management Information Services Non Residential Samat Saver Energy Efficient Food Service Products Non Residential Samat Saver Energy Efficient HyMC Products Non Residential Samat Saver Energy Efficient Lighting Products Non Residential Samat Saver Energy Efficient Lighting Products Non Residential Samat Saver Energy Efficient Lighting Products Non Residential Samat Saver Energy Efficient Pumps and Drives Products Non Residential Samat Saver Energy Efficient Tip Froducts	s - s	\$	198,264 \$ 14,455,527 3,386,885 197,134 - 141,450 535,154 165,283 19,079,697 - 19,079,697 \$ 2017 ^[a] 220,191 \$ 435,407 - 28,410 61,639 6,200,869 58,808 82	274,951 \$. 5,134,538 264,823 . 210,612 743,597 221,302 . 6,849,823 \$. 2018 358,289 \$ 871,334 . 40,771 110,255 10,299,304 127,509 162	366,739 \$ 6,635,996 433,059 - 242,487 946,417 279,889 8,904,587 8,904,587 \$ 2019 355,020 \$ 916,764 - 69,365 131,612 8,730,546 93,363 186	75,609 \$ 1,569,818 69,705 . 63,120 204,745 57,994 2,040,991 289,930 . 1,751,061 \$ 2020 139,226 \$ 435,511 . 1,2596 48,778 4,144,248 68,742 88,1	915,563 14,455,527 16,727,238 964,720 - 657,669 2,429,913 724,468 36,875,097 289,930 - 36,585,168 Total 1,072,725 2,659,016 - 151,142 352,284 29,374,967 348,421 512
78 79 80 81 82 83 84 85 86 87 79 99 91 92 93 94 95 96 97 98	Residential Energy Assessments My Home Energy Report Energy Efficient Appliances and Devices Residential — Smart Saver Energy Efficiency Program Appliance Recycle Program Income Qualified Energy Efficiency and Weatherization Assistance Multi-Family Energy Efficiency Energy Efficiency Education Total Lost Revenues Lost Revenue Decrement Pending Rate Case Implementation Found Residential Revenues* Net Lost Residential Revenues Non-Residential Revenues Non-Residential Smart Saver Custom Energy Assessments Non Residential Smart Saver Custom Energy Management Information Services Non Residential Smart Saver Energy Efficient Food Service Products Non Residential Smart Saver Energy Efficient HVAC Products Non Residential Smart Saver Energy Efficient Procuses Equipment Products Non Residential Smart Saver Energy Efficient Procuses Equipment Products	s - s	\$	198,264 \$ 14,455,527 3,386,885 197,134	274,951 \$. 5,134,538 264,823 . 210,612 743,597 221,302 6,849,823 \$ 6,849,823 \$ 2018 358,289 \$ 871,334 . 40,771 110,255 10,299,304 127,509 162 12,172	366,739 \$ - 6,635,996 433,059 - 242,487 946,417 279,889 8,904,587 8,904,587 \$ 2019 355,020 \$ 916,764 - 69,365 131,612 8,730,546 93,363 186 10,555	75,609 \$ 1,569,818 69,705 - 63,120 204,745 57,994 2,040,991 289,930 - 1,751,061 \$ 2020 139,226 \$ 435,511 - 12,596 48,778 4,144,248 68,742 81 4,015	915,563 14,455,527 16,727,238 964,720 657,669 2,429,913 724,468 36,875,097 289,930 36,585,168 Total 1,072,725 2,659,016 - 151,142 352,284 29,374,967 348,421 512 34,902
78 79 80 81 82 83 84 85 86 87 88 89 91 92 93 94 95 96 97 98	Residential Energy Assessments My Home Energy Report Energy Efficient Appliances and Devices Residential — Samat Saver Energy Efficiency Program Appliance Recycle Program Income Qualified Energy Efficiency and Weatherization Assistance Multi-Family Energy Efficiency Energy Efficiency Education Total Lost Revenues Lost Revenue Decrement Pending Rate Case Implementation Found Residential Revenues * Net Lost Residential Revenues * Net Lost Residential Revenues * Non-Residential Revenues Non-Residential Smart Saver Custom Energy Management Information Services Non Residential Smart Saver Energy Efficient Food Service Products Non Residential Smart Saver Energy Efficient HyAC Products Non Residential Smart Saver Energy Efficient Ughting Products Non Residential Smart Saver Energy Efficient Ughtin	s - s	\$	198,264 \$ 14,455,527 3,386,885 197,134 - 141,450 535,154 165,283 19,079,697 - 19,079,697 \$ 2017 ^(a) 220,191 \$ 435,407 - 28,410 61,639 6,200,869 58,808 82 8,160 66	274,951 \$. 5,134,538 264,823 . 210,612 743,597 221,302 6,849,823 \$. 6,849,823 \$. 2018 358,289 \$ 871,334 . 40,771 110,255 10,299,304 127,509 162 12,172 774	366,739 \$ 6,635,996 433,059 - 242,487 946,417 279,889 8,904,587 - 8,904,587 \$ 2019 355,020 \$ 916,764 - 69,365 131,612 8,730,546 93,363 186 10,555 818	75,609 \$ 1,568,818 69,705 - 63,120 204,745 57,994 2,040,991 289,930 - 1,751,061 \$ 2020 139,226 \$ 435,511 - 12,596 48,778 4,144,248 68,742 81 4,015 686	915,563 14,455,527 16,727,238 964,720 - 657,669 2,429,913 724,468 36,875,097 289,930 - 36,585,168 Total 1,072,725 2,659,016 - 151,142 352,244 29,374,967 348,421 512 34,902 2,344
78 79 80 81 82 83 84 85 86 87 79 99 91 92 93 94 95 96 97 98	Residential Energy Assessments My Home Energy Report Energy Efficient Appliances and Devices Residential — Smart Saver Energy Efficiency Program Appliance Recycle Program Income Qualified Energy Efficiency and Weatherization Assistance Multi-Family Energy Efficiency Energy Efficiency Education Total Lost Revenues Lost Revenue Decrement Pending Rate Case Implementation Found Residential Revenues * Net Lost Residential Revenues Non-Residential Revenues Non-Residential Smart Saver Custom Energy Assessments Non Residential Smart Saver Custom Energy Management Information Services Non Residential Smart Saver Energy Efficient Prod Service Products Non Residential Smart Saver Energy Efficient Purps and Drives Products Non Residential Smart Saver Energy Efficient Purps and Drives Products Non Residential Smart Saver Energy Efficient Process Equipment Products Non Residential Smart Saver Energy Efficient Process Equipment Products Non Residential Smart Saver Energy Efficient Process Equipment Products Non Residential Smart Saver Energy Efficient Process Equipment Products Non Residential Smart Saver Energy Efficient Process Equipment Products Non Residential Smart Saver Energy Efficient Process Equipment Products Non Residential Smart Saver Energy Efficient Process Equipment Products Non Residential Smart Saver Energy Efficient Process Equipment Products Non Residential Smart Saver Energy Efficient Process Equipment Products Non Residential Smart Saver Energy Efficient Process Equipment Products Non Residential Smart Saver Energy Efficient Process Equipment Products	s - s	\$	198,264 \$ 14,455,527 3,386,885 197,134	274,951 \$. 5,134,538 264,823 . 210,612 743,597 221,302 6,849,823 \$ 6,849,823 \$ 2018 358,289 \$ 871,334 . 40,771 110,255 10,299,304 127,509 162 12,172	366,739 \$ - 6,635,996 433,059 - 242,487 946,417 279,889 8,904,587 8,904,587 \$ 2019 355,020 \$ 916,764 - 69,365 131,612 8,730,546 93,363 186 10,555	75,609 \$ 1,569,818 69,705 - 63,120 204,745 57,994 2,040,991 289,930 - 1,751,061 \$ 2020 139,226 \$ 435,511 - 12,596 48,778 4,144,248 68,742 81 4,015	915,563 14,455,527 16,727,238 964,720 657,669 2,429,913 724,468 36,875,097 289,930 36,585,168 Total 1,072,725 2,659,016 - 151,142 352,284 29,374,967 348,421 512 34,902
78 879 800 811 822 833 844 855 866 877 88 89 991 990 991 995 996 997 98 991000	Residential Energy Assessments My Home Energy Report Energy Efficient Appliances and Devices Residential — Samat Saver Energy Efficiency Program Appliance Recycle Program Income Qualified Energy Efficiency and Weatherization Assistance Multi-family Energy Efficiency Energy Efficiency Education Total Lost Revenues Lost Revenue Decrement Pending Rate Case Implementation Found Residential Revenues* Net Lost Residential Revenues Non-Residential Revenues Non-Residential Revenues Non-Residential Smart Saver Custom Energy Management Information Services Non Residential Smart Saver Energy Efficient Products Non Residential Smart Saver Energy Efficient Ughting Products Non Residential Smart Saver Energy Efficient Inputs and Drives Products Non Residential Smart Saver Energy Efficient Impus and Drives Products Non Residential Smart Saver Energy Efficient Ir Products Non Residential Smart Saver Energy Efficient Ir Products Non Residential Smart Saver Energy Efficient Ir Products Non Residential Smart Saver Energy Efficient Process Equipment Products Non Residential Smart Saver Energy Efficient Process Equipment Products Non Residential Smart Saver Performance Incentive Small Business Energy Saver Smart Energy in Offices	s - s	\$	198,264 \$ 14,455,527 3,386,885 197,134 - 141,450 535,154 165,283 19,079,697 \$ 2017 ^(a) 220,191 \$ 435,407 - 28,410 61,639 6,200,869 58,808 82 8,160 66 2,203,337 209,310	274,951 \$. 5,134,538 264,823 . 210,612 743,597 221,302 . 6,849,823 \$. 2018 358,289 \$ 871,334 . 40,771 110,255 10,299,304 127,509 162 12,172 774 3,774,927 149,382 .	366,739 \$. 6,635,996 433,059 . 242,487 946,417 279,889 8,904,587 \$. 8,904,587 \$. 2019 355,020 \$. 69,365 131,612 8,730,546 93,363 186 10,555 818 4,099,390 .	75,609 \$ 1,569,818 69,705 - 63,120 204,745 57,994 2,040,991 289,930 1,751,061 \$ 2020 139,226 \$ 435,511 - 12,596 48,778 4,144,248 68,742 4,015 686 1,591,993	915,563 14,455,527 16,727,238 964,720 - 657,669 2,429,913 724,468 36,875,097 289,930 - 36,585,168 Total 1,072,725 2,659,016 - 151,142 352,284 29,374,967 348,421 512 34,902 2,344 11,669,648 358,692
78 879 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 103	Residential Energy Assessments My Home Energy Report Energy Efficient Appliances and Devices Residential — Samat Saver Energy Efficiency Program Appliance Recycle Program Income Qualified Energy Efficiency and Weatherization Assistance Multi-Amily Energy Efficiency Energy Efficiency Education Total Lost Revenues Lost Revenue Decrement Pending Rate Case Implementation Found Residential Revenues **Net Lost Residential Revenues** Net Lost Residential Revenues **Non-Residential Revenues **Non-Residential Smart Saver Custom Energy Assessments Non Residential Smart Saver Custom Energy Management Information Services Non Residential Smart Saver Energy Efficient Food Service Products Non Residential Smart Saver Energy Efficient HVAC Products Non Residential Smart Saver Energy Efficient Process Equipment Products Non Residential Smart Saver Energy Efficient Process Equipment Products Non Residential Smart Saver Energy Efficient Process Equipment Products Non Residential Smart Saver Energy Efficient Process Equipment Products Non Residential Smart Saver Energy Efficient Process Equipment Products Non Residential Smart Saver Energy Efficient Process Equipment Products Non Residential Smart Saver Energy Efficient Process Equipment Products Non Residential Smart Saver Energy Efficient Process Equipment Products Non Residential Smart Saver Energy Efficient Process Equipment Products Non Residential Smart Saver Energy Efficient Process Equipment Products Non Residential Smart Saver Energy Efficient Process Equipment Products Non Residential Smart Saver Energy Efficient Process Equipment Products Non Residential Smart Saver Energy Efficient Process Equipment Products Non Residential Smart Saver Energy Efficient Process Equipment Products Non Residential Smart Saver Energy Efficient Process Equipment Products Non Residential Smart Saver Energy Efficient Process Equi	s - s	\$	198,264 \$ 14,455,527 3,386,885 197,134 - 141,450 535,154 155,283 19,079,697 2017 ^[a] 220,191 220,191 435,407 - 28,410 61,639 6,200,869 58,808 82 8,160 66 2,203,337 209,310 - 85,268	274,951 \$ 5,134,538 264,823 - 210,612 743,597 221,302 6,849,823 \$ 2018 2018 358,289 \$ 871,334 - 40,771 110,255 10,299,304 127,509 162 12,172 774 3,774,927 149,382 - 158,514	366,739 \$ 6,635,996 433,059 - 242,487 946,417 279,889 8,904,587 5,904,587 \$ 2019 355,020 \$ 916,764 - 69,365 131,612 8,730,546 93,363 186 10,555 818 4,099,390 - 162,762	75,609 \$ 1,569,818 69,705 - 63,120 204,745 57,994 2,040,991 289,930 - 1,751,061 \$ 2020 139,226 \$ 435,511 - 12,596 435,511 - 12,596 48,778 4,144,248 68,742 81 4,015 686 1,591,993 - 74,100	915,563 14,455,527 16,727,238 964,720 - 657,669 2,429,913 724,468 36,875,097 289,930 - 36,585,168 Total 1,072,725 2,659,016 - 151,142 352,284 29,374,967 348,421 512 34,902 2,344 11,669,326 - 480,644
78 879 80 811 82 83 84 85 86 87 87 88 89 90 101 102 103 104	Residential Energy Assessments My Home Energy Report Energy Efficient Appliances and Devices Residential — Samat Saver Energy Efficiency Program Appliance Recycle Program Income Qualified Energy Efficiency and Weatherization Assistance Multi-Family Energy Efficiency Energy Efficiency Education Total Lost Revenues Lost Revenue Decrement Pending Rate Case Implementation Found Residential Revenues Not Lost Residential Revenues Not Lost Residential Revenues Non Residential Samat Saver Custom Energy Assessments Non Residential Samat Saver Custom Energy Management Information Services Non Residential Samat Saver Energy Efficient Food Service Products Non Residential Samat Saver Energy Efficient Pumps and Drives Products Non Residential Samat Saver Energy Efficient Pumps and Drives Products Non Residential Samat Saver Energy Efficient Pumps and Drives Products Non Residential Samat Saver Energy Efficient Process Equipment Products Non Residential Samat Saver Penergy Efficient Process Equipment Products Non Residential Samat Saver Performance Incentive Small Business Energy Saver Smart Energy in Offices Business Energy Report EnergyWise for Business Total Lost Revenues	s - s	\$	198,264 \$ 14,455,527 3,386,885 197,134 - 141,450 535,154 165,283 19,079,697 \$ 2017 ^(a) 220,191 \$ 435,407 - 28,410 61,639 6,200,869 58,808 82 8,160 66 2,203,337 209,310	274,951 \$. 5,134,538 264,823 . 210,612 743,597 221,302 . 6,849,823 \$. 2018 358,289 \$ 871,334 . 40,771 110,255 10,299,304 127,509 162 12,172 774 3,774,927 149,382 .	366,739 \$. 6,635,996 433,059 . 242,487 946,417 279,889 8,904,587 \$. 8,904,587 \$. 2019 355,020 \$. 69,365 131,612 8,730,546 93,363 186 10,555 818 4,099,390 .	75,609 \$ 1,569,818 69,705 - 63,120 204,745 57,994 2,040,991 289,930 - 1,751,061 \$ 2020 139,226 \$ 435,511 - 12,596 48,778 4,144,248 68,742 81 4,015 686 1,591,993 - 74,100 6,519,975	915,563 14,455,527 16,727,238 964,720 - 657,669 2,429,913 724,468 36,875,097 289,930 - 36,585,168 Total 1,072,725 2,659,016 - 151,142 352,284 29,374,967 348,421 512 34,902 2,344 11,669,648 358,692 480,644 46,505,296
78 879 80 811 812 833 844 85 86 877 88 89 99 91 92 93 94 95 96 97 98 99 1000 1011 102 103 1044 105	Residential Energy Assessments My Home Energy Report Energy Efficient Appliances and Devices Residential — Smart Saver Energy Efficiency Program Appliance Recycle Program Income Qualified Energy Efficiency and Weatherization Assistance Multi-Family Energy Efficiency Energy Efficiency Education Total Lost Revenues Lost Revenue Decrement Pending Rate Case Implementation Found Residential Revenues * Net Lost Residential Revenues * Net Lost Residential Revenues Services Non Residential Smart Saver Custom Energy Assessments Non Residential Smart Saver Custom Energy Management Information Services Non Residential Smart Saver Energy Efficient Food Service Products Non Residential Smart Saver Energy Efficient Food Service Products Non Residential Smart Saver Energy Efficient Pumps and Drives Products Non Residential Smart Saver Energy Efficient Process Equipment Products Non Residential Smart Saver Energy Efficient Process Equipment Products Non Residential Smart Saver Energy Efficient Process Equipment Products Non Residential Smart Saver Energy Efficient Process Equipment Products Non Residential Smart Saver Energy Efficient Products Non Residential Smart Saver Energy E	s - s	\$	198,264 \$ 14,455,527 3,386,885 197,134 - 141,450 535,154 155,283 19,079,697 2017 ^[a] 220,191 220,191 435,407 - 28,410 61,639 6,200,869 58,808 82 8,160 66 2,203,337 209,310 - 85,268	274,951 \$ 5,134,538 264,823 - 210,612 743,597 221,302 6,849,823 \$ 2018 2018 358,289 \$ 871,334 - 40,771 110,255 10,299,304 127,509 162 12,172 774 3,774,927 149,382 - 158,514	366,739 \$ 6,635,996 433,059 - 242,487 946,417 279,889 8,904,587 5,904,587 \$ 2019 355,020 \$ 916,764 - 69,365 131,612 8,730,546 93,363 186 10,555 818 4,099,390 - 162,762	75,609 \$ 1,569,818 69,705 - 63,120 204,745 57,994 2,040,991 289,930 - 1,751,061 \$ 2020 139,226 \$ 435,511 - 12,596 435,511 - 12,596 48,778 4,144,248 68,742 81 4,015 686 1,591,993 - 74,100	915,563 14,455,527 16,727,238 964,720 - 657,669 2,429,913 724,468 36,875,097 289,930 - 36,585,168 Total 1,072,725 2,659,016 - 151,142 352,284 29,374,967 348,421 512 34,902 2,344 11,669,326 - 480,644
78 879 80 811 82 83 84 85 86 87 87 88 89 90 101 102 103 104	Residential Energy Assessments My Home Energy Report Energy Efficient Appliances and Devices Residential — Samat Saver Energy Efficiency Program Appliance Recycle Program Income Qualified Energy Efficiency and Weatherization Assistance Multi-Family Energy Efficiency Energy Efficiency Education Total Lost Revenues Lost Revenue Decrement Pending Rate Case Implementation Found Residential Revenues **Net Lost Residential Revenues* Not Lost Residential Revenues **Net Lost Residential Revenues **Non-Residential Smart Saver Custom Energy Management Information Services Non Residential Smart Saver Energy Efficient Food Service Products Non Residential Smart Saver Energy Efficient Lighting Products Non Residential Smart Saver Energy Efficient Upthing Products Non Residential Smart Saver Energy Efficient I'll Products Non Residential Smart Saver Performance Incentive Small Business Energy Saver Smart Energy in Offices Business Energy Report EnergyWise for Business Total Lost Revenues Lost Revenue Decrement Pending Rate Case Implementation Found Non-Residential Revenues **	s - s	\$	198,264 \$ 14,455,527 3,386,885 197,134 - 141,450 535,154 155,283 19,079,697 2017 ^[a] 220,191 220,191 435,407 - 28,410 61,639 6,200,869 58,808 82 8,160 66 2,203,337 209,310 - 85,268	274,951 \$ 5,134,538 264,823 - 210,612 743,597 221,302 6,849,823 \$ 2018 2018 358,289 \$ 871,334 - 40,771 110,255 10,299,304 127,509 162 12,172 774 3,774,927 149,382 - 158,514	366,739 \$ 6,635,996 433,059 - 242,487 946,417 279,889 8,904,587 5,904,587 \$ 2019 355,020 \$ 916,764 - 69,365 131,612 8,730,546 93,363 186 10,555 818 4,099,390 - 162,762	75,609 \$ 1,569,818 69,705 - 63,120 204,745 57,994 2,040,991 289,930 - 1,751,061 \$ 2020 139,226 \$ 435,511 - 12,596 48,778 4,144,248 68,742 81 4,015 686 1,591,993 - 74,100 6,519,975	915,563 14,455,527 16,727,238 964,720 - 657,669 2,429,913 724,468 36,875,097 289,930 - 36,585,168 Total 1,072,725 2,659,016 - 151,142 352,284 29,374,967 348,421 512 34,902 2,344 11,669,648 358,692 480,644 46,505,296

* Found Revenues - See Evans Exhibit 4
(a) Lost revenues were estimated by applying forecasted lost revenue rates for residential and non-residential customers to state specific forecasted program participation.

Supplemental Evans Exhibit 2, page 3

		Vintage 2018							
Line	Residential	2015	2016	2017	_r (a)	2018	2019	2020	Total
108	Residential Energy Assessments				\$	204,104	\$ 353,963	\$ 353,514	\$ 911,581
109	My Home Energy Report					15,088,601	-	-	15,088,601
110	Energy Efficient Appliances and Devices					4,299,478	4,054,825	9,080,869	17,435,172
111	Residential – Smart \$aver Energy Efficiency Program					161,446	213,538	318,537	693,520
112	Appliance Recycle Program					-	-	-	-
113	Income Qualified Energy Efficiency and Weatherization Assistance					130,598	246,384	252,956	629,937
114	Multi-Family Energy Efficiency					500,522	1,165,290	1,086,338	2,752,151
115	Energy Efficiency Education					122,869	260,025	231,584	614,478
116	Total Lost Revenues		-	-	-	20,507,618	6,294,025	11,323,797	38,125,440
117	Lost Revenue Decrement Pending Rate Case Implementation							1,608,585	1,608,585
118	Found Residential Revenues *					-	-		-
119	Net Lost Residential Revenues	Ś	- S	- Ś	- \$	20.507.618	\$ 6.294.025	\$ 9.715.212	\$ 36.516.855

	Non-Residential	2015	2016	2017 ^(a)	2018	2019	2020	Total
120	Nonresidential Smart Saver Custom Energy Assessments				\$ 212 \$	549,855 \$	849 \$	550,916
121	Non Residential Smart Saver Custom				461,343	2,688,812	740,662	3,890,816
122	Energy Management Information Services					-		-
123	Non Residential Smart Saver Energy Efficient Food Service Products				13,485	26,794	21,497	61,776
124	Non Residential Smart Saver Energy Efficient HVAC Products				50,511	134,931	114,693	300,135
125	Non Residential Smart Saver Energy Efficient Lighting Products				4,078,660	2,987,074	6,538,710	13,604,445
126	Non Residential Smart Saver Energy Efficient Pumps and Drives Products				66,649	49,390	84,066	200,106
127	Non Residential Smart Saver Energy Efficient IT Products				185	117,948	859	118,991
128	Non Residential Smart Saver Energy Efficient Process Equipment Products				6,501	11,082	10,246	27,829
129	Non Residential Smart Saver Performance Incentive				20,243	160,962	82,058	263,263
129	Small Business Energy Saver				1,772,873	3,493,883	3,374,219	8,640,976
130	Smart Energy in Offices				39,733	-		39,733
131	Business Energy Report					-		-
132	EnergyWise for Business				64,755	51,234	113,468	229,458
133	Total Lost Revenues		-		6,575,151	10,271,966	11,081,327	27,928,443
134	Lost Revenue Decrement Pending Rate Case Implementation						1,574,142	1,574,142
135	Found Non-Residential Revenues *							
136	Net Lost Non-Residential Revenues		\$ -	\$ -	\$ 6,575,151 \$	10,271,966 \$	9,507,185 \$	26,354,302

^{*} Found Revenues - See Evans Exhibit 4

(a) Lost revenues were estimated by applying forecasted lost revenue rates for residential and non-residential customers to state specific forecasted program participation.

										Supple	emental Evans Exhibit 2, page 4
		Vintage 2019									
Line	Residential	2015	201	.6	2017 ^(a)	2018		2019	2020		Total
137	Residential Energy Assessments						\$	178.309	\$ 287	.735 Ś	466,044
	My Home Energy Report						,	15,206,604	, 20,	-	15,206,604
139	Energy Efficient Appliances and Devices							2,553,378	4,301	,203	6,854,581
140	Residential – Smart \$aver Energy Efficiency Program							129,065	158	,765	287,830
141	Appliance Recycle Program							-		-	-
142	Income Qualified Energy Efficiency and Weatherization Assistance							99,398	185	,634	285,032
143	Multi-Family Energy Efficiency							496,951	903	,943	1,400,894
144	Energy Efficiency Education							119,499	261	,545	381,044
145	Total Lost Revenues		-	-	-			18,783,204	6,098	,825	24,882,029
146	Lost Revenue Decrement Pending Rate Case Implementation								866	,360	866,360
147	Found Residential Revenues *							-		-	-
148	Net Lost Residential Revenues	\$	- \$	- \$	-		\$	18,783,204	\$ 5,232	,466 \$	24,015,670

	Non-Residential	2015	2016	2017 ^(a)	2018	20:	.9	2020	Total
149	Nonresidential Smart Saver Custom Energy Assessments					\$	145,699 \$	300,502 \$	446,201
150	Non Residential Smart Saver Custom					1	,059,600	2,335,850	3,395,450
151	Energy Management Information Services						-	-	-
152	Non Residential Smart Saver Energy Efficient Food Service Products						146,435	153,750	300,185
153	Non Residential Smart Saver Energy Efficient HVAC Products						193,528	322,214	515,742
154	Non Residential Smart Saver Energy Efficient Lighting Products					1	921,414	3,497,532	5,418,946
155	Non Residential Smart Saver Energy Efficient Pumps and Drives Products						77,800	214,313	292,113
156	Non Residential Smart Saver Energy Efficient IT Products						77,654	125,792	203,445
157	Non Residential Smart Saver Energy Efficient Process Equipment Products						18,722	39,115	57,837
158	Non Residential Smart Saver Performance Incentive						375,261	656,829	1,032,089
158	Small Business Energy Saver					1	523,101	2,471,538	3,994,639
159	Smart Energy in Offices						-		-
160	Business Energy Report						-		-
161	EnergyWise for Business						51,234	76,675	127,908
162	Total Lost Revenues					5	590,446	10,194,109	15,784,556
163	Lost Revenue Decrement Pending Rate Case Implementation							1,448,109	1,448,109
164	Found Non-Residential Revenues *						-		-
165	Net Lost Non-Residential Revenues		\$ -	\$ -		\$ 5	590,446 \$	8,746,000 \$	14,336,447

^{*} Found Revenues - See Evans Exhibit 4

(a) Lost revenues were estimated by applying forecasted lost revenue rates for residential and non-residential customers to state specific forecasted program participation.

Supplemental Evans Exhibit 2, page 5

		Vintage 2020							
Line	Residential	2015	20	16	2017 ^(a)	2018	2019	2020	Total
166	Residential Energy Assessments							161,966	\$ 161,966
167	My Home Energy Report							14,686,468	14,686,468
168	Energy Efficient Appliances and Devices							1,237,431	1,237,431
169	Residential – Smart \$aver Energy Efficiency Program							263,183	263,183
170	Appliance Recycle Program								
171	Income Qualified Energy Efficiency and Weatherization Assistance							103,534	103,534
172	Multi-Family Energy Efficiency							496,249	496,249
173	Energy Efficiency Education							146,751	146,751
174	Total Lost Revenues		-	-	-			- 17,095,583	17,095,583
175	Lost Revenue Decrement Pending Rate Case Implementation							2,428,488	2,428,488
176	Found Residential Revenues *								-
177	Net Lost Residential Revenues	\$	- \$	- \$	-		\$	- \$ 14,667,095	\$ 14,667,095

	Non-Residential	2015	2016	2017 ^(a)	2018	2019		2020	Total
178	Nonresidential Smart Saver Custom Energy Assessments						\$	136,414 \$	136,414
179	Non Residential Smart Saver Custom							1,201,984	1,201,984
180	Energy Management Information Services								-
181	Non Residential Smart Saver Energy Efficient Food Service Products							93,624	93,624
182	Non Residential Smart Saver Energy Efficient HVAC Products							61,819	61,819
183	Non Residential Smart Saver Energy Efficient Lighting Products							3,029,908	3,029,908
184	Non Residential Smart Saver Energy Efficient Pumps and Drives Products							94,651	94,651
185	Non Residential Smart Saver Energy Efficient IT Products							6,639	6,639
186	Non Residential Smart Saver Energy Efficient Process Equipment Products							12,061	12,061
187	Non Residential Smart Saver Performance Incentive							402,902	402,902
187	Small Business Energy Saver							955,245	955,245
188	Smart Energy in Offices								-
189	Business Energy Report								-
190	EnergyWise for Business							46,148	46,148
191	Total Lost Revenues		-		-			6,041,394	6,041,394
192	Lost Revenue Decrement Pending Rate Case Implementation							858,201	858,201
193	Found Non-Residential Revenues *								-
194	Net Lost Non-Residential Revenues		\$ -	\$	-	\$	- \$	5,183,193 \$	5,183,193

^{*} Found Revenues - See Evans Exhibit 4

(a) Lost revenues were estimated by applying forecasted lost revenue rates for residential and non-residential customers to state specific forecasted program participation.

Duke Energy Carolinas, LLC For the Period January 1, 2018 - December 31, 2018 Docket Number E.7 Sub 1192 Actual Program Costs for Vintage Years 2014, 2015, 2016, 2017 and 2018

		Carolinas System - 12 Months Ended 12/31/2014	Carolinas System - 12 months Ended 12/31/2015	Carolinas System - 12 months Ended 12/31/2016	Carolinas System - 12 months Ended 12/31/2017	Carolinas System - 12 months Ended 12/31/2018
1	Residential Energy Assessments	\$ 3,605,737	\$ 3,086,173	2,678,893	2,909,098	2,836,229
2	My Home Energy Report	8,285,066	9,845,895	10,822,444	13,812,250	12,765,286
3	Energy Efficient Appliances and Devices	14,738,129	12,050,485	24,069,774	30,340,728	42,687,244
4	Residential – Smart Şaver Energy Efficiency Program	4,786,807	5,416,833	7,839,566	7,403,327	6,955,146
5	Appliance Recycle Program	1,515,867	1,537,241	(97,397)	5,307	
6	Income Qualified Energy Efficiency and Weatherization Assistance	1,917,192	2,238,776	4,792,436	5,505,992	6,490,735
7	Multi family Energy Efficiency	1,442,533	2,092,935	2,518,988	3,168,422	3,604,921
8	Energy Efficiency Education	1,963,153	2,054,672	2,126,509	2,077,611	1,992,260
9	Nonresidential Smart Saver Custom Energy Assessments	1,458,195	660,420	2,034,308	2,139,875	407,293
10	Energy Management Information Systems	74,855		-	-	-
11	Non-Residential Smart Saver Custom	8,136,712	9,932,877	7,356,509	7,304,838	6,068,902
12	Non-Residential Smart Saver Performance Incentive			35,670	320,559	479,610
13	Non-Residential Energy Efficient Food Service Products	199,350	194,425	324,117	306,488	235,605
14	Non-Residential Smart Saver Energy Efficient HVAC Products	815,339	1,142,522	1,473,991	1,560,769	1,620,748
15	Non-Residential Smart Saver Energy Efficient Lighting Products	6,727,675	11,335,798	39,622,944	66,689,770	25,872,380
16	Nonresidential Energy Efficient Pumps and Drives Products	584,874	466,478	471,930	528,937	277,785
17	Nonresidential Energy Efficient ITEE	25,730	716,542	285,430	61,215	36,875
18	Nonresidential Energy Efficient Process Equipment Products	89,809	88,823	125,947	162,413	67,509
19 20	Smart Energy In Offices	1,156,497	1,463,240	1,061,729	891,010 17,350,972	219,748 15,977,993
20	Small Business Energy Saver	1,026,607	13,968,790	15,360,852		15,977,993
21	Business Energy Report Power Manager	15 662 602	126,404	263,169 13,644,970	126,680 14,021,500	14 422 610
22	EnergyWise for Business	15,662,693	14,634,279 1,549,305	470,304	2,484,618	14,423,610 3,062,816
24	Power Share	15,520,492	15,779,050	14,291,024	13,316,535	12,922,977
25	Disallowed Costs from 2015 Program Costs Audit (Order E-7 Sub 1105, dated 8/25/16)	15,520,492	(3,851)	14,291,024	13,310,333	12,922,977
26	Total Energy Efficiency & Demand Side Program Costs	\$ 89,733,313	\$ 110,378,109	\$ 151,574,107	\$ 192,488,915	\$ 159,005,671
27 28 29	NC Allocation Factor for EE programs NC Allocation Factor for DSM programs-Residential NC Allocation Factor for DSM programs-Non-Residential	72.9600473% 34.0209980% 41.2108021%		73.0962827% 33.7973480% 40.8166437%	72.8087506% 33.8075104% 40.0747013%	32.1574721%
		NC Allocated - 12		NC Allocated - 12		NC Allocated - 12
		Months Ended	NC Allocated - 12 Months	Months Ended		Months Ended
		12/31/2014	Ended 12/31/2015	12/31/2016	2	
30	Residential Energy Assessments	\$ 2,630,748		\$ 1,958,171		\$ 2,065,023
31	My Home Energy Report	6,044,788	7,183,217	7,910,805	10,056,526	9,294,245
32	Energy Efficient Appliances and Devices	10,752,946	8,791,608	17,594,110	22,090,705	31,080,049
33	Residential – Smart \$aver Energy Efficiency Program	3,492,457	3,951,930	5,730,431	5,390,270	5,063,955
34 35	Appliance Recycle Program	1,105,977	1,121,517	(71,194)	3,864	
35 36	Income Qualified Energy Efficiency and Weatherization Assistance	1,398,784	1,633,332	3,503,093	4,008,844	4,725,823
37	Multi family Energy Efficiency Energy Efficiency Education	1,052,473 1,432,317	1,526,931 1,499,016	1,841,287	2,306,888 1,512,683	2,624,698 1,450,539
38	Nonresidential Smart Saver Custom Energy Assessments	1,432,317	1,499,016 481,819	1,554,399 1,487,003	1,512,683	296,545
39	Energy Management Information Systems	54,614	401,013	1,467,003	1,336,010	290,343
40	Non-Residential Smart Saver Custom	5,936,549	7,246,677	5,377,335	5,318,561	4,418,691
41	Non-Residential Smart Saver Custom Non-Residential Smart Saver Performance Incentive	3,330,343	7,240,077	26,073	3,310,301	4,410,031
42	Non-Residential Energy Efficient Food Service Products	145,446	141,845	236,918	223,150	171,541
43	Non-Residential Smart Saver Energy Efficient HVAC Products	594,872	833,543	1,077,433	1.136.376	1,180,046
44	Non-Residential Smart Saver Energy Efficient Lighting Products	4,908,515	8,270,198	28,962,899	48,555,988	18,837,357
45	Nonresidential Energy Efficient Pumps and Drives Products	426,724	340,326	344,963	385,112	202,252
46	Nonresidential Energy Efficient ITEE	18,773	522,764	208,639	44,570	26,848
47	Nonresidential Energy Efficient Process Equipment Products	65,525	64,802	92,062	118,251	49,153
48	Smart Energy In Offices	843,781	1,067,528	776,084	648,734	159,996
49	Small Business Energy Saver	749,013	10,191,136	11,228,212	12,633,026	11,633,377
50	Business Energy Report		92,220	192,366	92,234	
51	Power Manager	10,608,831	10,394,843	9,600,575	10,082,296	9,778,895
52	EnergyWise for Business		1,213,062	369,407	1,879,262	2,416,251
53	Power Share	12,850,841	12,354,553	11,225,091	10,072,077	10,194,918
54	Disallowed Costs from 2015 Program Costs Audit (Order E-7 Sub 1105, dated 8/25/16)		(2,887)			
55	Total Energy Efficiency & Demand Side Program Costs	\$ 66,177,873	\$ 81,171,544	\$ 111,226,163	\$ 140,235,514	\$ 115,670,203

CERTIFICATE OF SERVICE

I certify that a copy of Duke Energy Carolinas, LLC's DSM/EE Cost Recovery Rider – Supplemental Testimony and Exhibits, in Docket No. E-7, Sub 1192, has been served by electronic mail, hand delivery, or by depositing a copy in the United States Mail, 1st Class Postage Prepaid, properly addressed to parties of record.

This the 28th day of May, 2019.

Kendin (- Leatref) Kendrick C. Fentress

Associate General Counsel

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