



Timika Shafeek-Horton
Deputy General Counsel

550 South Tryon Street
Charlotte, NC 28202

Mailing Address:
DEC45A / P.O. Box 1321
Charlotte, NC 28201

o: 704-382-6373
f: 980.373.8534

October 1, 2013

Timika.Shafeek-Horton@duke-energy.com

VIA ELECTRONIC FILING

Mrs. Jocelyn G. Boyd
Chief Clerk / Administrator
Public Service Commission of South Carolina
101 Executive Center Drive, Suite 100
Columbia, South Carolina 29211

**RE: Duke Energy Carolinas, LLC's Application for Approval of Rider 5
Docket Number 2013-299-E**


Dear Mrs. Boyd:

On August 1, 2013, Duke Energy Carolinas, LLC ("DEC") filed its Rider 5 Application and associated exhibits. On September 26, 2013, in Docket No. 2013-298-E, DEC filed an Amended Application for Approval of New Cost Recovery Mechanism and Portfolio of Demand-Side Management and Energy Efficiency Programs. The attached revised exhibits reflect the proposed changes to the recovery mechanism described in the September 26th filing. They also reflect certain computational adjustments that needed to be made.

DEC recognizes intervenors may need time beyond the comment filing deadline of October 15, 2013 to review and analyze the revised exhibits and the Revised Application filed in Docket No. 2013-298-E. DEC would not object to requests for a reasonable amount of additional time to respond. DEC would, however, request that any new deadlines set accommodate a new rate implementation date of January 1, 2014.

Thank you for your consideration of this filing. If you have any questions, please let me know.

Respectfully submitted,


Timika Shafeek-Horton
Deputy General Counsel

Enclosures

cc: Shannon Bowyer Hudson, Esq.
Courtney D. Edwards, Esq.
Parties of Record

Duke Energy Carolinas
For the Period February 1, 2010 - December 31, 2014
Docket Number 2013-299-E
Exhibit Summary for Rider EE Exhibits and Factors

REVISED EXHIBIT A

Residential Billing Factor

1	Costs to be Recovered for Vintage 1 True-up
2	Costs to be Recovered for Vintage 2 True-up
3	Costs to be Recovered for Vintage 3 True-up
4	Total Cost to be Recovered Vintages 1, 2 and 3 True-ups
5	Projected SC Residential Sales (kWh) for rate period
6	Revenue Requirement Vintages 1, 2 and Vintage 3 True-up Component for Residential Rider EE (cents per kWh)
7	Costs to be Recovered for Vintage 3 Prospective amounts
8	Costs to be Recovered for Vintage 4 Prospective amounts
9	Costs to be Recovered for Vintage Year 2014 Prospective Amounts
10	Total Prospective Components of Residential Revenue Requirement
11	Projected SC Residential Sales (kWh) for rate period
12	Revenue Requirement Vintages 3, 4 and year 2014 Prospective Component for Residential Rider EE (cents per kWh)
13	Total Revenue Requirement for Residential Rider EE
14	Total Revenue Requirement for Residential Rider EE (cents per kWh)

Revised V1 Exhibit 1, Line 19	\$	587,189	
Revised V2 Exhibit 1, Line 17	\$	2,957,670	
Revised V3 Exhibit 1, Line 15	\$	12,519,951	
Line 1 + Line 2 + Line 3	\$	16,064,810	
R5 Exhibit 3, Line 3		6,505,979,712	
Line 4 / Line 5 * 100		0.2469	Applicati
Revised V3 Exhibit 1, Line 15	\$	1,055,596	
V4 Exhibit 1, Line 3	\$	1,224,469	
Revised Year 2014 Exhibit 1, Pg. 1 Line 12	\$	20,705,154	
Line 7 + Line 8 + Line 9	\$	22,985,219	
R5 Exhibit 3, Line 3		6,505,979,712	
line 10 / Line 11 * 100		0.3533	Applicati
Line 4 + Line 10	\$	39,050,029	
Line 6 + Line 12		0.6002	Applicati

Non-Residential Billing Factors for Rider 5 True-Up Components

15	Costs to be Recovered for Vintage 1 True-up - Vintage 1 EE Participant
16	Projected Vintage 1 EE Participants SC Non-Residential Sales (kwh) for rate period
17	EE Revenue Requirement Vintage 1 True-up Non-Residential Rider EE (cents per kWh)
18	Costs to be Recovered for Vintage 2 True-up - Vintage 2 EE Participant
19	Projected Vintage 2 EE Participants SC Non-Residential Sales (kwh) for rate period
20	EE Revenue Requirement Vintage 2 True-up Non-Residential Rider EE (cents per kWh)
21	Costs to be Recovered for Vintage 3 True-up - Vintage 3 EE Participant
22	Projected Vintage 3 EE Participants SC Non-Residential Sales (kwh) for rate period
23	EE Revenue Requirement Vintage 3 True-up Non-Residential Rider EE (cents per kWh)
24	Costs to be Recovered for Vintage 3 True-up - Vintage 3 DSM Participant
25	Projected Vintage 3 DSM Participants SC Non-Residential Sales (kwh) for rate period
26	DSM Revenue Requirement Vintage 3 True-up Non-Residential Rider EE (cents per kWh)

Revised V1 Exhibit 1, Line 34	\$	257,879	
R5 Exhibit 3, Line 25		8,978,388,405	
Line 15/line 16 * 100		0.0029	Applicati
Revised V2 Exhibit 1, Line 30	\$	1,510,615	
R5 Exhibit 3, Line 25		8,660,803,125	
Line 18/line 19 * 100		0.0174	Applicati
Revised V3 Exhibit 1, Line 27	\$	10,479,257	
R5 Exhibit 3, Line 25		8,656,764,337	
Line 21/Line 22 * 100		0.1211	Applicati
Revised V3 Exhibit 1, Line 27	\$	2,501,818	
R5 Exhibit 3, Line 25		8,008,974,420	
Line 24/Line 25 * 100		0.0312	Applicati

Non-Residential Billing Factors for Rider 5 Prospective Components

27	Total Vintage 3 Prospective EE Revenue Requirement - Vintage 3 EE Participant
28	Projected Vintage 3 EE Participants SC Non-Residential Sales (kwh) for rate period
29	EE Revenue Requirement Vintage 3 Lost Revenues Non-Residential Rider EE (cents per kWh)
30	Total Vintage 4 Prospective EE Revenue Requirement - Vintage 4 EE Participant
31	Projected Vintage 4 EE Participants SC Non-Residential Sales (kwh) for rate period
32	EE Revenue Requirement Vintage 4 Lost Revenues Non-Residential Rider EE (cents per kWh)
33	Total Vintage Year 2014 Prospective EE Revenue Requirement - Vintage Year 2014 EE Participant
34	Projected Vintage Year 2014 EE Participants SC Non-Residential Sales (kwh) for rate period
35	EE Revenue Requirement Vintage Year 2014 Lost Revenues Non-Residential Rider EE (cents per kWh)
36	Total Vintage Year 2014 Prospective DSM Revenue Requirement - Vintage Year 2014 DSM Participant
37	Projected Vintage Year 2014 DSM Participants SC Non-Residential Sales (kwh) for rate period
38	DSM Revenue Requirement Vintage Year 2014 Lost Revenues Non-Residential Rider EE (cents per kWh)
<u>Total costs to be recovered in Rider 4 from Non-Residential Customers</u>	
15	Costs to be Recovered for Vintage 1 True-up - Vintage 1 EE Participant
18	Costs to be Recovered for Vintage 2 True-up - Vintage 2 EE Participant
21	Costs to be Recovered for Vintage 3 True-up - Vintage 3 EE Participant
24	Costs to be Recovered for Vintage 3 True-up - Vintage 3 DSM Participant
27	Total Vintage 3 Prospective EE Revenue Requirement - Vintage 3 EE Participant
30	Total Vintage 4 Prospective EE Revenue Requirement - Vintage 4 EE Participant
33	Total Vintage Year 2014 Prospective EE Revenue Requirement - Vintage Year 2014 EE Participant
36	Total Vintage Year 2014 Prospective DSM Revenue Requirement - Vintage Year 2014 DSM Participant
Total Non-Residential Revenue Requirements	

Revised V3 Exhibit 1, Line 27	\$	650,543	
R5 Exhibit 3, Line 25		8,656,764,337	
Line 27/Line 28 * 100		0.0075	Applicati
V4 Exhibit 1, Line 6	\$	1,339,288	
R5 Exhibit 3, Line 25		8,744,622,797	
Line 30/Line 31 * 100		0.0153	Applicati
Revised Year 2014 Exhibit 1, Pg. 2, Line 7	\$	9,387,748	
Revised Year 2014 Exhibit 1, Pg. 2, Line 8		8,513,956,840	
Line 33/Line 34 * 100		0.1103	Applicati
Revised Year 2014 Exhibit 1, Pg. 2, Line 16	\$	7,825,195	
Revised Year 2014 Exhibit 1, Pg. 2, Line 17		7,902,098,311	
Line 36/Line 37 * 100		0.0990	Applicati
Revised V1 Exhibit 1, Line 34	\$	257,879	
Revised V2 Exhibit 1, Line 30	\$	1,510,615	
Revised V3 Exhibit 1, Line 27	\$	10,479,257	
Revised V3 Exhibit 1, Line 27	\$	2,501,818	
Revised V3 Exhibit 1, Line 27	\$	650,543	
V4 Exhibit 1, Line 6	\$	1,339,288	
Revised Year 2014 Exhibit 1, Pg. 2, Line 7	\$	9,387,748	
Revised Year 2014 Exhibit 1, Pg. 2, Line 16	\$	7,825,195	
	\$	33,952,342	Applicati

RIDER EE (SC)
ENERGY EFFICIENCY RIDER

APPLICABILITY (South 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 Public Service Commission of South Carolina (PSCSC). 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.

The Rider will recover the cost of Duke Energy Carolinas' Interruptible Service and Stand-By Generator programs ("Existing DSM Programs") based on the cost of bill credits and amounts paid to customers participating on these programs ("Program Costs"). Revenue requirements will be determined on a system basis and allocated to SC retail customer classes based on the class contribution to system peak demand.

I. PROGRAM YEARS 2009-2013 (Vintages 1-4)

GENERAL PROVISIONS

This Rider will recover the cost of Duke Energy Carolinas' Save-a-Watt ("SAW") energy efficiency and demand-side management programs, using the method approved by the PSCSC, for programs implemented over a 4 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, as well as lost revenues resulting from the energy efficiency programs. Lost revenues associated with each vintage will be recovered for 36 months upon implementation. As a result the Rider will continue beyond the 4 year period to fully recover lost revenues for programs in years 3 and 4.

Revenue requirements for SAW demand-side management programs will be determined on a system basis and allocated to South Carolina retail customers based on the class contribution to system retail peak demand. Revenue requirements for SAW energy efficiency programs will be determined on a system basis and allocated to all South Carolina retail customer classes based on SC retail contribution to system retail sales. Residential customers will pay for the allocated cost of residential programs; non-residential customers will pay for the allocated cost of non-residential programs.

Revenue requirements will be determined on a system basis and allocated to South Carolina retail customers based on the South Carolina retail contribution to system retail peak demand for demand side management programs and South Carolina retail contribution to system retail kWh sales for energy efficiency programs. Residential customer classes will pay for residential programs and non-residential customer classes will pay for non-residential 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 completed cost of service study utilizing the allocation method approved by PSCSC 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 for SAW programs 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.

Participation true-ups: After the first 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: EM&V activities and results will be included in a mid-term EM&V-based true-up process that will be reflected in Vintage Year 3 Rider EE collections. A final EM&V true-up reflected in Vintage Year 6 Rider EE collections will incorporate all EM&V studies completed since the mid-term EM&V true-up. EM&V results will include measure-level savings adjustments and net-to-gross analysis. In addition, the mid-term and final true-ups will

RIDER EE (SC)
ENERGY EFFICIENCY RIDER

incorporate the most recent EM&V results in the avoided cost true-up, the lost revenue true-up, and the earnings cap true-up. Earnings cap true-up: In the sixth year a true up will be billed, if applicable, to refund amounts collected through the Rider in excess of the earnings cap, in accordance with the following levels of achievement 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%

DETERMINATION OF ENERGY EFFICIENCY RIDER ADJUSTMENT

Energy Efficiency Adjustments (EEA) will be applied to the energy (kilowatt hours) billed of all rate schedules for each vintage as determined by the following formula:

EEA Residential (expressed as cents per kWh) = SAW Residential Adjustment + Existing DSM Residential Adjustment

SAW Residential Adjustment = Residential Avoided Cost Revenue Requirement + Residential Lost Revenues / Forecasted Residential kWh Sales for the Rider billing period

Where

Residential Avoided Cost Revenue Requirement = (Residential Demand Side Management Program Avoided Cost Revenue Requirement X 75%) + (Residential Energy Efficiency Program Avoided Cost Revenue Requirement X 55%)

And

Existing DSM Residential Adjustment = Non-SAW Residential Program Costs / Forecasted Residential kWh Sales for the Rider billing period

EEA Non-residential (expressed as cents per kWh) = SAW Non-residential Adjustment + Existing DSM Non-residential Adjustment

SAW Non-residential Adjustment = Non-residential Avoided Cost Revenue Requirement + Non-residential Lost Revenues / Forecasted Non-residential kWh Sales (excluding opt out sales) for the Rider billing period

Where

Non-residential Avoided Cost Revenue Requirement = (Non-residential Demand Side Management Program Avoided Cost Revenue Requirement X 75%) + (Non-residential Energy Efficiency Program Avoided Cost Revenue Requirement X 55%)

And

Existing DSM Non-residential Adjustment = Non-SAW Non-residential Program Costs / Forecasted Non-residential kWh Sales (excluding opt out sales) for the Rider billing period

II. PROGRAM YEARS BEGINNING 2014

GENERAL PROVISIONS

This Rider will recover the cost of new energy efficiency and demand-side management programs, using the method approved by the PSCSC, for programs implemented during 12-month program years (or "Vintage Years").

RIDER EE (SC)
ENERGY EFFICIENCY 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 trued-up on an annual basis as actual customer participation and actual kW and kWh impacts are verified. The true-up will reflect actual participation and EM&V results for the most recently completed vintage. If a customer participates in any vintage of programs, the customer is subject to the true-ups for any vintage of programs in which the customer participated.

RIDER EE OPT OUT PROVISION FOR QUALIFYING NON-RESIDENTIAL CUSTOMERS

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

- a. The Customer attests or certifies to the Company that it has performed or had performed for it an energy audit or analysis within the three year period preceding the opt out request and has implemented or has plans for implementing the cost-effective energy efficiency measures recommended in that audit or analysis; and
- b. The Customer is served under an electric service agreement where the establishment is classified as a “manufacturing industry” by the Standard Industrial Classification Manual published by the United States Government, and where more than 50% of the electric energy consumption of such establishment is used for its manufacturing processes.

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 designated annual two month enrollment period. For the Rider EE 2014 Program Year, the enrollment period begins November 1, 2013 and ends December 31, 2013.
- 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 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 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.

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 non-residential 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.

RIDER EE (SC)
 ENERGY EFFICIENCY RIDER

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, 2014 through December 31, 2014 including revenue-related taxes and utility assessments are as follows:

<u>Residential</u>	Vintage 1, 2, 3,4	0.2820¢ per kWh	
	Vintage 2014	<u>0.3182¢ per kWh</u>	
	Total Residential	0.6002¢ per kWh	
<u>Nonresidential</u>		<u>Energy Efficiency</u>	<u>Demand Side Management</u>
	Vintage 1	0.0029¢ per kWh	NA
	Vintage 2	0.0174¢ per kWh	NA
	Vintage 3	0.1286¢ per kWh	0.0312 ¢ per kWh
	Vintage 4	0.0153¢ per kWh	NA
	2014 Vintage*	0.1103¢ per kWh	0.0990 ¢ per kWh
	Total Vintage 1, 2, 3,4,2014	0.2745¢ per kWh	0.1302¢ per kWh
	Total Nonresidential	0.4047¢ per kWh	

***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.

RESIDENTIAL

Adjustment to Revenue Requirement:

- 1 EE Avoided Cost Component
- 2 DSM Avoided Cost Component
- 3 Total Residential Avoided Cost Component
- 4 Gross Receipts Tax and Regulatory Fee
- 5 Total EE/DSM Residential Avoided Cost Component
- 6 Total Lost Revenues Vintage 1
- 7 Residential Save-A-Watt Revenue Requirement
- 8 Billing Factor
- 9 Residential Save-A-Watt Revenue Requirement
- 10 Residential Existing DSM Program Revenue Requirement
- 11 Total Residential SAW & Existing DSM Program Revenue Requirement
- 12 Earnings Cap Adjustment
- 13 Residential Revenue Requirement Capped
- 14 Amount Collected through Riders 1, 2 actual and Rider 3 estimate
- 15 Total Collected for Vintage 1 (Rider 1, Rider 2, and Rider 3 actuals)
- 16 Adjustment for Actual vs Estimated rider 3 collections
- 17 Total Adjustment before Interest
- 18 Interest Amount due
- 19 Residential True-up Amount with Interest

Adjustment to Revenue Collected:

- Prior Rider -Vintage 1, Exhibit 1
- Prior Rider -Vintage 1, Exhibit 1
- Line 1 + Line 2
- Line 3 * Line 4
- Vintage 1 Exhibit 2
- Line 5 + Line 6
- Line 7 * Line 8
- Prior Rider -Vintage 1, Exhibit 1
- Line 9 + Line 10
- Prior Rider -Vintage 1, Exhibit 1
- Line 11 + Line 12
- Prior Rider -Vintage 1, Exhibit 1
- Revised RS Exhibit 2, Line 1
- Line 15 - Line 14
- Line 13 - Line 16
- Revised RS Exhibit 4, Page 1 of 4, Line 12
- Line 17 + Line 18

NON-RESIDENTIAL

Adjustment to Revenue Requirement:

- 20 SAW EE Avoided Cost Component
- 21 Gross Receipts Tax and Regulatory Fee
- 22 Total Non-Residential Avoided Cost Component
- 23 Total Lost Revenues Vintage 1
- 24 Non-Residential EE Revenue Requirement
- 25 Billing Factor
- 26 Total Non-Residential EE Revenue Requirement
- 27 Earnings Cap Adjustment
- 28 Non-Residential Revenue Requirement Capped
- 29 Amount Collected through Riders 1, 2 actual and Rider 3 estimate
- 30 Total Collected for Vintage 1 (Rider 1, Rider 2, and Rider 3 actuals)
- 31 Adjustment for Actual vs Estimated Rider 3 collections
- 32 Total Adjustment before Interest
- 33 Interest Amount due
- 34 Non-Residential True-up Amount Vintage 1 with Interest
- 35 Projected SC Non-Residential Sales (kWh) for billing period
- 36 Non-Residential Rider EE (cents per kWh)

Adjustment to Revenue Collected:

- Prior Rider -Vintage 1, Exhibit 1
- Line 20 * Line 21
- Vintage 1 Exhibit 2
- Line 22 + Line 23
- Line 24 * Line 25
- Prior Rider -Vintage 1, Exhibit 1
- Line 26 + Line 27
- Prior Rider -Vintage 1, Exhibit 1
- Revised RS Exhibit 2, Lines 4
- Line 30 - Line 29
- Line 26 - Line 31
- RS Exhibit 4, Page 3 of 4, Line 12
- Line 32 + Line 33
- RS Exhibit 3, Line 25
- Line 34/Line 35 * 100

* Includes 1 month of Year 3 (January 2012)

Detail of Adjustments to Vintage 1		Rider 3	
Adjustments to Vintage 1	Net Lost Revenue Rate Change Impact	Collections True-up	
unchanged			
unchanged			
unchanged			
unchanged			
\$ (20,702)	\$ (20,702)		
\$ (20,702)	\$ (20,702)		
100%	100%		
\$ (20,702)	\$ (20,702)		
unchanged			
\$ (20,702)	\$ (20,702)		
unchanged			
\$ (20,702)	\$ (20,702)		
		\$ 19,135,396	
		\$ 18,553,061	
		\$ (582,335)	
		\$ 561,633	
		\$ 25,556	
		\$ 587,189	

See Exhibit A for rate

Detail of Adjustments to Vintage 1		Rider 3	
Adjustments to Vintage 1 -EE Participants	Net Lost Revenue Rate Change Impact	Collections True-up	
unchanged			
unchanged			
\$ (5,399)	\$ (5,399)		
\$ (5,399)	\$ (5,399)		
100%	100%		
\$ (5,399)	\$ (5,399)		
unchanged			
		\$ 3,772,514	
		\$ 3,525,622	
		\$ (246,892)	
		\$ 241,493	
		\$ 16,386	
		\$ 257,879	
		\$ 8,978,388,405	
		\$ 0.0029	

Revised Vintage 2 Exhibit 1

Date Energy Credits
for the Period January 1, 2021 - December 31, 2021
Docket Number 2022-0299-4
Calculation of True-Up for Vintage 2

RESIDENTIAL

Adjustment to Revenue Requirement:

- 1 EE Avoided Cost Component
- 2 DSM Avoided Cost Component
- 3 Residential Avoided Cost Component
- 4 Residential Avoided Cost Component
- 5 Residential Avoided Cost Component
- 6 Total EE/DSM/Residential Avoided Cost Component
- 7 Residential Avoided Cost Component
- 8 Billing Factor
- 9 Residential Saw-tooth Revenue Requirement for Billing
- 10 Residential Existing DSM Program Revenue Requirement
- 11 Total Residential SAW & Existing DSM Program Revenue Requirement

Adjustment to Revenue Collected:

- 12 Amount Collected through Rider 2 actual and Rider 3 estimate
- 13 Total Collected for Vintage 2 (Rider 2 and Rider 3 Actuals)
- 14 Adjustment for Actual vs Estimated Rider 3 collections

- 15 Total Adjustment before Interest
- 16 Interest Amount due Company
- 17 Residential True-up Amount with Interest

Details of Adjustments to Vintage 2				
Adjustments to Vintage 2	Update of Participation in HEER & Smartmeter	Net Lost Revenue Rate Change Impact	Year 2 Lost Revenues True-up	Year 3 Lost Revenues True-up
\$ (84) \$	(84)			
\$ 1,008,508	(84)			
\$ 2,200,911	(84)			
\$ 2,280,817	(84)	(5,041)	(753,422)	3,039,365
		100%	100%	85%
\$ 1,828,912	(84)	(5,041)	(753,422)	2,518,460
\$ 1,828,912	(84)	(5,041)	(753,422)	2,518,460
\$ (1,033,318)				\$ 20,311,563
\$ 2,958,231				\$ 19,288,245
\$ 89,439				\$ (1,033,318)
\$ 2,877,670				

See exhibit A for rate

NON-RESIDENTIAL

Adjustment to Revenue Requirement:

- 18 EE Programs
- 19 EE Programs
- 20 Green Receipts for and Utility Fee
- 21 Total Loss Requirements Avoided Cost Component
- 22 Total Loss Requirements Avoided Cost Component
- 23 Non-Residential EE Revenue Requirement
- 24 Billing Factor
- 25 Non-Residential EE Revenue Requirement

Adjustment to Revenue Collected:

- 26 Amount Collected through Rider 2 actual and Rider 3 estimate
- 27 Total Collected for Vintage 2 (Rider 2 and Rider 3 Actuals)
- 28 Adjustment for Actual vs Estimated Rider 3 collections

- 29 Total Adjustment before Interest
- 30 Interest Amount due Company
- 31 Non-Residential True-up Amount Vintage 2 with Interest
- 32 Projected SC Non-Residential Sales (BWh) for billing period
- 33 Non-Residential Rider EE (cents per kWh)

Details of Adjustments to Vintage 2				
Adjustments to Vintage 2	Update of Participation in HEER & Smartmeter	Net Lost Revenue Rate Change Impact	Year 2 Lost Revenues True-up	Year 3 Lost Revenues True-up
\$ (60,784)				
\$ 1,436,695				
\$ 74,920				
\$ 1,510,615				
\$ 6,660,803				
\$ 0.0174				
\$ 1,436,146		(7,761)	702,002	794,905
\$ 1,436,146		(7,761)	702,002	794,905
		100%	100%	85%
\$ 1,374,911		(7,761)	702,002	675,669
\$ (60,784)				\$ 4,205,799
\$ 1,436,695				\$ 4,144,985
\$ 74,920				\$ (60,784)
\$ 1,510,615				
\$ 6,660,803				

Duke Energy Carolinas
 For the Period January 1, 2012 - December 31, 2012 and
 For the Period January 1, 2014 - December 31, 2014
 Docket Number 2013-299-E

Calculation of True-up for Vintage 3, Year 1 and estimated Lost Revenues for Year 3

Vintage 3, Year 1 Revenue Requirement True-up	Vintage 3, Year 3 Lost Revenue Estimate
\$ 9,321,124	
\$ 4,369,850	
\$ 13,690,974	
1,004,508	
\$ 13,752,693	
\$ 3,780,225	\$ 1,241,878
\$ 17,532,918	\$ 1,241,878
100%	85%
\$ 17,532,918	\$ 1,055,596
806,196	
\$ 18,339,114	\$ 1,055,596
\$ 7,036,063	
\$ 11,303,052	\$ 1,055,596
\$ 1,216,900	
\$ 12,519,951	\$ 1,055,596

See Exhibit A for rate

RESIDENTIAL

- 1 EE Avoided Cost Component V3 Exhibit 2, Line 8
- 2 DSM Avoided Cost Component V3 Exhibit 2, Line 9
- 3 Total Residential Avoided Cost Component Line 1 + Line 2
- 4 Gross Receipts Tax and Regulatory Fee Line 3 * Line 4
- 5 Total EE/DSM Residential Avoided Cost Component R5 Exhibit 1, Line 36
- 6 Total Lost Revenues Vintage 3 Line 5 + Line 6
- 7 Residential Save A-Watt Revenue Requirement Line 7 * Line 8
- 8 Billing Factor V3 Exhibit 3, Line 5
- 9 Residential Save-A-Watt Revenue Requirement Line 9 + Line 10
- 10 Residential Existing DSM Program Revenue Requirement Revised R5 Exhibit 2, Line 3
- 11 Total Residential SAW & Existing DSM Program Revenue Requirement Line 11 - Line 12
- 12 Total Collected for Vintage 3 (Rider 3) Revised R5 Exhibit 4, Page 2 of 4, Line 12
- 13 Residential True-up Amount before Interest Line 13 + Line 14
- 14 Interest Amount due Company
- 15 Residential True-up Amount with Interest

NON-RESIDENTIAL

- 16 SAW EE Avoided Cost Component V3 Exhibit 2, Line 17
- 17 SAW DSM Avoided Cost Component V3 Exhibit 2, Line 18
- 18 Gross Receipts Tax and Regulatory Fee Line 16 * Line 18 ; Line 17 * Line 18
- 19 Total Non-Residential Avoided Cost Component R5 Exhibit 1, Line 44
- 20 Total Lost Revenues Vintage 3 Line 19 + Line 20
- 21 Non-Residential EE/DSM Revenue Requirement Line 21 * Line 22
- 22 Billing Factor V3 Exhibit 3, Line 5
- 23 Total Non-Residential EE/DSM Revenue Requirement Line 23 + Line 24
- 24 Existing DSM Program Revenue Requirement Revised R5 Exhibit 2, Lines 6 and 9
- 25 Total Non-Residential SAW & Existing DSM Program Revenue Requirement Line 25 - Line 26
- 26 Total Collected for Vintage 3 (Rider 3) R5, Exhibit 4, Pg. 4 of 4, Lines 12 & 25
- 27 Non-Residential True-up Amount before Interest Line 27 + Line 28
- 28 Interest Amount due Company R5, Exhibit 3, Line 25
- 29 Non-Residential True-up Amount with interest Line 25/ Line 26*100
- 30 Projected SC Non-Residential Sales (kWh) for billing period
- 31 Non-Residential Rider EE (cents per kWh)

EE Participant		DSM Participant	
Vintage 3, Year 1 Revenue Requirement True-up	Vintage 3, Year 3 Lost Revenue Estimate	Vintage 3, Year 1 Revenue Requirement True-up	
\$ 12,616,665		\$ 5,896,413	
1,004,508		1,004,508	
\$ 12,673,541		\$ 5,922,994	
\$ 817,159	\$ 765,344		
\$ 13,490,700	\$ 765,344	\$ 5,922,994	
100%	85%	100%	
\$ 13,490,700	\$ 650,543	\$ 5,922,994	
\$ 13,490,700	\$ 650,543	\$ 7,010,826	
\$ 4,029,994		1,087,832	
\$ 9,460,706	\$ 650,543	\$ 4,752,177	
\$ 1,018,551		\$ 2,258,649	
\$ 10,479,257	\$ 650,543	\$ 243,169	
\$ 8,656,764,337	\$ 8,656,764,337	\$ 2,501,818	
0.1211	0.0075	\$ 8,008,974,420	
		0.0282	

Duke Energy Carolinas LLC
Docket No. 2013-299-E
Estimated Annual Riders Applicable to Residential Customers

Energy Efficiency Programs	Reference	Year 1
Line 1 Residential EE Program Cost	McManeus Revised Exhibit 1, Line 1	\$11,092,076
Line 2 Residential EE Earned Utility Incentive	McManeus Revised Exhibit 1, Line 2	\$474,839
Line 3 Total EE Program Cost and Incentive Components	Line 1 + Line 2	\$11,566,915
Line 4 Residential DSM Program Cost	McManeus Revised Exhibit 1, Line 4	\$4,046,230
Line 5 Residential DSM Earned Utility Incentive	McManeus Revised Exhibit 1, Line 5	\$920,825
Line 6 Total DSM Program Cost and Incentive Components	Line 4 + Line 5	\$4,967,055
Line 7 Residential Existing DSM Program Revenue Requirement	McManeus Exhibit 4	\$806,196
Line 8 Total EE/DSM Program Cost and Incentive Components	Line 3 + Line 6+ Line 7	\$17,340,166
Line 9 Revenue-related taxes and regulatory fees factor		1.004508
Line 10 Total EE Program Cost and Incentive Revenue Requirement	Line 8 * Line 9	\$17,418,336
Line 11 Residential Net Lost Revenues	Duff Exhibit 3, Line 103	\$3,286,819
Line 12 Total Residential EE Revenue Requirement	Line 10 + Line 11	\$20,705,154
Line 13 Projected SC Residential Sales (kWh)	McManeus Exhibit 2, Line 3	6,505,979,955
Line 14 NC Residential EE Billing Factor (Cents/kWh)	Line 12 / Line 13*100	0.3182

Duke Energy Carolinas LLC

Docket No. 2013-299-E

Estimated Annual Riders Applicable to the Non-Residential Customers

Non-Residential Energy Efficiency Programs

Line	Reference	Year 1
1	Non- Residential EE Program Cost	\$6,041,479
2	Non-Residential EE Earned Utility Incentive	\$2,559,346
3	Total EE Program Cost and Incentive Components	\$8,600,825
4	Revenue-related taxes and regulatory fees factor	1.004508
5	Total Non-Residential EE Program Cost and Incentive Revenue Requirements	\$8,639,597
6	Non-Residential Net Lost Revenues	\$748,151
7	Total Non-Residential EE Revenue Requirement	\$9,387,748
8	Projected NC Residential Sales (kWh)	8,513,956,840
9	NC Non-Residential EE billing factor (Cents/kWh)	0.1103

Non-Residential DSM Programs

Line	Reference	Year 1
10	Non-Residential DSM Program Cost	\$5,459,739
11	Non-Residential DSM Earned Utility Incentive	\$1,242,506
12	Total Non-Residential DSM Program Cost and Incentive Components	\$6,702,245
13	Non-Residential Existing DSM Program Revenue Requirement	\$1,087,832
14	Total Non-Residential SAW & Existing DSM Program Revenue Requirement	\$7,790,077
15	Revenue-related taxes and regulatory fees factor	1.004508
16	Total Non-Residential DSM Revenue Requirement	\$7,825,195
17	Projected NC Non-Residential Sales (kWh)	7,902,098,311
18	NC Non-Residential DSM billing factor	0.0990

Revised Rider 5 Exhibit 2

Duke Energy Carolinas
For the Period February 1, 2010 - December 31, 2013
Docket Number 2013-299-E
DSM/EE Actual Revenues Collected from Riders 1-3 (By Vintage)
and Estimated 2013 Collections from Rider 4 (by Vintage)

Line		Actual 2010 Rider 1	Actual 2011 Rider 2	Actual 2012 Rider 3	Actuals Total	Estimated 2013 Rider 4*
	Residential					
1	EE and DSM v1	\$ 11,158,939	\$ 2,523,002	\$ 4,871,120	\$ 18,553,061	\$ 420,791
2	EE and DSM v2	\$	\$ 15,053,260	\$ 4,244,985	\$ 19,298,245	\$ 3,861,472
3	EE and DSM v3	\$	\$	\$ 7,036,063	\$ 7,036,063	\$ 2,898,497
	Non-Residential					
4	EE v1	\$ 1,792,808	\$ 108,741	\$ 1,624,073	\$ 3,525,622	\$ 1,861,453
5	EE v2	\$	\$ 3,721,416	\$ 423,569	\$ 4,144,985	\$ 5,340,611
6	EE v3	\$	\$	\$ 4,029,994	\$ 4,029,994	\$ 1,132,101
7	DSM v1	\$ 2,979,777	\$	\$ 1,050,109	\$ 4,029,886	\$ (76,741)
8	DSM v2	\$	\$ 5,017,015	\$	\$ 5,017,015	\$ 1,332,206
9	DSM v3	\$	\$	\$ 4,752,177	\$ 4,752,177	\$ -
10	Total	\$ 15,931,524	\$ 26,423,434	\$ 28,032,089	\$ 70,387,047	\$ 16,770,390

* Estimate of Rider 4 revenues represents the revenue requirement before interest as filed in Docket 2012-303E

Duke Energy Carolinas
For the Period February 1, 2010 - December 31, 2013
Docket Number 2013-299-E
Residential Interest Calculation True-up - Vintage 1

Residential

Vintage 2	2010	2011	2012	2013	Total
1 Revenue Requirement	\$ 14,413,173	\$ 4,729,684	\$ 392,628	\$ -	\$ 19,535,485
2 Revenue Collections	\$ 11,158,939	\$ 2,523,002	\$ 4,871,120	\$ 420,791	\$ 18,973,852
3 (Over) / Under Collection	\$ 3,254,234	\$ 2,206,682	\$ (4,478,492)	\$ (420,791)	\$ 561,633
4 Cumulative (Over)/Under Collection	\$ 3,254,234	\$ 5,460,917	\$ 982,424	\$ 561,633	\$ 561,633
5 Average Balance (Over)/Under Collection	\$ 1,627,117	\$ 4,357,576	\$ 3,221,671	\$ 772,029	\$ 772,029
6 Monthly rate (WACC)	0.006245	0.006245	0.005971	0.005946	0.005946
7 Number of Months	12	12	12	12	12
8 Interest Due (Owed)	\$ 121,936	\$ 326,557	\$ 230,839	\$ 55,086	\$ 734,418
9 Interest Paid (Returned) in Prior Rider					\$ 708,977
10 Interest Due - Rider 5					\$ 25,441
11 Gross Receipts Tax					\$ 1,004,508
12 Interest Due - including GRT - Rider 5					\$ 25,556

13 Weighted average cost of capital (WACC)

7.4938%	NOTE A	7.4938%	NOTE A	7.1650%	NOTE B	7.1351%	NOTE C
---------	--------	---------	--------	---------	--------	---------	--------

NOTE A: Docket 2009-226-E

NOTE B: Wtd. Avg. 1 month Docket 2009-226-E and 11 months Docket 2011-271-E (7.1351%)

NOTE C: 12 Months of DOCKET 2011-271-E (7.1351%) - No estimate of 3 months of 2013-59-E - use previous WACC as estimate

NOTE D: Collections for 2013 are an estimate equal to the revenue requirement before interest in Docket 2012-303-I

Vintage 2	2011	2012	2013	Total
14 Revenue Requirement	\$ 18,909,608	\$ 4,524,880	\$ 2,583,460	\$ 26,017,948
15 Revenue Collections	\$ 15,053,260	\$ 4,244,985	\$ 3,861,472	\$ 23,159,717
16 (Over) / Under Collection	\$ 3,856,348	\$ 279,895	\$ (1,278,012)	\$ 2,858,231
17 Cumulative (Over)/Under Collection	\$ 3,856,348	\$ 4,136,243	\$ 2,858,231	\$ 2,858,231
18 Average Balance (Over)/Under Collection	\$ 1,928,174	\$ 3,996,296	\$ 3,497,237	\$ 3,497,237
19 Monthly rate (WACC)	0.006245	0.005971	0.005946	0.005946
20 Number of Months	12	12	12	12
21 Interest Due (Owed)	\$ 144,497	\$ 286,343	\$ 249,535	\$ 680,375
22 Interest Paid (Returned) in Prior Rider				\$ 581,382
23 Interest Due - Rider 5				\$ 98,993
24 Gross Receipts Tax				\$ 1,004,508
25 Interest Due - including GRT - Rider 5				\$ 99,439

26 Weighted average cost of capital (WACC)

7.4938%	NOTE A	7.4938%	NOTE A	7.1650%	NOTE B	7.1351%	NOTE C
---------	--------	---------	--------	---------	--------	---------	--------

NOTE A: Docket 2009-226-E

NOTE B: Wtd. Avg. 1 month Docket 2009-226-E and 11 months Docket 2011-271-E (7.1351%)

NOTE C: 12 Months of DOCKET 2011-271-E (7.1351%) - No estimate of 3 months of 2013-59-E - use previous WACC as estimate

NOTE D: Collections for 2013 are an estimate equal to the revenue requirement before interest in Docket 2012-303-E adjusted for GRT update

Duke Energy Carolinas
For the Period January 2012 - December 31, 2013
Docket Number 2013-299-E
Residential Interest Calculation True-up - Vintage 3

Residential

	<u>2012</u>	<u>2013</u>	<u>Total</u>
Vintage 3			
1 Revenue Requirement	\$ 18,339,114	\$ 2,898,497	\$ 21,237,611
2 Revenue Collections			
3 (Over) / Under Collection	\$ 7,036,063	\$ 2,898,497	\$ 9,934,560
4 Cumulative (Over)/Under Collection	\$ 11,303,052	-	\$ 11,303,052
5 Average Balance (Over)/Under Collection	\$ 11,303,052	\$ 11,303,052	
6 Monthly rate (WACC)	\$ 5,651,526	\$ 11,303,052	
7 Number of Months	0.005971	0.005946	
8 Interest Due (Owed)	12	12	
9 Interest Paid (Returned) in Prior Rider	\$ 404,943	\$ 806,495	\$ 1,211,438
10 Interest Due - Rider 5			-
11 Gross Receipts Tax			\$ 1,211,438
12 Interest Due - including GRT - Rider 5			\$ 1,004,508
13 Weighted average cost of capital (WACC)	7.1650%	7.1351%	\$ 1,216,900

NOTE A: Wtd. Avg. 1 month Docket 2009-226-E and 11 months Docket 2011-271-E (7.1351%)

NOTE B: 12 Months of DOCKET 2011-271-E (7.1351%) - No estimate of 3 months of 2013-59-E - use previous WACC as estimate

NOTE C: Revenue Requirement & Collections for 2013 are an estimate equal to the revenue requirement before interest in Docket 2012-303-E