Exhibit 3.4.7: Riverbend ARO Cash Flows Response to SCORS Interrogatory 10-09								
Duke Energy Carolinas								
CCR ARO Project Cost Estimates - Riverbend								
As of 9/30/18								
			Actual	Actual	Actual	Actual	Forecast	Forecast
Item	Total	FN	2015	2016	2017	1/1 - 9/30/18	10/1 - 12/31/18	2019
Basin Closure	$ 60,165,387	a	$ -	$ -	$ -	$ -	$ -	$ 58,366,832
CCP Basin Support Projects	3,391,731	b	-	-	-	-	-	2,422,431
EHS	13,323,043	c	-	-	-	-	-	1,130,924
Post-Closure Maintenance	7,073,464	d	-	-	-	-	-	-
Landfill Closure	-	e	-	-	-	-	-	-
Spend To Date	322,350,347		39,667,308	86,404,316	134,089,437	62,189,285	-	-
Remaining Current Year Forecast	16,381,527	f	-	-	-	-	16,381,527	-
Inflation Impacts	10,429,109	g	-	-	-	-	-	1,424,164
Total Riverbend	**$ 433,114,608**		**$ 39,667,308**	**$ 86,404,316**	**$ 134,089,437**	**$ 62,189,285**	**$ 16,381,527**	**$ 63,344,351**
FN - Please see Footnotes tab for further explanations								

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Exhibit 3.4.8: W.S. Lee ARO Cash Flows Response to SCORS Interrogatory 10-09								
Duke Energy Carolinas								
CCR ARO Project Cost Estimates - WS Lee								
As of 9/30/18								
			Actual	Actual	Actual	Actual	Forecast	Forecast
Item	Total	FN	2015	2016	2017	1/1 - 9/30/18	10/1 - 12/31/18	2019
Basin Closure	$ 135,323,921	a	$ -	$ -	$ -	$ -	$ -	$ 13,461,535
CCP Basin Support Projects	771,181	b	-	-	-	-	-	654,969
EHS	14,008,145	c	-	-	-	-	-	513,477
Post-Closure Maintenance	3,038,206	d	-	-	-	-	-	-
Landfill Closure	-	e	-	-	-	-	-	-
Spend To Date	99,145,771		19,687,325	35,344,738	37,577,688	6,536,020	-	-
Remaining Current Year Forecast	3,389,962	f	-	-	-	-	3,389,962	-
Inflation Impacts	22,901,957	g	-	-	-	-	-	336,490
Total WS Lee	**$ 278,579,141**		**$ 19,687,325**	**$ 35,344,738**	**$ 37,577,688**	**$ 6,536,020**	**$ 3,389,962**	**$ 14,966,471**
FN - Please see Footnotes tab for further explanations								

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Duke Energy Carolinas, LLC
Docket No. 2018 - 319 - E
Amortize deferred environmental costs
For the test period ended December 31, 2017
(Dollars in thousands)

Line No.	Description	Source	Total SC Retail Supplemental	Nov Update	Oct Update	Original	Change
1							
2	**Pro Formas Impacting Income Statement Line Items**						
3							
4	Electric operating revenue		$ -	$ -	$ -	$ -	$ -
5							
6	Electric operating expenses:						
7	Operation and maintenance						
8	Fuel used in electric generation						
9	Purchased power						
10	Other operation and maintenance expense						
11	Depreciation and amortization	SC-1801	48,277	47,474	48,226	48,381	(104)
12	General taxes						
13	Interest on customer deposits						
14	Income taxes	SC-1801	(12,045)	(11,845)	(12,032)	(12,071)	26
15	Amortization of investment tax credit						
16							
17	Total electric operating expenses	Sum L8 through L15	36,232	35,629	36,194	36,310	(78)
18							
19	Operating income	L4 - L17	$ (36,232)	$ (35,629)	$ (36,194)	$ (36,310)	$ 78
20							
21	Notes:						
22	Revenue: positive number increases revenue / negative number decreases revenue						
23	Expense: positive number increases expense / negative number decreases expense						
24							
25							
26	**Pro Formas Impacting Rate Base Line Items**						
27							
28	Electric plant in service		$ -	$ -	$ -	$ -	$ -
29	Accumulated depreciation and amortization						
30	Electric plant in service, net	Sum L28 through L29	-	-	-	-	-
31							
32	Add:						
33	Materials and supplies		-	-	-	-	-
34	Working capital investment	SC-1801	193,106	189,896	192,905	193,522	(416)
35			-	-	-	-	-
36							
37	Less:						
38	Accumulated deferred taxes	SC-1801	(48,180)	(47,379)	(48,130)	(48,284)	104
39	Operating reserves		-	-	-	-	-
40			-	-	-	-	-
41							
42	Construction work in progress		-	-	-	-	-
43							
44	Total impact to rate base	Sum L30 through L42	$ 144,926	$ 142,517	$ 144,775	$ 145,238	$ (312)
45							
46	Note:						
47	Rate Base: positive number increases rate base / negative number decreases rate base						

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Duke Energy Carolinas, LLC
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For the test period ended December 31, 2017
(Dollars in thousands)

Line No.	Description		Total SC Retail	
1	Impact to Income Statement Line Items			
2	Depreciation and amortization:			
3	Projected ending balance at May 31, 2019	$	241,383	[1]
4	Balance for amortization (L3)	$	241,383	
5				
6	Years to amortize		5	[2]
7				
8	Annual amortization (L4 / L6)	$	48,277	
9				
10	Impact to depreciation and amortization (L8)	$	48,277	
11				
12	Statutory tax rate		24.95%	[3]
13				
14	Impact to income taxes (-L8 x L12)	$	(12,045)	
15				
16	Impact to operating income (-L8 - L14)	$	(36,232)	
17				
18				
19	Impact to Rate Base Line Items			
20	Working capital investment:			
21	Cost of Service Coal Ash Deferral in Rate Base 12/31/2017	$	-	[4]
22				
23	Projected June 2018 coal ash balance (L4)	$	241,383	
24	Less 2018 Coal Ash Deferral Amortization (-L8)		(48,277)	
25	Projected Coal Ash Deferral Balance in rate base 12/31/2018	$	193,106	
26				
27	Impact to working capital investment (L24-L20)	$	193,106	
28				
29	Impact to accumulated deferred income tax (-L 27 x L12)	$	(48,180)	
30				
31	Impact to rate base (L27 + L29)	$	144,926	

[1] SC-1802 - ARO, Column (I), Line 55 and SC-1808 - Non ARO Column (M), Line 18
[2] Amortization period = 5 years
[3] SC-0104 - 2018 Calculation of Tax Rates - Statutory Tax Rate, Line 10
[4] Account balance was removed from Cost of Service Rate Base

Duke Energy Carolinas, LLC
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For the test period ended December 31, 2017

Calculation of Deferral - Projected Ending Balance

	After Tax LTD Rate	After Tax Equity Rate
2015 [6]	1.5324%	5.4060% [6]
2016 [6]	1.5324%	5.4060% [6]
2017 [6]	1.5324%	5.4060% [6]
2018 [6]	1.8624%	5.4060% [6]

						Duke Energy Carolinas Coal Ash Deferral (South Carolina Retail)							
										Compounded Monthly			
Line No.	Month	System Spend Excl. CAMA	CAMA NC Only Costs	% to SCR for Spend	Beginning Balance	SC Retail Spend Excl. CAMA	SC Retail NDTF Overcollection Offset	SC Retail Balance for Return	Def. Cost of Debt	Def. Cost of Equity	Total Return	Ending Balance
1		(a)	(b)	(c)	(e)=(h)+(k)	(f)=(a)x(c)	(g)	(h)=(e)+(f)+(g)	(i)=((e)+((f+g)/2)) * (LTD rate/12)	(j)=((e)+((f+g)/2)) * (Equity rate/12)	(k)=(i)+(j)	(l)
2								-				
3	Jan-15	223,476 [1]		23.1303% [3]	-	51,690.54	(416,250) [4]	(364,559)	(233)	(821)	(1,054)	(365,613)
4	Feb-15	1,852,817 [1]		23.1303% [3]	(365,613)	428,562	(416,250) [4]	(353,302)	(459)	(1,619)	(2,078)	(355,380)
5	Mar-15	4,024,840 [1]		23.1303% [3]	(355,380)	930,956	(416,250) [4]	159,326	(125)	(442)	(567)	158,760
6	Apr-15	8,354,020 [1]		23.1303% [3]	158,760	1,932,308	(416,250) [4]	1,674,817	1,171	4,130	5,301	1,680,118
7	May-15	28,361,405 [1]		23.1303% [3]	1,680,118	6,560,071	(416,250) [4]	7,823,939	6,068	21,408	27,476	7,851,416
8	Jun-15	17,518,880 [1]		23.1303% [3]	7,851,416	4,052,165	(416,250) [4]	11,487,331	12,348	43,561	55,908	11,543,239
9	Jul-15	23,835,485 [1]		23.1303% [3]	11,543,239	5,513,213	(416,250) [4]	16,640,202	17,995	63,483	81,478	16,721,680
10	Aug-15	3,365,065 [1]		23.1303% [3]	16,721,680	778,349	(416,250) [4]	17,083,779	21,585	76,147	97,731	17,181,511
11	Sep-15	19,822,502 [1]		23.1303% [3]	17,181,511	4,584,999	(416,250) [4]	21,350,260	24,602	86,793	111,395	21,461,655
12	Oct-15	23,528,622 [1]		23.1303% [3]	21,461,655	5,442,235	(416,250) [4]	26,487,640	30,615	108,006	138,621	26,626,261
13	Nov-15	16,794,787 [1]	- [2]	23.1303% [3]	26,626,261	3,884,680	(416,250) [4]	30,094,692	36,216	127,764	163,980	30,258,672
14	Dec-15	22,428,928 [1]	- [2]	23.1303% [3]	30,258,672	5,187,873	(416,250) [4]	35,030,294	41,687	147,063	188,750	35,219,045
15	Jan-16	18,449,938 [1]	- [2]	23.1930% [3]	35,219,045	4,279,095	(416,250) [4]	39,081,890	47,441	167,363	214,804	39,296,693
16	Feb-16	14,602,955 [1]	- [2]	23.1930% [3]	39,296,693	3,386,864	(416,250) [4]	42,267,308	52,078	183,723	235,801	42,503,109
17	Mar-16	20,871,278 [1]	- [2]	23.1930% [3]	42,503,109	4,840,677	(416,250) [4]	46,927,536	57,101	201,443	258,544	47,186,079
18	Apr-16	19,048,527 [1]	- [2]	23.1930% [3]	47,186,079	4,417,926	(416,250) [4]	51,187,755	62,811	221,587	284,398	51,472,154
19	May-16	26,256,603 [1]	- [2]	23.1930% [3]	51,472,154	6,089,696	(416,250) [4]	57,145,599	69,352	244,661	314,013	57,459,613
20	Jun-16	23,769,894 [1]	- [2]	23.1930% [3]	57,459,613	5,512,953	(416,250) [4]	62,556,316	76,630	270,336	346,965	62,903,281
21	Jul-16	29,883,427 [1]	- [2]	23.1930% [3]	62,903,281	6,930,865	(416,250) [4]	69,417,896	84,486	298,053	382,540	69,800,436
22	Aug-16	21,503,921 [1]	- [2]	23.1930% [3]	69,800,436	4,987,406	(416,250) [4]	74,371,592	92,053	324,747	416,801	74,788,393
23	Sep-16	31,101,852 [1]	- [2]	23.1930% [3]	74,788,393	7,213,455	(416,250) [4]	81,585,597	99,844	352,232	452,076	82,037,674
24	Oct-16	30,896,527 [1]	112,637 [2]	23.1930% [3]	82,037,674	7,165,833	(416,250) [4]	88,787,257	109,071	384,783	493,854	89,281,111
25	Nov-16	34,840,099 [1]	286,998 [2]	23.1930% [3]	89,281,111	8,080,467	(416,250) [4]	96,945,328	118,905	419,475	538,380	97,483,707
26	Dec-16	15,438,423 [1]	125,735 [2]	23.1930% [3]	97,483,707	3,580,634	(416,250) [4]	100,648,092	126,506	446,292	572,798	101,220,890
27	Jan-17	13,261,549 [1]	145,780 [2]	23.6118% [3]	101,220,890	3,131,292	(416,250) [4]	103,935,932	130,992	462,116	593,107	104,529,039
28	Feb-17	23,334,305 [1]	214,546 [2]	23.6118% [3]	104,529,039	5,509,653	(416,250) [4]	109,622,442	136,735	482,376	619,111	110,241,553
29	Mar-17	28,425,332 [1]	241,514 [2]	23.6118% [3]	110,241,553	6,711,737	(416,250) [4]	116,537,039	144,797	510,819	655,616	117,192,655
30	Apr-17	18,611,125 [1]	249,602 [2]	23.6118% [3]	117,192,655	4,394,424	(416,250) [4]	121,170,829	152,194	536,914	689,108	121,859,937
31	May-17	19,170,264 [1]	410,269 [2]	23.6118% [3]	121,859,937	4,526,447	(416,250) [4]	125,970,134	158,238	558,237	716,475	126,686,609
32	Jun-17	17,451,274 [1]	243,490 [2]	23.6118% [3]	126,686,609	4,120,562	(416,250) [4]	130,390,922	164,143	579,067	743,210	131,134,131
33	Jul-17	26,814,375 [1]	630,925 [2]	23.6118% [3]	131,134,131	6,331,360	(416,250) [4]	137,049,242	171,234	604,083	775,317	137,824,558
34	Aug-17	24,929,923 [1]	496,240 [2]	23.6118% [3]	137,824,558	5,886,407	(416,250) [4]	143,294,716	179,493	633,221	812,714	144,107,430
35	Sep-17	24,192,417 [1]	486,666 [2]	23.6118% [3]	144,107,430	5,712,268	(416,250) [4]	149,403,448	187,405	661,133	848,538	150,251,987
36	Oct-17	28,198,559 [1]	520,275 [2]	23.6118% [3]	150,251,987	6,658,191	(416,250) [4]	156,493,928	195,856	690,945	886,801	157,380,729
37	Nov-17	21,193,522 [1]	953,623 [2]	23.6118% [3]	157,380,729	5,004,175	(416,250) [4]	161,968,654	203,903	719,334	923,237	162,891,891
38	Dec-17	17,186,987 [1]	869,807 [2]	23.6118% [3]	162,891,891	4,058,159	(416,250) [4]	166,533,801	210,337	742,031	952,368	167,486,169
39	Jan-18	15,594,959 [1]	1,828,776 [2]	24.0911% [3]	167,486,169	3,756,994	(416,250) [4]	170,826,913	262,537	762,050	1,024,587	171,851,500
40	Feb-18	13,059,722 [1]	1,692,296 [2]	24.0911% [3]	171,851,500	3,146,228	(416,250) [4]	174,581,478	268,838	780,340	1,049,178	175,630,656
41	Mar-18	20,423,538 [1]	2,137,570 [2]	24.0911% [3]	175,630,656	4,920,251	(416,250) [4]	180,134,657	276,080	801,361	1,077,441	181,212,098
42	Apr-18	17,192,797 [1]	2,754,450 [2]	24.0911% [3]	181,212,098	4,141,930	(416,250) [4]	184,937,779	284,139	824,753	1,108,891	186,046,670
43	May-18	13,912,007 [1]	1,948,439 [2]	24.0911% [3]	186,046,670	3,351,553	(416,250) [4]	188,981,972	291,029	844,752	1,135,781	190,117,753
44	Jun-18	20,555,993 [1]	3,288,297 [2]	24.0911% [3]	190,117,753	4,952,161	(416,250) [4]	194,653,664	298,589	866,698	1,165,287	195,818,950
45	Jul-18	13,552,381 [1]	2,413,852 [2]	24.0911% [3]	195,818,950	3,264,915	(416,250) [4]	198,667,615	306,128	888,581	1,194,709	199,862,325
46	Aug-18	19,887,297 [1]	297,577 [2]	24.0911% [3]	199,862,325	4,791,065	(416,250) [4]	204,237,139	313,588	910,234	1,223,822	205,460,962
47	Sep-18	23,127,416 [1]	444,995 [2]	24.0911% [3]	205,460,962	5,571,644	(416,250) [4]	210,616,356	322,883	937,214	1,260,097	211,876,453
48	Oct-18	21,519,355 [1]	890,823 [2]	24.0911% [3]	211,876,453	5,184,245	(416,250) [4]	216,644,448	332,540	965,243	1,297,783	217,942,231
49	Nov-18	21,844,941 [1]	436,112 [2]	24.0911% [3]	217,942,231	5,262,682	(416,250) [4]	222,788,663	342,015	992,746	1,334,761	224,123,424
50	Dec-18	11,398,160 [1]	251,510 [2]	24.0911% [3]	224,123,424	2,745,940	(416,250) [4]	226,453,114	349,655	1,014,924	1,364,579	227,817,693
51	Jan-19			24.0911% [3]	227,817,693	-	(416,250) [4]	227,401,443	353,258	1,025,381	1,378,639	228,780,082
52	Feb-19			24.0911% [3]	228,780,082	-	(416,250) [4]	228,363,832	354,751	1,029,717	1,384,468	229,748,300
53	Mar-19			24.0911% [3]	229,748,300	-	(416,250) [4]	229,332,050	356,254	1,034,078	1,390,333	230,722,382
54	Apr-19			24.0911% [3]	230,722,382	-	(416,250) [4]	230,306,132	357,766	1,038,467	1,396,233	231,702,365
55	May-19			24.0911% [3]	231,702,365	-	(416,250) [4]	231,286,115	359,287	1,042,882	1,402,168	232,688,284 [7]
56												
57												
58		931,612,469	24,372,804			218,967,257	(22,061,250)		8,652,409	27,129,867	35,782,276	
	to 9/30/18	876,850,013	22,794,359									

[1] SC-1803 - Duke Energy Carolinas - System Spend - Coal Ash excluding Column (b) CAMA NC Only Costs - Incremental
[2] SC-1804 - Duke Energy Carolinas - CAMA NC Only Costs - Incremental. Not included in SC deferral balance calculation
[3] SC-1805 - Allocation Factors
[4] SC-1807 - excess Nuclear Decommissioning Trust Fund
[5] Compounding formula
[6] SC-1806 - Weighted Cost of Capital Rates for Duke Energy Carolinas
[7] Adjusted to reflect a rates effective date of Jun 1, 2019

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Duke Energy Carolinas - System Spend - Coal Ash

Line No.	Month	2015 Actuals	2016 Actuals	2017 Actuals	2018 Actuals
1	January	223,476	18,449,938	13,407,329	17,423,735
2	February	1,852,817	14,602,955	23,548,851	14,752,019
3	March	4,024,840	20,871,278	28,666,846	22,561,107
4	April	8,354,020	19,048,527	18,860,727	19,947,247
5	May	28,361,405	26,256,603	19,580,532	15,860,446
6	June	17,518,880	23,769,894	17,694,764	23,844,290
7	July	23,835,485	29,883,427	27,445,300	15,966,233
8	August	3,365,065	21,503,921	25,426,163	20,184,874
9	September	19,822,502	31,101,852	24,679,083	23,572,411
10	October	23,528,622	31,009,164	28,718,834	22,410,178
11	November	16,794,787	35,127,098	22,147,146	22,281,053
12	December	22,428,928	15,564,158	18,056,794	11,649,671
13					
14					
15	Total	170,110,828	287,188,813	268,232,370	230,453,263

Source: Duke Energy Carolinas Asset Accounting

through 9/30/18	$ 899,644,372.38
drinking water	$ (22,794,359.12)
ARO ask	$ 876,850,013.26

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Duke Energy Carolinas - CAMA NC Only Costs - Incremental

Line No.	Month	2015 Actuals	2016 Actuals	2017 Actuals	2018 Actuals	Total
1	January		-	145,780	1,828,776	
2	February		-	214,546	1,692,296	
3	March		-	241,514	2,137,570	
4	April		-	249,602	2,754,450	
5	May		-	410,269	1,948,439	
6	June		-	243,490	3,288,297	
7	July		-	630,925	2,413,852	
8	August		-	496,240	297,577	
9	September		-	486,666	444,995	
10	October		112,637	520,275	890,823	
11	November	-	286,998	953,623	436,112	
12	December	-	125,735	869,807	251,510	
13	Total	-	525,370	5,462,738	18,384,697	24,372,804

Source: Duke Energy Carolinas Asset Accounting through 9/30/18 $ 22,794,359.12

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Duke Energy Carolinas, LLC
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Duke Energy Carolinas - Cost of Service - Demand Allocation Factors

Line No.	Allocation Factor	South Carolina Retail 2014	2015	2016	2017
1					
2	Allocation Factor - Demand at Generation Level	23.1303%	23.1930%	23.6118%	24.0911%

[1] 2014-2016 Allocation Factor - Demand at Generation Level- (Factor 1)
[2] 2017 Allocation Factor - All - Production Demand

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Supplemental

Weighted Cost of Capital Rates for Duke Energy Carolinas

Line No.	Description	Capitalization Ratio [1]	Approved Cost Rate [1]	Inception - December 2015 Weighted Cost of Capital (WACC) Return	After tax	Before Tax
1						
2	Long Term Debt	47.00%	5.28%	2.4816%	1.5324%	2.4816%
3	Equity	53.00%	10.20%	5.4060%	5.4060%	8.7547%
4	Total	100.00%		7.8876%	6.9384%	11.2363%
5						
6	Return on Equity Rate		1.6584%			
7	Effective State and Federal Income Tax Rate		38.2500%			

				Jan-Dec 2016		
8						
9						
10		Capitalization	Approved	Weighted Cost of Capital (WACC)		
11	Description	Ratio [1]	Cost Rate [1]	Return	After tax	Before Tax
12						
13	Long Term Debt	47.00%	5.28%	2.4816%	1.5324%	2.4816%
14	Equity	53.00%	10.20%	5.4060%	5.4060%	8.7547%
15	Total	100.00%		7.8876%	6.9384%	11.2363%
16						
17	Return on Equity Rate		1.6584%			
18	Effective State and Federal Income Tax Rate		38.2500%			

				Jan-Dec 2017		
19						
20						
21		Capitalization	Approved	Weighted Cost of Capital (WACC)		
22	Description	Ratio [1]	Cost Rate [1]	Return	After tax	Before Tax
23						
24	Long Term Debt	47.00%	5.28%	2.4816%	1.5324%	2.4816%
25	Equity	53.00%	10.20%	5.4060%	5.4060%	8.7547%
26	Total	100.00%		7.8876%	6.9384%	11.2363%
27						
28	Return on Equity Rate		1.6584%			
29	Effective State and Federal Income Tax Rate		38.2500%			

				Jan-Dec 2018		
1						
2		Capitalization	Approved	Weighted Cost of Capital (WACC)		
3	Description	Ratio [1]	Cost Rate [1]	Return	After tax	Before Tax
4						
5	Long Term Debt	47.00%	5.28%	2.4816%	1.8624%	2.4816%
6	Equity	53.00%	10.20%	5.4060%	5.4060%	7.2032%
7	Total	100.00%		7.8876%	7.2684%	9.6848%
8						
9	Return on Equity Rate		1.9884%			
10	Effective State and Federal Income Tax Rate		24.95% [3]			

[1] Cost of capital rates from Docket 2013-59-E
[2] Duke Energy Carolinas Accounting
[3] SC-0104 - 2018 Calculation of Tax Rates - Statutory Tax Rate, Line 10

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Duke Energy Carolinas - South Carolina - NDTF Overcollection

Line No.		South Carolina Retail	
1	South Carolina - NDTF Overcollection	(4,995,000)	[1]
2	Monthly offset (L1 / 12)	(416,250)	

[1] SC Docket 2015-96-E