

REDACTED VERSION

DUKE ENERGY CAROLINAS, LLC  
 Docket No. E-7, Sub 1229  
 Compliance Costs for the EMF Period January 1, 2019 to December 31, 2019

Williams Exhibit No. 1  
 Page 1 of 2  
 February 25, 2020

Line No.	Renewable Resource	RECs	MWh (Energy)	Total Cost	Avoided Cost	Incremental Cost	Avoided Cost Recovered in Fuel Cost Adjustment Rider
[REDACTED]							
						\$ 29,508,739	
9	Other Incremental			\$ 1,406,748		\$ 1,406,748	(g)
10	Solar Rebate Program			\$ 886,014	Jennings Exhibit No. 2	\$ 886,014	(h)
11	Research			\$ 822,933		\$ 822,933	(i)
12	<b>Total</b>			[REDACTED] Jennings Exhibit No. 2		<u>\$ 32,624,434</u> (below)	
<u>Incremental cost category</u>						<u>Incremental Cost</u>	<u>Percent of Total Incremental Cost</u>
[REDACTED]							
15	<b>Total</b>					<u>\$ 32,624,434</u> (above)	

Allocate incremental cost of solar resources between solar compliance requirement and general compliance requirement:

16  
 17  
 18  
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 20  
 21

[REDACTED]							
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REDACTED VERSION

DUKE ENERGY CAROLINAS, LLC  
 Docket No. E-7, Sub 1229  
 Projected Compliance Costs for the Billing Period September 1, 2020 to August 31, 2021

Williams Exhibit No. 1  
 Page 2 of 2  
 February 25, 2020

Line No.	Renewable Resource	RECs	MWh (Energy)	Total Cost	Avoided Cost	Incremental Cost	Avoided Cost Recovered in Fuel Cost Adjustment Rider
[REDACTED]							
						\$ 28,857,570	
10	Other Incremental			\$ 1,465,200		\$ 1,465,200	(g)
11	Estimated receipts related to contract performance			\$ (1,000,000)	Jennings Exhibit No. 2	\$ (1,000,000)	(q)
12	Solar Rebate Program			\$ 1,744,750		\$ 1,744,750	(h)
13	Research			\$ 926,500		\$ 926,500	(i)
14	<b>Total</b>			[REDACTED]		<u>\$ 31,994,020</u>	(below)
				Jennings Exhibit No. 2		<b>Incremental Cost</b>	<b>Percent of Total Incremental Cost</b>
[REDACTED]							
17	<b>Total</b>					<u>\$ 31,994,020</u>	(above)

18 Allocate estimated incremental cost of solar resources between solar compliance requirement and general compliance requirement:  
 19 [REDACTED]  
 20 [REDACTED]  
 21 [REDACTED]  
 22 [REDACTED]  
 23 [REDACTED]

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

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

Combined North Carolina Retail and Wholesale

Line No.	Customer Class	Total Unadjusted Number of Accounts <sup>(1)</sup>	Adjustment for Self-supplied Requirements <sup>(1)</sup>	Total Adjusted Number of Accounts <sup>(1)</sup>	Annual Rider Cap per Customer Class Account	Annual Adjusted Revenue Cap	Cost Cap Allocation Factor	Actual Incremental Costs for REPS Recovery	Annual Per Account Charge <sup>(2)</sup>
1	Residential	1,881,579	468,546	1,413,033	\$ 27	\$ 38,151,891	53.2%	\$ 17,362,724	\$ 12.29
2	General	264,560	65,775	198,785	\$ 150	\$ 29,817,750	41.6%	\$ 13,568,502	\$ 68.26
3	Industrial	4,958	1,234	3,724	\$ 1,000	\$ 3,724,000	5.2%	\$ 1,693,208	\$ 454.67
4	<b>Total</b>	<b>2,151,097</b>	<b>535,555</b>	<b>1,615,542</b>		<b>\$ 71,693,641</b>	<b>100.0%</b>	<b>\$ 32,624,434</b>	(b)

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

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

North Carolina Retail Only

Line No.	Customer Class	Total Adjusted Number of Accounts - DEC Retail <sup>(1)</sup>	Annual Per Account Charge <sup>(2)</sup>	Incremental Costs Allocated to DEC Retail	Percent of Incremental Cost	NC Retail Percent of Total Incremental Cost
5	Residential	1,310,205	\$ 12.29	\$ 16,102,419		
6	General	187,154	\$ 68.26	\$ 12,775,132		
7	Industrial	3,576	\$ 454.67	\$ 1,625,900		
8	<b>Total</b>	<b>1,500,935</b>		<b>30,503,451</b>	(a)	93.50% (a) / (b)
9	Set-aside, Other Incremental, Solar Rebate, and Research			\$ 19,705,229	64.6%	Williams Exhibit No. 1, page 1 Line Nos. 13,14
10	General RECs			\$ 10,798,222	35.4%	
11	Total Incremental Cost for Retail			<b>30,503,451</b>		

Notes:

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

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

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

North Carolina Retail Only

Line No.	Customer Class	Total Unadjusted Number of Accounts <sup>(1)</sup>	Annual Rider Cap per Customer Class Account	Calculated Annual Revenue Cap	Cost Cap Allocation Factor	Allocated Annual Set-aside, Other Incremental, Solar Rebate Program, and Research Cost
1	Residential	1,746,940	\$ 27	47,167,380	52.78%	\$ 10,400,394
2	General	249,539	\$ 150	37,430,850	41.88%	\$ 8,253,492
3	Industrial	4,768	\$ 1,000	4,768,000	5.34%	\$ 1,051,343
4	<b>Total</b>	<b>2,001,247</b>		<b>89,366,230</b>	<b>100.00%</b>	<b>\$ 19,705,229</b>

Williams Ex. No. 2 Pg 1  
Line No. 9

Calculate General Requirement incremental costs per customer class:

North Carolina Retail Only

Line No.	Customer Class	Number of RECs for General compliance <sup>(3)</sup> (a)	% of EE REC supplied by Class <sup>(2)</sup>	REC Requirement supplied by EE by class <sup>(b)</sup>	Number of General RECs net of EE (c) = (a) - (b)	General Cost Allocation Factor = (c) / (d)	Allocated Annual General Incremental Costs
5	Residential		38.0%			62.46%	\$ 6,744,570
6	General		48.0%			37.88%	\$ 4,090,366
7	Industrial		14.0%			-0.34%	\$ (36,714)
8	<b>Total</b>		<b>100%</b>			<b>100.00%</b>	<b>\$ 10,798,222</b>

Williams Ex. No. 2 Pg 1  
Line No. 10

Total cost allocation by customer class - adjusted EMF Period:

	Total Incremental REPS cost by class	% Incremental REPS cost by class
9 Residential	\$ 17,144,964	56.21%
10 General	\$ 12,343,858	40.47%
11 Industrial	\$ 1,014,629	3.33%
12 <b>Total</b>	<b>\$ 30,503,451</b>	<b>100.00%</b>

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

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



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

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

North Carolina Retail Only
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Line No.	Account Type	Allocated Annual Set-aside, Other Incremental, Solar Rebate Program, and Research Cost	Allocated Annual General Incremental Costs	Total Incremental Costs Incurred January through December 2019	Actual NC Retail REPS Revenues Realized - January through December 2019	REPS EMF - Under/(Over)-Collection, before Interest	Interest on Over-collection <sup>(1)</sup>	REPS EMF - Under/(Over)-Collection
1	Residential	\$ 10,400,394	\$ 6,744,570	\$ 17,144,964	\$ 16,826,582	\$ 318,382	\$ -	\$ 318,382
2	General	\$ 8,253,492	\$ 4,090,366	\$ 12,343,858	\$ 12,374,018	\$ (30,160)	\$ (5,027)	\$ (35,187)
3	Industrial	\$ 1,051,343	\$ (36,714)	\$ 1,014,629	\$ 875,426	\$ 139,203	\$ -	\$ 139,203
4	<b>Total</b>	<b>\$ 19,705,229</b>	<b>\$ 10,798,222</b>	<b>\$ 30,503,451</b>	<b>\$ 30,076,026</b>	<b>\$ 427,425</b>	<b>\$ (5,027)</b>	<b>\$ 422,398</b>

Williams Ex. No. 2 Pg 2 Line No. 4	Williams Ex. No. 2 Pg 2 Line No. 8	Williams Ex. No. 2 Pg 2 Line No. 12
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Note:

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

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

**Allocate Incremental Cost per Customer Class - Billing Period**

Combined North Carolina Retail and Wholesale

Line No.	Customer Class	Total Unadjusted Number of Accounts <sup>(1)</sup>	Adjustment for Self-supplied Requirements <sup>(1)</sup>	Total Adjusted Number of Accounts <sup>(1)</sup>	Annual Rider Cap per Customer Class Account	Annual Adjusted Revenue Cap	Cost Cap Allocation Factor	Projected Incremental Costs	Annual Per Account Charge <sup>(2)</sup>
1	Residential	1,905,975	470,874	1,435,101	\$ 27	\$ 38,747,727	53.4%	\$ 17,088,006	\$ 11.91
2	General	266,259	65,651	200,608	\$ 150	\$ 30,091,200	41.5%	\$ 13,271,119	\$ 66.15
3	Industrial	4,927	1,217	3,710	\$ 1,000	\$ 3,710,000	5.1%	\$ 1,634,894	\$ 440.67
4	<b>Total</b>	<b>2,177,161</b>	<b>537,742</b>	<b>1,639,419</b>		<b>\$ 72,548,927</b>	<b>100.0%</b>	<b>\$ 31,994,020</b>	

Williams Exhibit No. 1, page 2 Line No. 14

**Calculate NC Retail-only annual REPS cost per Customer Class - Billing Period**

North Carolina Retail Only

Line No.	Customer Class	Total Adjusted Number of Accounts - Duke Retail <sup>(1)</sup>	Annual Per Account Charge <sup>(2)</sup>	Incremental Costs Allocated to Duke Retail	
5	Residential	1,327,193	\$ 11.91	\$ 15,806,869	
6	General	188,332	\$ 66.15	\$ 12,458,162	
7	Industrial	3,553	\$ 440.67	\$ 1,565,701	
8	<b>Total</b>	<b>1,519,078</b>		<b>29,830,732</b>	
9	Set-aside, Other Incremental, Solar Rebate, and Research			\$ 19,032,007	63.8%
10	General RECs			\$ 10,798,725	36.2%
11	Total Incremental Cost for Retail			<b>29,830,732</b>	<b>Williams Exhibit No. 1, page 2 Line Nos. 15, 16</b>

Notes:

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

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

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

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

Williams Ex. No. 3 Pg 1  
Line 9

Calculate General costs per customer class - Billing Period:

North Carolina Retail Only - Billing Period							
	Customer Class	Number of RECs for General compliance <sup>(3)</sup> (a)	% of EE REC supplied by Class <sup>(2)</sup>	REC Requirement supplied by EE by class <sup>(b)</sup>	Number of General RECs net of EE (c) = (a) - (b)	General Cost Allocation Factor (e) = (c) / (d)	Allocated Annual General Incremental Costs
5	Residential		38%			62.79%	\$ 6,780,519
6	General		48%			37.69%	\$ 4,070,039
7	Industrial		14%			-0.48%	\$ (51,834)
8	<b>Total</b>		<b>100%</b>			<b>100.00%</b>	<b>\$ 10,798,725</b>

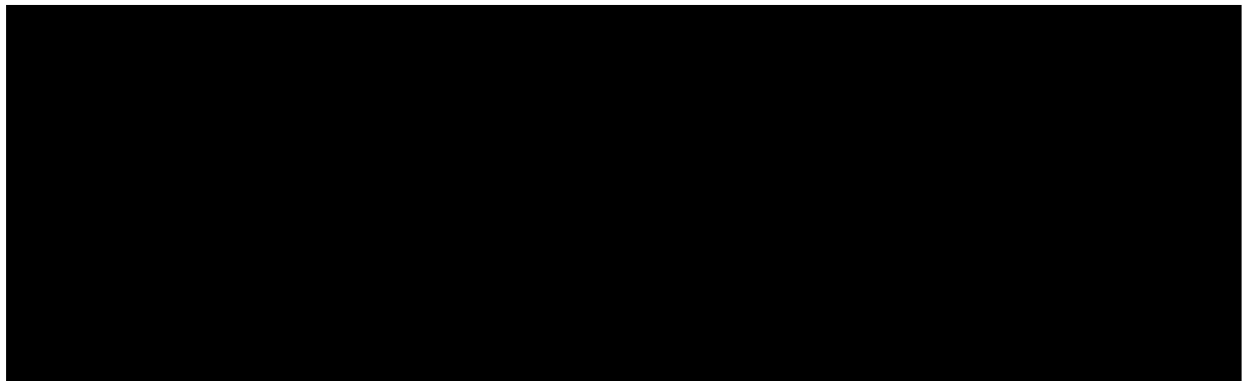
Williams Ex. No. 3 Pg 1  
Line 10

Total cost allocation by customer class - Billing Period:

		Total Incremental REPS cost by class	% Incremental REPS cost by class
9	Residential	\$ 16,863,752	56.53%
10	General	\$ 12,019,120	40.29%
11	Industrial	\$ 947,859	3.18%
12	<b>Total</b>	<b>\$ 29,830,731</b>	<b>100.00%</b>

Williams Ex. No. 3 Pg 1  
Line 11

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



DUKE ENERGY CAROLINAS, LLC  
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February 25, 2020

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

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

North Carolina Retail Annual Rider Cost by Account Type

Line No.	Customer Class	Allocated Annual Set-aside and Other Incremental costs	Allocated Annual General Incremental Costs	Total Incremental Costs
1	Residential	\$ 10,083,233	\$ 6,780,519	\$ 16,863,752
2	General	\$ 7,949,081	\$ 4,070,039	\$ 12,019,120
3	Industrial	\$ 999,693	\$ (51,834)	\$ 947,859
4	<b>Total</b>	<b>\$ 19,032,007</b>	<b>\$ 10,798,724</b>	<b>\$ 29,830,731</b>
		Williams Exhibit No. 3, Pg 2, line 4	Williams Exhibit No. 3, Pg 2, line 8	Williams Exhibit No. 3, Pg 2, line 12



**Calculate DEC NC Retail monthly REPS rider components:**

North Carolina Retail								
Line No.	Customer Class	Total Projected Number of Accounts -Duke Retail <sup>(1)</sup>	Annual REPS EMF Under/(Over)-Collection	Receipts for Contract Amendments, Penalties, Change-of-control, Etc. <sup>(3)</sup>	Total EMF costs/(credits)	Monthly EMF Rider <sup>(2)</sup>	Projected Total Incremental Costs	Monthly REPS Rider <sup>(2)</sup>
1	Residential	1,769,590	\$ 318,382	\$ (588,018)	\$ (269,636)	\$ (0.01)	\$ 16,863,752	\$ 0.79
2	General	251,109	\$ (35,187)	\$ (423,355)	\$ (458,542)	\$ (0.15)	\$ 12,019,120	\$ 3.99
3	Industrial	4,737	\$ 139,203	\$ (34,799)	\$ 104,404	\$ 1.84	\$ 947,859	\$ 16.67
4		<u>2,025,436</u>	<u>\$ 422,398</u>	<u>\$ (1,046,172)</u>	<u>\$ (623,774)</u>		<u>\$ 29,830,731</u>	
							Williams Ex. No. 2	Williams Ex. No. 3
							Pg 3 Line No. 4	Pg 3 Line No. 4

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

North Carolina Retail										Information only:
Line No.	Customer Class	Monthly EMF Rider <sup>(2)</sup>	Monthly REPS Rider <sup>(2)</sup>	Combined Monthly Rider <sup>(2)</sup>	Regulatory Fee Multiplier	Total Monthly REPS Charge including Regulatory Fee	Total Annual REPS Charge including Regulatory Fee	Annual Per-Account Cost Cap	Total Annual REPS Charge excluding solar rebate cost - for per-account cap comparison only	
5	Residential	\$ (0.01)	\$ 0.79	\$ 0.78	1.001302	\$ 0.78	\$ 9.36	\$ 27.00	\$ 8.88	
6	General	\$ (0.15)	\$ 3.99	\$ 3.84	1.001302	\$ 3.84	\$ 46.08	\$ 150.00	\$ 43.32	
7	Industrial	\$ 1.84	\$ 16.67	\$ 18.51	1.001302	\$ 18.53	\$ 222.36	\$ 1,000.00	\$ 203.28	

Notes:

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

Customer Class	Total contract receipts - EMF Period Jan 2019 - Dec 2019	NC retail percentage of EMF Period costs - Williams Exhibit No. 2, Pg 1	Allocation to customer class - Williams Exhibit No. 2, Pg 2	Receipts for contract amendments, penalties, change-of-control, etc.
Residential			56.21%	\$ (588,018)
General			40.47%	\$ (423,355)
Industrial			3.33%	\$ (34,799)
Total contract payments received	<u>\$ (1,118,900)</u>	<u>\$ (1,046,172)</u>	<u>100.00%</u>	<u>\$ (1,046,172)</u>
	(a)		93.50%	

REPS (NC)  
RENEWABLE ENERGY PORTFOLIO STANDARD RIDER

APPLICABILITY (North Carolina Only)

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

APPROVED REPS MONTHLY CHARGE

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

RESIDENTIAL SERVICE AGREEMENTS

REPS Monthly Charge	\$ 0.79
Experience Modification Factor	(\$ 0.01)
Net REPS Monthly Charge	\$ 0.78
Regulatory Fee Multiplier	<u>1.001302</u>
Total REPS Monthly Charge per agreement per month	\$ 0.78

GENERAL SERVICE AGREEMENTS

REPS Monthly Charge	\$ 3.99
Experience Modification Factor	(\$ 0.15)
Net REPS Monthly Charge	\$ 3.84
Regulatory Fee Multiplier	<u>1.001302</u>
Total REPS Monthly Charge per agreement per month	\$ 3.84

INDUSTRIAL SERVICE AGREEMENTS

REPS Monthly Charge	\$ 16.67
Experience Modification Factor	\$ 1.84
Net REPS Monthly Charge	\$ 18.51
Regulatory Fee Multiplier	<u>1.001302</u>
Total REPS Monthly Charge per agreement per month	\$ 18.53

USE OF RIDER

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

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

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

**Williams Exhibit No. 6**  
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**February 25, 2020**

**Worksheet detailing energy efficiency certificate ("EEC") inventory**

**EEC inventory reconciliation - as of December 31, 2018**

	EECs <sup>(1)</sup>	Reference
EECs carried forward at Dec 31, 2013	2,709,318	2013 Compliance Report - Docket No. E-7, Sub 1052
EECs generated for 2014 per Company's annual update	2,011,450	E-7, Sub 1074, Williams Exhibit No. 6
Less: EECs used for compliance for 2014	<u>415,459</u>	2014 Compliance Report - Docket No. E-7, Sub 1074
EECs carried forward at Dec 31, 2014	4,305,309	2014 Compliance Report - Docket No. E-7, Sub 1074
EECs generated for 2015 per Company's annual update	2,310,608	E-7, Sub 1106, Williams Exhibit No. 6
Less: EECs used for compliance for 2015	<u>855,980</u>	2015 Compliance Report - Docket No. E-7, Sub 1106
EECs carried forward at Dec 31, 2015	5,759,937	2015 Compliance Report - Docket No. E-7, Sub 1106
EECs generated for 2016 per Company's annual update	2,152,597	E-7, Sub 1131, Williams Exhibit No. 6
Less: EECs used for compliance for 2016	<u>866,492</u>	2016 Compliance Report - Docket No. E-7, Sub 1131
EECs carried forward at Dec 31, 2016	7,046,042	2016 Compliance Report - Docket No. E-7, Sub 1131
EECs generated for 2017 per Company's annual update	2,531,010	E-7, Sub 1162, Williams Exhibit No. 6
Less: EECs used for compliance for 2017	<u>863,135</u>	2017 Compliance Report - Docket No. E-7, Sub 1162
EECs carried forward at Dec 31, 2017	8,713,917	2017 Compliance Report - Docket No. E-7, Sub 1162
EECs generated for 2018 per Company's annual update	3,060,454	E-7, Sub 1191, Williams Exhibit No. 6
Less: EECs used for compliance for 2018	<u>1,400,307</u>	2018 Compliance Report - Docket No. E-7, Sub 1191
EECs carried forward at Dec 31, 2018	10,374,064	2018 Compliance Report - Docket No. E-7, Sub 1191
EECs generated for 2019 per Company's annual update	3,044,778	Company workpapers <sup>(a)</sup>
Less: EECs used for compliance for 2019	<u>1,487,017</u>	2019 Compliance Report - Docket No. E-7, Sub 1229
EECs carried forward at Dec 31, 2019	<u><u>11,931,825</u></u>	2019 Compliance Report - Docket No. E-7, Sub 1229

**Summary workpapers - EECs generated**

**Update for 2019 EECs generated - as of year-end 2019:**

	Program year							
	2009 - 2013	2014	2015	2016	2017	2018	2019	Total
Current view at year-end 2019	3,578,636	1,881,130	2,195,026	2,292,223	2,612,972	2,821,394	3,267,747	18,649,128
Previously reported current view at year-end 2018	3,578,636	1,881,130	2,195,026	2,292,223	2,613,127	3,044,208		15,604,350
Total adjustments to previously reported results	0	0	0	0	(155)	(222,814)		
<b>Updated EECs created and available for 2019</b>	(b)	(b)	(b)	(b)	(c)	(d)		<b>3,044,778</b>

*detail of adjustments at page 2 of 2*

**Footnote:**

<sup>(1)</sup> Calculated EECs originate from details contained in the databases supporting Duke Energy Carolinas' energy efficiency filings, and are specific to North Carolina, calculated at the generation station level, are inclusive of free-ridership EE savings, and assume savings initiated in a program year continue only for the duration of the life of the applicable measure.

(a)

**Detail for adjustments to previously reported results through program year 2018:**

Adjustment type	Program	Program year						Total
		2013	2014	2015	2016	2017	2018	
° Evaluation, Measurement, & Verification ("EM&V"):								
	Home Energy Comparison Report (HECR)	-	-	-	-	-	(222,685)	(222,685)
	HVAC Energy Efficiency (HVAC EE)	-	-	-	-	(113)	(508)	(621)
	Income Qualified Energy Efficiency and Weatherization Assistance (IQEE & WA)	-	-	-	-	-	418	418
	Energy Efficient Appliances and Devices (EEAD)	-	-	-	-	(34)	(167)	(201)
	Multi-Family Energy Efficiency (MFAM)	-	-	-	-	(8)	(22)	(30)
	Energy Efficiency Education (K12)	-	-	-	-	-	116	116
° Total EM&V adjustments		-	-	-	-	(155)	(222,848)	(223,003)
° Participation updates/adjustments								
	EnergyWise for Business (EWB)	-	-	-	-	-	26	26
	Non Residential Smart Saver Energy Efficient Lighting Products (NRLTG)	-	-	-	-	-	10	10
	Non Residential Smart Saver Energy Efficient Food Service Products (NRFS)	-	-	-	-	-	(2)	(2)
° Total participation adjustments		-	-	-	-	-	34	34
<b>Total adjustments to prior program years incorporated into 2019 current view - EE savings for REPS</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>(155)</b>	<b>(222,814)</b>	<b>(222,969)</b>
		(b)	(b)	(b)	(b)	(c)	(d)	

EM&V reports applicable to results reported above - filed as exhibits to the testimony of DEC witness Robert Evans in DEC's energy efficiency **Docket No. E-2, Sub 1230 - Evans Exhibit No. 8:**

Program	EM&V Reports	Report Finalization Date	Evaluation Type
IQEE & WA	Duke Energy Carolinas and Duke Energy Progress 2017 Neighborhood Energy Saver Program Evaluation Report - Final	11/30/2019	Process and Impact
HECR	My Home Energy Report Program Evaluation	7/10/2019	Process and Impact
PWRSHR	Duke Energy PowerShare Program 2018 Evaluation Report for Duke Energy Carolinas	5/2/2019	Process and Impact
HVAC EE	Smart Saver Evaluation Report — May 1, 2016 – April 30, 2017 (Revised)	3/15/2019	Process and Impact
K12	Energy Efficiency Education in Schools Program Year 2017-2018 Evaluation Report	2/1/2019	Process and Impact
NRCUST	Smart Saver® Non-Residential Custom Program Years 2016-2017 Evaluation Report	11/29/2018	Process and Impact

REDACTED VERSION

**Summary cost recovery worksheet - DEC utility-owned solar project**

**Project:** Woodleaf  
 Project size: 6 MWac  
 CPCN docket No. E-7, Sub 1101  
 CPCN filing date: March 3, 2016  
 NCUC Order date: June 16, 2016

**Original CPCN estimate:**  
 Total capital expenditure (\$000s) [REDACTED]  
 Total annual levelized revenue requirement (\$000s) [REDACTED]

**Updated tax benefit monetization estimates:**  
 Total capital expenditure (\$000s) [REDACTED]  
 Total annual levelized revenue requirement (\$000s) [REDACTED]

**Updated tax benefit monetization and capital expenditure estimates:**  
 Total capital expenditure (\$000s) [REDACTED]  
 Total annual levelized revenue requirement (\$000s) [REDACTED]

**Levelized cost recovery summary - annual:**

<b>Woodleaf</b>	\$/MWH	Percent to total	Annual Levelized cost (\$000s)
Total cost - original estimate	[REDACTED]	[REDACTED]	[REDACTED]
Avoided cost	[REDACTED]	[REDACTED]	[REDACTED]
<b>Incremental cost</b>	[REDACTED]	[REDACTED]	[REDACTED]
<b>Cap for REPS cost recovery</b>	[REDACTED]	[REDACTED]	[REDACTED]
Total cost - updated tax benefit monetization estimates only	[REDACTED]	[REDACTED]	[REDACTED]
Avoided cost	[REDACTED]	[REDACTED]	[REDACTED]
<b>Incremental cost</b>	[REDACTED]	[REDACTED]	[REDACTED]
<b>Cap for REPS cost recovery</b>	[REDACTED]	[REDACTED]	[REDACTED]
Total cost - updated tax benefit monetization estimates and actual capital expenditures	[REDACTED]	[REDACTED]	[REDACTED]
Avoided cost	[REDACTED]	[REDACTED]	[REDACTED]
<b>Incremental cost</b>	[REDACTED]	[REDACTED]	[REDACTED]
<b>Cap for REPS cost recovery</b>	[REDACTED]	[REDACTED]	[REDACTED]