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May 15, 2015

VIA ELECTRONIC FILING

Ms. Gail Mount
Chief Clerk
North Carolina Utilities Commission
4325 Mail Service Center
Raleigh, North Carolina 27699-4325

**RE: Docket No. E-7, Sub 1073
Duke Energy Carolinas, LLC's Application for Approval of Demand-Side
Management and Energy Efficiency Cost Recovery Rider**

Dear Ms. Mount:

I enclose Duke Energy Carolinas, LLC's ("DEC" or the "Company") Supplemental Testimony and Exhibits of Carolyn T. Miller and Supplemental Exhibits of Conitsha B. Barnes for filing in connection with this matter. These Supplemental Exhibits are intended to replace the original Miller and Barnes Exhibits and reflect adjustments in calculations which are further detailed in the Supplemental Testimony of Carolyn T. Miller. As a result of these adjustments, the revenue requirement has changed for several Vintages of the Company's demand-side management and energy efficiency cost recovery rider. Accordingly, the Company is also enclosing for filing a Motion for Additional Public Hearing and Public Notice of Revised Proposed Rates.

Thank you for your attention to this matter. If you have any questions, please let me know.

Sincerely,



Brian L. Franklin

BLF/bml
Enclosures
cc: Parties of Record

OFFICIAL COPY

May 15 2015

BEFORE THE NORTH CAROLINA UTILITIES COMMISSION

DOCKET NO. E-7, SUB 1073

In the Matter of	)	DUKE ENERGY CAROLINAS,
Application of Duke Energy Carolinas, LLC	)	LLC'S MOTION FOR
for Approval of Demand-Side Management	)	ADDITIONAL PUBLIC
and Energy Efficiency Cost Recovery Rider	)	HEARING AND PUBLIC
Pursuant to N.C. Gen. Stat. § 62-133.9 and	)	NOTICE OF REVISED
Commission Rule R8-69	)	PROPOSED RATES

NOW COMES Duke Energy Carolinas, LLC (hereinafter, "DEC" or the "Company") pursuant to N.C. Gen. Stat. §§ 62-134, 62-133.9 and Rules R1-7 and R8-69 of the Rules and Regulations of the North Carolina Utilities Commission (the "Commission") and moves the Commission to schedule an additional public hearing and to allow DEC to provide public notice of its revised proposed rates to recover its reasonable and prudent demand-side management ("DSM") and energy efficiency ("EE") costs, net lost revenues, and Portfolio Performance Incentive as set forth below. In support thereof, DEC shows the following:

1. On March 4, 2015, the Company filed its application for approval of its DSM/EE cost recovery rider for 2016 pursuant to N.C. Gen. Stat. § 62-133.9 and Rule R8-69.

2. On March 18, 2015, the Commission issued its *Order Scheduling Hearing, Requiring Filing of Testimony, Establishing Discovery Guidelines, and Requiring Public Notice*. The Company has complied with this Order and published the Commission-required Public Notice in newspapers having general circulation in its service area.

3. In pertinent part, the Public Notice set forth that DEC had requested a total

annual revenue decrease of \$26.8 million, effective January 1, 2016, from the DSM/EE rider currently in effect. The Public Notice further provided that this request would result in a decrease of 0.2415 cents per kilowatt-hour ("kWh") for residential customers. The effect of the request on the rates of non-residential customers depends upon their participation in DEC's DSM or EE programs. The Public Notice provided that non-residential customers who have participated in all of DEC's DSM and EE programs since 2009 would increase by 0.1147 cents per kWh. Non-residential customers participating in DEC's DSM programs beginning in 2016 would pay DSM/EE rider charges of 0.0709 cents per kWh, and non-residential customers participating in DEC's EE programs beginning in 2016 would pay DSM/EE rider charges of 0.2164 cents per kWh.

4. Subsequent to the Company's March 4, 2015 application, as a result of the Public Staff's audit and as a result of the Company's identification of additional necessary adjustments, the Company has revised its proposed DSM/EE rates as detailed in the Supplemental Testimony and Exhibits of Carolyn T. Miller and Supplemental Exhibits of Conitsha B. Barnes, filed with the Commission contemporaneously with this motion.

5. The revised DSM/EE rates and rate changes requested by the Company, as compared to the original rates and rate changes proposed and contained in the Public Notice, are as follows:

Proposed DSM/EE Rates (including gross receipts tax and regulatory fee)

Rate Class	Proposed Rates (¢/kWh)	Noticed Rates (¢/kWh)	Difference (¢/kWh)
Residential	0.3621	0.3574	0.0047
Non-Residential	0.4366	0.4369	(0.0003)

Proposed DSM/EE Rate Changes (including gross receipts tax and regulatory fee)

Rate Class	Proposed Change (¢/kWh)	Noticed Change (¢/kWh)	Difference (¢/kWh)
Residential	(0.2368)	(0.2415)	0.0047
Non-Residential	0.1144	0.1147	(0.0003)

The proposed rates would produce a revenue decrease of \$25.8 million.

6. In order to insure that customers have adequate notice of the Company's revised proposed rates, and consistent with N.C. Gen. Stat. § 62-134, the Company respectfully requests that the Commission schedule an additional public hearing after publication of Public Notice by the Company, at such time as the Commission deems appropriate after the currently-scheduled June 2, 2015 public hearing, and within the appropriate time to enable the Commission to consider the Company's application and issue an order implementing new rates effective January 1, 2016.

7. The Company has consulted with the Public Staff regarding this motion, and the Public Staff does not object.

WHEREFORE, the Company respectfully requests that the Commission grant its motion, schedule an additional public hearing and allow DEC to provide public notice of its revised proposed DSM/EE rates and requests such other relief as the Commission deems just, equitable, and proper.

Respectfully submitted this 15th day of May, 2015.



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ATTORNEYS FOR DUKE ENERGY
CAROLINAS, LLC

CERTIFICATE OF SERVICE

I certify that a copy of Duke Energy Carolinas, LLC's Motion for Additional Public Hearing and Public Notice of Revised Proposed Rates in Docket No. E-7, Sub 1073, has been served by electronic mail, hand delivery or by depositing a copy in the United States mail, postage prepaid to the following parties of record:

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This the 15th day of May, 2015.



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BEFORE THE NORTH CAROLINA UTILITIES COMMISSION

DOCKET NO. E-7, SUB 1073

In the Matter of)	
Application of Duke Energy Carolinas, LLC	)	SUPPLEMENTAL TESTIMONY
for Approval of Demand-Side Management	)	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 **Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.**

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 (“Duke Energy
6 Carolinas” or the “Company”).

7 **Q. DID YOU PREVIOUSLY FILE DIRECT TESTIMONY IN SUPPORT**
8 **OF DUKE ENERGY CAROLINAS’ APPLICATION IN THIS**
9 **DOCKET?**

10 A. Yes.

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

13 A. The purpose of my supplemental testimony is to support the filing of
14 Supplemental Exhibits which reflect several revisions to the Miller Exhibits
15 and Barnes Exhibits filed March 4, 2015 in this proceeding. The specific
16 revisions are noted below in Table 1.

17 **Table 1 – Revisions to Miller and Barnes Exhibits**

Miller Exhibit 2, page 3	Correction of Vintage 3 DSM Formulas in True-up Columns
Miller Exhibit 2, page 12	Revision of Tax Rate used in Interest Calculation
Barnes Exhibit 2, page 1	Correction of Vintage 4 Found Revenue cross footing error
Barnes Exhibit 2,	Update of Lost Revenues estimate for Vintage Year

page 2	2014
Barnes Exhibit 3, page 1	Revision of 12-month ending 12/31/13 Allocation Factors

1 As a result of the above revisions, the revenue requirement has changed for
2 several Vintages of the Company's demand-side management ("DSM") and
3 energy efficiency ("EE") cost recovery rider for 2016 ("Rider 7"). Please see
4 Table 2 for a summary of specific Vintages and associated impacts of these
5 changes.

6 **Table 2 – Summary of Revenue Requirement Impacts**

Residential	Dollar Impact
Vintage 1	\$70,846
Vintage 2	\$47,139
Vintage 3	\$65,209
Vintage 4	\$28,640
Vintage Year 2014	\$807,369
Non-Residential	Dollar Impact
Vintage 1 EE	\$30,400
Vintage 1 DSM	\$17,910
Vintage 2 EE	\$31,598
Vintage 2 DSM	\$20,104
Vintage 3 EE	\$52,788
Vintage 3 DSM	\$(219,848)
Vintage 4 EE	\$(86,321)

Vintage 4 DSM	\$27,346
Vintage Year 2014 DSM	\$106

1 To avoid confusion, all Miller Exhibits and Barnes Exhibits will be
2 refiled as supplemental exhibits incorporating the revisions noted above.
3 Supplemental Miller Exhibit 7 is the revised proposed tariff sheet for Rider 7.

4 **Q. WHY IS THE COMPANY REVISING THE VINTAGE 4**
5 **ALLOCATION FACTORS FOR PROGRAM COSTS?**

6 A. The allocation factors used in the original filed Barnes Exhibit 3, page 1 were
7 based on the Cost of Service study for the 12-month period ending June 30,
8 2013. The Company is revising Barnes Exhibit 3, page 1 to include the
9 allocation factors from the Cost of Service study for the year ending
10 December 31, 2013, to meet the requirement that our DSM/EE rider filing
11 incorporate the most recently filed allocation rates. The revised allocation
12 rates reflected on Supplemental Miller Exhibit 5, page 5 and Supplemental
13 Barnes Exhibit 3, page 1 drive a change in the earnings cap calculation on
14 Supplemental Miller Exhibit 4. The revised earnings cap calculation on
15 Supplemental Miller Exhibit 4 impacts the revenue requirement calculation
16 for all save-a-watt vintages as seen on Supplemental Miller Exhibit 2, pages
17 1-4.

18 **Q. WHY IS THE COMPANY REVISING VINTAGE 4 FOUND**
19 **REVENUES?**

20 A. The formulas on the original filed Barnes Exhibit 2, page 1a, Lines 61 and 71
21 only reflected the found revenues through 2015. The formulas did not pick up

1 the found revenues estimated to be earned in 2016. This revision corrects
2 those formulas. The formula corrections result in a decrease to Residential EE
3 Vintage 4 net lost revenues in the amount of \$24,679, and a decrease to Non-
4 Residential EE Vintage 4 net lost revenues in the amount of \$135,766.

5 **Q. WHY IS THE COMPANY UPDATING THE YEAR 2014 YEAR 3**
6 **ESTIMATE OF NET LOST REVENUES?**

7 A. Based on further analysis of the net lost revenue detail, the Company
8 determined the net lost revenues for the Energy Assessments Program and
9 Appliance Recycling Program for Vintage Year 2014 Year 3 were omitted in
10 error from Barnes Exhibit 2, page 2. In addition, the calculation of the HVAC
11 Energy Efficiency Program net lost revenues on Barnes Exhibit 2, page 2 was
12 incorrect. The revision included in Supplemental Barnes Exhibit 2, page 2
13 includes the corrected net lost revenues for the Energy Assessments Program,
14 HVAC Energy Efficiency Program, and Appliance Recycling Program. The
15 corrected amounts of \$497,583, \$71,466, and \$255,086 are shown on Lines 1,
16 4 and 5, respectively, in the Supplemental Barnes Exhibit 2, page 2.

17 **Q. WHY IS THE COMPANY UPDATING THE VINTAGE 3 DSM TRUE-**
18 **UP?**

19 A. Upon further analysis of Miller Exhibit 2, page 3, Line 26, the Company
20 determined that three columns (Rider 6 Implementation of Earnings Cap,
21 Rider 6 2015 True-up of 85% to 100% and Rider 7 2016 True-up) in the DSM
22 true-up file did not include a regulatory fee calculation or a final revenue
23 requirement. The regulatory fee of 1.001352 was added to those columns and

1 a revenue requirement was calculated. This resulted in a decrease to the
2 revenue requirement of \$183,207, which, in turn, increased the amount of
3 interest due to customers by \$36,641.

4 **Q. WHY IS THE COMPANY REVISING THE TAX RATE ON MILLER**
5 **EXHIBIT 2, PAGE 12?**

6 A. The tax rate utilized in the interest rate calculation should be the actual tax
7 rate in effect during 2014. This rate is used to calculate the tax impact
8 resulting from any over- or under-collection of DSM program costs. The
9 incorrect tax rate of 0.380225 was utilized in the original filing. Updating this
10 exhibit with the correct tax rate of 0.383471 results in an increase to the
11 revenue requirement in the amount of \$106.

12 **Q. WHAT ARE THE FINAL RATES REQUESTED IN THE**
13 **APPLICATION OF DUKE ENERGY CAROLINAS FOR APPROVAL**
14 **OF ITS DSM/EE RIDER FOR 2016 AS A RESULT OF THESE**
15 **REVISIONS?**

16 A. Pursuant to the provisions of N.C. Gen. Stat. § 62-133.9 and Rule R8-69, the
17 Company requests Commission approval of the following annual billing
18 adjustments (all shown on a cents per kWh basis, including gross receipts tax
19 and regulatory fee):

Residential Billing Factors	¢/kWh
Residential Billing Factor for Rider 7 Prospective Components	0.3361
Residential Billing Factor for Rider 7 EMF Components	0.0260

Non-Residential Billing Factors for Rider 7 Prospective Components	¢/kWh
Vintage 2014 EE participant	0.0256
Vintage 2015 EE participant	0.0345
Vintage 2016 EE Participant	0.2164
Vintage 2016 DSM participant	0.0709

Non-Residential Billing Factors EMF Component	¢/kWh
Vintage 2014 EE Participant	0.0150
Vintage 2014 DSM Participant	(0.0044)
Vintage 4 EE participant	0.0326
Vintage 4 DSM participant	0.0005
Vintage 3 EE participant	0.0261
Vintage 3 DSM participant	(0.0017)
Vintage 2 EE participant	0.0148
Vintage 2 DSM participant	0.0019
Vintage 1 EE participant	0.0027
Vintage 1 DSM participant	0.0017

**Q. DOES THIS CONCLUDE YOUR PRE-FILED SUPPLEMENTAL
TESTIMONY?**

A. Yes.

Duke Energy Carolinas, LLC
DSM/EE Cost Recovery Rider 7
Docket Number E-7 Sub 1073
Exhibit Summary for Rider EE Exhibits and Factors

Supplemental Miller Exhibit 1, page 1

Residential Billing Factors

Residential Billing Factor for Rider 7 True-up (EMF) Components

Line			
1	Vintage 1 EE/DSM True-up (EMF) Revenue Requirement	Miller Exhibit 2 pg. 1, Line 11	\$ 1,668,314
2	Vintage 2 EE/DSM True-up (EMF) Revenue Requirement	Miller Exhibit 2 pg. 2, Line 11	3,177,348
3	Vintage 3 EE/DSM True-up (EMF) Revenue Requirement	Miller Exhibit 2 pg. 3, Line 11	(4,004,005)
4	Vintage 4 EE/DSM True-up (EMF) Revenue Requirement	Miller Exhibit 2 pg. 4, Line 11	4,129,838
5	Year 2014 EE/DSM True-Up (EMF) Revenue Requirement	Miller Exhibit 2 pg. 5, Line 15	666,440
6	Total True-up (EMF) Revenue Requirement	Sum Lines 1-5	\$ 5,637,935
7	Projected NC Residential Sales (kWh) for rate period	Miller Exhibit 6 pg. 1, Line 1	21,674,738,000
8	SAW EE/DSM Revenue Requirement EMF Residential Rider EE (cents per kWh)	Line 6 / Line 7 * 100	0.0260 Application

Residential Billing Factor for Rider 7 Prospective Components

9	Vintage 2014 Total EE/DSM Prospective Amounts Revenue Requirement	Miller Exhibit 2 pg. 5, Line 15	\$ 9,895,892
10	Vintage 2015 Total EE/DSM Prospective Amounts Revenue Requirement	Miller Exhibit 2 pg. 6, Line 1	4,071,955
11	Vintage 2016 Total EE/DSM Prospective Amounts Revenue Requirement	Miller Exhibit 2 pg. 7, Line 11	58,886,406
12	Total Prospective Revenue Requirement	Sum Lines 9-11	\$ 72,854,253
13	Projected NC Residential Sales (kWh) for rate period	Miller Exhibit 6 pg. 1, Line 1	21,674,738,000
14	SAW EE/DSM Revenue Requirement Prospective Residential Rider EE (cents per kWh)	Line 12 / Line 13 * 100	0.3361 Application

Total Revenue Requirements in Rider 7 from Residential Customers

15	Total True-up (EMF) Revenue Requirement	Line 6	\$ 5,637,935
16	Total Prospective Revenue Requirement	Line 12	72,854,253
17	Total EE/DSM Revenue Requirement for Residential Rider EE	Line 15 + Line 16	\$ 78,492,189
18	Total EE/DSM Revenue Requirement for Residential Rider EE (cents per kWh)	Line 8 + Line 14	0.3621

Non-Residential Billing Factors for Rider 7 True-up (EMF) Components

Line			
<u>SAW EE Revenue Requirements True-up (EMF)</u>			
1	Vintage 1 EE True-up (EMF) Revenue Requirement	Miller Exhibit 2 pg. 1, Line 20	\$ 613,874
2	Projected Vintage 1 EE Participants NC Non-Residential Sales (kwh) for rate period	Miller Exhibit 6 pg. 1, Line 21	22,972,364,776
3	SAW EE Revenue Requirement Vintage 1 EMF Non-Residential Rider EE (cents per kWh)	Line 1/Line 2 * 100	0.0027 Application
4	Vintage 1 DSM True-up (EMF) Revenue Requirement	Miller Exhibit 2 pg. 1, Line 29	\$ 388,582
5	Projected Vintage 1 DSM Participants NC Non-Residential Sales (kwh) for rate period	Miller Exhibit 6 pg. 1, Line 21	22,484,503,238
6	SAW DSM Revenue Requirement Vintage 1 EMF Non-Residential Rider EE (cents per kWh)	Line 4/Line 5 * 100	0.0017 Application
7	Vintage 2 EE True-up (EMF) Revenue Requirement	Miller Exhibit 2 pg. 2, Line 20	\$ 3,442,055
8	Projected Vintage 2 EE Participants NC Non-Residential Sales (kwh) for rate period	Miller Exhibit 6 pg. 1, Line 21	23,295,755,187
9	SAW EE Revenue Requirement Vintage 2 EMF Non-Residential Rider EE (cents per kWh)	Line 7/Line 8 * 100	0.0148 Application
10	Vintage 2 DSM True-up (EMF) Revenue Requirement	Miller Exhibit 2 pg. 2, Line 29	\$ 428,535
11	Projected Vintage 2 DSM Participants NC Non-Residential Sales (kwh) for rate period	Miller Exhibit 6 pg. 1, Line 21	22,950,230,628
12	SAW DSM Revenue Requirement Vintage 2 EMF Non-Residential Rider EE (cents per kWh)	Line 10/Line 11 * 100	0.0019 Application
13	Vintage 3 EE True-up (EMF) Revenue Requirement	Miller Exhibit 2 pg. 3, Line 20	\$ 6,155,063
14	Projected Vintage 3 EE Participants NC Non-Residential Sales (kwh) for rate period	Miller Exhibit 6 pg. 1, Line 21	23,556,939,761
15	SAW EE Revenue Requirement Vintage 3 EMF Non-Residential Rider EE (cents per kWh)	Line 13/Line 14 * 100	0.0261 Application

Non-Residential Billing Factors Continued

16	Vintage 3 DSM True-up (EMF) Revenue Requirement
17	Projected Vintage 3 DSM Participants NC Non-Residential Sales (kwh) for rate period
18	<i>SAW DSM Revenue Requirement Vintage 3 EMF Non-Residential Rider EE (cents per kWh)</i>
19	Vintage 4 EE True-up (EMF) Revenue Requirement
20	Projected Vintage 4 EE Participants NC Non-Residential Sales (kwh) for rate period
21	<i>SAW EE Revenue Requirement Vintage 4 EMF Non-Residential Rider EE (cents per kWh)</i>
22	Vintage 4 DSM True-up (EMF) Revenue Requirement
23	Projected Vintage 4 DSM Participants NC Non-Residential Sales (kwh) for rate period
24	<i>SAW DSM Revenue Requirement Vintage 4 EMF Non-Residential Rider EE (cents per kWh)</i>
25	Year 2014 EE True-up (EMF) Revenue Requirement
26	Projected Vintage 4 EE Participants NC Non-Residential Sales (kwh) for rate period
27	<i>SAW EE Revenue Requirement Vintage 4 EMF Non-Residential Rider EE (cents per kWh)</i>
28	Year 2014 DSM True-up (EMF) Revenue Requirement
29	Projected Vintage 4 DSM Participants NC Non-Residential Sales (kwh) for rate period
30	<i>SAW DSM Revenue Requirement Vintage 4 EMF Non-Residential Rider EE (cents per kWh)</i>

Non-Residential Billing Factors for Rider 7 Prospective Components

31	Vintage 2014 EE Prospective Amounts Revenue Requirement
32	Projected Program Year 2014 EE Participants NC Non-Residential Sales (kwh) for rate period
33	<i>EE Revenue Requirement Vintage 2014 Prospective Component for Non-Residential Rider EE (cents per kWh)</i>
34	Vintage 2015 EE Prospective Amounts Revenue Requirement
35	Projected Program Year 2015 EE Participants NC Non-Residential Sales (kwh) for rate period
36	<i>EE Revenue Requirement Vintage 2015 Prospective Component for Non-Residential Rider EE (cents per kWh)</i>
37	Vintage 2016 EE Prospective Amounts Revenue Requirement
38	Projected Program Year 2016 EE Participants NC Non-Residential Sales (kwh) for rate period
39	<i>EE Revenue Requirement Vintage 2016 Prospective Component for Non-Residential Rider EE (cents per kWh)</i>
40	Vintage 2016 DSM Prospective Amounts Revenue Requirement
41	Projected Vintage 2016 DSM Participants NC Non-Residential Sales (kwh) for rate period
42	<i>DSM Revenue Requirement Vintage 2016 Prospective Component for Non-Residential Rider EE (cents per kWh)</i>

Total EMV Rate

Total Prospective Rate

Total Revenue Requirements in Rider 7 from Non-Residential Customers

43	Vintage 1 EE True-up (EMF) Revenue Requirement
44	Vintage 1 DSM True-up (EMF) Revenue Requirement
45	Vintage 2 EE True-up (EMF) Revenue Requirement
46	Vintage 2 DSM True-up (EMF) Revenue Requirement
47	Vintage 3 EE True-up (EMF) Revenue Requirement
48	Vintage 3 DSM True-up (EMF) Revenue Requirement
49	Vintage 4 EE True-up (EMF) Revenue Requirement
50	Vintage 4 DSM True-up (EMF) Revenue Requirement
51	Year 2014 EE True-up (EMF) Revenue Requirement
52	Year 2014 DSM True-up (EMF) Revenue Requirement
53	Vintage 2014 EE Prospective Amounts Revenue Requirement
54	Vintage 2015 EE Prospective Amounts Revenue Requirement
55	Vintage 2016 EE Prospective Amounts Revenue Requirement
56	Vintage 2016 DSM Prospective Amounts Revenue Requirement
Total Non-Residential Revenue Requirement in Rider 7	

Supplemental Miller Exhibit 1, page 2		
Miller Exhibit 2 pg. 3, Line 29	\$	(402,296)
Miller Exhibit 6 pg. 1, Line 21		23,100,220,941
Line 16/Line 17 * 100		(0.0017) Application
Miller Exhibit 2 pg. 4, Line 20	\$	7,819,931
Miller Exhibit 6 pg. 1, Line 21		23,966,011,232
Line 19/Line 20 * 100		0.0326 Application
Miller Exhibit 2 pg. 4, Line 29	\$	105,113
Miller Exhibit 6 pg. 1, Line 21		23,215,694,176
Line 22/Line 23 * 100		0.0005 Application
Miller Exhibit 2 pg. 5, Line 25	\$	3,581,616
Miller Exhibit 6 pg. 2, Line 17		23,824,291,077
Line 25/Line 26 * 100		0.0150 Application
Miller Exhibit 2 pg. 5, Line 35	\$	(1,012,916)
Miller Exhibit 6 pg. 2, Line 17		23,138,123,262
Line 28/Line 29 * 100		(0.0044) Application

Miller Exhibit 2 pg. 5, Line 25	\$	6,094,150
Miller Exhibit 6 pg. 2, Line 17		23,824,291,077
Line 31/Line 32 * 100		0.0256 Application
Miller Exhibit 2 pg. 6, Line 4	\$	8,194,003
Miller Exhibit 6 pg. 2, Line 17		23,753,678,227
Line 34/Line 35 * 100		0.0345 Application
Miller Exhibit 2 pg. 7, Line 18	\$	51,408,650
Miller Exhibit 6 pg. 2, Line 17		23,753,678,227
Line 37/Line 38 * 100		0.2164 Application
Miller Exhibit 2 pg. 7, Line 25	\$	16,375,648
Miller Exhibit 6 pg. 2, Line 21		23,082,735,561
Line 40/Line 41 * 100		0.0709 Application
		0.0892
		0.3474

Line 1	\$	613,874
Line 4		388,582
Line 7		3,442,055
Line 10		428,535
Line 13		6,155,063
Line 16		(402,296)
Line 19		7,819,931
Line 22		105,113
Line 25		3,581,616
Line 28		(1,012,916)
Line 31		6,094,150
Line 34		8,194,003
Line 37		51,408,650
Line 40		16,375,648
Sum (Lines 43-56)	\$	103,192,008 Application

Duke Energy Carolinas, LLC
EE/DSM Vintage 1 (June 1, 2009 - December 31, 2010)
Docket Number E-7 Sub 1073

True-Up of Avoided Cost and Lost Revenues Revenue Requirements For Vintage 1

RESIDENTIAL

Line		
1	EE Avoided Cost Component	Barnes Exhibit 1 pg. 1 and 2
2	DSM Avoided Cost Component	Barnes Exhibit 1 pg. 1 and 2
3	Total EE and DSM Avoided Cost	Line 1 + Line 2
4	Cap Adjustment factor	Miller Exhibit 4 pg. 1, Line 35
5	DSM/EE Avoided Cost Component adjusted for Cap	Line 3 + Line 4
6	Gross Receipts Tax and Regulatory Fee	Miller Exhibit 2, pg. 13
7	Adjusted Avoided Cost Revenue Requirement	Line 5 * Line 6
8	Residential Lost Revenues	Barnes Exhibit 2 pg. 1, Line 7
9	Total Residential Revenue Requirement	Line 7 + Line 8
10	Total Collected for Vintage 1 (Riders 1-5 Actuals, Rider 6 estimate)	Miller Exhibit 3 pg. 1, Line 1 + Line 7
11	Residential EE/DSM Revenue Requirement True-up Amount	Line 9 - Line 10

Rider 4	Rider 5	Rider 6	Rider 6	Rider 7	
DSM True up of Original Filing, EE Vintage 1, Year 1 and 2 True up	2014 True Up	Implementation of Earnings Cap	2015 True up of 85% to 100%	2016 True up	Vintage 1 - Residential
30,387,136	(448,752)		5,283,244		35,221,629
8,225,364			1,451,535	(11,701) ¹	9,665,198
38,612,500	(448,752)	-	6,734,779	(11,701)	44,886,827
		(6,558,951)		458,260 ²	(6,100,691)
38,612,500	(448,752)	(6,558,951)	6,734,779	446,559	38,786,136
1.034554	1.017953	1.001352	1.001352	1.001352	various
39,946,717	(456,808)	(6,567,819)	6,743,885	447,163	40,113,138
20,983,465	(500,574)		3,614,629		24,097,520
60,930,181	(957,381)	(6,567,819)	10,358,513	447,163	64,210,658
					62,542,343
					1,668,314

NON-RESIDENTIAL

Energy Efficiency

12	Non-Residential EE Avoided Cost Component	Barnes Exhibit 1 pg. 1 and 2
13	Cap Adjustment factor	Miller Exhibit 4 pg.1, Line 36
14	EE Avoided Cost Component Adjusted for Cap	Line 12 + Line 13
15	Gross Receipts Tax and Regulatory Fee	Miller Exhibit 2, pg. 13
16	Total Non-Residential EE Avoided Cost Revenue Requirement	Line 14 * Line 15
17	Non-Residential Lost Revenues	Barnes Exhibit 2 pg. 1, Line 16
18	Total Non-Residential EE Revenue Requirement	Line 16 + Line 17
19	Total Collected for Vintage 1 (Riders 1-5 Actuals, Rider 6 estimate)	Miller Exhibit 3 pg. 1, Line 14
20	Non-Residential EE Revenue Requirement True-up Amount	Line 18 - Line 19
21	Projected NC Non-Residential Sales (kWh) for billing period	Miller Exhibit 6 pg. 1, Line 21
22	Non-Residential Rider EE (cents per kWh)	Line 20/Line 21*100

Rider 4	Rider 5	Rider 6	Rider 6	Rider 7	
Vintage 1, Year 1 and Year 2 Net Lost Revenue True Up	2014 True up	Implementation of Earnings Cap and True up	2015 True up of 85% to 100%	2016 True up	Vintage 1 - EE
16,001,071		(3)	2,823,718		18,824,786
		(2,799,117)		181,303 ²	(2,617,814)
16,001,071	-	(2,799,120)	2,823,718	181,303	16,206,972
1.034554	1.017953	1.001352	1.001352	1.001352	various
16,553,972	-	(2,802,904)	2,827,536	181,548	16,760,152
1,666,731	1,974		294,478		1,963,183
18,220,703	1,974	(2,802,904)	3,122,014	181,548	18,723,335
					18,109,461
18,220,703	1,974	(2,802,904)	3,122,014	181,548	613,874
					22,972,364,776
					0.0027

DSM

23	Non-Residential DSM Avoided Cost Component	Barnes Exhibit 1 pg. 1 and 2
24	Cap Adjustment factor	Miller Exhibit 4 pg. 1, Line 37
25	Non-Residential DSM Avoided Cost Component adjusted for Cap	Line 23 + Line 24
26	Gross Receipts Tax and Regulatory Fee	Miller Exhibit 2, pg. 13
27	Total Non-Residential DSM Revenue Requirement	Line 25 * Line 26
28	Total Collected for Vintage 1 (Riders 1-5 Actuals, Rider 6 estimate)	Miller Exhibit 3 pg. 1, Line 20
29	Non-Residential DSM Revenue Requirement True-up Amount	Line 27 -Line 28
30	Projected NC Non-Residential Sales (kWh) for billing period	Miller Exhibit 6 pg. 1, Line 21
31	Non-Residential Rider EE (cents per kWh)	Line 29/Line 30*100

Rider 4	Rider 5	Rider 6	Rider 6	Rider 7	
2013 True up of Original Filing	2014 True up	2015 True up of Costs	2015 True up of 85% to 100%	2016 True up	Vintage 1 - DSM
\$ 9,644,425			1,701,957	\$ (13,709) ¹	\$ 11,332,673
		(1,629,074)		86,766 ²	(1,542,308)
9,644,425	-	(1,629,074)	1,701,957	73,057	9,790,365
1.034554	1.017953	1.001352	1.001352	1.001352	various
9,977,678	-	(1,631,277)	1,704,258	73,156	10,123,816
					9,735,234
					388,582
					22,484,503,238
					0.0017

¹ Adjustments to DSM participation were identified and trued up in 2014.
² The cap adjustment factor was updated in Miller Exhibit 4 for actual 2014 collections and estimated 2015 collections.

Duke Energy Carolinas, LLC
EE/DSM Vintage 2 (January 1, 2011 - December 31, 2011)
Docket Number E-7, Sub 1073

True-Up of Avoided Cost and Lost Revenues Revenue Requirements For Vintage 2

RESIDENTIAL

Line

1	EE Avoided Cost Component	Barnes Exhibit 1 pg. 3, Line 7
2	DSM Avoided Cost Component	Barnes Exhibit 1 pg. 3, Line 8
3	Total EE and DSM Avoided Cost	Line 1 + Line 2
4	Cap Adjustment factor	Miller Exhibit 4 pg. 1, Line 35
5	DSM/EE Avoided Cost Component adjusted for Cap	Line 3 + Line 4
6	Gross Receipts Tax and Regulatory Fee	Miller Exhibit 2, pg. 13
7	Adjusted Avoided Cost Revenue Requirement	Line 5 * Line 6
8	Residential Lost Revenues	Barnes Exhibit 2 pg. 1
9	Total Residential Revenue Requirement	Line 7 + Line 8
10	Total Collected for Vintage 2 (Riders 2-5 Actuals, Rider 6 estimate)	Miller Exhibit 3 pg. 1, Line 2 + Line 8
11	Residential EE/DSM Revenue Requirement True-up Amount	Line 9 - Line 10

Rider 3	Rider 4	Rider 5	Rider 6	Rider 6	Rider 7	
Year 2 Lost Revenues	DSM True up of Original Filing, EE Vintage 1, Year 1 and 2 True up	2014 True up	Implementation of Earnings Cap and Lost Revenue True up	2015 True up of 85% to 100%	2016 True up	Vintage 2 - Residential
	26,136,185	(170,313)		4,582,213		30,548,085
	8,254,399			1,456,659	(9,391)	9,701,667
	34,390,584	(170,313)	-	6,038,871	(9,391)	40,249,752
			(6,424,112)		2,364,936	(4,059,176)
	34,390,584	(170,313)	(6,424,112)	6,038,871	2,355,545	36,190,576
	1.034554	1.017953	1.001352	1.001352	1.001352	various
	35,578,917	(173,370)	(6,432,797)	6,047,036	2,358,730	37,378,515
8,004,542	6,258,786	7,255,706	13,337,882	3,797,477		38,654,393
8,004,542	41,837,703	7,082,336	6,905,085	9,844,513	2,358,730	76,032,908
						72,855,560
						3,177,348

See Miller Exhibit A for rate

NON-RESIDENTIAL
Energy Efficiency

12	Non-Residential EE Avoided Cost Component	Barnes Exhibit 1 pg. 3, Line 16
13	Cap Adjustment factor	Miller Exhibit 4 pg. 1, Line 36
14	EE Avoided Cost Component Adjusted for Cap	Line 12 + Line 13
15	Gross Receipts Tax and Regulatory Fee	Miller Exhibit 2, pg. 13
16	Total Non-Residential EE Avoided Cost Revenue Requirement	Line 14 * Line 15
17	Non-Residential Lost Revenues	Barnes Exhibit 2 pg. 1
18	Total Non-Residential EE Revenue Requirement	Line 16 + Line 17
19	Total Collected for Vintage 2 (Riders 2-5 Actuals, Rider 6 estimate)	Miller Exhibit 3 pg. 1, Line 15
20	Non-Residential EE Revenue Requirement True-up Amount	Line 18 - Line 19
21	Projected NC Non-Residential Sales (kWh) for billing period	Miller Exhibit 6 pg. 1, Line 21
22	Non-Residential Rider EE (cents per kWh)	Line 20/Line 21*100

Rider 3	Rider 4	Rider 5	Rider 6	Rider 6	Rider 7	
Year 2 Lost Revenues	Vintage 2 True up, and Year 1 Net Lost Revenue True Up	2014 True up	Implementation of Earnings Cap and True up	2015 True up of 85% to 100%	2016 True up	Vintage 2 - EE
	18,308,367			3,230,888	973,347	22,512,602
			(3,144,091)		423,173	(2,720,918)
	18,308,367	-	(3,144,091)	3,230,888	1,396,520	19,791,684
	1.034554	1.017953	1.001352	1.001352	1.001352	various
	18,940,994	-	(3,148,342)	3,235,256	1,398,408	20,426,317
951,833	1,158,807	1,388,161	1,974,320	617,436	1,032,441	7,122,998
951,833	20,099,801	1,388,161	(1,174,022)	3,852,692	2,430,849	27,549,315
						24,107,260
951,833	20,099,801	1,388,161	(1,174,022)	3,852,692	2,430,849	3,442,055
						23,295,755,187
						0.0148

DSM

23	Non-Residential DSM Avoided Cost Component	Barnes Exhibit 1 pg. 3, Line 17
24	Cap Adjustment factor	Miller Exhibit 4 pg. 1, Line 37
25	Non-Residential DSM Avoided Cost Component adjusted for Cap	Line 23 + Line 24
26	Gross Receipts Tax and Regulatory Fee	Miller Exhibit 2, pg. 13
27	Total Non-Residential DSM Revenue Requirement	Line 25 * Line 26
28	Total Collected for Vintage 2 (Riders 2-5 Actuals, Rider 6 estimate)	Miller Exhibit 3 pg. 1, Line 21
29	Non-Residential DSM Revenue Requirement True-up Amount	Line 27-Line 28
30	Projected NC Non-Residential Sales (kWh) for billing period	Miller Exhibit 6 pg. 1, Line 21
31	Non-Residential Rider EE (cents per kWh)	Line 29/Line 30*100

Rider 4	Rider 5	Rider 6	Rider 6	Rider 7	
2013 True up of Original Filing & year 1 Lost Revenues	2014 True up	2015 True up of Costs	2015 True up of 85% to 100%	2016 True up	Vintage 2 - DSM
\$ 10,817,002			1,908,883	\$ (12,307)	12,713,578
		(1,823,758)		92,518	(1,731,240)
10,817,002	-	(1,823,758)	1,908,883	80,211	10,982,338
1.034554	1.017953	1.001352	1.001352	1.001352	various
11,190,773	-	(1,826,224)	1,911,464	80,320	11,356,332
					10,927,797
					428,535
					22,950,230,628
					0.0019

¹ Adjustments to DSM participation were identified and trued up in 2014. The Company has also received final EM&V and participation for EE programs.

² The cap adjustment factor was updated in Miller Exhibit 4 for actual 2014 collections and estimated 2015 collections.

³ Lost Revenue estimates have been subject to a final true-up subject to results of EM&V and participation. Year by year details are shown at Barnes Exhibit 2 page 1. component can be found at Barnes Exhibit 1, page 3 and revised details of the lost revenue estimate can be found in Barnes Exhibit 2, page 1.

Duke Energy Carolinas, LLC
EE/DSM Vintage 3 (January 1, 2012 - December 31, 2012)
Docket Number E-7, Sub 1073
True-up of Avoided Cost Revenue Requirements For Vintage 3
True-up of Lost Revenues for Years 1, 2 and 3

RESIDENTIAL

Line

- 1 EE Avoided Cost Component
- 2 DSM Avoided Cost Component
- 3 Total EE and DSM Avoided Cost
- 4 Cap Adjustment factor
- 5 DSM/EE Avoided Cost Component adjusted for Cap
- 6 Gross Receipts Tax and Regulatory Fee
- 7 Adjusted Avoided Cost Revenue Requirement
- 8 Residential Lost Revenues
- 9 Total Residential Revenue Requirement
- 10 Total Collected for Vintage 3 (Riders 3-5 Actuals, Rider 6 estimate)
- 11 Residential EE/DSM Revenue Requirement True-up Amount

Barnes Exhibit 1 pg. 4, Line 8
Barnes Exhibit 1 pg. 4, Line 9
Line 1 + Line 2
Miller Exhibit 4 pg. 1, Line 35
Line 3 + Line 4
Miller Exhibit 2, pg. 13
Line 5 * Line 6
Barnes Exhibit 2 pg. 1
Line 7 + Line 8
Miller Exhibit 3 pg. 1, Line 3 + Line 9
Line 9 - Line 10

Rider 5	Rider 4	Rider 6	Rider 6	Rider 6	Rider 7	
True up of Original Filing & Year 3 Lost Rev. Estimate	2013 Year 2 Lost Revenues	2014 True up of Costs, year 1 & 2 & Year 3 Lost Revenues	2015 Y4 Lost Revenue Estimate	2015 True up of 85% to 100%	2016 True up	Vintage 3 - Residential
19,337,997		24,489		3,412,588	(177,138)	¹ 22,597,936
8,254,399		2,954,233		1,456,659	(7,883)	¹ 12,657,408
27,592,397	0	2,978,722	0	4,869,246	(185,021)	35,255,344
-		(4,744,563)			(870,639)	² (5,615,202)
27,592,397	-	(1,765,841)	-	4,869,246	(1,055,660)	29,640,142
1.017953	1.034554	1.001352	1.001352	1.001352	1.001352	various
28,087,763	-	(1,768,228)	-	4,875,830	(1,057,087)	30,138,277
10,158,215	3,047,820	5,574,330	1,595,954	2,330,477	2,992,431	³ 25,699,227
38,245,978	3,047,820	3,806,101	1,595,954	7,206,306	1,935,344	55,837,504
						59,841,509
						(4,004,005)

See Miller Exhibit A for rate

NON-RESIDENTIAL

Energy Efficiency

- 12 Non-Residential EE Avoided Cost Component
- 13 Cap Adjustment factor
- 14 EE Avoided Cost Component Adjusted for Cap
- 15 Gross Receipts Tax and Regulatory Fee
- 16 Total Non-Residential EE Avoided Cost Revenue Requirement
- 17 Non-Residential Lost Revenues
- 18 Total Non-Residential EE Revenue Requirement
- 19 Total Collected for Vintage 3 (Riders 3-5 Actuals, Rider 6 estimate)
- 20 Non-Residential EE Revenue Requirement True-up Amount
- 21 Projected NC Non-Residential Sales (kWh) for billing period
- 22 Non-Residential Rider EE (cents per kWh)

Barnes Exhibit 1 pg. 4, Line 17
Miller Exhibit 4 pg. 1, Line 36
Line 12 + Line 13
Miller Exhibit 2, pg. 13
Line 14 * Line 15
Barnes Exhibit 2 pg. 1
Line 16 + Line 17
Miller Exhibit 3 pg. 1, Line 16
Line 18 - Line 19
Miller Exhibit 6 pg. 1, Line 21
Line 20/Line 21*100

Rider 5	Rider 4	Rider 6	Rider 6	Rider 6	Rider 7	
True up of Original Filing & Year 3 Lost Rev. Estimate	2013 Year 2 Lost Revenues	2014 True up of Costs, year 1 & 2 & Year 3 Lost Revenues	2015 Y4 Lost Revenue Estimate	2015 True up of 85% to 100%	2016 True up	Vintage 3 - Non-Residential EE
27,084,888		715,578		4,779,686	516,587	¹ 33,096,739
		(4,657,296)			111,641	² (4,545,655)
27,084,888	-	(3,941,718)	-	4,779,686	628,228	28,551,084
1.034554	1.034554	1.017953	1.001352	1.001352	1.001352	various
28,020,779	-	(4,012,484)	-	4,786,148	629,078	29,423,522
3,981,059	1,418,749	3,017,303	1,205,284	952,907	3,025,638	³ 13,600,940
32,001,838.3	1,418,749	(995,181)	1,205,284	5,739,055	3,654,716	43,024,462
						36,869,399
						6,155,063
						23,556,939,761
						0.0261

Note: Vintage 3 Year 3 lost revenues will be trued up in Rider 7

DSM

- 23 Non-Residential DSM Avoided Cost Component
- 24 Cap Adjustment factor
- 25 Non-Residential DSM Avoided Cost Component adjusted for Cap
- 26 Gross Receipts Tax and Regulatory Fee
- 27 Total Non-Residential DSM Revenue Requirement
- 28 Total Collected for Vintage 3 (Riders 3-5 Actuals, Rider 6 estimate)
- 29 Non-Residential DSM Revenue Requirement True-up Amount
- 30 Interest due to Vintage 3 DSM Non-Residential Customers
- 31 Total Non-Residential Vintage 3 Revenue Requirement
- 32 Projected NC Non-Residential Sales (kWh) for billing period
- 33 Non-Residential Rider EE (cents per kWh)

Barnes Exhibit 1 pg. 4
Miller Exhibit 4
Line 23 + Line 24
Miller Exhibit 2, pg. 13
Line 25 * Line 26
Miller Exhibit 3 pg. 1
Line 27-Line 28
Miller Exhibit 8 Line 18
Line 29+ Line 30
Miller Exhibit 6 pg. 1
Line 31/Line 32*100

Rider 5	Rider 4	Rider 6	Rider 6	Rider 6	Rider 7	
True up of Original Filing & Year 3 Lost Rev. Estimate	2013 Year 2 Lost Revenues	2014 True up of Costs, year 1 & 2 & Year 3 Lost Revenues	Implementation of Earnings Cap	2015 True up of 85% to 100%	2016 True up	Vintage 3 - Non Residential DSM
10,817,002		1,772,361		1,908,883	(9,025)	¹ 14,489,221
			(1,860,003)		(222,814)	² (2,082,817)
10,817,002	-	1,772,361	(1,860,003)	1,908,883	(231,839)	12,406,404
1.034554	1.034554	1.017953	1.001352	1.001352	1.001352	various
11,190,773	-	1,804,180	(1,862,518)	1,911,464	(232,152)	12,811,747
						13,146,993
						(335,247)
						(67,049)
						(402,296)
						23,100,220,941
						(0.0017)

¹ Adjustments to DSM participation were identified and trued up in 2014. The Company has also received final EM&V and participation for EE programs.

² The cap adjustment factor was updated in Miller Exhibit 4 for actual 2014 collections and estimated 2015 collections.

³ Updated lost revenues by year can be found in Barnes Exhibit 2, page 1. Year 2015 has been updated with most recent participation and lost revenue rates as this is the final SAW true up.

Duke Energy Carolinas, LLC
EE Vintage 4 (January 1, 2013 - December 31, 2013)
Docket Number E-7, Sub 1073
True-Up of Avoided Cost Revenue Requirements & Net Lost Revenues For Vintage 4 Year 1,2 and 3
and Estimate of Year 4 Net Lost Revenues for Vintage 4

RESIDENTIAL

Line

1	EE Avoided Cost Component	Barnes Exhibit 1 pg. 5, Line 8
2	DSM Avoided Cost Component	Barnes Exhibit 1 pg. 5, Line 9
3	Total EE and DSM Avoided Cost	Line 1 + Line 2
4	Cap Adjustment factor	Miller Exhibit 4 pg. 1, Line 35
5	DSM/EE Avoided Cost Component adjusted for Cap	Line 3 + Line 4
6	Gross Receipts Tax and Regulatory Fee	Miller Exhibit 2, pg. 13
7	Adjusted Avoided Cost Revenue Requirement	Line 5 * Line 6
8	Residential Lost Revenues	Barnes Exhibit 2 pg. 1
9	Total Residential Revenue Requirement	Line 7 + Line 8
10	Total Collected for Vintage 4 (Rider 4 -5 Actuals, Rider 6 Estimate)	Miller Exhibit 3 pg. 1, Line 4 + Line 10
11	Residential EE/DSM Revenue Requirement True-up Amount	Line 9 - Line 10

Rider 4	Rider 5	Rider 6	Rider 6	Rider 7		
2013 Original Filing	2014 Y2 Lost Revenue	2015 True up of Costs & Year 3 Lost Revenues	2015 True up of 85% to 100%	2016 True up		Vintage 4 - Residential
5,965,462		11,558,766	1,052,729	(1,109,310)	¹	17,467,647
11,275,591		(133,778)	1,989,810	748,905	¹	13,880,528
17,241,053		11,424,988	3,042,539	(360,405)		31,348,175
		(2,928,359)		(1,662,984)	²	(4,591,343)
17,241,053		8,496,629	3,042,539	(2,023,389)		26,756,832
1.034554	1.017953	1.001352	1.001352	1.001352		various
17,836,801		8,508,116	3,046,652	(2,026,125)		27,365,444
1,222,507	3,086,106	16,473,937	215,736	6,034,933	³	27,033,219
19,059,307	3,086,106	24,982,053	3,262,389	4,008,808		54,398,663
						50,268,825
						4,129,838

See Miller Exhibit A for rate

NON-RESIDENTIAL

Energy Efficiency

12	Non-Residential EE Avoided Cost Component	Barnes Exhibit 1 pg. 5, Line 16
13	Cap Adjustment factor	Miller Exhibit 4 pg. 1, Line 36
14	EE Avoided Cost Component Adjusted for Cap	Line 12 + Line 13
15	Gross Receipts Tax and Regulatory Fee	Miller Exhibit 2, pg. 13
16	Total Non-Residential Avoided Cost Revenue Requirement	Line 14 * Line 15
17	Non-Residential Lost Revenues	Barnes Exhibit 2 pg. 1
18	Total Non-Residential EE Revenue Requirement	Line 16 + Line 17
19	Total Collected for Vintage 4 (Rider 4-5 Actuals, Rider 6 Estimate)	Miller Exhibit 3 pg. 1, Line 17
20	Non-Residential EE Revenue Requirement True-up Amount	Line 18 -Line 19
21	Projected NC Non-Residential Sales (kWh) for billing period	Miller Exhibit 6 pg. 1, Line 21
22	Non-Residential Rider EE (cents per kWh)	Line 20/Line 21*100

Rider 4	Rider 5	Rider 6	Rider 6	Rider 7		
2013 Original Filing	2014 True up	2015 True up of Costs & Year 3 Lost Revenues	2015 True up of 85% to 100%	2016 True up		Vintage 4 - EE
18,760,423		9,250,045	3,310,663	218,976	¹	31,540,107
		(3,215,288)		(1,042,493)	²	(4,257,781)
18,760,423	-	6,034,757	3,310,663	(823,517)		27,282,326
1.034554	1.017953	1.001352	1.001352	1.001352		various
19,408,671	-	6,042,916	3,315,139	(824,630)		27,942,095
632,182	2,817,719	7,776,143	111,561	5,928,479	³	17,266,084
20,040,852	2,817,719	13,819,059	3,426,700	5,103,849		45,208,179
						37,388,248
						7,819,931
						23,966,011,232
						0.0326

DSM

23	Non-Residential DSM Avoided Cost Component	Barnes Exhibit 1 pg. 5, Line 17
24	Cap Adjustment factor	Miller Exhibit 4 pg. 1, Line 37
25	Non-Residential DSM Avoided Cost Component adjusted for Cap	Line 23 + Line 24
26	Gross Receipts Tax and Regulatory Fee	Miller Exhibit 2, pg. 13
27	Total Non-Residential DSM Revenue Requirement	Line 25 * Line 26
28	Total Collected for Vintage 4 (Rider 4-5 Actuals, Rider 6 Estimates)	Miller Exhibit 3 pg. 1, Line 23
29	Non-Residential DSM Revenue Requirement True-up Amount	Line 27 - Line 28
30	Projected NC Non-Residential Sales (kWh) for billing period	Miller Exhibit 6 pg. 1, Line 21
31	Non-Residential Rider EE (cents per kWh)	Line 29/Line 30*100

Rider 4	Rider 5	Rider 6	Rider 6	Rider 7		
2013 Original Filing	2014 True up	2015 True up of Costs	2015 True up of 85% to 100%	True-up		Vintage 4 - DSM
\$ 14,776,131		(101,621)	2,607,553	\$ (468,103)	¹	\$ 16,813,960
		(2,357,201)		2,345	²	(2,354,856)
14,776,131		(2,458,822)	2,607,553	(465,758)		14,459,104
1.034554		1.001352	1.001352	1.001352		various
15,286,706		(2,462,146)	2,611,078	(466,387)		14,969,250
						14,864,137
						\$ 105,113
						23,215,694,176
						0.0005

¹ Adjustments to DSM participation were identified and trued up in 2014. The Company has also received final EM&V and participation for EE programs.

² The cap adjustment factor was updated in Miller Exhibit 4 for actual 2014 collections and estimated 2015 collections.

³ Note: Updated lost revenues by year can be found in Barnes Exhibit 2, page 1. Year 2015 has been updated with most recent participation and lost revenue rates as this is the final SAW true up. In addition, 2016 year 4 has been included as a final estimate.

Duke Energy Carolinas, LLC
Docket No. E-7, Sub 1073
Estimated Year 3 Lost Revenues and True up Year 1 for Vintage Year 2014

RESIDENTIAL
Energy Efficiency Programs

Line	Reference	Year 2014 Yr 3 LR Estimate	Rider 5 Original		Year 2014 Year 1
			Estimate	True up	
1	Residential EE Program Cost	Barnes Exhibit 1 pg. 6, Line 8 * NC Alloc. Factor	\$ 29,754,660	\$ (1,844,170)	\$ 27,910,490
2	Residential EE Earned Utility Incentive	Barnes Exhibit 1 pg. 6, Line 8 * NC Alloc. Factor	2,242,156	2,715,537	4,957,693
3	Return on undercollection of Residential EE Program Costs	Miller Exhibit 2 pg 9		53,935	53,935
4	Total EE Program Cost and Incentive Components	Line 1 + Line 2 + line 3	31,996,816	925,302	32,922,118
5	Residential DSM Program Cost	Barnes Exhibit 1 pg. 6, Line 9 * NC Alloc. Factor	13,143,935	(2,535,104)	10,608,831
6	Residential DSM Earned Utility Incentive	Barnes Exhibit 1 pg. 6, Line 9 * NC Alloc. Factor	3,240,520	(12,767)	3,227,753
7	Return on overcollection of Residential DSM Program Costs	Miller Exhibit 2 pg 10		(69,597)	(69,597)
8	Total DSM Program Cost and Incentive Components	Line 5 + Line 6 + Line 7	16,384,455	(2,617,468)	13,766,987
9	Total EE/DSM Program Cost and Incentive Components	Line 4 + Line 8	48,381,271	(1,692,167)	46,689,104
10	Revenue-related taxes and regulatory fees factor	Miller Exhibit 2, pg. 13	1.017953	1.001352	
11	Total EE/DSM Program Cost and Incentive Revenue Requirement	Line 9 * Line 10	49,249,860	(1,694,455)	47,555,405
12	Residential Net Lost Revenues	Barnes Exhibit 2 pg. 2	8,435,982	3,065,327	11,501,309
13	Total Residential EE/DSM Revenue Requirement	Line 11 + Line 12	57,685,842	1,370,872	59,056,714
14	Total Collected for Year 2014 (Rider 5)	Miller Exhibit 3 pg. 1, Line 5 + Line 11			58,390,274
15	Total Residential EE/DSM Revenue Requirement	Line 11 + Line 12	\$ 9,895,892		\$ 666,440

See Miller Exhibit A for rate

NON-RESIDENTIAL
Energy Efficiency Programs

		Year 2014 Yr 3 LR	Rider 5 Original		
	Reference	Estimate	Estimate	True up	Year 2014 Year 1
16	Residential EE/DSM Revenue Requirement True-up Amount				
16	Non- Residential EE Program Cost	Barnes Exhibit 1 pg. 6, Line 24 * NC Alloc. Factor	16,206,358	(1,398,648)	14,807,710
17	Non-Residential EE Earned Utility Incentive	Barnes Exhibit 1 pg. 6, Line 24 * NC Alloc. Factor	5,782,942	2,021,277	7,804,219
18	Return on undercollection of Non-residential EE Program Costs	Miller Exhibit 2 page 11		94,850	94,850
19	Total EE Program Cost and Incentive Components	Line 16 + Line 17 + Line 18	21,989,300	717,479	22,706,779
20	Revenue-related taxes and regulatory fees factor	Miller Exhibit 2, pg. 13	1.017953	1.001352	
21	Total Non-Residential EE Program Cost and Incentive Revenue Requireme	Line 19 * Line 20	22,384,074	718,449	23,102,523
22	Non-Residential Net Lost Revenues	Barnes Exhibit 2 pg. 2	1,831,641	1,222,389	3,054,030
23	Total Non-Residential EE Revenue Requirement	Line 21 + Line 22	24,215,715	1,940,838	26,156,553
24	Total Collected for Year 2014 (Rider 5)	Miller Exhibit 3, pg. 1, Line 18			22,574,937
25	Non-Residential EE Revenue Requirement True-up Amount	Line 23 - Line 24	6,094,150		3,581,616
26	Projected NC Residential Sales (kWh)	Miller Exhibit 6, pg. 2, Line 17	23,824,291,077		23,824,291,077
27	NC Non-Residential EE billing factor (Cents/kWh)	Line 25/Line 26*100	0.0256		0.0150

DSM Programs

Line	Reference	Year 2014 Yr 3 LR Estimate	Rider 5 Original		Year 2014 Year 1
			Estimate	True up	
28	Non-Residential DSM Program Cost	Barnes Exhibit 1, pg. 6 Line 25 * NC Alloc. Factor	15,046,160	(2,195,319)	12,850,841
29	Non-Residential DSM Earned Utility Incentive	Barnes Exhibit 1, pg. 6 Line 25 * NC Alloc. Factor	3,709,497	200,391	3,909,888
30	Return on overcollection of Non-residential DSM Program Costs	Miller Exhibit 2 page 12		(19,939)	(19,939)
31	Total Non-Residential DSM Program Cost and Incentive Components	Line 28 + Line 29 + Line 30	18,755,657	(2,014,868)	16,740,789
32	Revenue-related taxes and regulatory fees factor	Miller Exhibit 2, pg. 13	1.017953	1.001352	
33	Total Non-Residential DSM Revenue Requirement	Line 31 * Line 32	19,092,377	(2,017,592)	17,074,786
34	Total Revenue Collected for DSM Programs Year 2014	Miller Exhibit 3, pg. 1, Line 24			18,087,702
35	Non-Residential DSM Revenue Requirement True-up Amount	Line 33- Line 34			(1,012,916)
36	Projected NC Non-Residential Sales (kWh)	Miller Exhibit 6 pg. 2, Line 17			23,138,123,262
37	NC Non-Residential DSM billing factor	Line 35/Line 36*100			(0.0044)

¹ Revenue estimated to be collected in 2015 pertain to year 2 lost revenues. Year 2 lost revenues are not included in the lost revenue true-up for 2014. Therefore, the 2015 revenue is not included in this true-up. It will be trued up in Rider 8.

Duke Energy Carolinas, LLC
Docket No. E-7, Sub 1073
Estimated Year 2 Lost Revenues for Vintage Year 2015

RESIDENTIAL

Line

- 1 Residential Lost Revenues - Year 2
- 2 Projected NC Residential Sales (kWh)
- 3 **NC Residential EE Billing factor (Cents/kWh)**

Reference

Barnes Exhibit 2 pg. 2 Line 36
Miller Exhibit 6 pg. 2, Line 1
Line 1/Line 2*100

2015	
\$	4,071,955
	21,674,738,000
	0.0188

NON-RESIDENTIAL

Energy Efficiency Programs

- 4 Non-Residential Net Lost Revenues - Year 2
- 5 Projected NC Residential Sales (kWh)
- 6 **NC Non-Residential EE Billing Factor (Cents/kwh)**

Reference

Barnes Exhibit 2 pg. 2 Line 50
Miller Exhibit 2 pg. 7, Line 19
Line 4/Line 5*100

2015	
\$	8,194,003
	23,753,678,227
	0.0345

Duke Energy Carolinas, LLC
Docket No. E-7, Sub 1073
Estimated Program Costs, Earned Incentive and Lost Revenues for Vintage Year 2016

RESIDENTIAL

Line	Reference	2016
1 Residential EE Program Cost	Barnes Exhibit 1, pg. 7 * NC Alloc. Factor	\$ 31,056,079
2 Residential EE Earned Utility Incentive	Barnes Exhibit 1, pg. 7 * NC Alloc. Factor	2,392,652
3 Total EE Program Cost and Incentive Components	Line 1 + Line 2	33,448,730
4 Residential DSM Program Cost	Barnes Exhibit 1, pg. 7 * NC Alloc. Factor	10,613,016
5 Residential DSM Earned Utility Incentive	Barnes Exhibit 1, pg. 7 * NC Alloc. Factor	2,887,418
6 Total DSM Program Cost and Incentive Components	Line 4 + Line 5	13,500,433
7 Total EE/DSM Program Cost and Incentive Components	Line 3 + Line 6	46,949,164
8 Revenue-related taxes and regulatory fees factor	Miller Exhibit 2, pg. 13	1.001352
9 Total EE/DSM Program Cost and Incentive Revenue Requirement	Line 7 * Line 8	47,012,639
10 Residential Net Lost Revenues	Barnes Exhibit 2 pg. 2 Line 61	11,873,767
11 Total Residential EE Revenue Requirement	Line 9 + Line 10	\$ 58,886,406
	See Miller Exhibit 1 for rate	

NON-RESIDENTIAL Energy Efficiency Programs

	Reference	2016
12 Non- Residential EE Program Cost	Barnes Exhibit 1, pg. 7 * NC Alloc. Factor	\$ 36,494,611
13 Non-Residential EE Earned Utility Incentive	Barnes Exhibit 1, pg. 7 * NC Alloc. Factor	10,105,721
14 Total EE Program Cost and Incentive Components	Line 12 + Line 13	46,600,331
15 Revenue-related taxes and regulatory fees factor	Miller Exhibit 2, pg. 13	1.001352
16 Total Non-Residential EE Program Cost and Incentive Revenue Requirements	Line 14 * Line 15	46,663,335
17 Non-Residential Net Lost Revenues	Barnes Exhibit 2 pg. 2 Line 75	4,745,315
18 Total Non-Residential EE Revenue Requirement	Line 16 + Line 17	\$ 51,408,650
19 Projected NC Residential Sales (kWh)	Miller Exhibit 6, pg. 2	23,753,678,227
20 NC Non-Residential EE billing factor (Cents/kWh)	Line 18/Line 19*100	0.2164

DSM Programs

		2016
21 Non-Residential DSM Program Cost	Barnes Exhibit 1, pg. 7 * NC Alloc. Factor	\$ 12,855,910
22 Non-Residential DSM Earned Utility Incentive	Barnes Exhibit 1, pg. 7 * NC Alloc. Factor	3,497,628
23 Total Non-Residential DSM Program Cost and Incentive Components	Line 21 + Line 22	16,353,538
24 Revenue-related taxes and regulatory fees factor	Miller Exhibit 2, pg. 13	1.001352
25 Total Non-Residential DSM Revenue Requirement	Line 23 * Line 24	16,375,648
26 Projected NC Non-Residential Sales (kWh)	Miller Exhibit 6, pg. 2	23,082,735,561
27 NC Non-Residential DSM billing factor	Line 25/Line 26*100	0.0709

Duke Energy Carolinas, LLC
Docket No. E-7, Sub 1073
Estimated Interest Calculation - SAW Program

NON-RESIDENTIAL DSM Programs

VINTAGE 3

1 Vintage 3	Miller Exh 2 pg. 3 Line 29	(335,247)
		(335,247)
2 Annual interest rate	Same as used for fuel	10.00%
3 Monthly interest rate	Line 2/12	0.83%
4 Beginning interest incurred date	Mid-point of test period	7/1/2014
5 Ending date	Mid-point of rate period	6/30/2016
6 Total months to calculate interest		24
7 Total interest due	Line 1 * Line 3 * Line 6	(67,049)

Duke Energy Carolinas, LLC
Docket No. E-7, Sub 1073
Estimated Return Calculation - Residential EE Programs Vintage 2014

NC Residential EE		Residential EE Program Costs		NC Allocated EE Program Costs	NC Residential Revenue Collected(EEC2)	NC Residential EE Program Collection %	EE Program Costs Revenue Collected	(Over)/Under Collection
		Incurred	NC Allocation %					
		Miller Exhibit 5 pg. 6, Line 4			see calc. at right			
2014	January	2,345,126	72.9600473%	1,711,005	1,965,528	62.0990604%	(1,220,574)	490,431
2014	February	1,939,655	72.9600473%	1,415,174	4,790,497	62.0990604%	(2,974,854)	(1,559,680)
2014	March	2,388,597	72.9600473%	1,742,722	3,571,294	62.0990604%	(2,217,740)	(475,018)
2014	April	2,800,794	72.9600473%	2,043,460	2,996,350	62.0990604%	(1,860,705)	182,755
2014	May	3,504,706	72.9600473%	2,557,035	2,605,626	62.0990604%	(1,618,069)	938,966
2014	June	3,049,089	72.9600473%	2,224,617	3,281,724	62.0990604%	(2,037,920)	186,697
2014	July	4,165,240	72.9600473%	3,038,961	3,939,031	62.0990604%	(2,446,101)	592,859
2014	August	4,277,377	72.9600473%	3,120,776	3,417,322	62.0990604%	(2,122,125)	998,652
2014	September	2,815,581	72.9600473%	2,054,249	3,539,784	62.0990604%	(2,198,173)	(143,924)
2014	October	3,790,918	72.9600473%	2,765,856	2,460,025	62.0990604%	(1,527,652)	1,238,204
2014	November	3,405,295	72.9600473%	2,484,505	2,448,958	62.0990604%	(1,520,780)	963,725
2014	December	3,772,108	72.9600473%	2,752,132	3,980,410	62.0990604%	(2,471,797)	280,335
2015	January	0	72.9600473%	-	2,517,177	62.0990604%	(1,563,143)	(1,563,143)
		38,254,486		27,910,491	41,513,726			

EE Program Costs	27,910,490
EE Revenue Requirement	44,945,109
% Revenue related to Program Costs	62%

NC Residential EE		Cumulative (Over)/Under Recovery	Deferred 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
		2014 tax rate			6.93%				1-.379155		
2014	January	490,431	0.383471	188,066	188,066	302,365	0.005775	873	873	0.620845	1,406
2014	February	(1,069,250)	0.383471	(598,092)	(410,026)	(659,224)	0.005775	(1,030)	(157)	0.620845	(253)
2014	March	(1,544,268)	0.383471	(182,156)	(592,182)	(952,086)	0.005775	(4,653)	(4,810)	0.620845	(7,748)
2014	April	(1,361,513)	0.383471	70,081	(522,101)	(839,412)	0.005775	(5,173)	(9,983)	0.620845	(16,080)
2014	May	(422,547)	0.383471	360,066	(162,034)	(260,512)	0.005775	(3,176)	(13,159)	0.620845	(21,196)
2014	June	(235,850)	0.383471	71,593	(90,442)	(145,408)	0.005775	(1,172)	(14,331)	0.620845	(23,084)
2014	July	357,010	0.383471	227,344	136,903	220,107	0.005775	216	(14,116)	0.620845	(22,736)
2014	August	1,355,661	0.383471	382,954	519,857	835,804	0.005775	3,049	(11,067)	0.620845	(17,825)
2014	September	1,211,738	0.383471	(55,191)	464,666	747,071	0.005775	4,571	(6,496)	0.620845	(10,463)
2014	October	2,449,941	0.383471	474,815	939,481	1,510,460	0.005775	6,519	23	0.620845	37
2014	November	3,413,666	0.383471	369,560	1,309,042	2,104,624	0.005775	10,439	10,462	0.620845	16,851
2014	December	3,694,001	0.383471	107,500	1,416,542	2,277,459	0.005775	12,654	23,115	0.620845	37,232
2015	January	2,130,857	0.383471	(599,420)	817,122	1,313,735	0.005775	10,370	33,485	0.620845	53,935
								33,485			53,935

Duke Energy Carolinas, LLC
Docket No. E-7, Sub 1073
Estimated Return Calculation - Residential DSM Programs Vintage 2014

		Total System NC DSM Program Costs Incurred	NC Residential DSM Allocation %	NC Allocated DSM Residential Program Costs	NC Residential Revenue Collected(EEC2)	NC Residential DSM Program Collection %	DSM Program Costs Revenue Collected	(Over)/Under Collection
NC Residential DSM		Miller Exhibit 5, pg 6 Line 9						
		See calc. at right						
2014	January	1,853,709	34.0209980%	630,650	801,545	75.0945957%	(601,917)	28,733
2014	February	1,977,838	34.0209980%	672,880	1,953,572	75.0945957%	(1,467,027)	(794,147)
2014	March	2,263,839	34.0209980%	770,180	1,456,379	75.0945957%	(1,093,662)	(323,481)
2014	April	2,327,907	34.0209980%	791,977	1,221,916	75.0945957%	(917,593)	(125,616)
2014	May	2,953,411	34.0209980%	1,004,780	1,062,578	75.0945957%	(797,939)	206,841
2014	June	2,326,109	34.0209980%	791,366	1,338,292	75.0945957%	(1,004,985)	(213,619)
2014	July	3,521,875	34.0209980%	1,198,177	1,597,016	75.0945957%	(1,199,273)	(1,096)
2014	August	3,245,158	34.0209980%	1,104,035	1,385,497	75.0945957%	(1,040,433)	63,602
2014	September	3,836,775	34.0209980%	1,305,309	1,435,148	75.0945957%	(1,077,718)	227,591
2014	October	3,227,894	34.0209980%	1,098,162	997,377	75.0945957%	(748,976)	349,186
2014	November	2,015,259	34.0209980%	685,611	992,890	75.0945957%	(745,607)	(59,996)
2014	December	1,633,412	34.0209980%	555,703	1,613,792	75.0945957%	(1,211,871)	(656,167)
2015	January		34.0209980%	-	1,020,548	75.0945957%	(766,377)	(766,377)
		31,183,185		10,608,831	16,876,548			

DSM Program Costs	10,608,831
DSM Revenue Requirement	14,127,289
% Revenue related to Program Costs	75%

		Cumulative (Over)/Under Recovery	Deferred Income Tax Rate	Monthly Deferred Income Tax	Cumulative Deferred Income Tax	Net Deferred After Tax Balance	Monthly Return	Monthly A/T Return on Deferral	YTD After Tax Interest	Gross up of Return to Pretax Rate	Gross up of Return to Pretax
NC Residential DSM											
		2014 tax rate			6.93%			1-.379155			
2014	January	28,733	0.383471	11,018	11,018	17,715	0.005775	51	51	0.620845	82
2014	February	(765,414)	0.383471	(304,532)	(293,514)	(471,900)	0.005775	(1,311)	(1,260)	0.620845	(2,030)
2014	March	(1,088,895)	0.383471	(124,046)	(417,560)	(671,335)	0.005775	(3,301)	(4,561)	0.620845	(7,347)
2014	April	(1,214,510)	0.383471	(48,170)	(465,729)	(748,781)	0.005775	(4,101)	(8,662)	0.620845	(13,952)
2014	May	(1,007,669)	0.383471	79,318	(386,412)	(621,257)	0.005775	(3,956)	(12,618)	0.620845	(20,324)
2014	June	(1,221,288)	0.383471	(81,917)	(468,329)	(752,959)	0.005775	(3,968)	(16,586)	0.620845	(26,715)
2014	July	(1,222,384)	0.383471	(420)	(468,749)	(753,635)	0.005775	(4,350)	(20,936)	0.620845	(33,722)
2014	August	(1,158,782)	0.383471	24,389	(444,359)	(714,423)	0.005775	(4,239)	(25,175)	0.620845	(40,550)
2014	September	(931,191)	0.383471	87,274	(357,085)	(574,106)	0.005775	(3,721)	(28,896)	0.620845	(46,543)
2014	October	(582,005)	0.383471	133,903	(223,182)	(358,823)	0.005775	(2,694)	(31,590)	0.620845	(50,882)
2014	November	(642,001)	0.383471	(23,007)	(246,189)	(395,812)	0.005775	(2,179)	(33,769)	0.620845	(54,392)
2014	December	(1,298,168)	0.383471	(251,621)	(497,810)	(800,358)	0.005775	(3,454)	(37,223)	0.620845	(59,955)
2015	January	(2,064,545)	0.383471	(293,883)	(791,693)	(1,272,852)	0.005775	(5,986)	(43,209)	0.620845	(69,597)
								(43,209)			(69,597)

Duke Energy Carolinas, LLC
Docket No. E-7, Sub 1073
Estimated Return Calculation - Non- Residential EE Programs Vintage 2014

NC Non- Residential EE		Non-Residential EE Program Costs Incurred	NC Allocation %	NC Allocated EE Program Costs	NC Residential Revenue Collected(EEC14)	NC Non- Residential EE Program Collection %	Non-Residential EE Program Costs Revenue Collected	(Over)/Under Collection
		Miller Exhibit 5. pg 6, Line 4			See calc. at right			
2014	January	1,402,202	72.9600473%	1,023,047	873,873	56.8181711%	(496,519)	526,529
2014	February	787,200	72.9600473%	574,342	1,906,629	56.8181711%	(1,083,312)	(508,970)
2014	March	2,047,090	72.9600473%	1,493,558	1,730,198	56.8181711%	(983,067)	510,491
2014	April	1,881,253	72.9600473%	1,372,563	1,818,402	56.8181711%	(1,033,183)	339,380
2014	May	1,352,150	72.9600473%	986,529	1,841,327	56.8181711%	(1,046,209)	(59,679)
2014	June	3,031,236	72.9600473%	2,211,591	2,078,943	56.8181711%	(1,181,217)	1,030,374
2014	July	1,652,175	72.9600473%	1,205,428	2,112,332	56.8181711%	(1,200,188)	5,239
2014	August	666,430	72.9600473%	486,228	2,059,199	56.8181711%	(1,169,999)	(683,771)
2014	September	2,603,310	72.9600473%	1,899,376	2,121,927	56.8181711%	(1,205,640)	693,736
2014	October	1,387,748	72.9600473%	1,012,502	1,841,200	56.8181711%	(1,046,136)	(33,634)
2014	November	1,478,658	72.9600473%	1,078,830	1,706,943	56.8181711%	(969,854)	108,975
2014	December	2,006,192	72.9600473%	1,463,718	1,819,475	56.8181711%	(1,033,793)	429,926
2015	January		72.9600473%	-	664,487	56.8181711%	(377,550)	(377,550)
		20,295,644		14,807,712	22,574,937			

Non-Res EE Program Costs	14,807,710
Non-Res EE Revenue Requirement	26,061,575
% Revenue related to Program Costs	57%

NC Non-Residential EE		Cumulative (Over)/Under Recovery	Deferred 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
		2014 tax rate					6.93%			1 - .379155	
2014	January	526,529	0.383471	201,908.46	201,908	324,620	0.005775	937	937	0.620845	1,510
2014	February	17,558	0.383471	(195,175.35)	6,733	10,825	0.005775	969	1,906	0.620845	3,070
2014	March	528,049	0.383471	195,758.43	202,492	325,558	0.005775	971	2,877	0.620845	4,634
2014	April	867,429	0.383471	130,142.30	332,634	534,795	0.005775	2,484	5,362	0.620845	8,636
2014	May	807,750	0.383471	(22,885.31)	309,749	498,001	0.005775	2,982	8,344	0.620845	13,439
2014	June	1,838,124	0.383471	395,118.54	704,867	1,133,256	0.005775	4,710	13,054	0.620845	21,026
2014	July	1,843,363	0.383471	2,009.17	706,876	1,136,487	0.005775	6,554	19,608	0.620845	31,583
2014	August	1,159,592	0.383471	(262,206.49)	444,670	714,922	0.005775	5,346	24,954	0.620845	40,193
2014	September	1,853,328	0.383471	266,027.70	710,697	1,142,630	0.005775	5,364	30,317	0.620845	48,833
2014	October	1,819,694	0.383471	(12,897.69)	697,800	1,121,894	0.005775	6,539	36,856	0.620845	59,365
2014	November	1,928,669	0.383471	41,788.93	739,589	1,189,080	0.005775	6,673	43,529	0.620845	70,113
2014	December	2,358,595	0.383471	164,864.02	904,453	1,454,142	0.005775	7,632	51,162	0.620845	82,406
2015	January	1,981,045	0.383471	(144,779.31)	759,673	1,221,372	0.005775	7,726	58,887	0.620845	94,850
								58,887			
											94,850

Duke Energy Carolinas, LLC
Docket No. E-7, Sub 1073
Estimated Return Calculation -Non - Residential DSM Programs Vintage 2014

		Total System NC DSM Program Costs Incurred	NC Non- Residential DSM Allocation %	NC Allocated DSM Non-Residential Program Costs	Incentives Earned & GRT remitted (Allocated based on WA of Program Costs Incurred)	Total DSM Revenue Requirement	NC Non-Residential DSM Revenue Collected(DS14)	NC Non-Residential DSM Program Collection %	Non-Residential DSM Program Costs Revenue Collected	(Over)/Under Collection
NC Non- Residential DSM										
			See Miller Exhibit 5 pg. 6, Line 10		calculated interest on entire balance due to over- collection in total			100% used due to over-collection of entire vintage		
2014	January	1,853,709	41.2108021%	763,928	252,283	1,016,211	715,425	100.0000000%	(715,425)	300,786
2014	February	1,977,838	41.2108021%	815,083	269,176	1,084,259	1,545,880	100.0000000%	(1,545,880)	(461,622)
2014	March	2,263,839	41.2108021%	932,946	308,100	1,241,046	1,379,174	100.0000000%	(1,379,174)	(138,128)
2014	April	2,327,907	41.2108021%	959,349	316,819	1,276,168	1,475,418	100.0000000%	(1,475,418)	(199,250)
2014	May	2,953,411	41.2108021%	1,217,124	401,948	1,619,072	1,483,279	100.0000000%	(1,483,279)	135,793
2014	June	2,326,109	41.2108021%	958,608	316,575	1,275,183	1,664,945	100.0000000%	(1,664,945)	(389,762)
2014	July	3,521,875	41.2108021%	1,451,393	479,314	1,930,707	1,716,762	100.0000000%	(1,716,762)	213,944
2014	August	3,245,158	41.2108021%	1,337,356	441,654	1,779,009	1,659,220	100.0000000%	(1,659,220)	119,789
2014	September	3,836,775	41.2108021%	1,581,166	522,170	2,103,336	1,699,354	100.0000000%	(1,699,354)	403,982
2014	October	3,227,894	41.2108021%	1,330,241	439,304	1,769,545	1,492,291	100.0000000%	(1,492,291)	277,254
2014	November	2,015,259	41.2108021%	830,504	274,269	1,104,773	1,335,834	100.0000000%	(1,335,834)	(231,061)
2014	December	1,633,412	41.2108021%	673,142	222,301	895,443	1,459,103	100.0000000%	(1,459,103)	(563,659)
2015	January	-	41.2108021%	-	-	-	461,016	100.0000000%	(461,016)	(461,016)
		31,183,185		12,850,841	4,243,911	17,094,752	18,087,702			

		Cumulative (Over)/Under Recovery	Deferred Income Tax Rate	Monthly Deferred Income Tax	Cumulative Deferred Income Tax	Net Deferred After Tax Balance	Monthly Return	Monthly A/T Return on Deferral	YTD After Tax Interest	Gross up of Return to Pretax Rate	Gross up of Return to Pretax
NC Residential EE			2014 tax rate				6.93%			1 - .379155	
2014	January	300,786	0.383471	115,343	115,343	185,443	0.005775	535	535	0.620845	862
2014	February	(160,835)	0.383471	(177,018)	(61,676)	(99,160)	0.005775	249	785	0.620845	1,264
2014	March	(298,963)	0.383471	(52,968)	(114,644)	(184,320)	0.005775	(819)	(34)	0.620845	(55)
2014	April	(498,214)	0.383471	(76,407)	(191,050)	(307,163)	0.005775	(1,419)	(1,453)	0.620845	(2,341)
2014	May	(362,421)	0.383471	52,073	(138,978)	(223,443)	0.005775	(1,532)	(2,985)	0.620845	(4,808)
2014	June	(752,183)	0.383471	(149,462)	(288,440)	(463,743)	0.005775	(1,984)	(4,969)	0.620845	(8,004)
2014	July	(538,238)	0.383471	82,041	(206,399)	(331,840)	0.005775	(2,297)	(7,267)	0.620845	(11,705)
2014	August	(418,449)	0.383471	45,936	(160,463)	(257,986)	0.005775	(1,703)	(8,970)	0.620845	(14,448)
2014	September	(14,467)	0.383471	154,915	(5,548)	(8,920)	0.005775	(771)	(9,741)	0.620845	(15,689)
2014	October	262,787	0.383471	106,319	100,771	162,016	0.005775	442	(9,298)	0.620845	(14,977)
2014	November	31,726	0.383471	(88,605)	12,166	19,560	0.005775	524	(8,774)	0.620845	(14,133)
2014	December	(531,933)	0.383471	(216,147)	(203,981)	(327,952)	0.005775	(890)	(9,665)	0.620845	(15,567)
2015	January	(992,950)	0.383471	(176,786)	(380,767)	(612,182)	0.005775	(2,715)	(12,379)	0.620845	(19,939)
								(12,379)			(19,939)

Duke Energy Carolinas, LLC
Docket No. E-7, Sub 1073
Gross Receipts Tax Years 2009-2016

	Year		GRT Rate In Effect
Rider 1	2009		1.034554
Rider 1	2010		1.034554
Rider 2	2011		1.034554
Rider 3	2012		1.034554
Rider 4	2013		1.034554
	2014	Jan - June	1.034554
		July - Dec	1.001352
Rider 5	2014	Weighted Average	1.017953
Rider 6	2015		1.001352
Rider 7	2016		1.001352

Duke Energy Carolinas, LLC
DSM/EE Revenues Collected from Riders 1-6 (By Vintage)
Docket Number E-7, Sub 1073
For Vintages 1- 4 and Year 2014 True-Up Calculations

			Actual 2010 Rider 1	Actual 2011 Rider 2	Actual 2012 Rider 3	Actual 2013 Rider 4	Actual 2014 Rider 5	Estimate 2015 Rider 6 ⁽¹⁾	Total
Residential									
Line		Vintage							
1	EE	v1	\$ 25,916,921	\$ 6,366,243	\$ 17,575,779	\$ 929,553	\$ 674,570	\$ 2,884,169	\$ 54,347,236
2		v2		22,641,166	7,680,225	10,307,713	7,750,897	17,156,210	65,536,210
3		v3			8,610,393	2,933,257	21,501,477	16,970,485	50,015,612
4		v4				7,291,829	3,131,859	27,904,781	38,328,469
5		Year 2014					41,513,726	3,871,360	45,385,085
6		Year 2015						53,202,985	53,202,985
7	DSM	v1	6,461,100		2,357,720	(413,135)		(210,578)	8,195,107
8		v2		7,259,507		1,260,061		(1,200,218)	7,319,349
9		v3			10,713,375	-	(2,354,078)	1,466,599	9,825,897
10		v4				11,526,460		413,896	11,940,356
11		Year 2014					16,876,548		16,876,548
12		Year 2015						5,658,797	5,658,797
13	Total Residential		\$ 32,378,022	\$ 36,266,916	\$ 46,937,492	\$ 33,835,738	\$ 89,094,999	\$ 128,118,487	\$ 366,631,653
Non-Residential									
14	EE	v1	\$ 7,688,412	\$ 860,011	\$ 6,038,079	\$ 3,812,310	\$ (289,351)	\$ -	\$ 18,109,461
15		v2		7,165,813	1,039,274	12,137,871	1,415,164	2,349,137	24,107,260
16		v3			11,394,699	1,717,616	17,828,520	5,928,564	36,869,399
17		v4				19,795,122	3,107,562	14,485,563	37,388,248
18		Year 2014					22,574,937	4,760,481	27,335,418
19		Year 2015					-	25,545,057	25,545,057
20	DSM	v1	5,118,264		4,994,566	(311,608)		(65,988)	9,735,234
21		v2		7,594,483		3,378,237	-	(44,923)	10,927,797
22		v3			12,967,453	-	(1,109,322)	1,288,862	13,146,993
23		v4				14,182,324	-	681,813	14,864,137
24		Year 2014					18,087,702		18,087,702
25		Year 2015						19,453,552	19,453,552
26	Total Non-Residential		\$ 12,806,676	\$ 15,620,307	\$ 36,434,070	\$ 54,711,872	\$ 61,615,213	\$ 74,382,118	\$ 255,570,257
27	Total Revenue		\$ 45,184,698	\$ 51,887,223	\$ 83,371,563	\$ 88,547,610	\$ 150,710,212	\$ 202,500,605	\$ 622,201,910

⁽¹⁾ Rider 6 estimates based on the revised estimated forecast. See Miller Exhibit 3 page 3.

Duke Energy Carolinas, LLC
DSM/EE Revenues Collected from Riders 1-6 (By Vintage)
Docket Number E-7, Sub 1073
Revenue by Type for Riders 1-5 Actuals and Rider 6 estimates (SAW Program only)

			Actual 2010 Rider 1	Actual 2011 Rider 2	Actual 2012 Rider 3	Actual 2013 Rider 4	Actual 2014 Rider 5	Estimate 2015 Rider 6 ⁽¹⁾	Total
Residential									
Line	Vintage								
1	EE/DSM-Avoided Costs	v1	\$ 23,845,842	\$ -	\$ 21,750,975	\$ (6,891,415)	\$ 837,024	\$ (1,034,124)	\$ 38,508,303
2		v2	-	22,938,621	-	12,315,553	11,742	(9,643,903)	25,622,013
3		v3	-	-	18,077,050	-	10,257,628	7,109,157	35,443,836
4		v4	-	-	-	17,612,692	-	11,368,427	28,981,119
5	Lost Revenue	v1	8,532,180	6,366,243	(1,817,476)	7,407,834	(162,454)	3,707,715	24,034,040
6		v2	-	6,962,052	7,680,225	(747,779)	7,739,154	25,599,895	47,233,547
7		v3	-	-	1,246,718	2,933,257	8,889,771	11,327,927	24,397,673
8		v4	-	-	-	1,205,598	3,131,859	16,950,250	21,287,706
9	Total Residential		\$ 32,378,022	\$ 36,266,916	\$ 46,937,492	\$ 33,835,738	\$ 30,704,725	\$ 65,385,345	\$ 245,508,237
Non-Residential									
10	EE Avoided Costs	v1	\$ 6,572,003	\$ -	\$ 7,233,409	\$ 3,066,725	\$ (348,179)	\$ -	\$ 16,523,959
11		v2	-	6,225,978	-	11,932,378	-	(983,590)	17,174,766
12		v3	-	-	11,328,823	-	14,441,251	2,922,651	28,692,725
13		v4	-	-	-	19,170,692	-	7,704,941	26,875,632
14	DSM Avoided Costs	v1	5,118,264	-	4,994,566	(311,608)	-	(65,988)	9,735,234
15		v2	-	7,594,483	-	3,378,237	-	(44,923)	10,927,797
16		v3	-	-	12,967,453	-	(1,109,322)	1,288,862	13,146,993
17		v4	-	-	-	14,182,324	-	681,813	14,864,137
18	Lost Revenue	v1	1,116,409	860,011	(1,195,330)	745,585	58,828	-	1,585,502
19		v2	-	939,835	1,039,274	205,493	1,415,164	3,332,727	6,932,493
20		v3	-	-	65,876	1,717,616	3,387,269	3,005,913	8,176,674
21		v4	-	-	-	624,430	3,107,562	6,780,623	10,512,615
22	Total Non-Residential		\$ 12,806,676	\$ 15,620,307	\$ 36,434,070	\$ 54,711,872	\$ 20,952,574	\$ 24,623,028	\$ 165,148,528
23	Total Revenue		\$ 45,184,698	\$ 51,887,223	\$ 83,371,563	\$ 88,547,610	\$ 51,657,299	\$ 90,008,373	\$ 410,656,765

⁽¹⁾ Rider 6 estimates based on the revised estimated forecast. See Miller Exhibit 3 page 3.

Residential Billing Factors for Rider 6 with updated 2015 forecast

Line		
1	Rate for Vintage 1 True-Up	(WA of rate in Rider 6, McGee Exhibit 1) 0.0125
2	Updated 2015 Forecast	Miller Exhibit 6 pg. 1, Line 1 21,388,729,000
3	Estimated Revenue Vintage 1 True Up	(Line 1*Line 2)/100 2,673,591
4	Rate for Vintage 2 True-Up	(WA of rate in Rider 6, McGee Exhibit 1) 0.0746
5	Updated 2015 Forecast	Miller Exhibit 6 pg. 1, Line 1 21,388,729,000
6	Estimated Revenue Vintage 2 True Up	(Line 4*Line 5)/100 15,955,992
7	Rate for Vintage 3 True-Up	(WA of rate in Rider 6, McGee Exhibit 1) 0.0786
8	Updated 2015 Forecast	Miller Exhibit 6 pg. 1, Line 1 21,388,729,000
9	Estimated Revenue Vintage 3 True Up	(Line 7*Line 8)/100 16,811,541
10	Rate for Vintage 4 True-Up	(WA of rate in Rider 6, McGee Exhibit 1) 0.0984
11	Updated 2015 Forecast	Miller Exhibit 6 pg. 1, Line 1 21,388,729,000
12	Estimated Revenue Vintage 4 True Up	(Line 10*Line 11)/100 21,046,509
13	Rate for Vintage 3 Prospective Component	(WA of rate in Rider 6, McGee Exhibit 1) 0.0076
14	Updated 2015 Forecast	Miller Exhibit 6 pg. 1, Line 1 21,388,729,000
15	Estimated Revenue Vintage 3 True Up	(Line 13*Line 14)/100 1,625,543
16	Rate For Vintage 4 Prospective Component	(WA of rate in Rider 6, McGee Exhibit 1) 0.0340
17	Updated 2015 Forecast	Miller Exhibit 6 pg. 1, Line 1 21,388,729,000
18	Estimated Revenue Vintage 4 True Up	(Line 16*Line 17)/100 7,272,168
19	Rate for Year 2014 Prospective Component	(WA of rate in Rider 6, McGee Exhibit 1) 0.0181
20	Updated 2015 Forecast	Miller Exhibit 6, pg. 2 21,388,729,000
21	Estimated Revenue Vintage Year 2014 True Up	(Line 19*Line 20)/100 3,871,360
22	Rate For Year 2015 Prospective Component	(WA of rate in Rider 6, McGee Exhibit 1) 0.2752
23	Updated 2015 Forecast	Miller Exhibit 6, pg. 2 21,388,729,000
24	Estimated Revenue Vintage Year 2015 True Up	(Line 22*Line 23)/100 58,861,782

Revised Non-Residential Billing Factors for Rider 6 with updated forecast

Line

1	Rate for Vintage 1 EE True-up (EMF) Participants	Rider 6, McGee Exhibit 1	-
2	Updated 2015 Forecast	Miller Exhibit 6, pg. 1, Line 31	22,483,765,776
3	<i>SAW EE Estimated Revenue Vintage 1 EMF Non-Residential Rider EE</i>	Line 1*Line 2 / 100	-
4	Rate for Vintage 1 DSM True-up (EMF) Participants	Rider 6, McGee Exhibit 1	(0.0003)
5	Updated 2015 Forecast	Miller Exhibit 6, pg. 1, Line 31	21,995,904,238
6	<i>SAW DSM Estimated Revenue Vintage 1 EMF Non-Residential Rider EE</i>	Line 4*Line 5 / 100	\$ (65,988)
7	Rate for Vintage 2 EE True-up (EMF) Participants	Rider 6, McGee Exhibit 1	0.0103
8	Updated 2015 Forecast	Miller Exhibit 6, pg. 1, Line 31	22,807,156,187
9	<i>SAW EE Estimated Revenue Vintage 2 EMF Non-Residential Rider EE</i>	Line 7*Line 8 / 100	\$ 2,349,137
10	Rate for Vintage 2 DSM True-up (EMF) Participants	Rider 6, McGee Exhibit 1	(0.0002)
11	Updated 2015 Forecast	Miller Exhibit 6, pg. 1, Line 31	22,461,631,628
12	<i>SAW DSM Estimated Revenue Vintage 2 EMF Non-Residential Rider EE</i>	Line 10*Line 11 / 100	\$ (44,923)
13	Rate for Vintage 3 EE True-up (EMF) Participants	Rider 6, McGee Exhibit 1	0.0212
14	Updated 2015 Forecast	Miller Exhibit 6, pg. 1, Line 31	23,068,340,761
15	<i>SAW EE Estimated Revenue Vintage 3 EMF Non-Residential Rider EE</i>	Line 13*Line 14 / 100	\$ 4,890,488
16	Rate for Vintage 3 DSM True-up (EMF) Participants	Rider 6, McGee Exhibit 1	0.0057
17	Updated 2015 Forecast	Miller Exhibit 6, pg. 1, Line 31	22,611,621,941
18	<i>SAW DSM Estimated Revenue Vintage 3 EMF Non-Residential Rider EE</i>	Line 16*Line 17 / 100	\$ 1,288,862
19	Rate for Vintage 4 EE True-up (EMF) Participants	Rider 6, McGee Exhibit 1	0.0400
20	Updated 2015 Forecast	Miller Exhibit 6, pg. 1, Line 31	23,477,412,232
21	<i>SAW EE Estimated Revenue Vintage 4 EMF Non-Residential Rider EE</i>	Line 19*Line 20 / 100	\$ 9,390,965
22	Rate for Vintage 4 DSM True-up (EMF) Participants	Rider 6, McGee Exhibit 1	0.0030
23	Updated 2015 Forecast	Miller Exhibit 6, pg. 1, Line 31	22,727,095,176
24	<i>SAW DSM Estimated Revenue Vintage 4 EMF Non-Residential Rider EE</i>	Line 22*Line 23 / 100	\$ 681,813
25	Rate for Vintage 3 EE Prospective Participants	Rider 6, McGee Exhibit 1	0.0045
26	Updated 2015 Forecast	Miller Exhibit 6, pg. 1, Line 31	23,068,340,761
27	<i>SAW EE Estimated Revenue Vintage 3 EE Prospective Component for Non-Residential Rider EE</i>	Line 25*Line 26 / 100	\$ 1,038,075
28	Rate for Vintage 4 EE Prospective Participants	Rider 6, McGee Exhibit 1	0.0217
29	Updated 2015 Forecast	Miller Exhibit 6, pg. 1, Line 31	23,477,412,232
30	<i>SAW EE Estimated Revenue Vintage 4 EE Prospective Component for Non-Residential Rider EE</i>	Line 28*Line 29 / 100	\$ 5,094,598
31	Rate for Year 2014 EE Prospective Participants	Rider 6, McGee Exhibit 1	0.0204
32	Updated 2015 Forecast	Miller Exhibit 6, pg. 2, Line 25	23,335,692,077
33	<i>EE Estimated Revenue Vintage Year 2014 EE Prospective Component for Non-Residential Rider EE</i>	Line 31*Line 32 / 100	\$ 4,760,481
34	Rate for Vintage 2015 EE Prospective Participants	Rider 6, McGee Exhibit 1	0.1098
35	Updated 2015 Forecast	Miller Exhibit 6, pg. 2, Line 25	23,265,079,227
36	<i>EE Estimated Revenue Vintage Year 2014 EE Prospective Component for Non-Residential Rider EE</i>	Line 37*Line 35 / 100	\$ 25,545,057
37	Rate for Vintage 2015 DSM Prospective Participants	Rider 6, McGee Exhibit 1	0.0861
38	Updated 2015 Forecast	Miller Exhibit 6, pg. 2, Line 25	22,594,136,561
39	<i>DSM Estimated Revenue Vintage Year 2015 Prospective Component for Non-Residential Rider EE</i>	Line 37*Line 38 / 100	\$ 19,453,552
			74,382,118

Duke Energy Carolinas, LLC
Docket Number E-7, Sub 1073
DSM/EE Earnings Cap Calculation for the Period June 1, 2009 to December 31, 2013

			2009-2010	2011	2012	2013	
			Vintage 1	Vintage 2	Vintage 3	Vintage 4	Total
			a	b	c	d	e = sum(a-d)
Line	Total for EE						
1	AC Revenues-50%	Barnes Exhibit 1	\$ 54,046,415	\$ 53,060,687	\$ 55,694,675	\$ 49,007,754	\$ 211,809,532
2	Program Costs	Barnes Exhibit 3	35,112,011	32,010,151	36,593,077	35,593,812	139,309,051
3	Income Before Taxes	Line 1 - Line 2	18,934,404	21,050,536	19,101,598	13,413,942	72,500,481
4	Income Tax Rate		0.391760	0.391713	0.391373	0.391373	
5	Income Taxes	Line 3 * Line 4	7,417,742	8,245,769	7,475,850	5,249,855	28,389,215
6	Net Income	Line 3 - Line 5	\$ 11,516,662	\$ 12,804,768	\$ 11,625,749	\$ 8,164,087	\$ 44,111,265
Total for DSM Programs							
7	AC Revenues-75%	Barnes Exhibit 1	\$ 20,997,871	\$ 22,415,245	\$ 27,146,629	\$ 30,694,489	\$ 101,254,234
8	Program Costs	Barnes Exhibit 3	15,278,329	20,974,142	20,862,044	20,854,936	77,969,452
9	Income Before Taxes	Line 7 - Line 8	5,719,543	1,441,103	6,284,584	9,839,552	23,284,782
10	Income Tax Rate		0.391760	0.391713	0.391373	0.391373	
11	Income Taxes	Line 9 * Line 10	2,240,688	564,499	2,459,617	3,850,935	9,115,739
12	Net Income	Line 9 - Line 11	\$ 3,478,855	\$ 876,604	\$ 3,824,968	\$ 5,988,617	\$ 14,169,044
Total for SAW Programs Adjusted for DSM Cap							
13	AC Revenues	Line 1 + Line 7	\$ 75,044,287	\$ 75,475,933	\$ 82,841,304	\$ 79,702,242	\$ 313,063,766
14	Program Costs	Line 2 + Line 8	50,390,340	52,984,294	57,455,121	56,448,748	217,278,503
15	Income Before Taxes	Line 13 - Line 14	24,653,947	22,491,639	25,386,183	23,253,494	95,785,263
16	Income Tax Rate		0.391760	0.391713	0.391373	0.391373	0.391552
17	Income Taxes	Line 15 * Line 16	9,658,430	8,810,267	9,935,467	9,100,790	37,504,954
18	Net Income	Line 15 - Line 17	\$ 14,995,516	\$ 13,681,372	\$ 15,450,716	\$ 14,152,704	\$ 58,280,309
19	Allowed After-tax Return on Program Cost Investment	Line 14 * 15%					32,591,775
20	Allowed Pre-tax Return on Program Cost Investment	Line 19 /(1-Line 16)					53,565,464
21	Avoided Cost Revenues for the SAW program	Line 13					\$ 313,063,766
22	Total Program Cost Investment + Allowed Pre-tax Return	Line 14 + Line 20					270,843,966
23	Excess Pre-tax Return = Cap Adjustment	Line 21 - Line 22					\$ 42,219,799
24	Total Avoided Costs Allowed to Collect	Minimum of Line 21 and Line 22					\$ 270,843,966
25	Avoided Cost Revenue Collected (R1-5 actuals and R6 estimates)-before GRT	Miller Exhibit 3 pg. 2 / (1.001352)					266,136,697
26	Amount to be collected (returned) from (to) Customers	Line 24 - Line 25					\$ 4,707,270

Allocation of Cap Adjustment (Line 23) to Residential/Non-Residential and Vintage

27	Residential Avoided Cost Revenue Collections-Before GRT	Miller Exhibit 3 pg. 2/1.001352	\$ 38,456,310	\$ 25,587,418	\$ 35,395,980	\$ 28,941,989	\$ 128,381,698
28	Non-Residential EE Avoided Cost Revenue Collections-Before GRT	Miller Exhibit 3 pg. 2/1.001352	16,501,648	17,151,577	28,653,985	26,839,346	89,146,556
29	Non-Residential DSM Avoided Cost Revenue Collections-Before GRT	Miller Exhibit 3 pg. 2/1.001352	9,722,090	10,913,043	13,129,243	14,844,068	48,608,443
30	Total Revenue Collections		\$ 64,680,048	\$ 53,652,038	\$ 77,179,208	\$ 70,625,403	\$ 266,136,697

Relative Percentage:

31	Residential Avoided Cost Revenue	Line 27 / Line 30	59%	48%	46%	41%	48%
32	Non-Residential EE Avoided Cost Revenue	Line 28 / Line 30	26%	32%	37%	38%	33%
33	Non-Residential DSM Avoided Cost Revenue	Line 29 / Line 30	15%	20%	17%	21%	18%
34	Total Revenue	Line 30 Vintage Total / Line 30 Total Rev Collections	24%	20%	29%	27%	100%

Cap Adjustment Allocation:

35	Residential	Line 31 * Line 38 Total	\$ 6,100,691	\$ 4,059,176	\$ 5,615,202	\$ 4,591,343	\$ 20,366,412
36	Non-Residential EE	Line 32 * Line 38 Total	2,617,814	2,720,918	4,545,655	4,257,781	14,142,167
37	Non-Residential DSM	Line 33 * Line 38 Total	1,542,308	1,731,240	2,082,817	2,354,856	7,711,220
38	Total Cap Adjustment	Line 34 * Line 23	\$ 10,260,812	\$ 8,511,334	\$ 12,243,673	\$ 11,203,980	\$ 42,219,799

Duke Energy Carolinas, LLC
 EE/DSM Vintage 1 True Up for the Period June 1, 2009 to December 31, 2009
 Docket Number E-7, Sub 1073
 Allocation Factors

			MWH			
				NC	SC	Total
Line	SAW Sales Allocator					
1	NC Retail MWH Sales Allocation	Company Records	53,842,194			
2	SC Retail MWH Sales Allocation	Company Records	19,906,425			
3	Total Retail	Line 1 + Line 2	73,748,619			
Allocation 1 to state based on kWh sales						
4	NC Retail	Line 1 / Line 3	73.0077318%			
Demand Allocators						
5	Residential	Company Records	5,281,284	1,692,049	6,973,333	
6	Non Residential	Company Records	6,218,623	2,386,563	8,605,186	
7	Total	Line 5 + Line 6	11,499,907	4,078,612	15,578,519	
Allocation 2 to state based on peak demand						
8	NC Retail	Line 7, NC / Line 7 Total	73.8190004%			
Allocation 3 NC res vs non-res Peak Demand to retail system peak						
9	NC Residential	Line 5 NC/ Line 7 Total	33.9010659%			
10	NC Non-residential	Line 6 NC/ Line 7 Total	39.9179344%			

Duke Energy Carolinas, LLC
 EE/DSM Vintage 1 True Up for the Period January 1, 2010 to December 31, 2010
 Docket Number E-7, Sub 1073
 Allocation Factors

			MWH			
				NC	SC	Total
Line	SAW Sales Allocator					
1	NC Retail MWH Sales Allocation	Company Records	57,382,346			
2	SC Retail MWH Sales Allocation	Company Records	21,540,084			
3	Total Retail	Line 1 + Line 2	78,922,430			
	Allocation 1 to state based on kWh sales					
4	NC Retail	Line 1 / Line 3	72.7072722%			
	Demand Allocators					
5	Residential	Company Records	5,494,974	1,731,591	7,226,565	
6	Non Residential	Company Records	6,437,669	2,290,766	8,728,435	
7	Total	Line 5 + Line 6	11,932,643	4,022,357	15,955,000	
	Allocation 2 to state based on peak demand					
8	NC Retail	Line 7, NC / Line 7 Total	74.7893638%			
	Allocation 3 NC res vs non-res Peak Demand to retail system peak					
9	NC Residential	Line 5 NC/ Line 7 Total	34.4404513%			
10	NC Non-residential	Line 6 NC/ Line 7 Total	40.3489126%			

Duke Energy Carolinas, LLC
 EE/DSM Vintage 2 True Up for the Period January 1, 2011 to December 31, 2011
 Docket Number E-7, Sub 1073
 Allocation Factors

			MWH			
				NC	SC	Total
Line	SAW Sales Allocator					
1	NC Retail MWH Sales Allocation	Company Records	55,966,071			
2	SC Retail MWH Sales Allocation	Company Records	21,019,094			
3	Total Retail	Line 1 + Line 2	76,985,165			
Allocation 1 to state based on kWh sales						
4	NC Retail	Line 1 / Line 3	72.6972151%			
Demand Allocators						
5	Residential	Company Records	5,179,896	1,627,477	6,807,373	
6	Non Residential	Company Records	6,788,010	2,476,617	9,264,627	
7	Total	Line 5 + Line 6	11,967,906	4,104,094	16,072,000	
Allocation 2 to state based on peak demand						
8	NC Retail	Line 7, NC / Line 7 Total	74.4643230%			
Allocation 3 NC res vs non-res Peak Demand to retail system peak						
9	NC Residential	Line 5 NC/ Line 7 Total	32.2293181%			
10	NC Non-residential	Line 6 NC/ Line 7 Total	42.2350050%			

Duke Energy Carolinas, LLC
 EE/DSM Vintage 3 True Up for the Period January 1, 2012 to December 31, 2012
 Docket Number E-7, Sub 1073
 Allocation Factors

			MWH			
				NC	SC	Total
Line	SAW Sales Allocator					
1	NC Retail MWH Sales Allocation	Company Records	54,555,907			
2	SC Retail MWH Sales Allocation	Company Records	20,466,527			
3	Total Retail	Line 1 + Line 2	75,022,434			
Allocation 1 to state based on kWh sales						
4	NC Retail	Line 1 / Line 3	72.7194575%			
Demand Allocators						
5	Residential	Company Records	5,588,503	1,732,909	7,321,412	
6	Non Residential	Company Records	6,397,286	2,322,302	8,719,588	
7	Total	Line 5 + Line 6	11,985,789	4,055,211	16,041,000	
Allocation 2 to state based on peak demand						
8	NC Retail	Line 7, NC / Line 7 Total	74.7197120%			
Allocation 3 NC res vs non-res Peak Demand to retail system peak						
9	NC Residential	Line 5 NC/ Line 7 Total	34.8388691%			
10	NC Non-residential	Line 6 NC/ Line 7 Total	39.8808428%			

Duke Energy Carolinas, LLC
 EE/DSM Vintage 4 True Up for the Period January 1, 2013 to December 31, 2013
 Docket Number E-7, Sub 1073
 Allocation Factors

			MWH			
				NC	SC	Total
Line	SAW & New Mechanism Sales Allocator at Generator					
1	NC Retail MWH Sales Allocation	Company Records	58,149,791			
2	SC Retail MWH Sales Allocation	Company Records	21,551,077			
3	Total Retail	Line 1 + Line 2	79,700,868			
Allocation 1 to state based on kWh sales						
4	NC Retail	Line 1 / Line 3	72.9600473%			
Demand Allocators						
5	Residential	Company Records	5,051,778	1,502,084	6,553,862	
6	Non Residential	Company Records	6,119,392	2,175,746	8,295,138	
7	Total	Line 5 + Line 6	11,171,170	3,677,830	14,849,000	
Allocation 2 to state based on peak demand						
8	NC Retail	Line 7, NC / Line 7 Total	75.2318001%			
Allocation 3 NC res vs non-res Peak Demand to retail system peak						
9	NC Residential	Line 5 NC/ Line 7 Total	34.0209980%			
10	NC Non-residential	Line 6 NC/ Line 7 Total	41.2108021%			

Duke Energy Carolinas, LLC
Vintage 2014-Vintage 2016 Estimate Allocation for the Period January 1, 2014 to December 31, 2016
Docket Number E-7, Sub 1073
Allocation Factors

			MWH			
				NC	SC	Total
Line	SAW & New Mechanism Sales Allocator at Generator					
1	NC Retail MWH Sales Allocation	Company Records	58,149,791			
2	SC Retail MWH Sales Allocation	Company Records	21,551,077			
3	Total Retail	Line 1 + Line 2	79,700,868			
Allocation 1 to state based on kWh sales						
4	NC Retail	Line 1 / Line 3	72.9600473%			
Demand Allocators						
5	Residential	Company Records	5,051,778	1,502,084	6,553,862	
6	Non Residential	Company Records	6,119,392	2,175,746	8,295,138	
7	Total	Line 5 + Line 6	11,171,170	3,677,830	14,849,000	
Allocation 2 to state based on peak demand						
8	NC Retail	Line 7, NC / Line 7 Total	75.2318001%			
Allocation 3 NC res vs non-res Peak Demand to retail system peak						
9	NC Residential	Line 5 NC/ Line 7 Total	34.0209980%			
10	NC Non-residential	Line 6 NC/ Line 7 Total	41.2108021%			

NOTE: These allocation factors are used for estimated vintages 2014-2016 based on the latest Cost of Service Study filed in 2014.

Duke Energy Carolinas, LLC
DSM/EE Cost Recovery Rider 7
Docket Number E-7 Sub 1073
Forecasted kWh Sales for Rate Period for SAW

		Revised Estimate						
		Total 2015	Total 2016					
Fall 2014 Sales Forecast - kWhs								
North Carolina Retail:								
Line								
1	Residential	21,388,729,000	21,674,738,000					
2	Non-Residential	35,780,312,000	36,268,911,000					
3	Total Retail	57,169,041,000	57,943,649,000					
Opt Out Sales								
		2014 kwh usage						
	Vintage 1 Opt Out							
4	EE	13,296,546,224						
5	DSM	13,784,407,762						
	Vintage 2 Opt Out							
6	EE	12,973,155,813						
7	DSM	13,318,680,372						
	Vintage 3 Opt Out							
8	EE	12,711,971,239						
9	DSM	13,168,690,059						
	Vintage 4 Opt Out							
10	EE	12,302,899,768						
11	DSM	13,053,216,824						
Non-Residential Forecast Sales Less Opt Out		(for use in Rider 7 Rate Components)						
		V1 EE Rate	V1 DSM Rate	V2 EE Rate	V2 DSM Rate	V3 EE Rate	V3 DSM Rate	V4 EE Rate
		Components	Components	Components	Components	Components	Components	Components
12	Total Non-Residential	36,268,911,000	36,268,911,000	36,268,911,000	36,268,911,000	36,268,911,000	36,268,911,000	36,268,911,000
13	Less V1 EE Opt Out	13,296,546,224						
14	Less V1 DSM Opt Out		13,784,407,762					
15	Less V2 EE Opt Out			12,973,155,813				
16	Less V2 DSM Opt Out				13,318,680,372			
17	Less V3 EE Opt Out					12,711,971,239		
18	Less V3 DSM Opt Out						13,168,690,059	
19	Less V4 EE Opt Out							12,302,899,768
20	Less V4 DSM Opt Out							13,053,216,824
21	Sales for Rider Calculation	22,972,364,776	22,484,503,238	23,295,755,187	22,950,230,628	23,556,939,761	23,100,220,941	23,966,011,232
Non-Residential Forecast Sales Less Opt Out		(for use in updated 2015 Revenue estimate)						
		V1 EE Rate	V1 DSM Rate	V2 EE Rate	V2 DSM Rate	V3 EE Rate	V3 DSM Rate	V4 EE Rate
		Components	Components	Components	Components	Components	Components	Components
22	Total Non-Residential	35,780,312,000	35,780,312,000	35,780,312,000	35,780,312,000	35,780,312,000	35,780,312,000	35,780,312,000
23	Less V1 EE Opt Out	13,296,546,224						
24	Less V1 DSM Opt Out		13,784,407,762					
25	Less V2 EE Opt Out			12,973,155,813				
26	Less V2 DSM Opt Out				13,318,680,372			
27	Less V3 EE Opt Out					12,711,971,239		
28	Less V3 DSM Opt Out						13,168,690,059	
29	Less V4 EE Opt Out							12,302,899,768
30	Less V4 DSM Opt Out							13,053,216,824
31	Sales for Rider Calculation	22,483,765,776	21,995,904,238	22,807,156,187	22,461,631,628	23,068,340,761	22,611,621,941	23,477,412,232

Duke Energy Carolinas, LLC
DSM/EE Cost Recovery Rider 7
Docket Number E-7 Sub 1073
Forecasted kWh Sales for Rate Period for Vintage Years 2014-2016

		Total 2015	Total 2016			
Fall 2014 Sales Forecast - kWhs						
North Carolina Retail:						
Line						
1	Residential	21,388,729,000	21,674,738,000			
2	Non-Residential	35,046,050,545	35,534,649,545			
3	Total Retail	56,434,779,545	57,209,387,545			
Opt Out Sales						
		2014 kWh Usage				
	Vintage 2014 Estimated Opt Out					
4	EE	11,710,358,468				
5	DSM	12,396,526,283				
	Vintage 2015 Estimated Opt Out					
6	EE	11,780,971,318				
7	DSM	12,451,913,984				
	Vintage 2016 Estimated Opt Out					
8	EE	11,780,971,318				
9	DSM	12,451,913,984				
Non-Residential Forecast Sales Less Opt Out (to be used for Rider 7 Rate Components)						
		2014 EE Rate Components	2014 DSM Rate Components	2015 EE Rate Components	2015 DSM Rate Components	2016 EE Rate Components
10	Total Non-Residential	35,534,649,545	35,534,649,545	35,534,649,545	35,534,649,545	35,534,649,545
11	Less V2014 Estimated Opt Out	11,710,358,468				
12	Less V2014 Estimated DSM Opt Out		12,396,526,283			
13	Less V2015 Estimated EE Opt Out			11,780,971,318		
14	Less V2015 Estimated DSM Opt Out				12,451,913,984	
15	Less V2016 Estimated EE Opt Out					11,780,971,318
16	Less V2016 Estimated DSM Opt Out					12,451,913,984
17	Sales for Rider Calculation	23,824,291,077	23,138,123,262	23,753,678,227	23,082,735,561	23,753,678,227
Non-Residential Forecast Sales Less Opt Out (to be used for updated Rider 6 revenue estimate)						
		2014 EE Rate Components	2014 DSM Rate Components	2015 EE Rate Components	2015 DSM Rate Components	2016 EE Rate Components
18	Total Non-Residential	35,046,050,545	35,046,050,545	35,046,050,545	35,046,050,545	35,046,050,545
19	Less V2014 Estimated Opt Out	11,710,358,468				
20	Less V2014 Estimated DSM Opt Out		12,396,526,283			
21	Less V2015 Estimated EE Opt Out			11,780,971,318		
22	Less V2015 Estimated DSM Opt Out				12,451,913,984	
23	Less V2016 Estimated EE Opt Out					11,780,971,318
24	Less V2016 Estimated DSM Opt Out					12,451,913,984
25	Sales for Rider Calculation	23,335,692,077	22,649,524,262	23,265,079,227	22,594,136,561	23,265,079,227

RIDER EE (NC)
ENERGY EFFICIENCY RIDERAPPLICABILITY (North Carolina Only)

Service supplied under the Company's rate schedules is subject to approved adjustments for new energy efficiency and demand-side 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. Cost recovery under Rider EE consists of two four-year term programs, years 2009 – 2013 and years 2014 – 2017 as outlined separately below. This rider applies to service supplied under all rate schedules for program years 2009-2013 but does not apply to Rate Schedules OL, FL, PL, GL, and NL for program years 2014-2017.

I. PROGRAM YEARS 2009-2013GENERAL PROVISIONS

This Rider will recover the cost of new energy efficiency and demand-side management programs, using the method approved by the NCUC, for programs implemented over a four-year period (*i.e.*, comprising four 12-month program years or "Vintage Years"). In each year this Rider will include components to recover revenue requirements related to demand-side management and energy efficiency programs implemented in that Vintage Year, as well as net lost revenues resulting from the energy efficiency programs. Net lost revenues are revenue losses, net of both marginal costs avoided at the time of the lost kilowatt hour sale(s) and increases in revenues resulting from any activity by the Company's public utility operations that cause a customer to increase demand or energy consumption. Net lost revenues associated with each Vintage Year will be recovered for 36 months upon implementation, except that the recovery of net lost revenues will end upon implementation of new rates approved by the Commission in a general rate case or comparable proceeding to the extent that rates are set in a rate case for vintages up to that point. To recover net lost revenues for programs implemented in years 3 and 4, the Rider will continue beyond the four-year period.

Revenue requirements will be determined on a system basis and allocated to North Carolina retail customers based on the North Carolina retail contribution to system retail peak demand for demand side management programs and North Carolina retail contribution to system retail kWh sales for energy efficiency programs. Residential customer classes will pay for residential programs and nonresidential customer classes will pay for nonresidential programs through methods found appropriate by the Commission for demand-side management and energy efficiency programs, respectively. All allocation factors will be based on the Company's most recently filed cost of service study utilizing the allocation method approved by NCUC in the Company's most recent general rate proceeding and will exclude the amounts related to customers that elect to opt out of this Rider.

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 true-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.

Participation true-ups: After the completion of the first Vintage Year, the Rider will include a true-up of previous Rider amounts billed to reflect actual customer participation in the programs.

Measurement and verification true-up: In the seventh year a final true-up will be based on changes in participation combined with actual verified kW and kWh savings.

Earnings cap true-up: In the seventh year, a true up will adjust customer bills, if applicable, to refund with interest, amounts collected through the Rider in excess of the earnings cap, in accordance with the following levels of achievement of actual energy and peak demand reductions and allowed return on investment.

<u>Percentage Actual Target Achievement</u>	<u>Return on Investment Cap on Program Costs Percentage</u>
>=90%	15%
80% to 89%	12%
60% to 79%	9%
< 60%	5%

RIDER EE (NC)
ENERGY EFFICIENCY RIDERDETERMINATION OF ENERGY EFFICIENCY RIDER ADJUSTMENT

Energy Efficiency Adjustments (EEA) will be applied to the energy in kilowatt hours (kWh) billed of all rate schedules for each vintage as determined by the following formula, adjusted as appropriate for the time value of money:

EEA Residential (expressed as cents per kWh) =

(Residential Avoided Cost Revenue Requirement + Residential Net Lost Revenues) / Forecasted Residential kWh Sales for the Rider billing period

Where

Residential Avoided Cost Revenue Requirement = (Residential Demand-Side Management Program Avoided Cost X 75%) + (Residential Energy Efficiency Program Avoided Cost X 50%)

EEA Nonresidential (expressed as cents per kWh) =

(Nonresidential Avoided Cost Revenue Requirement + Nonresidential Net Lost Revenues) / Forecasted Non residential kWh Sales for the Rider billing period

Where

Nonresidential Avoided Cost Revenue Requirement = (Nonresidential Demand-Side Management Program Avoided Cost X 75%) + (Nonresidential Energy Efficiency Program Avoided Cost X 50%)

II. PROGRAM YEARS 2014-2017GENERAL PROVISIONS

This Rider will recover the cost of new energy efficiency and demand-side management programs, using the method approved by the NCUC, for programs implemented over a four-year period (*i.e.*, comprising four 12-month program years or "Vintage Years").

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 NONRESIDENTIAL 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, or has plans for implementing alternative energy efficiency measures in accordance with quantifiable goals.
- b. Electric service to the Customer must be provided under:
 1. 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.
 2. 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.

RIDER EE (NC)
ENERGY EFFICIENCY RIDER

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).
- 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 nonresidential customer that has not participated in an energy efficiency or demand-side management program may opt out during any enrollment period, and have 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, 2016 through December 31, 2016 including utility assessments are as follows:

<u>Residential</u>	Vintage 1, 2, 3,4, and 2014 ¹	0.0260¢ per kWh
	Vintage 2014 ² , 2015, 2016	<u>0.3361¢ per kWh</u>
	Total Residential Rate	0.3621¢ per kWh
<u>Nonresidential</u>		
	Vintage 1	
	Energy Efficiency	0.0027¢ per kWh
	Demand Side Management	0.0017¢ per kWh
	Vintage 2	
	Energy Efficiency	0.0148¢ per kWh
	Demand Side Management	0.0019¢ per kWh
	Vintage 3	
	Energy Efficiency	0.0261¢ per kWh
	Demand Side Management	(0.0017)¢ per kWh

RIDER EE (NC)
ENERGY EFFICIENCY RIDER

Vintage 4		
Energy Efficiency		0.0326¢ per kWh
Demand Side Management		0.0005¢ per kWh
Vintage 2014 ³		
Energy Efficiency		0.0406¢ per kWh
Demand Side Management		(0.0044)¢ per kWh
Vintage 2015 ³		
Energy Efficiency		0.0345¢ per kWh
Demand Side Management		NA
Vintage 2016 ³		
Energy Efficiency		0.2164¢ per kWh
Demand Side Management		0.0709¢ per kWh
Total Nonresidential		0.4366¢ per kWh

¹ Includes the true-up of program costs, shared savings and lost revenues from Year 1 of Vintage 2014² Includes the estimate of Year 3 lost revenues of Vintage 2014³ Not Applicable to Rate Schedules OL, FL, PL, GL, and NL

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.

BEFORE THE NORTH CAROLINA UTILITIES COMMISSION

DOCKET NO. E-7, SUB 1073

In the Matter of)
Application of Duke Energy Carolinas, LLC)
for Approval of Demand-Side Management)
and Energy Efficiency Cost Recovery Rider)
Pursuant to N.C. Gen. Stat. § 62-133.9 and)
Commission Rule R8-69)

SUPPLEMENTAL EXHIBITS

OF

CONITSHA B. BARNES

Duke Energy Carolinas, LLC
EE Vintage 1 (June 1, 2009 - December 31, 2009)
Docket Number E-7, Sub 1073
Load Impacts and Avoided Cost Revenue Requirements by Program

		A	B	C	D		
					NC Residential Avoided Costs		
					A * C		
Residential Programs							
Line	EE Programs (at 50% Avoided Cost)	System kW Reduction - Summer Peak	System Energy Reduction (kWh)	System Avoided Cost Revenue Requirement @50%	System Avoided Cost @ 100%	NC Retail kWh Sales Allocation Factor (Miller Exhibit 5, Pg. 1)	
1	Residential Energy Assessments	1,057	8,369,462	\$ 1,106,481	\$ 2,212,962	73.0077318%	\$ 807,817
2	Smart Saver® for Residential Customers	1,592	12,547,819	1,940,744	3,881,488	73.0077318%	1,416,893
3	Low Income Energy Efficiency and Weatherization Assistance	143	1,354,096	141,337	282,675	73.0077318%	103,187
4	Energy Efficiency Education Program for Schools	56	303,763	55,373	110,746	73.0077318%	40,427
5	Total for Residential Conservation Programs	2,849	22,575,141	\$ 3,243,936	\$ 6,487,871		\$ 2,368,324
				System Avoided Cost Revenue Requirement @75%	System Avoided Cost @ 100%	NC Residential Peak Demand Allocation Factor (Miller Exhibit 5, Pg. 1)	A6 * C6
6	Total DSM Programs (at 75% Avoided Cost)	116,172		\$ 4,655,124	\$ 6,206,832	33.9010659%	\$ 1,578,137
							NC Non-Residential Avoided Costs
							A * C
Non-Residential Programs							
EE Programs (at 50% Avoided Cost)							
7	Smart Saver® for Non-Residential Customers Lighting	5,267	28,004,505	\$ 5,247,545	\$ 10,495,089	73.0077318%	\$ 3,831,113
8	Smart Saver® for Non-Residential Customers Motors	124	624,404	183,846	367,691	73.0077318%	134,222
9	Smart Saver® for Non-Residential Customers - Other Prescriptive (Process Equipment)	-	-	-	-	73.0077318%	-
10	Smart Saver® for Non-Residential Customers - Energy Star Food Service Products	46	257,738	67,096	134,192	73.0077318%	48,985
11	Smart Saver® for Non-Residential Customers - HVAC	267	765,127	295,533	591,065	73.0077318%	215,762
12	Smart Saver® for Non-Residential Customers - Custom Rebate	19	232,797	30,165	60,330	73.0077318%	22,023
13	Total for Non-Residential Conservation Programs	5,724	29,884,571	\$ 5,824,184	\$ 11,648,368		\$ 4,252,105
				System Avoided Cost Revenue Requirement @75%	System Avoided Cost @ 100%	NC Non-Residential Peak Demand Allocation Factor (Miller Exhibit 5, Pg. 1)	A14* C14
14	Total DSM Programs (at 75% Avoided Cost)	116,172		\$ 4,655,124	\$ 6,206,832	39.9179344%	\$ 1,858,229
Total DSM Program Breakdown							A17* C17
15	Power Manager (Residential)	57,494	-	\$ 3,082,269	\$ 4,109,692		
16	Power Share (Non-Residential)	58,678	-	1,572,855	2,097,140		
17	Total DSM	116,172	-	\$ 4,655,124	\$ 6,206,833	73.8190004%	\$ 3,436,366

(1) Total System DSM programs allocated to Residential and Non-Residential based on contribution to retail system peak
Note: Schedule may not foot due to rounding

Duke Energy Carolinas, LLC
EE Vintage 1 (January 1, 2010 - December 31, 2010)
Docket Number E-7, Sub 1073
Load Impacts and Avoided Cost Revenue Requirements by Program

		A	B	C	D		
					NC Residential Avoided Costs		
		System kW Reduction - Summer Peak	System Energy Reduction (kWh)	System Avoided Cost Revenue Requirement @50%	System Avoided Cost @ 100%	NC Retail kWh Sales Allocation Factor (Miller Exhibit 5, Pg. 2)	A * C
Residential Programs							
Line	EE Programs (at 50% Avoided Cost)						
1	Residential Energy Assessments	1,563	11,178,033	\$ 1,549,012	\$ 3,098,024	72.7072722%	\$ 1,126,244
2	Smart Saver® for Residential Customers	41,497	381,777,103	42,560,548	85,121,096	72.7072722%	30,944,613
3	Low Income Energy Efficiency and Weatherization Assistance	599	5,663,263	591,118	1,182,236	72.7072722%	429,786
4	Energy Efficiency Education Program for Schools	469	2,526,416	460,540	921,080	72.7072722%	334,846
5	Residential Retrofit Pilot	-	-	-	-	72.7072722%	-
6	Home Energy Comparison Report (My Home Energy Report)	159	854,645	24,503	49,006	72.7072722%	17,815
7	Total for Residential Conservation Programs	44,287	401,999,460	\$ 45,185,721	\$ 90,371,442		\$ 32,853,305
				System Avoided Cost Revenue Requirement @75%	System Avoided Cost @ 100%	NC Residential Peak Demand Allocation Factor (Miller Exhibit 5, Pg. 2)	A8 * C8
8	Total DSM Programs (at 75% Avoided Cost)	438,636		\$ 23,481,287	\$ 31,308,383	34.4404513%	\$ 8,087,061
							NC Non-Residential Avoided Costs
		System kW Reduction - Summer Peak	System Energy Reduction (kWh)	System Avoided Cost Revenue Requirement @50%	System Avoided Cost @ 100%	NC Retail kWh Sales Allocation Factor (Miller Exhibit 5, Pg. 2)	A * C
Non-Residential Programs							
EE Programs (at 50% Avoided Cost)							
9	Smart Saver® for Non-Residential Customers Lighting	13,466	68,411,677	\$ 13,710,093	\$ 27,420,185	72.7072722%	\$ 9,968,234
10	Smart Saver® for Non-Residential Customers Motors	533	2,724,749	798,480	1,596,959	72.7072722%	580,553
11	Smart Saver® for Non-Residential Customers - Other Prescriptive (Process Equipment)	0	380	44	87	72.7072722%	32
12	Smart Saver® for Non-Residential Customers - Energy Star Food Service Products	155	788,310	191,588	383,176	72.7072722%	139,298
13	Smart Saver® for Non-Residential Customers - HVAC	1,586	3,964,553	1,734,583	3,469,166	72.7072722%	1,261,168
14	Smart Saver® for Non-Residential Customers - Custom Rebate	2,716	21,205,380	3,608,163	7,216,325	72.7072722%	2,623,397
15	Total for Non-Residential Conservation Programs	18,456	97,095,050	\$ 20,042,949	\$ 40,085,899		\$ 14,572,682
				System Avoided Cost Revenue Requirement @75%	System Avoided Cost @ 100%	NC Non-Residential Peak Demand Allocation Factor (Miller Exhibit 5, Pg. 2)	A16* C16
16	Total DSM Programs (at 75% Avoided Cost)	438,636		\$ 23,481,287	\$ 31,308,383	40.3489126%	\$ 9,474,444
				System Avoided Cost Revenue Requirement @75%	System Avoided Cost @ 100%	NC Retail Peak Demand Allocation Factor (Miller Exhibit 5, Pg.2)	A19* C19
Total DSM Program Breakdown							
17	Power Manager (Residential)	228,421	-	\$ 12,245,662	\$ 16,327,550		
18	Power Share (Non-Residential)	210,215	-	11,235,625	14,980,833		
19	Total DSM	438,636	-	\$ 23,481,287	\$ 31,308,383	74.7893638%	\$ 17,561,505

(1) Total System DSM programs allocated to Residential and Non-Residential based on contribution to retail system peak
Note: Schedule may not foot due to rounding

Duke Energy Carolinas, LLC
EE Vintage 2 (January 1, 2011 - December 31, 2011)
Docket Number E-7, Sub 1073
Load Impacts and Avoided Cost Revenue Requirements by Program

	A	B	C	D
				NC Residential Avoided Costs
	System kW Reduction - Summer Peak	System Energy Reduction (kWh)	System Avoided Cost Revenue Requirement @ 50%	System Avoided Cost @ 100% NC Retail kWh Sales Allocation Factor (Miller Exhibit 5, Pg. 3) A * C
Line EE Programs (at 50% Avoided Cost)				
1 Residential Energy Assessments	1,306	9,227,946	\$ 1,314,136	\$ 2,628,271 72.6972151% \$ 955,340
2 Smart Saver® for Residential Customers	39,712	367,409,449	40,319,118	80,638,236 72.6972151% 29,310,876
3 Low Income Energy Efficiency and Weatherization Assistance	52	488,949	50,792	101,583 72.6972151% 36,924
4 Energy Efficiency Education Program for Schools	262	1,413,208	265,292	530,585 72.6972151% 192,860
5 Residential Retrofit Pilot	21	126,564	40,936	81,871 72.6972151% 29,759
6 Home Energy Comparison Report (My Home Energy Report)	66	356,218	30,711	61,423 72.6972151% 22,326
7 Total for Residential Conservation Programs	41,419	379,022,334	\$ 42,020,984	\$ 84,041,969 30,548,085
			System Avoided Cost Revenue Requirement @ 75%	System Avoided Cost @ 100% NC Residential Peak Demand Allocation Factor (Miller Exhibit 5, Pg. 3) A8 * C8
8 Total DSM Programs (at 75% Avoided Cost)	548,335		\$ 30,101,993	\$ 40,135,991 32.2293181% \$ 9,701,667
			System kW Reduction - Summer Peak	System Energy Reduction (kWh) NC Non-Residential Avoided Costs A * C
Non-Residential Programs				
EE Programs (at 50% Avoided Cost)				
9 Smart Saver® for Non-Residential Customers Lighting	11,329	64,190,217	\$ 13,497,639	\$ 26,995,278 72.6972151% \$ 9,812,407
10 Smart Saver® for Non-Residential Customers Motors	1,107	5,750,908	1,286,403	2,572,806 72.6972151% 935,179
11 Smart Saver® for Non-Residential Customers - Other Prescriptive (Process Equipment)	82	503,823	54,884	109,767 72.6972151% 39,899
12 Smart Saver® for Non-Residential Customers - Energy Star Food Service Products	184	1,012,402	263,359	526,717 72.6972151% 191,454
13 Smart Saver® for Non-Residential Customers - HVAC	1,869	4,987,231	2,094,930	4,189,860 72.6972151% 1,522,956
14 Smart Saver® for Non-Residential Customers - Custom Rebate	6,585	55,974,704	11,605,896	23,211,792 72.6972151% 8,437,163
15 Smart Energy Now	692	21,876,936	2,164,517	4,329,034 72.6972151% 1,573,544
16 Total for Non-Residential Conservation Programs	21,848	154,296,221	\$ 30,967,627	\$ 61,935,253 22,512,602
			System Avoided Cost Revenue Requirement @ 75%	System Avoided Cost @ 100% NC Non-Residential Peak Demand Allocation Factor (Miller Exhibit 5, Pg. 3) A17* C17
17 Total DSM Programs (at 75% Avoided Cost)	548,335		\$ 30,101,993	\$ 40,135,991 42.2350050% \$ 12,713,578
			System Avoided Cost Revenue Requirement @75%	System Avoided Cost @ 100% NC Retail Peak Demand Allocation Factor (Miller Exhibit 5, Pg.3) A20* C20
Total DSM Program Breakdown				
18 Power Manager (Residential)	226,935	-	\$ 12,470,132	\$ 16,626,843
19 Power Share (Non-Residential)	321,400	-	\$ 17,631,861	\$ 23,509,148
20 Total DSM	548,335	-	\$ 30,101,993	\$ 40,135,991 74.4643230% 22,415,245

(1) Total System DSM programs allocated to Residential and Non-Residential based on contribution to retail system peak
Note: Schedule may not foot due to rounding

**Duke Energy Carolinas, LLC
EE Vintage 3 (January 1, 2012 - December 31, 2012)
Docket Number E-7, Sub 1073
Load Impacts and Avoided Cost Revenue Requirements by Program**

		A	B	C	D		
					NC Residential Avoided Costs		
		System kW Reduction - Summer Peak	System Energy Reduction (kWh)	System Avoided Cost Revenue Requirement @ 50%	System Avoided Cost @ 100%	NC Retail kWh Sales Allocation Factor (Miller Exhibit 5, Pg. 4)	A * C
Residential Programs							
EE Programs (at 50% Avoided Cost)							
1	Appliance Recycling	143	1,038,548	\$ 145,177	\$ 290,354	72.7194575%	\$ 105,572
2	Residential Energy Assessments	1,607	10,486,549	1,773,940	3,547,879	72.7194575%	1,289,999
3	Smart Saver® for Residential Customers	24,247	224,336,833	25,851,451	51,702,902	72.7194575%	18,799,035
4	Low Income Energy Efficiency and Weatherization Assistance	-	-	-	-	72.7194575%	-
5	Energy Efficiency Education Program for Schools	1,748	9,422,807	1,781,282	3,562,564	72.7194575%	1,295,338
6	Residential Retrofit Pilot	47	283,678	94,987	189,973	72.7194575%	69,074
7	Home Energy Comparison Report (My Home Energy Report)	10,461	49,339,464	1,428,665	2,857,330	72.7194575%	1,038,918
8	Total for Residential Conservation Programs	38,253	294,907,880	\$ 31,075,501	\$ 62,151,002		\$ 22,597,936
				System Avoided Cost Revenue Requirement @ 75%	System Avoided Cost @ 100%	NC Residential Peak Demand Allocation Factor (Miller Exhibit 5, Pg. 4)	A9 * C9
9	Total DSM Programs (at 75% Avoided Cost)	645,443		\$ 36,331,282	\$ 48,441,710	34.8388691%	\$ 12,657,408
D							
				System Avoided Cost Revenue Requirement @ 50%	System Avoided Cost @ 100%	NC Retail kWh Sales Allocation Factor (Miller Exhibit 5, Pg. 4)	A * C
Non-Residential Programs							
EE Programs (at 50% Avoided Cost)							
10	Smart Saver® for Non-Residential Customers Lighting	12,689	73,807,092	\$ 15,930,066	\$ 31,860,133	72.7194575%	\$ 11,584,258
11	Smart Saver® for Non-Residential Customers Motors	1,132	5,967,650	1,386,295	2,772,590	72.7194575%	1,008,106
12	Smart Saver® for Non-Residential Customers - Other Prescriptive (Process Equipment)	-	-	-	-	72.7194575%	-
13	Smart Saver® for Non-Residential Customers - Energy Star Food Service Products	366	1,950,854	513,211	1,026,423	72.7194575%	373,205
14	Smart Saver® for Non-Residential Customers - HVAC	1,716	4,120,481	2,004,592	4,009,184	72.7194575%	1,457,728
15	Smart Saver® for Non-Residential Customers - Custom Rebate	15,371	113,380,706	24,480,159	48,960,318	72.7194575%	17,801,839
16	Smart Energy Now	386	11,795,664	1,198,584	2,397,168	72.7194575%	871,604
17	Total for Non-Residential Conservation Programs	31,660	211,022,446	\$ 45,512,908	\$ 91,025,815		\$ 33,096,739
				System Avoided Cost Revenue Requirement @ 75%	System Avoided Cost @ 100%	NC Non-Residential Peak Demand Allocation Factor (Miller Exhibit 5, Pg. 4)	A18* C18
18	Total DSM Programs (at 75% Avoided Cost)	645,443		\$ 36,331,282	\$ 48,441,710	39.8808428%	\$ 14,489,221
				System Avoided Cost Revenue Requirement @75%	System Avoided Cost @ 100%	NC Retail Peak Demand Allocation Factor (Miller Exhibit 5, Pg.4)	A21* C21
19	Power Manager (Residential)	268,706	-	\$ 15,134,607	\$ 20,179,477		
20	Power Share (Non-Residential)	376,736	-	\$ 21,196,675	\$ 28,262,233		
21	Total DSM	645,443	-	\$ 36,331,282	\$ 48,441,710	74.7197120%	\$ 27,146,630

(1) Total System DSM programs allocated to Residential and Non-Residential based on contribution to retail system peak
Note: Schedule may not foot due to rounding

Duke Energy Carolinas, LLC
EE Vintage 4 (January 1, 2013 - December 31, 2013)
Docket Number E-7, Sub 1073
Load Impacts and Avoided Cost Revenue Requirements by Program

		A	B	C	D		
					NC Residential Avoided Costs		
		System kW Reduction - Summer Peak	System Energy Reduction (kWh)	System Avoided Cost Revenue Requirement @ 50%	System Avoided Cost @ 100%	NC Retail kWh Sales Allocation Factor (Miller Exhibit 5, Pg. 5)	A * C
Residential Programs							
EE Programs (at 50% Avoided Cost)							
1	Appliance Recycling	668	4,854,769	\$ 716,869	\$ 1,433,738	72.9600473%	\$ 523,028
2	Residential Energy Assessments	1,426	7,688,605	2,022,135	4,044,269	72.9600473%	1,475,350
3	Smart Saver® for Residential Customers	13,348	122,828,597	15,299,257	30,598,514	72.9600473%	11,162,345
4	Low Income Energy Efficiency and Weatherization Assistance	212	1,141,122	209,005	418,010	72.9600473%	152,490
5	Residential Neighborhood Program		-	-	-	72.9600473%	-
6	Energy Efficiency Education Program for Schools	1,011	5,450,099	998,224	1,996,448	72.9600473%	728,305
7	Home Energy Comparison Report (My Home Energy Report)	23,002	108,666,008	4,695,898	9,391,796	72.9600473%	3,426,129
8	Total for Residential Conservation Programs	39,667	250,629,200	\$ 23,941,388	\$ 47,882,775		\$ 17,467,647
				System Avoided Cost Revenue Requirement @ 75%	System Avoided Cost @ 100%	NC Residential Peak Demand Allocation Factor (Miller Exhibit 5, Pg. 5)	A * C
9	Total DSM Programs (at 75% Avoided Cost)	707,025		\$ 40,799,886	\$ 54,399,848	34.0209980%	\$ 13,880,528
				System Avoided Cost Revenue Requirement @ 50%	System Avoided Cost @ 100%	NC Retail kWh Sales Allocation Factor (Miller Exhibit 5, Pg. 5)	A * C
Non-Residential Programs							
EE Programs (at 50% Avoided Cost)							
10	Smart Saver® for Non-Residential Customers Lighting	13,096	76,690,274	\$ 16,327,527	\$ 32,655,054	72.9600473%	\$ 11,912,571
11	Smart Saver® for Non-Residential Customers Motors	1,570	8,065,178	1,965,520	3,931,040	72.9600473%	1,434,044
12	Smart Saver® for Non-Residential Customers - Other Prescriptive (Process Equipment)	32	133,175	44,887	89,774	72.9600473%	32,750
13	Smart Saver® for Non-Residential Customers - Energy Star Food Service Products	209	1,132,425	335,181	670,363	72.9600473%	244,549
14	Smart Saver® for Non-Residential Customers - HVAC	1,912	5,081,170	2,277,985	4,555,969	72.9600473%	1,662,019
15	Smart Saver® for Non-Residential Customers - Custom Rebate	13,250	100,660,054	22,278,186	44,556,371	72.9600473%	16,254,175
16	Total for Non-Residential Conservation Programs	30,070	191,762,276	\$ 43,229,285	\$ 86,458,571		\$ 31,540,107
				System Avoided Cost Revenue Requirement @ 75%	System Avoided Cost @ 100%	NC Non-Residential Peak Demand Allocation Factor (Miller Exhibit 5, Pg. 5)	A * C
17	Total DSM Programs (at 75% Avoided Cost)	707,025		\$ 40,799,886	\$ 54,399,848	41.2108021%	\$ 16,813,960
				System Avoided Cost Revenue Requirement @75%	System Avoided Cost @ 100%	NC Retail Peak Demand Allocation Factor (Miller Exhibit 5, Pg.5)	A* C
Total DSM Program Breakdown							
18	Power Manager (Residential)	328,993	-	\$ 18,993,470	\$ 25,324,627		
19	Power Share (Non-Residential)	378,032	-	\$ 21,806,416	\$ 29,075,221		
20	Total DSM	707,025	-	\$ 40,799,886	\$ 54,399,848	75.2318001%	\$ 30,694,489

(1) Total System DSM programs allocated to Residential and Non-Residential based on contribution to retail system peak
Note: Schedule may not foot due to rounding

Duke Energy Carolinas, LLC
Vintage 2014 True-up for January 1, 2014 to December 31, 2014
Docket Number E-7, Sub 1073
Load Impacts and Estimated Revenue Requirements, excluding Lost Revenue by Program

Residential Programs	System kW Reduction - Summer Peak	System Energy Reduction (kWh)	A	B	C =(A-B * 11.5%)	D= B+C	E	NC Residential Revenue Requirement
			System NPV of Avoided Cost	System Cost	Earned Utility Incentive	System Cost Plus Incentive	NC Retail kWh Sales Allocation Factor (Miller Exhibit 5 pg. 6)	
EE Programs								D * E
1 Appliance Recycling Program	709	5,100,458	\$ 1,763,411	\$ 1,515,867	\$ 28,468	\$ 1,544,335	72.9600473%	\$ 1,126,747
2 Energy Efficiency Education	746	7,098,145	5,157,345	1,963,153	367,332	2,330,485	72.9600473%	1,700,323
3 Energy Efficient Appliances and Devices	18,424	167,039,197	50,838,876	14,738,129	4,151,586	18,889,715	72.9600473%	13,781,945
4 HVAC Energy Efficiency	2,509	4,526,177	7,061,500	4,786,807	261,590	5,048,397	72.9600473%	3,683,313
5 Income Qualified Energy Efficiency and Weatherization Assistance	792	3,374,813	1,675,463	1,917,192		1,917,192	72.9600473%	1,398,784
6 Multi-Family Energy Efficiency	993	11,588,887	5,610,043	1,442,533	479,264	1,921,797	72.9600473%	1,402,144
7 Energy Assessments	1,312	10,599,335	12,827,575	3,605,737	1,060,511	4,666,248	72.9600473%	3,404,497
8 Subtotal	25,485	209,327,011	\$ 84,934,213	\$ 29,969,419	\$ 6,348,750	\$ 36,318,168		\$ 26,497,753
9 My Home Energy Report (1)	38,579	142,881,676	12,166,183	8,285,066	446,328	8,731,394	72.9600473%	6,370,430
10 Total for Residential Energy Efficiency Programs	64,064	352,208,687	\$ 97,100,396	\$ 38,254,485	\$ 6,795,079	\$ 45,049,563		\$ 32,868,183
								NC Residential Peak Demand Allocation Factor (Miller Exhibit 5 pg. 6)
								D11* E11
11 Total DSM Programs (2)	785,740	-	113,683,464	\$ 31,183,185	\$ 9,487,532	\$ 40,670,718	34.0209980%	\$ 13,836,584
12 Total Residential Revenue Requirement								\$ 46,704,767
								NC Non-Residential Revenue Requirement
								D * E
Non-Residential Programs								
EE Programs								
13 Non Residential Smart Saver Custom Energy Assessments	1,504	9,128,218	\$ 6,858,644	\$ 1,458,195	\$ 621,052	\$ 2,079,247	72.9600473%	\$ 1,517,019
14 Non Residential Smart Saver Custom	9,392	78,157,513	49,908,871	8,136,712	4,803,798	12,940,510	72.9600473%	9,441,402
15 Energy Management Information Services	-	-	-	74,855	(8,608)	66,247	72.9600473%	48,334
16 Non Residential Smart Saver Energy Efficient Food Service Products	164	2,340,975	1,489,862	199,350	148,409	347,759	72.9600473%	253,725
17 Non Residential Smart Saver Energy Efficient HVAC Products	1,252	4,669,724	5,224,765	815,339	507,084	1,322,423	72.9600473%	964,840
18 Non Residential Smart Saver Energy Efficient Lighting Products	12,290	70,310,751	40,866,018	6,727,675	3,925,909	10,653,584	72.9600473%	7,772,860
19 Non Residential Smart Saver Energy Efficient Pumps and Drives Products	787	6,487,067	3,629,866	584,874	350,174	935,048	72.9600473%	682,212
20 Non Residential Smart Saver Energy Efficient IT Products	15	124,237	35,580	25,730	1,133	26,863	72.9600473%	19,599
21 Non Residential Smart Saver Energy Efficient Process Equipment Products	159	661,883	660,330	89,809	65,610	155,419	72.9600473%	113,394
22 Small Business Energy Saver	920	3,807,575	2,662,785	1,026,607	188,160	1,214,767	72.9600473%	886,295
23 Smart Energy in Offices	3,765	18,089,083	1,972,535	1,156,497	93,844	1,250,341	72.9600473%	912,250
24 Total for Non-Residential Energy Efficiency Programs	30,248	193,777,026	\$ 113,309,256	\$ 20,295,642	\$ 10,696,565	\$ 30,992,208		\$ 22,611,930
								NC Non-Residential Peak Demand Allocation Factor (Miller Exhibit 5 pg. 6)
								D25*E25
25 Total DSM Programs(2)	785,740	-	\$ 113,683,464	\$ 31,183,185	\$ 9,487,532	\$ 40,670,718	41.2108021%	\$ 16,760,729
26 Total Non-Residential Revenue Requirement								\$ 39,372,659
								NC Retail Peak Demand Allocation Factor (Miller Exhibit 5 pg. 5)
								D30* E30
Total DSM Program Breakdown								
27 Power Manager (Residential)	403,431	-	\$ 58,390,087	\$ 15,662,693	\$ 4,913,650	\$ 20,576,344		
28 Power Share CallOption (Non-Residential)								
29 Power Share (Non-Residential)	382,309	-	\$ 55,293,377	\$ 15,520,492	\$ 4,573,882	\$ 20,094,374		
30 Total DSM	785,740	-	\$ 113,683,464	\$ 31,183,185	\$ 9,487,532	\$ 40,670,718	75.2318001%	\$ 30,597,313

(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 2016 Estimate for January 1, 2016 to December 31, 2016
Docket Number E-7, Sub 1073
Load Impacts and Estimated Revenue Requirements, excluding Lost Revenue by Program

Residential Programs			A	B	C = (A-B) *11.5%	D= B+C	E	NC Residential Revenue Requirement
	System kW Reduction - Summer Peak	System Energy Reduction (kWh)	System NPV of Avoided Cost	System Cost	Earned Utility Incentive	System Cost Plus Incentive	NC Retail kWh Sales Allocation Factor (Miller Exhibit 5 pg. 6)	D * E
EE Programs								
1 Appliance Recycling Program	791	5,655,112	\$ 2,213,692	\$ 1,754,540	\$ 52,802	\$ 1,807,342	72.9600473%	\$ 1,318,638
2 Energy Efficiency Education	691	6,580,248	4,153,775	2,474,928	193,067	2,667,995	72.9600473%	1,946,571
3 Energy Efficient Appliances and Devices	4,061	36,348,269	16,316,953	5,528,158	1,240,711	6,768,869	72.9600473%	4,938,570
4 HVAC Energy Efficiency	1,527	3,365,177	4,810,440	5,107,181	(34,125)	5,073,056	72.9600473%	3,701,304
5 Income Qualified Energy Efficiency and Weatherization Assistance	1,004	5,010,021	3,272,617	10,601,322		10,601,322	72.9600473%	7,734,730
6 Multi-Family Energy Efficiency	1,019	12,320,047	7,638,888	1,883,584	661,860	2,545,444	72.9600473%	1,857,157
7 Energy Assessments	934	7,546,592	7,985,154	3,010,149	572,126	3,582,275	72.9600473%	2,613,629
8 Subtotal	10,027	76,825,466	\$ 46,391,519	\$ 30,359,862	\$ 2,686,442	\$ 33,046,304		\$ 24,110,599
9 My Home Energy Report (1)	55,319	204,879,939	17,362,165	12,206,008	592,958	12,798,966	72.9600473%	9,338,132
10 Total for Residential Energy Efficiency Programs	65,346	281,705,405	\$ 63,753,684	\$ 42,565,870	\$ 3,279,400	\$ 45,845,270		\$ 33,448,730
								NC Residential Peak Demand Allocation Factor (Miller Exhibit 5 pg. 6)
								D11* E11
11 Total DSM Programs (2)	928,994	-	104,996,908	\$ 31,195,486	\$ 8,487,164	\$ 39,682,650	34.0209980%	\$ 13,500,433
12 Total Residential Revenue Requirement								\$ 46,949,164
								NC Non-Residential Revenue Requirement
		System kW Reduction - Summer Peak	System Energy Reduction (kWh)	System NPV of Avoided Cost	System Cost	Earned Utility Incentive	System Cost Plus Incentive	NC Retail kWh Sales Allocation Factor (Miller Exhibit 5 pg. 6)
								D * E
Non-Residential Programs								
EE Programs								
13 Non Residential Smart Saver Custom Energy Assessments	2,001	17,528,673	\$ 8,974,637	\$ 2,811,494	\$ 708,761	\$ 3,520,255	72.9600473%	\$ 2,568,380
14 Non Residential Smart Saver Custom	8,954	78,437,169	42,388,414	9,835,671	3,743,565	13,579,236	72.9600473%	9,907,417
15 Non Residential Smart Saver Energy Efficient Food Service Products	120	1,656,886	769,076	243,073	60,490	303,563	72.9600473%	221,480
16 Non Residential Smart Saver Energy Efficient HVAC Products	2,912	7,233,762	10,449,359	1,923,416	980,483	2,903,899	72.9600473%	2,118,686
17 Non Residential Smart Saver Energy Efficient Lighting Products	13,942	83,856,747	49,163,384	7,813,306	4,755,259	12,568,565	72.9600473%	9,170,031
18 Non Residential Smart Saver Energy Efficient Pumps and Drives Products	876	7,239,343	3,067,346	954,985	242,922	1,197,907	72.9600473%	873,993
19 Non Residential Smart Saver Energy Efficient IT Products	137	5,572,871	1,786,471	584,982	138,171	723,153	72.9600473%	527,613
20 Non Residential Smart Saver Energy Efficient Process Equipment Products	19	97,022	74,035	33,279	4,687	37,966	72.9600473%	27,700
21 Small Business Energy Saver	16,596	68,899,042	48,587,924	21,459,213	3,119,802	24,579,015	72.9600473%	17,932,861
22 Smart Energy in Offices	8,073	38,787,988	5,203,117	4,360,574	96,892	4,457,466	72.9600473%	3,252,170
23 Total for Non-Residential Energy Efficiency Programs	53,630	309,309,503	\$ 170,463,763	\$ 50,019,993	\$ 13,851,034	\$ 63,871,027		\$ 46,600,331
								NC Non-Residential Peak Demand Allocation Factor (Miller Exhibit 5 pg. 6)
								D24*E24
24 Total DSM Programs(2)	928,994	-	\$ 104,996,908	\$ 31,195,486	\$ 8,487,164	\$ 39,682,650	41.2108021%	\$ 16,353,538
25 Total Non-Residential Revenue Requirement								\$ 62,953,869
								NC Retail Peak Demand Allocation Factor (Miller Exhibit 5 pg. 6)
								D29* E29
Total DSM Program Breakdown								
26 Power Manager (Residential)	504,194	-	\$ 59,985,847	\$ 12,881,566	\$ 5,416,992	\$ 18,298,558		
27 Power Share CallOption (Non-Residential)								
28 Power Share (Non-Residential)	424,800	-	\$ 45,011,061	\$ 18,313,920	\$ 3,070,171	\$ 21,384,091		
29 Total DSM	928,994	-	\$ 104,996,908	\$ 31,195,486	\$ 8,487,164	\$ 39,682,650	75.2318001%	\$ 29,853,972

(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 June 1, 2009 - December 31, 2015
Docket Number E-7, Sub 1073
North Carolina Net Lost Revenues Summary

Vintage 1	Years 1 -2									
	2009	2010	2011	1 Mth 2012	2012	2013	2014	2015	2016	Total
Residential										
1 Residential Energy Assessments	\$ 44,297	\$ 669,511	\$ 752,197	\$ 66,386	\$ -	\$ -	\$ -	\$ -	\$ -	1,532,391
2 Smart Saver® for Residential Customers	92,993	5,073,454	15,613,579	1,378,657	-	-	-	-	-	22,158,682
3 Low Income Energy Efficiency and Weatherization Assistance	8,111	184,626	298,617	26,374	-	-	-	-	-	517,729
4 Energy Efficiency Education Program for Schools	980	52,034	109,867	9,700	-	-	-	-	-	172,582
5 Total Lost Revenues	146,381	5,979,625	16,774,260	1,481,117	-	-	-	-	-	24,381,383
6 Found Residential Revenues *	18,544	103,664	149,220	12,435	-	(0)	-	-	-	283,862
7 Net Lost Residential Revenues	\$ 127,836	\$ 5,875,961	\$ 16,625,041	\$ 1,468,682	\$ -	\$ 0	\$ -	\$ -	\$ -	24,097,520

Non-Residential										
	2009	2010	2011	1 Mth 2012	2012	2013	2014	2015	2016	Total
8 Smart Saver® for Non-Residential Customers Lighting	\$ 267,995	\$ 1,568,968	\$ 2,140,019	\$ 179,572	\$ -	\$ -	\$ -	\$ -	\$ -	4,156,555
9 Smart Saver® for Non-Residential Customers Motors	1,508	34,581	47,849	4,389	-	-	-	-	-	88,327
10 Smart Saver® for Non-Residential Customers - Other Prescriptive (Process Equipment)	-	4	10	1	-	-	-	-	-	15
11 Smart Saver® for Non-Residential Customers - Energy Star Food Service Products	1,873	24,316	31,396	2,792	-	-	-	-	-	60,377
12 Smart Saver® for Non-Residential Customers - HVAC	4,441	61,038	114,704	10,212	-	-	-	-	-	190,394
13 Smart Saver® for Non-Residential Customers - Custom Rebate	170	129,797	423,378	38,673	-	-	-	-	-	592,018
14 Total Lost Revenues	275,987	1,818,705	2,757,356	235,639	-	-	-	-	-	5,087,686
15 Found Non-Residential Revenues*	196,302	1,171,619	1,621,460	135,122	-	0	-	-	-	3,124,503
16 Net Lost Non-Residential Revenues	\$ 79,685	\$ 647,086	\$ 1,135,896	\$ 100,517	\$ -	\$ (0)	\$ -	\$ -	\$ -	1,963,183

Vintage 2	Years 1 -3									
	2009	2010	2011 (1/2 year)	1 Mth 2012	2012	2013 ^(a)	2014	2015	2016	Total
Residential										
17 Residential Energy Assessments	\$ -	\$ -	\$ 199,106	\$ -	\$ 416,418	\$ 307,665	\$ -	\$ -	\$ -	923,189
18 Smart Saver® for Residential Customers	-	-	7,082,986	-	17,639,492	13,038,388	-	-	-	37,760,866
19 Low Income Energy Efficiency and Weatherization Assistance	-	-	8,604	-	25,327	18,723	-	-	-	52,654
20 Energy Efficiency Education Program for Schools	-	-	26,046	-	56,110	41,483	-	-	-	123,639
21 Total Lost Revenues	-	-	7,316,742	-	18,137,348	13,406,259	-	-	-	38,860,348
22 Found Residential Revenues *	-	-	46,409	-	91,169	68,377	(0)	-	-	205,955
23 Net Lost Residential Revenues	\$ -	\$ -	\$ 7,270,333	\$ -	\$ 18,046,179	\$ 13,337,882	\$ 0	\$ -	\$ -	38,654,393

Non-Residential										
	2009	2010	2011 (1/2 year)	1 Mth 2012	2012	2013 ^(a)	2014	2015	2016	Total
24 Smart Saver® for Non-Residential Customers Lighting	\$ -	\$ -	\$ 1,000,289	\$ -	\$ 2,128,947	\$ 1,513,436	\$ -	\$ -	\$ -	4,642,672
25 Smart Saver® for Non-Residential Customers Motors	-	-	42,267	-	92,407	68,717	-	-	-	203,390
26 Smart Saver® for Non-Residential Customers - Other Prescriptive (Process Equipment)	-	-	6,600	-	16,682	12,451	-	-	-	35,733
27 Smart Saver® for Non-Residential Customers - Energy Star Food Service Products	-	-	14,315	-	33,354	24,736	-	-	-	72,405
28 Smart Saver® for Non-Residential Customers - HVAC	-	-	53,349	-	151,187	112,123	-	-	-	316,659
29 Smart Saver® for Non-Residential Customers - Custom Rebate	-	-	595,732	-	1,414,842	1,051,484	-	-	-	3,062,058
30 Smart Energy Now	-	-	124,537	-	846,457	627,884	-	-	-	1,598,878
31 Total Lost Revenues	-	-	1,837,090	-	4,683,875	3,410,831	-	-	-	9,931,796
32 Found Non-Residential Revenues*	-	-	403,371	-	1,374,530	1,030,897	(0)	-	-	2,808,798
33 Net Lost Residential Revenues	\$ -	\$ -	\$ 1,433,719	\$ -	\$ 3,309,345	\$ 2,379,934	\$ 0	\$ -	\$ -	7,122,998

Vintage 3	Year 1, 2 and 3 Actuals and Year 4 estimated									
	2009	2010	2011	1 Mth 2012	2012 (1/2 year)	2013 ^(b)	2014	2015 ^(c)	2016	Total
Residential										
34 Appliance Recycling	\$ -	\$ -	\$ -	\$ -	\$ 10,266	\$ 45,180	\$ 46,293	\$ 35,330	\$ -	\$ 137,069
35 Residential Energy Assessments	-	-	-	-	254,784	425,879	235,103	156,970	-	1,072,737
36 Smart Saver® for Residential Customers	-	-	-	-	6,953,370	8,775,483	3,841,455	2,603,636	-	22,173,943
37 Energy Efficiency Education Program for Schools	-	-	-	-	239,392	347,698	160,798	125,638	-	873,526
38 Home Energy Comparison Report	-	-	-	-	1,523,842	-	-	-	-	1,523,842
39 Residential Retrofit Pilot								-		-
40 Total Lost Revenues	-	-	-	-	8,981,654	9,594,241	4,283,649	2,921,574	-	25,781,118
41 Found Residential Revenues *	-	-	-	-	32,870	39,068	7,442	2,511	-	81,891
42 Net Lost Residential Revenues	\$ -	\$ -	\$ -	\$ -	\$ 8,948,784	\$ 9,555,173	\$ 4,276,207	\$ 2,919,062	\$ -	\$ 25,699,227

Non-Residential		2009	2010	2011	1 Mth 2012	2012 (1/2 year)	2013 ^(b)	2014	2015 ^(c)	2016	Total
43	Smart Saver® for Non-Residential Customers Lighting	\$ -	\$ -	\$ -	\$ -	\$ 978,762	\$ 1,798,752	\$ 1,157,277	\$ 854,416	\$ -	\$ 4,789,207
44	Smart Saver® for Non-Residential Customers Motors	-	-	-	-	64,385	149,063	113,632	94,215	-	421,295
45	Smart Saver® for Non-Residential Customers - Other Prescriptive (Process Equipment)	-	-	-	-	-	-	-	-	-	-
46	Smart Saver® for Non-Residential Customers - Energy Star Food Service Products	-	-	-	-	14,096	33,415	32,665	20,026	-	100,202
47	Smart Saver® for Non-Residential Customers - HVAC	-	-	-	-	70,330	119,862	75,924	54,637	-	320,754
48	Smart Saver® for Non-Residential Customers - Custom Rebate	-	-	-	-	1,656,364	3,185,396	2,077,602	1,672,959	-	8,592,321
49	Smart Energy Now	-	-	-	-	478,449	329,918	-	-	-	808,367
50	Total Lost Revenues	-	-	-	-	3,262,386	5,616,407	3,457,100	2,696,252	-	15,032,146
51	Found Non-Residential Revenues *	-	-	-	-	445,846	761,963	145,136	78,259	-	1,431,205
52	Net Lost Non-Residential Revenues	\$ -	\$ -	\$ -	\$ -	\$ 2,816,540	\$ 4,854,443	\$ 3,311,964	\$ 2,617,993	\$ -	\$ 13,600,940

Vintage 4	Year 1 and 2 actual, Year 3 and 4 Estimated									
	2009	2010	2011	1 Mth 2012	2012	2013 (1/2 year)	2014	2015	2016 ^(d)	Total
Residential										
53 Appliance Recycling	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 101,998	\$ 240,815	\$ 238,449	\$ 136,270	\$ 717,531
54 Residential Energy Assessments	-	-	-	-	-	178,126	358,256	354,699	175,570	1,066,651
55 Smart Saver® for Residential Customers	-	-	-	-	-	3,015,924	5,890,655	5,829,586	2,792,637	17,528,801
56 Low Income Energy Efficiency and Weatherization Assistance	-	-	-	-	-	12,238	44,504	44,084	31,908	132,734
57 Residential Neighborhood Program	-	-	-	-	-	-	-	-	-	-
58 Energy Efficiency Education Program for Schools	-	-	-	-	-	136,637	246,083	243,620	105,938	732,278
59 Home Energy Comparison Report	-	-	-	-	-	7,042,473	-	-	-	7,042,473
60 Total Lost Revenues	-	-	-	-	-	10,487,396	6,780,312	6,710,438	3,242,322	27,220,467
61 Found Residential Revenues *	-	-	-	-	-	37,737	62,416	62,416	24,679	187,249
62 Net Lost Residential Revenues	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,449,659	\$ 6,717,896	\$ 6,648,022	\$ 3,217,642	\$ 27,033,219

Non-Residential	2009	2010	2011	1 Mth 2012	2012	2013 (1/2 year)	2014	2015	2016 ^(d)	Total
63 Smart Saver® for Non-Residential Customers Lighting	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,382,839	\$ 2,760,118	\$ 2,769,348	\$ 1,362,938	\$ 8,275,243
64 Smart Saver® for Non-Residential Customers Motors	-	-	-	-	-	82,592	171,814	173,141	89,216	516,762
65 Smart Saver® for Non-Residential Customers - Other Prescriptive (Process Equipment)	-	-	-	-	-	1,852	6,401	6,423	4,595	19,271
66 Smart Saver® for Non-Residential Customers - Energy Star Food Service Products	-	-	-	-	-	14,181	37,136	37,387	23,154	111,859
67 Smart Saver® for Non-Residential Customers - HVAC	-	-	-	-	-	91,920	210,322	210,626	117,888	630,757
68 Smart Saver® for Non-Residential Customers - Custom Rebate	-	-	-	-	-	1,322,386	2,957,110	2,977,938	1,630,601	8,888,034
69 Smart Energy Now	-	-	-	-	-	-	-	-	-	-
70 Total Lost Revenues	-	-	-	-	-	2,895,770	6,142,901	6,174,862	3,228,392	18,441,925
71 Found Non-Residential Revenues *	-	-	-	-	-	391,947	391,947	391,947	135,766	1,175,841
72 Net Lost Non-Residential Revenues	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,639,589	\$ 5,750,954	\$ 5,782,915	\$ 3,092,625	\$ 17,266,084

* Found Revenues - see Barnes Exhibit 4
(a) Vintage 2 Year 3 Lost Revenues represent January - September 24, 2013 lost revenues.
(b) Vintage 3 Year 2 Lost Revenues were based on Participants Jan-Jun'12 for Lost revenues until Sept. 24, 2013 and participants July - December 2012 for full year
(c) Vintage 3 Year 4 Lost Revenues represent only a 1/2 year for July - December 2012 participants due to half year convention used for Year 1 lost revenues
(d) Estimated Lost Revenues were estimated by allocating estimated system Lost Revenues per kWh sales. See Miller Exhibit 5 Page 5 72.9600473%

Duke Energy Carolinas, LLC
For the Period January 1, 2015 - December 31, 2015
Docket Number E-7, Sub 1073
North Carolina Net Lost Revenue Estimates for Vintages 2014 - 2016

Supplemental Barnes Exhibit 2, page 2

Line	Residential	Vintage 2014			Total
		2014	2015	2016 ^(a)	
1	Energy Assessments	\$ 310,215.00	\$ 234,407	497,583	\$ 1,042,205
2	My Home Energy Report	6,638,564	-	-	6,638,564
3	Energy Efficient Appliances and Devices	3,901,495	1,312,802	8,015,920	13,230,217
4	HVAC Energy Efficiency	117,007	249,615	71,466	438,088
5	Appliance Recycle Program	107,899	799,949	255,086	1,162,934
6	Income Qualified Energy Efficiency and Weatherization Assistance	85,575	522,101	158,572	766,248
7	Multi-Family Energy Efficiency	209,774	471,994	574,281	1,256,049
8	Energy Efficiency Education	130,780	286,135	322,985	739,900
9	Total Lost Revenues	11,501,309	3,877,003	9,895,892	25,274,204
10	Found Residential Revenues *				-
11	Net Lost Residential Revenues	\$ 11,501,309	\$ 3,877,003	\$ 9,895,892	\$ 25,274,204

Non-Residential		2014	2015	2016 ^(a)	Total
12	Nonresidential Smart Saver Custom Energy Assessments	\$ 166,013	\$ 432,469	\$ 226,174	\$ 824,656
13	Non Residential Smart Saver Custom	1,190,583	1,935,145	1,973,711	5,099,439
14	Energy Management Information Systems		97,730	-	97,730
15	Non Residential Smart Saver Energy Efficient Food Service Products	43,798	31,378	75,852	151,028
16	Non Residential Smart Saver Energy Efficient HVAC Products	99,002	169,337	178,827	447,166
17	Non Residential Smart Saver Energy Efficient Lighting Products	1,309,866	1,981,220	2,443,628	5,734,714
18	Non Residential Smart Saver Energy Efficient Pumps and Drives Products	94,053	151,287	172,849	418,189
19	Non Residential Smart Saver Energy Efficient IT Products	419	82,353	3,133	85,905
20	Non Residential Smart Saver Energy Efficient Process Equipment Products	19,557	2,525	28,995	51,077
21	Smart Business Energy Saver	15,777		191,647	207,424
22	Smart Energy in Offices	116,474		799,334	915,808
23	Total Lost Revenues	3,055,541	4,883,444	6,094,150	14,033,135
24	Found Non-Residential Revenues *	1,512	(1,512)		(0)
25	Net Lost Non-Residential Revenues	\$ 3,054,030	\$ 4,884,956	\$ 6,094,150	\$ 14,033,136

Line	Residential	Vintage 2015			Total
		2014	2015	2016 ^(a)	
26	Residential Energy Assessments		\$ 117,203	\$ 333,375	\$ 450,578
27	My Home Energy Report		7,195,091	-	7,195,091
28	Energy Efficient Appliances and Devices		729,170	2,257,784	2,986,954
29	HVAC Energy Efficiency		129,033	221,848	350,881
30	Appliance Recycle Program		399,974	262,360	662,334
31	Income Qualified Energy Efficiency and Weatherization Assistance		242,767	232,432	475,199
32	Multi-Family Energy Efficiency		249,457	485,043	734,500
33	Energy Efficiency Education		143,069	279,113	422,182
34	Total Lost Revenues		9,205,764	4,071,955	13,277,719
35	Found Residential Revenues *				-
36	Net Lost Residential Revenues		\$ 9,205,764	\$ 4,071,955	\$ 13,277,719

Non-Residential		2014	2015	2016 ^(a)	Total
37	Nonresidential Smart Saver Custom Energy Assessments		\$ 227,042	\$ 290,657	\$ 517,699
38	Non Residential Smart Saver Custom		1,015,964	1,946,849	2,962,813
39	Energy Management Information Services		-	-	-
40	Non Residential Smart Saver Energy Efficient Food Service Products		19,705	38,177	57,882
41	Non Residential Smart Saver Energy Efficient HVAC Products		89,689	192,709	282,398
42	Non Residential Smart Saver Energy Efficient Lighting Products		1,052,048	2,383,702	3,435,750
43	Non Residential Smart Saver Energy Efficient Pumps and Drives Products		79,426	184,145	263,571
44	Non Residential Smart Saver Energy Efficient IT Products		63,320	100,222	163,542
45	Non Residential Smart Saver Energy Efficient Process Equipment Products		1,317	3,070	4,387
46	Smart Business Energy Saver			1,986,875	1,986,875
47	Smart Energy in Offices			1,070,349	1,070,349
48	Total Lost Revenues		2,548,511	8,196,755	10,745,266
49	Found Non-Residential Revenues *		1,491	2,752	4,243
50	Net Lost Non-Residential Revenues		\$ 2,547,020	\$ 8,194,003	\$ 10,741,023

Supplemental Barnes Exhibit 2, page 2a

Line	Residential	2014	Vintage 2016		Total
			2015	2016 ^(a)	
51	Residential Energy Assessments			\$ 180,515	\$ 180,515
52	My Home Energy Report			10,000,374	10,000,374
53	Energy Efficient Appliances and Devices			885,431	885,431
54	HVAC Energy Efficiency			79,543	79,543
55	Appliance Recycle Program			138,883	138,883
56	Income Qualified Energy Efficiency and Weatherization Assistance			117,454	117,454
57	Multi-Family Energy Efficiency			318,146	318,146
58	Energy Efficiency Education			153,421	153,421
59	Total Lost Revenues		-	11,873,767	11,873,767
60	Found Residential Revenues *				-
61	Net Lost Residential Revenues		\$ -	\$ 11,873,767	\$ 11,873,767

Line	Non-Residential	2014	2015	2016 ^(a)	Total
62	Nonresidential Smart Saver Custom Energy Assessments			\$ 213,540	\$ 213,540
63	Non Residential Smart Saver Custom			1,008,577	1,008,577
64	Energy Management Information Services			-	-
65	Non Residential Smart Saver Energy Efficient Food Service Products			18,783	18,783
66	Non Residential Smart Saver Energy Efficient HVAC Products			105,952	105,952
67	Non Residential Smart Saver Energy Efficient Lighting Products			1,249,795	1,249,795
68	Non Residential Smart Saver Energy Efficient Pumps and Drives Products			70,833	70,833
69	Non Residential Smart Saver Energy Efficient IT Products			74,932	74,932
70	Non Residential Smart Saver Energy Efficient Process Equipment Products			1,497	1,497
71	Small Business Energy Saver			1,210,438	1,210,438
72	Smart Energy in Offices			792,359	792,359
73	Total Lost Revenues			4,746,706	4,746,706
74	Found Non-Residential Revenues *			1,391	1,391
75	Net Lost Non-Residential Revenues			\$ 4,745,315	\$ 4,745,315

(a) Estimated Lost Revenues were estimated by allocating estimated system Lost Revenues per kWh sales. See Miller Exhibit 5 Page 6

72.9600473%

Duke Energy Carolinas, LLC
For the Period June 1, 2009 - December 31, 2013
Docket Number E-7 Sub 1073
Actual Program Costs for SAW programs

Line	SAW PROGRAMS		Carolinas System Costs - 6/1/2009 - 12/31/2009	Carolinas System Costs - 12 Months Ended 12/31/2010	Carolinas System Costs - 12 Months Ended 12/31/2011	Carolinas System Costs - 12 Months Ended 12/31/2012	Carolinas System Costs - 12 Months Ended 12/31/2013
1	Residential Energy Assessments		\$ 2,003,480	\$ 2,632,637	\$ 2,668,577	\$ 2,807,908	\$ 2,709,166
2	Residential Home Retrofit		-	-	118,811	157,393	5,792
3	Residential Neighborhood Program		-	-	-	110,001	600,407
4	Home Energy Comparison Report		-	-	711,131	3,012,860	7,441,231
5	Residential Smart Saver		2,639,505	25,972,993	23,006,146	19,502,040	14,341,695
6	Appliance Recycle Program			-	-	302,588	1,808,141
7	Low Income Services		106,530	396,691	1,296	20,167	9,812
8	Energy Efficiency Education		2,137,748	2,273,809	791,598	2,893,919	2,030,442
9	Nonresidential Energy Assessments		161,826	1,110,853	2,519,394	1,467,001	750,949
10	Nonresidential Smart Energy Now		-	-	2,069,672	1,062,135	1,477,300 (1)
11	Nonresidential Smart Saver		1,831,197	6,988,330	12,145,531	18,984,876	17,610,411
12	Power Manager		2,322,903	9,422,232	14,392,260	12,541,114	12,715,817
13	Power Share		759,147	7,964,184	13,774,440	15,379,288	15,005,089
14	Total Energy Efficiency & Demand Side Program Costs	Sum (Lines 1-13)	\$ 11,962,336	\$ 56,761,729	\$ 72,198,856	\$ 78,241,290	\$ 76,506,252
15	NC Allocation Factor for EE programs	Miller Exhibit 5	73.0077318%	72.7072722%	72.6972151%	72.7194575%	72.9600473%
16	NC Allocation Factor for DSM programs-Residential	Miller Exhibit 5	33.9010659%	34.4404513%	32.2293181%	34.8388691%	34.0209980%
17	NC Allocation Factor for DSM programs-Non-Residential	Miller Exhibit 5	39.9179344%	40.3489126%	42.2350050%	39.8808428%	41.2108021%
			NC Allocated Costs - 6/1/2009 - 12/31/2009	NC Allocated Costs - 12 Months Ended 12/31/2010	NC Allocated Costs - 12 Months Ended 12/31/2011	NC Allocated Costs - 12 Months Ended 12/31/2012	NC Allocated - 12 Months Ended 12/31/2013
18	Residential Energy Assessments	Line 1*Line 15	\$ 1,462,695	\$ 1,914,119	\$ 1,939,981	\$ 2,041,895	\$ 1,976,609
19	Residential Home Retrofit	Line 2*Line 15	-	-	86,372	114,455	4,226
20	Residential Neighborhood Program	Line 3*Line 15	-	-	-	79,992	438,057
21	Home Energy Comparison Report	Line 4*Line 15	-	-	516,972	2,190,935	5,429,126
22	Residential Smart Saver	Line 5*Line 15	1,927,043	18,884,255	16,724,827	14,181,778	10,463,707
23	Appliance Recycle Program	Line 6*Line 15	-	-	-	220,040	1,319,221
24	Low Income Services	Line 7*Line 15	77,775	288,423	942	14,665	7,159
25	Energy Efficiency Education	Line 8*Line 15	1,560,721	1,653,224	575,470	2,104,442	1,481,411
26	Nonresidential Energy Assessments	Line 9*Line 15	118,145	807,671	1,831,529	1,066,795	547,893
27	Nonresidential Smart Energy Now	Line 10*Line 15	-	-	1,504,594	772,379	1,077,839
28	Nonresidential Smart Saver	Line 11 * Line 15	1,336,915	5,081,024	8,829,463	13,805,699	12,848,564
29	Power Manager	(Line 12+ Line 13)*Line 16	1,044,848	5,987,960	9,077,935	9,727,152	9,430,929
30	Power Share	(Line 12+ Line 13)*Line 17	1,230,291	7,015,230	11,896,207	11,134,892	11,424,008
31	Total Energy Efficiency & Demand Side Program Costs	Sum (Lines 18-30)	\$ 8,758,434	\$ 41,631,906	\$ 52,984,294	\$ 57,455,121	\$ 56,448,748

(1) Represents January and February 2014 program costs related to the Smart Energy in Offices pilot program.

Duke Energy Carolinas, LLC
For the Period January 1, 2014 - December 31, 2014
Docket Number E-7 Sub 1073
Actual Program Costs for Vintage Years 2014

		Carolinas System - 12 Months Ended 12/31/2014
1	Residential Energy Assessments	\$ 3,605,737
2	My Home Energy Report	8,285,066
3	Energy Efficient Appliances and Devices	14,738,129
4	HVAC Energy Efficiency	4,786,807
5	Appliance Recycle Program	1,515,867
6	Income Qualified Energy Efficiency and Weatherization Assistance	1,917,192
7	Multi family Energy Efficiency	1,442,533
8	Energy Efficiency Education	1,963,153
9	Nonresidential Smart Saver Custom Energy Assessments	1,458,195
10	Energy Management Information Systems	74,855
11	Non-Residential Smart Saver Custom	8,136,712
12	Non-Residential Energy Efficient Food Service Products	199,350
13	Non-Residential Smart Saver Energy Efficient HVAC Products	815,339
14	Non-Residential Smart Saver Energy Efficient Lighting Products	6,727,675
15	Nonresidential Energy Efficient Pumps and Drives Products	584,874
16	Nonresidential Energy Efficient ITEE	25,730
17	Nonresidential Energy Efficient Process Equipment Products	89,809
18	Smart Energy In Offices	1,156,497
19	Small Business Energy Saver	1,026,607
20	Power Manager	15,662,693
21	Power Share	15,520,492
22	Total Energy Efficiency & Demand Side Program Costs	sum(Lines 1-20) \$ 89,733,313

23	NC Allocation Factor for EE programs	Miller Exhibit 5 Pg. 6, Line 4	72.9600473%
24	NC Allocation Factor for DSM programs-Residential	Miller Exhibit 5 Pg. 6, Line 9	34.0209980%
25	NC Allocation Factor for DSM programs-Non-Residential	Miller Exhibit 5 Pg. 6, Line 10	41.2108021%

		NC Allocated - 12 Months Ended 12/31/2014
26	Residential Energy Assessments	Line 1 * Line 22 \$ 2,630,748
27	My Home Energy Report	Line 2 * Line 22 6,044,788
28	Energy Efficient Appliances and Devices	Line 3 * Line 22 10,752,946
29	HVAC Energy Efficiency	Line 4 * Line 22 3,492,457
30	Appliance Recycle Program	Line 5 * Line 22 1,105,977
31	Income Qualified Energy Efficiency and Weatherization Assistance	Line 6 * Line 22 1,398,784
32	Multi family Energy Efficiency	Line 7 * Line 22 1,052,473
33	Energy Efficiency Education	Line 8 * Line 22 1,432,317
34	Nonresidential Smart Saver Custom Energy Assessments	Line 9 * Line 22 1,063,900
35	Energy Management Information Systems	Line 10 * Line 22 54,614
36	Non-Residential Smart Saver Custom	Line 11 * Line 22 5,936,549
37	Non-Residential Energy Efficient Food Service Products	Line 12 * Line 22 145,446
38	Non-Residential Smart Saver Energy Efficient HVAC Products	Line 13 * Line 22 594,872
39	Non-Residential Smart Saver Energy Efficient Lighting Products	Line 14 * Line 22 4,908,515
40	Nonresidential Energy Efficient Pumps and Drives Products	Line 15 * Line 22 426,724
41	Nonresidential Energy Efficient ITEE	Line 16 * Line 22 18,773
42	Nonresidential Energy Efficient Process Equipment Products	Line 17 * Line 22 65,525
43	Smart Energy In Offices	Line 18 * Line 22 843,781
44	Small Business Energy Saver	Line 19 * Line 22 749,013
45	Power Manager	(Line 19 + Line 20) * Line 23 10,608,831
46	Power Share	(Line 19 + Line 20) * Line 24 12,850,841
46	Total Energy Efficiency & Demand Side Program Costs	Sum (Lines 25-44) \$ 66,177,873

Duke Energy Carolinas, LLC
June 2009 - December 2014 Actuals
January 2015 - December 2016 Estimates
Docket Number E-7, Sub 1073
North Carolina Found Revenues

	Actual/Reported KWH						Estimated KWH		Decision Tree Node
	2009	2010	2011	2012	2013	2014	2015	2016	
Boilers (unmetered)	575,990	-	-	-	-	-	-	-	Box 6 - include
Boilers (metered)	-	-	-	-	-	-	-	-	Box 6 - include
Economic Development	93,990,900	104,307,244	117,082,542	416,539,426	136,948,900	166,234,550	-	-	Box 5 - exclude
Plug-in Electric Charging Station Pilot	-	-	8,246	218,311	238,696	238,696	-	-	Box 3 - exclude
Food Service	693,553	949,022	723,338	1,204,245	712,711	-	-	-	Box 6 - include
Process Heat	31,014	1,783,740	2,973,046	1,002,303	162,109	-	-	-	Box 6 - include
Lighting	-	-	-	-	-	-	-	-	
Residential	102,492	169,991	162,984	76,420	93,396	105,354	105,354	105,354	Box 6 - include
Non Residential (Regulated)	112,286	175,553	129,669	77,433	60,528	95,391	143,087	143,087	Box 6 - include
MV to LED Credit - Residential (Regulated)	-	-	-	-	-	(156,381)	(205,208)	(205,208)	Box 6 - include
MV to LED Credit - Non-Residential (Regulated)	-	-	-	-	-	(104,331)	(136,907)	(136,907)	Box 6 - include
Non Residential (Non Regulated)	3,630	3,630	2,146	0	0	0	-	-	Box 6 - include
Total KWH	95,509,866	107,389,180	121,081,971	419,118,139	138,216,340	166,413,279	(93,675)	(93,675)	
Total KWH Included	1,518,966	3,081,936	3,991,183	2,360,401	1,028,744	(59,967)	(93,675)	(93,675)	
Total KWH Included (net of Free Riders 15%)	\$ 1,291,121	\$ 2,619,646	\$ 3,392,506	\$ 2,006,341	\$ 874,432	\$ (50,972)	\$ (79,624)	\$ (79,624)	
Annualized Found Revenue - Non Residential	\$ 509,839	\$ 1,111,621	\$ 1,374,530	\$ 967,572	\$ 391,947	\$ (3,615)	\$ 2,752	\$ 2,567	
Annualized Found Revenue - Residential	\$ 55,308	\$ 93,912	\$ 91,169	\$ 49,611	\$ 62,416	\$ (34,952)	\$ (70,908)	\$ (68,792)	
	2009	2010	2011	2012	2013	2014	2015	2016	
Vintage 1 -2009 - Non Res	\$ 196,302	\$ 509,839	\$ 509,839	313,537					
Vintage 1 -2010 - Non Res		\$ 661,779	\$ 1,111,621	\$ 1,111,621	449,841				
Vintage 2011 - Non Res			\$ 403,371	\$ 1,374,530	\$ 1,374,530	971,160			
Vintage 2012 - Non Res				\$ 445,846	\$ 967,572	967,572	521,726		
Vintage 2013 - Non Res					\$ 256,181	391,947	391,947	135,766	
Vintage 2014 - Non Res						1,512	(3,615)	(3,615)	
Vintage 2015 - Non Res							1,491	2,752	
Vintage 2016 - Non Res								1,391	
Vintage 2017 - Non Res									
Net Negative Found Revenues to Zero*									
Rate Case Adjustment - Non Res **				(1,290,036)	(999,083)	\$ (1,793,596)	\$ (443,467)	\$ -	
Subtotal - Non Res	\$ 196,302	1,171,619	2,024,831	1,955,498	2,049,042	538,594	468,081	136,294	
Vintage 1 -2009 - Residential	\$ 18,544	\$ 55,308	\$ 55,308	36,764					
Vintage 1 -2010 - Residential		\$ 48,357	\$ 93,912	\$ 93,912	45,556				
Vintage 2011 - Res			\$ 46,409	\$ 91,169	\$ 91,169	44,760			
Vintage 2012 - Res				\$ 32,870	\$ 49,611	49,611	16,741		
Vintage 2013 - Res					\$ 37,737	62,416	62,416	24,679	
Vintage 2014 - Res						(12,947)	(34,952)	(34,952)	
Vintage 2015 - Res							(38,408)	(70,908)	
Vintage 2016 - Res								(37,262)	
Vintage 2017 - Res									
Net Negative Found Revenues to Zero*									
Rate Case Adjustment - Residential **				(118,241)	(78,890)	\$ (86,929)	\$ (14,230)	\$ -	
Subtotal - Residential	\$ 18,544	\$ 103,664	\$ 195,629	\$ 136,474	\$ 145,182	\$ 56,911	\$ (8,433)	\$ (118,442)	
Total Found Revenues	\$ 214,846	\$ 1,275,283	\$ 2,220,460	\$ 2,091,972	\$ 2,194,224	\$ 595,505	\$ 459,649	\$ 17,851	

* Eliminates the inclusion of total negative found revenues at the Residential and Non-Residential Level

** Removes amounts to be recovered in base rates.