



Matthew R. Bernier  
Associate General Counsel

July 25, 20178

**VIA ELECTRONIC FILING**

Ms. Carlotta Stauffer, Commission Clerk  
Florida Public Service Commission  
2540 Shumard Oak Boulevard  
Tallahassee, Florida 32399-0850

Re: *Environmental Cost Recovery Clause; Docket No. 20180007-EI*

Dear Ms. Stauffer:

On behalf of Duke Energy Florida, LLC ("DEF"), please find enclosed for electronic filing in the above-referenced docket:

- DEF's Petition for Approval of 2018 Environmental Cost Recovery Actual/ Estimated True Up;
- Direct Testimony of Christopher A. Menendez and Exhibit No. \_\_\_\_ (CAM-3) and Exhibit No. \_\_\_\_ (CAM-4);
- Direct Testimony of Timothy Hill;
- Direct Testimony of Jeffrey Swartz; and
- Direct Testimony of Patricia Q. West.

Thank you for your assistance in this matter. Please feel free to call me at (850) 521-1428 should you have any questions concerning this filing.

Respectfully,

*s/Matthew R. Bernier*

Matthew R. Bernier  
[Matthew.Bernier@duke-energy.com](mailto:Matthew.Bernier@duke-energy.com)

MRB/mw  
Enclosures

**BEFORE THE PUBLIC SERVICE COMMISSION**

In re: Environmental Cost Recovery Clause

Docket No. 20180007-EI

Dated: July 25, 2018

**DUKE ENERGY FLORIDA'S PETITION FOR APPROVAL OF 2018  
ENVIRONMENTAL COST RECOVERY ACTUAL/ESTIMATED TRUE-UP**

Duke Energy Florida, LLC ("the Company"), hereby petitions for approval of its Environmental Cost Recovery Clause ("ECRC") actual/estimated true-up for the period January 2018 to December 2018. In support of this Petition, the Company states:

1. As discussed in the testimony of Christopher A. Menendez filed contemporaneously with this Petition, the Company's total actual/estimated true-up for this period is an over-recovery, including interest, of \$4,444,194.

2. This amount will be added to the final true-up over-recovery of \$4,814,791 for 2017 discussed in Mr. Menendez's April 2, 2018 testimony filed in this docket, resulting in a net over-recovery of \$9,258,985. Documentation supporting the actual/estimated and net true-up over-recovery is contained in Commission Schedules 42-1E through 42-9E, which are provided as Exhibit No. \_\_ (CAM-3) to Mr. Menendez's testimony of today's date. Additional cost information for specific ECRC programs are presented in the testimonies of Timothy Hill, Jeffrey Swartz, and Patricia Q. West, which also are being filed contemporaneously with this Petition.

2. The ECRC actual/estimated true-up presented in Mr. Menendez's testimony and exhibits are consistent with the provisions of Section 366.8255, Florida Statutes, and with prior rulings by the Commission.

WHEREFORE, Duke Energy Florida, LLC, respectfully requests that the Commission approve the Company's ECRC actual/estimated true-up over-recovery of \$9,258,985 for the period January 2018 through December 2018 as set forth herein and in the testimony and supporting exhibits of Mr. Menendez.

RESPECTFULLY SUBMITTED this 25th day of July, 2018.

*s/Matthew R. Bernier*

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Docket No. 20180007-EI  
**CERTIFICATE OF SERVICE**

I HEREBY CERTIFY that a true and correct copy of the foregoing has been furnished via electronic mail to the following this 25<sup>th</sup> day of July, 2018.

/s/ Matthew R. Bernier

Attorney

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BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION  
DIRECT TESTIMONY OF  
CHRISTOPHER A. MENENDEZ  
ON BEHALF OF  
DUKE ENERGY FLORIDA, LLC  
DOCKET NO. 20180007-EI  
July 25, 2018

**Q. Please state your name and business address.**

A. My name is Christopher A. Menendez. My business address is 299 First Avenue North, St. Petersburg, FL 33701.

**Q. Have you previously filed testimony before this Commission in Docket No. 20180007-EI?**

A. Yes, I provided direct testimony on April 2, 2018.

**Q. Has your job description, education, background and professional experience changed since that time?**

A. No.

**Q. What is the purpose of your testimony?**

A. The purpose of my testimony is to present, for Commission review and approval, Duke Energy Florida's ("DEF") actual/estimated true-up costs associated with environmental compliance activities for the period January 2018

1 through December 2018. I also explain the variance between 2018  
2 actual/estimated cost projections versus original 2018 cost projections for  
3 emission allowances (Project 5).

4

5 **Q. Have you prepared or caused to be prepared under your direction,**  
6 **supervision or control any exhibits in this proceeding?**

7 A. Yes. I am sponsoring the following exhibits:

- 8 1. Exhibit No. \_\_CAM-3, which consists of PSC Forms 42-1E through 42-  
9 9E; and
- 10 2. Exhibit No. \_\_CAM-4, which provides details of capital projects by  
11 site.

12 These exhibits provide detail on DEF's actual/estimated true-up capital and  
13 O&M environmental costs and revenue requirements for the period January  
14 2018 through December 2018.

15

16 **Q. What is the actual/estimated true-up amount for which DEF is requesting**  
17 **recovery for the period of January 2018 through December 2018?**

18 A. The 2018 actual/estimated true-up is an over-recovery, including interest, of  
19 \$4,444,194 as shown on Form 42-1E, line 4. This amount is added to the final  
20 2017 true-up over-recovery of \$4,814,791 as shown on Form 42-2E, Line 7a,  
21 resulting in a net over-recovery of \$9,258,985 as shown on Form 42-2E, Line  
22 11. The calculations supporting the 2018 actual/estimated true-up are on Forms  
23 42-1E through 42-8E.

1 **Q. What capital structure, components and cost rates did DEF rely on to**  
2 **calculate the revenue requirement rate of return for the period January**  
3 **2018 through December 2018?**

4 A. The capital structure, components and cost rates relied on to calculate the  
5 revenue requirement rate of return for the period January 2018 through  
6 December 2018 are shown on Form 42-9E. This form includes the derivation of  
7 debt and equity components used in the Return on Average Net Investment,  
8 lines 7 (a) and (b), on Form 42-8E. Form 42-9E also cites the source and  
9 includes the rationale for using the particular capital structure and cost rates.

10  
11 **Q. How do actual/estimated O&M expenditures for January 2018 through**  
12 **December 2018 compare with original projections?**

13 A. Form 42-4E shows that total O&M project costs are estimated to be \$1,015,382  
14 or 3% higher than originally projected. This form also lists individual O&M  
15 project variances. Explanations for these variances are included in the direct  
16 testimonies of Timothy Hill, Jeffrey Swartz and Patricia Q. West.

17  
18 **Q. How do estimated/actual capital recoverable costs for January 2018**  
19 **through December 2018 compare with DEF's original projections?**

20 A. Form 42-6E shows that total recoverable capital costs are estimated to be  
21 \$3,489,542 or 12% lower than originally projected. This form also lists  
22 individual project variances. The return on investment, depreciation expense  
23 and property taxes for each project for the actual/estimated period are provided

1 on Form 42-8E, pages 1 through 18. Explanations for these variances are  
2 included in the direct testimonies of Mr. Hill, Mr. Swartz and Ms. West.

3

4 **Q. Please explain the O&M variance between actual project expenditures and**  
5 **the Actual/Estimated projections for the SO<sub>2</sub>/NO<sub>x</sub> Emissions Allowance**  
6 **(Project 5).**

7 A. The O&M variance is \$11,717 or 45% higher than projected due to higher than  
8 projected SO<sub>2</sub> allowance expense.

9

10 **Q. Does this conclude your testimony?**

11 A. Yes.



**DUKE ENERGY FLORIDA**  
**Environmental Cost Recovery Clause**  
**Commission Forms 42-1E Through 42-9E**

**January 2018 - December 2018**  
**Calculation for the Current Period Actual / Estimated Amount**  
**Actuals for the Period January 2018 - June 2018**  
**Estimates for the Period July 2018 - December 2018**

**Docket No. 20180007-EI**

**DUKE ENERGY FLORIDA**  
**Environmental Cost Recovery Clause**  
**Calculation of Actual / Estimated Amount**  
**January 2018 - December 2018**  
**(in Dollars)**

Form 42-1E

Docket No. 20180007-EI

Duke Energy Florida

Witness: C. A. Menendez

Exh. No. \_\_ (CAM-3)

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<u>Line</u>	<u>Period Amount</u>
1 Over/(Under) Recovery for the Period (Form 42-2E, Line 5)	\$ 4,287,611
2 Interest Provision (Form 42-2E, Line 6)	156,583
3 Sum of Current Period Adjustments (Form 42-2E, Line 10)	<u>0</u>
4 Final True-Up Amount to be Refunded/(Recovered) in the Projection Period January 2018 to December 2018 (Lines 1 + 2 + 3)	<u>\$ 4,444,194</u>

**DUKE ENERGY FLORIDA**  
**Environmental Cost Recovery Clause**  
**Calculation of Actual / Estimated Amount**  
**January 2018 - December 2018**

Form 42-2E

Docket No. 20180007-EI  
Duke Energy Florida  
Witness: C. A. Menendez  
Exh. No. \_\_ (CAM-3)  
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**End-of-Period True-Up Amount**  
**(in Dollars)**

Line	Description	Actual Jan-18	Actual Feb-18	Actual Mar-18	Actual Apr-18	Actual May-18	Actual Jun-18	Estimated Jul-18	Estimated Aug-18	Estimated Sep-18	Estimated Oct-18	Estimated Nov-18	Estimated Dec-18	End of Period Total
1	ECRC Revenues (net of Revenue Taxes)	\$4,325,385	\$4,601,370	\$4,522,575	\$ 4,290,070	\$4,441,341	\$5,355,200	\$6,214,944	\$6,482,990	\$6,314,636	\$5,722,470	\$4,834,236	\$4,639,470	\$61,744,686
2	True-Up Provision (Order No. PSC-2018-0014-FOF-EI)	251,459	251,459	251,459	251,459	251,459	251,459	251,459	251,459	251,459	251,459	251,459	251,459	3,017,507
3	ECRC Revenues Applicable to Period (Lines 1 + 2)	\$4,576,844	4,852,829	4,774,034	4,541,529	4,692,799	5,606,659	6,466,402	6,734,449	6,566,095	5,973,929	5,085,695	4,890,929	64,762,193
4	Jurisdictional ECRC Costs													
	a. O & M Activities (Form 42-5E, Line 9)	\$2,622,245	3,078,387	3,502,953	2,169,564	2,628,494	2,233,725	3,206,057	3,137,920	3,107,861	3,459,885	3,480,693	3,471,621	36,099,405
	b. Capital Investment Projects (Form 42-7E, Line 9)	1,917,294	1,921,902	1,948,641	1,983,069	1,977,792	1,989,968	2,032,161	2,067,916	2,104,748	2,131,136	2,152,582	2,147,967	24,375,177
	c. Other	0	0	0	0	0	0	0	0	0	0	0	0	0
	d. Total Jurisdictional ECRC Costs	\$4,539,539	\$5,000,289	\$5,451,594	\$4,152,633	\$4,606,286	\$4,223,693	\$5,238,218	\$5,205,836	\$5,212,609	\$5,591,021	\$5,633,275	\$5,619,588	\$60,474,582
5	Over/(Under) Recovery (Line 3 - Line 4d)	\$37,305	(147,461)	(677,561)	388,896	86,514	1,382,965	1,228,184	1,528,614	1,353,486	382,907	(547,579)	(728,659)	\$4,287,611
6	Interest Provision (Form 42-3E, Line 10)	9,811	9,508	9,822	9,901	9,896	11,004	13,105	14,986	16,974	18,019	17,498	16,059	156,583
7	Beginning Balance True-Up & Interest Provision	3,017,507	2,813,164	2,423,752	1,504,555	1,651,893	1,496,844	2,639,354	3,629,184	4,921,325	6,040,325	6,189,793	5,408,253	3,017,507
	a. Deferred True-Up - January 2017 to December 2017 (2017 TU filing dated April 2, 2018)	4,814,791	4,814,791	4,814,791	4,814,791	4,814,791	4,814,791	4,814,791	4,814,791	4,814,791	4,814,791	4,814,791	4,814,791	4,814,791
8	True-Up Collected/(Refunded) (Line 2)	(251,459)	(251,459)	(251,459)	(251,459)	(251,459)	(251,459)	(251,459)	(251,459)	(251,459)	(251,459)	(251,459)	(251,459)	(3,017,507)
9	End of Period Total True-Up (Lines 5+6+7+7a+8)	\$7,627,955	7,238,543	6,319,346	6,466,684	6,311,635	7,454,145	8,443,975	9,736,116	10,855,117	11,004,584	10,223,044	9,258,985	\$9,258,985
10	Adjustments to Period Total True-Up Including Interest	0	0	0	0	0	0	0	0	0	0	0	0	0
11	End of Period Total True-Up (Over/(Under) (Lines 9 + 10)	\$7,627,955	\$7,238,543	\$6,319,346	\$6,466,684	\$6,311,635	\$7,454,145	8,443,975	\$9,736,116	\$10,855,117	\$11,004,584	\$10,223,044	\$9,258,985	\$9,258,985

**DUKE ENERGY FLORIDA**  
**Environmental Cost Recovery Clause**  
**Calculation of Actual / Estimated Amount**  
**January 2018 - December 2018**

Form 42-3E

Docket No. 20180007-EI  
Duke Energy Florida  
Witness: C. A. Menendez  
Exh. No. \_\_ (CAM-3)  
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**Interest Provision**  
**(in Dollars)**

Line	Description	Actual Jan-18	Actual Feb-18	Actual Mar-18	Actual Apr-18	Actual May-18	Actual Jun-18	Estimated Jul-18	Estimated Aug-18	Estimated Sep-18	Estimated Oct-18	Estimated Nov-18	Estimated Dec-18	End of Period Total
1	Beginning True-Up Amount (Form 42-2E, Lines 7 + 7a + 10)	\$7,832,298	\$7,627,955	\$7,238,543	\$6,319,346	\$6,466,684	\$6,311,635	\$7,454,145	\$8,443,975	\$9,736,116	\$10,855,117	\$11,004,584	\$10,223,044	
2	Ending True-Up Amount Before Interest (Line 1 + Form 42-2E, Lines 5 + 8)	7,618,144	7,229,035	6,309,524	6,456,783	6,301,739	7,443,141	8,430,870	9,721,130	10,838,143	10,986,565	10,205,546	9,242,926	
3	Total of Beginning & Ending True-Up (Lines 1 + 2)	15,450,442	14,856,990	13,548,067	12,776,128	12,768,422	13,754,775	15,885,015	18,165,104	20,574,258	21,841,682	21,210,130	19,465,970	
4	Average True-Up Amount (Line 3 x 1/2)	7,725,221	7,428,495	6,774,034	6,388,064	6,384,211	6,877,388	7,942,508	9,082,552	10,287,129	10,920,841	10,605,065	9,732,985	
5	Interest Rate (Last Business Day of Prior Month)	1.58%	1.46%	1.62%	1.86%	1.85%	1.86%	1.98%	1.98%	1.98%	1.98%	1.98%	1.98%	
6	Interest Rate (Last Business Day of Current Month)	1.46%	1.62%	1.86%	1.85%	1.86%	1.98%	1.98%	1.98%	1.98%	1.98%	1.98%	1.98%	
7	Total of Beginning & Ending Interest Rates (Lines 5 + 6)	3.04%	3.08%	3.48%	3.71%	3.71%	3.84%	3.96%	3.96%	3.96%	3.96%	3.96%	3.96%	
8	Average Interest Rate (Line 7 x 1/2)	1.520%	1.540%	1.740%	1.855%	1.855%	1.920%	1.980%	1.980%	1.980%	1.980%	1.980%	1.980%	
9	Monthly Average Interest Rate (Line 8 x 1/12)	0.127%	0.128%	0.145%	0.155%	0.155%	0.160%	0.165%	0.165%	0.165%	0.165%	0.165%	0.165%	
10	Interest Provision for the Month (Line 4 x Line 9)	\$9,811	\$9,508	\$9,822	\$9,901	\$9,896	\$11,004	\$13,105	\$14,986	\$16,974	\$18,019	\$17,498	\$16,059	156,583

**DUKE ENERGY FLORIDA**  
**Environmental Cost Recovery Clause**  
**Calculation of Actual / Estimated Amount**  
**January 2018 - December 2018**

Form 42-4E

Docket No. 20180007-EI  
Duke Energy Florida  
Witness: C. A. Menendez  
Exh. No. \_\_ (CAM-3)  
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**Variance Report of O&M Activities**  
**(In Dollars)**

Line	Description	(1) Actual / Estimated	(2) Projection Filing	(3) Variance Amount	(4) Percent
1	O&M Activities - System				
1	Transmission Substation Environmental Investigation, Remediation and Pollution Prevention	\$484,949	\$397,896	\$87,053	22%
1a	Distribution Substation Environmental Investigation, Remediation and Pollution Prevention	371,361	284,904	86,457	30%
2	Distribution System Environmental Investigation, Remediation and Pollution Prevention	8,000	15,000	(7,000)	-47%
3	Pipeline Integrity Management - Bartow /Anclote Pipeline - Intm	0	0	0	0%
4	Above Ground Tank Secondary Containment	0	0	0	0%
5	SO2/NOx Emissions Allowances - Energy	37,593	25,876	11,717	45%
6	Phase II Cooling Water Intake 316(b) - Base	232,200	232,200	(0)	0%
6.a	Phase II Cooling Water Intake 316(b) - Intm	32,989	12,600	20,389	162%
7.2	CAIR/CAMR - Peaking	0	0	0	0%
7.4	CAIR/CAMR Crystal River - Base	16,027,287	15,399,946	627,341	4%
7.4	CAIR/CAMR Crystal River - Energy	17,461,449	17,629,254	(167,805)	-1%
7.4	CAIR/CAMR Crystal River - A&G	96,243	153,121	(56,878)	-37%
7.4	CAIR/CAMR Crystal River - Conditions of Certification - Energy	495,000	495,000	0	0%
7.5	Best Available Retrofit Technology (BART) - Energy	0	0	0	0%
8	Arsenic Groundwater Standard - Base	170,228	150,000	20,228	13%
9	Sea Turtle - Coastal Street Lighting - Distrib	600	350	250	71%
11	Modular Cooling Towers - Base	0	0	0	0%
12	Greenhouse Gas Inventory and Reporting - Energy	0	0	0	0%
13	Mercury Total Daily Maximum Loads Monitoring - Energy	0	0	0	0%
14	Hazardous Air Pollutants (HAPs) ICR Program - Energy	0	0	0	0%
15	Effluent Limitation Guidelines ICR Program - Energy	0	0	0	0%
15.1	Effluent Limitation Guidelines Program CRN - Energy	40,000	0	40,000	100%
16	National Pollutant Discharge Elimination System (NPDES) - Energy	32,320	32,320	(0)	0%
17	Mercury & Air Toxic Standards (MATS) CR4 & CR5 - Energy	458,901	598,440	(139,539)	-23%
17.1	Mercury & Air Toxic Standards (MATS) Anclote Gas Conversion - Energy	0	0	0	0%
17.2	Mercury & Air Toxic Standards (MATS) CR1 & CR2 - Energy	1,496,883	1,548,376	(51,493)	-3%
18	Coal Combustion Residual (CCR) Rule - Energy	895,851	351,190	544,661	155%
2	Total O&M Activities - Recoverable Costs	\$38,341,855	\$37,326,472	\$1,015,382	3%
3	Recoverable Costs Allocated to Energy	20,917,997	20,680,456	237,541	1%
4	Recoverable Costs Allocated to Demand	\$17,423,858	\$16,646,016	\$777,841	5%

Notes:

Column (1) End of Period Totals on Form 42-5E  
Column (2) 2017 Projection Filing Form 42-2P  
Column (3) = Column (1) - Column (2)  
Column (4) = Column (3) / Column (2)



**DUKE ENERGY FLORIDA**  
**Environmental Cost Recovery Clause**  
**Calculation of Actual / Estimated Amount**  
**January 2018 - December 2018**

Form 42-6E

Docket No. 20180007-EI  
Duke Energy Florida  
Witness: C. A. Menendez  
Exh. No. \_\_ (CAM-3)  
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**Variance Report of Capital Investment Activities**  
**(in Dollars)**

Line	Description	(1) Actual / Estimated	(2) Projection Filing	(3) Variance Amount	(4) Percent
1	Capital Investment Activities - System				
3.1	Pipeline Integrity Management - Bartow/Anclo Pipeline	\$658,083	\$667,875	(\$9,792)	-1%
4.x	Above Ground Tank Secondary Containment	1,774,030	1,901,269	(127,239)	-7%
5	SO2/NOx Emissions Allowances	269,466	316,458	(46,992)	-15%
6	Phase II Cooling Water Intake 316(b) - Base	86,505	265,853	(179,348)	-67%
7.x	CAIR/CAMR	5,191,433	6,129,657	(938,224)	-15%
9	Sea Turtle - Coastal Street Lighting	1,123	1,222	(99)	-8%
10.x	Underground Storage Tanks	22,459	24,897	(2,438)	-10%
11	Modular Cooling Towers	0	0	0	0%
11.1	Crystal River Thermal Discharge Compliance Project	0	0	0	0%
15.1	Effluent Limitation Guidelines CRN (ELG)	36,219	23,472	12,747	54%
16	National Pollutant Discharge Elimination System (NPDES)	1,491,493	1,651,435	(159,942)	-10%
17x	Mercury & Air Toxics Standards (MATS)	16,624,582	18,651,750	(2,027,168)	-11%
18	Coal Combustion Residual (CCR) Rule	36,576	47,623	(11,047)	-23%
2	Total Capital Investment Activities - Recoverable Costs	\$26,191,969	\$29,681,511	(\$3,489,542)	-12%
3	Recoverable Costs Allocated to Energy	\$16,990,268	\$19,090,929	(\$2,100,661)	-11%
4	Recoverable Costs Allocated to Demand	\$9,201,701	\$10,590,582	(\$1,388,881)	-13%

Notes:

Column (1) End of Period Totals on Form 42-7E  
Column (2) 2017 Projection Filing Form 42-3P  
Column (3) = Column (1) - Column (2)  
Column (4) = Column (3) / Column (2)





**DUKE ENERGY FLORIDA**  
**Environmental Cost Recovery Clause**  
**Calculation of Actual / Estimated Amount**  
**January 2018 - December 2018**

**Return on Capital Investments, Depreciation and Taxes**  
**For Project: PIPELINE INTEGRITY MANAGEMENT - Bartow/Anclole Pipeline - Intermediate (Project 3.1)**  
**(in Dollars)**

Line	Description	Beginning of Period Amount	Actual Jan-18	Actual Feb-18	Actual Mar-18	Actual Apr-18	Actual May-18	Actual Jun-18	Estimated Jul-18	Estimated Aug-18	Estimated Sep-18	Estimated Oct-18	Estimated Nov-18	Estimated Dec-18	End of Period Total
1	Investments														
	a. Expenditures/Additions		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	b. Clearings to Plant		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Retirements		0	0	0	0	0	0	0	0	0	0	0	0	0
	d. Other (A)		0	0	0	0	0	0	0	0	0	0	0	0	0
2	Plant-in-Service/Depreciation Base	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
3	Less: Accumulated Depreciation	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3a	Regulatory Asset Balance (G)	1,000,345	950,328	900,311	850,294	800,277	750,260	700,243	650,226	600,209	550,192	500,175	450,158	400,142	
4	CWIP - Non-Interest Bearing	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Net Investment (Lines 2 + 3 + 4)	\$1,000,345	\$950,328	\$900,311	\$850,294	\$800,277	\$750,260	\$700,243	\$650,226	\$600,209	\$550,193	\$500,176	\$450,159	\$400,142	
6	Average Net Investment		\$975,336	\$925,319	\$875,302	\$825,286	\$775,269	\$725,252	\$675,235	\$625,218	\$575,201	\$525,184	\$475,167	\$425,150	
7	Return on Average Net Investment (B)														
	a. Debt Component	Jan-Jun	2.02%	Jul-Dec	1.97%										
	b. Equity Component Grossed Up For Taxes		6.29%		6.23%										
	c. Other														
			1,641	1,555	1,472	1,387	1,304	1,220	1,107	1,025	944	861	779	697	13,992
			5,114	4,851	4,590	4,326	4,065	3,802	3,505	3,246	2,987	2,726	2,467	2,206	43,885
			0	0	0	0	0	0	0	0	0	0	0	0	0
8	Investment Expenses														
	a. Depreciation (C)		0	0	0	0	0	0	0	0	0	0	0	0	0
	b. Amortization (G)		50,017	50,017	50,017	50,017	50,017	50,017	50,017	50,017	50,017	50,017	50,017	50,017	600,206
	c. Dismantlement		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	d. Property Taxes (D)		0	0	0	0	0	0	0	0	0	0	0	0	0
	e. Other (A)		0	0	0	0	0	0	0	0	0	0	0	0	0
9	Total System Recoverable Expenses (Lines 7 + 8)		\$56,772	\$56,423	\$56,079	\$55,730	\$55,386	\$55,039	\$54,629	\$54,288	\$53,948	\$53,604	\$53,263	\$52,920	658,083
	a. Recoverable Costs Allocated to Energy		0	0	0	0	0	0	0	0	0	0	0	0	0
	b. Recoverable Costs Allocated to Demand		56,772	56,423	56,079	55,730	55,386	55,039	54,629	54,288	53,948	53,604	53,263	52,920	658,083
10	Energy Jurisdictional Factor		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
11	Demand Jurisdictional Factor - Production (Intermediate)		0.72703	0.72703	0.72703	0.72703	0.72703	0.72703	0.72703	0.72703	0.72703	0.72703	0.72703	0.72703	
12	Retail Energy-Related Recoverable Costs (E)		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
13	Retail Demand-Related Recoverable Costs (F)		41,275	41,021	40,771	40,518	40,267	40,015	39,717	39,469	39,222	38,972	38,724	38,475	478,446
14	Total Jurisdictional Recoverable Costs (Lines 12 + 13)		\$41,275	\$41,021	\$40,771	\$40,518	\$40,267	\$40,015	\$39,717	\$39,469	\$39,222	\$38,972	\$38,724	\$38,475	\$478,446

**Notes:**

- (A) N/A
- (B) Jan - Jun 2018 Line 6 x 8.31% x 1/12. Jul - Dec 2018 Line 6 x 8.20% x 1/12. Based on ROE of 10.5%, weighted cost of equity component of capital structure of 4.70% (Jan-Jun) and 4.65% (Jul-Dec), and statutory income tax rate of 25.345% (inc tax multiplier = 1.339495). See Stipulation & Settlement Agreement in Order No. PSC-2012-0425-PAA-EU Docket No. 20120007-EI.
- (C) Depreciation calculated in Pipeline Integrity Management section of Capital Program Detail file only on assets in-service. Calculated on that schedule as Line 2 x rate x 1/12. Based on 2010 Rate Case Order PSC-2010-0131-FOF-EI.
- (D) Property tax calculated in Pipeline Integrity Management section of Capital Program Detail file only on assets in- service. Calculated on that schedule as Line 2 x rate x 1/12. Based on 2017 Effective Tax Rate on original cost.
- (E) Line 9a x Line 10
- (F) Line 9b x Line 11
- (G) Projects 3.1b, 3.1c, and 3.1d amortized over three years as approved in Order No. PSC-2016-0535-FOF-EI. Project 3.1a amortized over 26 months as approved in Order PSC-2018-0014-FOF-EI.

**DUKE ENERGY FLORIDA**  
**Environmental Cost Recovery Clause**  
**Calculation of Actual / Estimated Amount**  
**January 2018 - December 2018**

**Return on Capital Investments, Depreciation and Taxes**  
**For Project: ABOVE GROUND TANK SECONDARY CONTAINMENT - Peaking (Project 4.1)**  
**(in Dollars)**

Line	Description	Beginning of Period Amount	Actual Jan-18	Actual Feb-18	Actual Mar-18	Actual Apr-18	Actual May-18	Actual Jun-18	Estimated Jul-18	Estimated Aug-18	Estimated Sep-18	Estimated Oct-18	Estimated Nov-18	Estimated Dec-18	End of Period Total			
1	Investments																	
	a. Expenditures/Additions		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0			
	b. Clearings to Plant		0	0	0	0	0	0	0	0	0	0	0	0	0			
	c. Retirements		0	0	0	0	0	0	0	0	0	0	0	0	0			
	d. Other		0	0	0	0	0	0	0	0	0	0	0	0	0			
2	Plant-in-Service/Depreciation Base (A)	\$9,235,204	\$9,235,204	\$9,235,204	\$9,235,204	\$9,235,204	\$9,235,204	\$9,235,204	\$9,235,204	\$9,235,204	\$9,235,204	\$9,235,204	\$9,235,204	\$9,235,204	\$9,235,204			
3	Less: Accumulated Depreciation	(3,073,848)	(3,101,917)	(3,129,986)	(3,158,055)	(3,186,124)	(3,214,193)	(3,242,262)	(3,270,331)	(3,298,400)	(3,326,469)	(3,354,538)	(3,382,607)	(3,410,676)				
3a	Regulatory Asset Balance (G)	685,616	639,909	594,202	548,495	502,788	457,081	411,374	365,667	319,960	274,253	228,546	182,839	137,132				
4	CWIP - Non-Interest Bearing	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
5	Net Investment (Lines 2 + 3 + 4)	\$6,846,972	\$6,773,196	\$6,699,420	\$6,625,644	\$6,551,868	\$6,478,092	\$6,404,316	\$6,330,540	\$6,256,764	\$6,182,988	\$6,109,212	\$6,035,436	\$5,961,660				
6	Average Net Investment		\$6,810,084	\$6,736,308	\$6,662,532	\$6,588,756	\$6,514,980	\$6,441,204	\$6,367,428	\$6,293,652	\$6,219,876	\$6,146,100	\$6,072,324	\$5,998,548				
7	Return on Average Net Investment (B)																	
	a. Debt Component	Jan-Jun	2.02%	Jul-Dec	1.97%	11,449	11,328	11,202	11,079	10,954	10,829	10,441	10,320	10,200	10,078	9,957	9,836	127,673
	b. Equity Component Grossed Up For Taxes	6.29%	6.23%	35,705	35,318	34,929	34,545	34,157	33,770	33,055	32,671	32,287	31,905	31,522	31,140	30,758	30,376	401,004
	c. Other			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	Investment Expenses																	
	a. Depreciation (C)		28,069	28,069	28,069	28,069	28,069	28,069	28,069	28,069	28,069	28,069	28,069	28,069	28,069	28,069	28,069	336,828
	b. Amortization (G)		45,707	45,707	45,707	45,707	45,707	45,707	45,707	45,707	45,707	45,707	45,707	45,707	45,707	45,707	45,707	548,484
	c. Dismantlement		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	d. Property Taxes (D)		7,876	7,876	7,876	7,876	7,876	7,876	7,876	7,876	7,876	7,876	7,876	7,876	7,876	7,876	7,876	94,512
	e. Other		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	Total System Recoverable Expenses (Lines 7 + 8)		\$128,806	\$128,298	\$127,783	\$127,276	\$126,763	\$126,251	\$125,148	\$124,643	\$124,139	\$123,635	\$123,131	\$122,628	\$122,125	\$121,621	\$121,117	1,508,501
	a. Recoverable Costs Allocated to Energy		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	b. Recoverable Costs Allocated to Demand		128,806	128,298	127,783	127,276	126,763	126,251	125,148	124,643	124,139	123,635	123,131	122,628	122,125	121,621	121,117	1,508,501
10	Energy Jurisdictional Factor		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
11	Demand Jurisdictional Factor - Production (Peaking)		0.95924	0.95924	0.95924	0.95924	0.95924	0.95924	0.95924	0.95924	0.95924	0.95924	0.95924	0.95924	0.95924	0.95924	0.95924	0.95924
12	Retail Energy-Related Recoverable Costs (E)		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
13	Retail Demand-Related Recoverable Costs (F)		123,556	123,069	122,575	122,088	121,596	121,105	120,613	119,121	118,630	118,139	117,647	117,155	116,663	116,171	115,679	1,447,014
14	Total Jurisdictional Recoverable Costs (Lines 12 + 13)		\$123,556	\$123,069	\$122,575	\$122,088	\$121,596	\$121,105	\$120,613	\$119,121	\$118,630	\$118,139	\$117,647	\$117,155	\$116,663	\$116,171	\$115,679	\$1,447,014

**Notes:**

- (A) N/A
- (B) Jan - Jun 2018 Line 6 x 8.31% x 1/12. Jul - Dec 2018 Line 6 x 8.20% x 1/12. Based on ROE of 10.5%, weighted cost of equity component of capital structure of 4.70% (Jan-Jun) and 4.65% (Jul-Dec), and statutory income tax rate of 25.345% (inc tax multiplier = 1.339495). See Stipulation & Settlement Agreement in Order No. PSC-2012-0425-PAA-EU Docket No. 20120007-EI.
- (C) Depreciation calculated in Above Ground Tank Secondary Containment section of Capital Program Detail file only on assets in-service. Calculated on that schedule as Line 2 x rate x 1/12. Based on 2010 Rate Case Order PSC-2010-0131-FOF-EI.
- (D) Property tax calculated in Above Ground Tank Secondary Containment section of Capital Program Detail file only on assets in-service. Calculated on that schedule as Line 2 x rate x 1/12. Based on 2017 Effective Tax Rate on original cost.
- (E) Line 9a x Line 10
- (F) Line 9b x Line 11
- (G) Project 4.1a amortized over three years as approved in Order No. PSC-2016-0535-FOF-EI.

**DUKE ENERGY FLORIDA**  
**Environmental Cost Recovery Clause**  
**Calculation of Actual / Estimated Amount**  
**January 2018 - December 2018**

**Return on Capital Investments, Depreciation and Taxes**  
**For Project: ABOVE GROUND TANK SECONDARY CONTAINMENT - Base (Project 4.2)**  
**(in Dollars)**

Line	Description	Beginning of Period Amount	Actual Jan-18	Actual Feb-18	Actual Mar-18	Actual Apr-18	Actual May-18	Actual Jun-18	Estimated Jul-18	Estimated Aug-18	Estimated Sep-18	Estimated Oct-18	Estimated Nov-18	Estimated Dec-18	End of Period Total
1	Investments														
	a. Expenditures/Additions		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	b. Clearings to Plant		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Retirements		0	0	0	0	0	0	0	0	0	0	0	0	0
	d. Other (A)		0	0	0	0	0	0	0	0	0	0	0	0	0
2	Plant-in-Service/Depreciation Base	\$2,399,039	2,399,039	2,399,039	2,399,039	2,399,039	2,399,039	2,399,039	2,399,039	2,399,039	2,399,039	2,399,039	2,399,039	2,399,039	2,399,039
3	Less: Accumulated Depreciation	\$27,233	24,201	21,169	18,137	15,105	12,073	9,041	6,009	2,977	(55)	(3,087)	(6,119)	(9,151)	(9,151)
4	CWIP - Non-Interest Bearing	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Net Investment (Lines 2 + 3 + 4)	\$2,426,272	\$2,423,240	\$2,420,208	\$2,417,176	\$2,414,144	\$2,411,112	\$2,408,080	\$2,405,048	\$2,402,016	\$2,398,984	\$2,395,952	\$2,392,920	\$2,389,888	\$2,389,888
6	Average Net Investment		\$2,424,756	\$2,421,724	\$2,418,692	\$2,415,660	\$2,412,628	\$2,409,596	\$2,406,564	\$2,403,532	\$2,400,500	\$2,397,468	\$2,394,436	\$2,391,404	\$2,391,404
7	Return on Average Net Investment (B)														
	a. Debt Component	Jan-Jun	2.02%	Jul-Dec	1.97%										
	b. Equity Component Grossed Up For Taxes		6.29%		6.23%										
	c. Other														
			4,077	4,072	4,066	4,062	4,057	4,052	3,946	3,941	3,936	3,932	3,926	3,921	47,988
			12,712	12,697	12,681	12,664	12,649	12,633	12,493	12,477	12,461	12,446	12,430	12,414	150,757
			0	0	0	0	0	0	0	0	0	0	0	0	0
8	Investment Expenses														
	a. Depreciation (C)		3,032	3,032	3,032	3,032	3,032	3,032	3,032	3,032	3,032	3,032	3,032	3,032	36,384
	b. Amortization		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Dismantlement		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	d. Property Taxes (D)		329	329	329	329	329	329	329	329	329	329	329	329	3,948
	e. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
9	Total System Recoverable Expenses (Lines 7 + 8)		\$20,150	\$20,130	\$20,108	\$20,087	\$20,067	\$20,046	\$19,800	\$19,779	\$19,758	\$19,739	\$19,717	\$19,696	239,077
	a. Recoverable Costs Allocated to Energy		0	0	0	0	0	0	0	0	0	0	0	0	0
	b. Recoverable Costs Allocated to Demand		20,150	20,130	20,108	20,087	20,067	20,046	19,800	19,779	19,758	19,739	19,717	19,696	239,077
10	Energy Jurisdictional Factor		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
11	Demand Jurisdictional Factor - Production (Base)		0.92885	0.92885	0.92885	0.92885	0.92885	0.92885	0.92885	0.92885	0.92885	0.92885	0.92885	0.92885	0.92885
12	Retail Energy-Related Recoverable Costs (E)		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
13	Retail Demand-Related Recoverable Costs (F)		18,716	18,698	18,677	18,658	18,639	18,620	18,391	18,372	18,352	18,335	18,314	18,295	222,067
14	Total Jurisdictional Recoverable Costs (Lines 12 + 13)		\$18,716	\$18,698	\$18,677	\$18,658	\$18,639	\$18,620	\$18,391	\$18,372	\$18,352	\$18,335	\$18,314	\$18,295	\$222,067

**Notes:**

- (A) N/A
- (B) Jan - Jun 2018 Line 6 x 8.31% x 1/12. Jul - Dec 2018 Line 6 x 8.20% x 1/12. Based on ROE of 10.5%, weighted cost of equity component of capital structure of 4.70% (Jan-Jun) and 4.65% (Jul-Dec), and statutory income tax rate of 25.345% (inc tax multiplier = 1.339495). See Stipulation & Settlement Agreement in Order No. PSC-2012-0425-PAA-EU Docket No. 20120007-EI.
- (C) Depreciation calculated in Above Ground Tank Secondary Containment section of Capital Program Detail file only on assets in-service. Calculated on that schedule as Line 2 x rate x 1/12. Based on 2010 Rate Case Order PSC-2010-0131-FOF-EI.
- (D) Property tax calculated in Above Ground Tank Secondary Containment section of Capital Program Detail file only on assets in-service. Calculated on that schedule as Line 2 x rate x 1/12. Based on 2017 Effective Tax Rate on original cost.
- (E) Line 9a x Line 10
- (F) Line 9b x Line 11

**DUKE ENERGY FLORIDA**  
**Environmental Cost Recovery Clause**  
**Calculation of Actual / Estimated Amount**  
**January 2018 - December 2018**

**Return on Capital Investments, Depreciation and Taxes**  
**For Project: ABOVE GROUND TANK SECONDARY CONTAINMENT - Intermediate (Project 4.3)**  
**(in Dollars)**

Line	Description	Beginning of Period Amount	Actual Jan-18	Actual Feb-18	Actual Mar-18	Actual Apr-18	Actual May-18	Actual Jun-18	Estimated Jul-18	Estimated Aug-18	Estimated Sep-18	Estimated Oct-18	Estimated Nov-18	Estimated Dec-18	End of Period Total
1	Investments														
	a. Expenditures/Additions		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	b. Clearings to Plant		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Retirements		0	0	0	0	0	0	0	0	0	0	0	0	0
	d. Other (A)		0	0	0	0	0	0	0	0	0	0	0	0	0
2	Plant-in-Service/Depreciation Base	\$290,297	290,297	290,297	290,297	290,297	290,297	290,297	290,297	290,297	290,297	290,297	290,297	290,297	290,297
3	Less: Accumulated Depreciation	(72,786)	(73,311)	(73,836)	(74,361)	(74,886)	(75,411)	(75,936)	(76,461)	(76,986)	(77,511)	(78,036)	(78,561)	(79,086)	
4	CWIP - Non-Interest Bearing	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Net Investment (Lines 2+ 3 + 4)	\$217,512	\$216,987	\$216,462	\$215,937	\$215,412	\$214,887	\$214,362	\$213,837	\$213,312	\$212,787	\$212,262	\$211,737	\$211,212	
6	Average Net Investment		\$217,249	\$216,724	\$216,199	\$215,674	\$215,149	\$214,624	\$214,099	\$213,574	\$213,049	\$212,524	\$211,999	\$211,474	
7	Return on Average Net Investment (B)														
	a. Debt Component	Jan-Jun	2.02%	1.97%											
	b. Equity Component Grossed Up For Taxes	2.02%	365	364	364	363	362	361	351	350	349	348	348	347	4,272
	c. Other	6.29%	1,139	1,136	1,133	1,131	1,128	1,125	1,111	1,109	1,106	1,103	1,101	1,098	13,420
			0	0	0	0	0	0	0	0	0	0	0	0	0
8	Investment Expenses														
	a. Depreciation (C)		525	525	525	525	525	525	525	525	525	525	525	525	6,300
	b. Amortization		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Dismantlement		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	d. Property Taxes (D)		205	205	205	205	205	205	205	205	205	205	205	205	2,460
	e. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
9	Total System Recoverable Expenses (Lines 7 + 8)		\$2,234	\$2,230	\$2,227	\$2,224	\$2,220	\$2,216	\$2,192	\$2,189	\$2,185	\$2,181	\$2,179	\$2,175	26,452
	a. Recoverable Costs Allocated to Energy		0	0	0	0	0	0	0	0	0	0	0	0	0
	b. Recoverable Costs Allocated to Demand		2,234	2,230	2,227	2,224	2,220	2,216	2,192	2,189	2,185	2,181	2,179	2,175	26,452
10	Energy Jurisdictional Factor		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
11	Demand Jurisdictional Factor - Production (Intermediate)		0.72703	0.72703	0.72703	0.72703	0.72703	0.72703	0.72703	0.72703	0.72703	0.72703	0.72703	0.72703	
12	Retail Energy-Related Recoverable Costs (E)		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
13	Retail Demand-Related Recoverable Costs (F)		1,624	1,621	1,619	1,617	1,614	1,611	1,594	1,591	1,589	1,586	1,584	1,581	19,231
14	Total Jurisdictional Recoverable Costs (Lines 12 + 13)		\$1,624	\$1,621	\$1,619	\$1,617	\$1,614	\$1,611	\$1,594	\$1,591	\$1,589	\$1,586	\$1,584	\$1,581	\$19,231

**Notes:**

- (A) N/A
- (B) Jan - Jun 2018 Line 6 x 8.31% x 1/12. Jul - Dec 2018 Line 6 x 8.20% x 1/12. Based on ROE of 10.5%, weighted cost of equity component of capital structure of 4.70% (Jan-Jun) and 4.65% (Jul-Dec), and statutory income tax rate of 25.345% (inc tax multiplier = 1.339495). See Stipulation & Settlement Agreement in Order No. PSC-2012-0425-PAA-EU Docket No. 20120007-EI.
- (C) Depreciation calculated in Above Ground Tank Secondary Containment section of Capital Program Detail file only on assets in-service. Calculated on that schedule as Line 2 x rate x 1/12. Based on 2010 Rate Case Order PSC-2010-0131-FOF-EI.
- (D) Property tax calculated in Above Ground Tank Secondary Containment section of Capital Program Detail file only on assets in-service. Calculated on that schedule as Line 2 x rate x 1/12. Based on 2017 Effective Tax Rate on original cost.
- (E) Line 9a x Line 10
- (F) Line 9b x Line 11

**DUKE ENERGY FLORIDA**  
**Environmental Cost Recovery Clause**  
**Calculation of Actual / Estimated Amount**  
**January 2018 - December 2018**

**SO2 and NOx EMISSIONS ALLOWANCES - Energy (Project 5)**  
**(in Dollars)**

Line	Description	Beginning of Period Amount	Actual Jan-18	Actual Feb-18	Actual Mar-18	Actual Apr-18	Actual May-18	Actual Jun-18	Estimated Jul-18	Estimated Aug-18	Estimated Sep-18	Estimated Oct-18	Estimated Nov-18	Estimated Dec-18	End of Period Total
1	Working Capital Dr (Cr)														
	a. 0158150 SO <sub>2</sub> Emission Allowance Inventory	\$3,296,898	\$3,294,754	\$3,290,670	\$3,286,482	\$3,270,255	\$3,267,330	\$3,264,702	\$3,258,542	\$3,252,100	\$3,246,326	\$3,243,770	\$3,241,494	\$3,239,111	\$3,239,111
	b. 0254020 Auctioned SO <sub>2</sub> Allowance	(610)	(586)	(562)	(538)	(514)	(447)	(414)	(381)	(348)	(315)	(282)	(249)	(216)	(216)
	c. 0158170 NOx Emission Allowance Inventory	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	d. Other (A)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	Total Working Capital	\$3,296,289	\$3,294,168	\$3,290,108	\$3,285,944	\$3,269,741	\$3,266,884	\$3,264,288	\$3,258,161	\$3,251,752	\$3,246,011	\$3,243,488	\$3,241,245	\$3,238,895	\$3,238,895
3	Average Net Investment		\$3,295,228	\$3,292,138	\$3,288,026	\$3,277,842	\$3,268,313	\$3,265,586	\$3,261,225	\$3,254,957	\$3,248,882	\$3,244,749	\$3,242,366	\$3,240,070	
4	Return on Average Net Working Capital Balance (B)														
	a. Debt Component		2.02%	1.97%											
	b. Equity Component Grossed Up For Taxes		6.29%	6.23%											
5	Total Return Component (C)														
			\$22,817	\$22,795	\$22,767	\$22,696	\$22,630	\$22,612	\$22,277	\$22,234	\$22,192	\$22,165	\$22,148	\$22,133	269,466
6	Expense Dr (Cr)														
	a. 0509030 SO <sub>2</sub> Allowance Expense		\$2,144	\$4,084	\$4,189	\$16,226	\$2,925	\$2,629	\$6,159	\$6,442	\$5,774	\$2,556	\$2,276	\$2,383	57,787
	b. 0407426 Amortization Expense		(24)	(24)	(24)	(24)	(67)	(33)	(33)	(33)	(33)	(33)	(33)	(33)	(394)
	c. 0509212 NOx Allowance Expense		0	0	0	0	0	0	0	0	0	0	0	0	0
	d. Other (G)		0	0	0	0	(19,800)	0	0	0	0	0	0	0	(19,800)
7	Net Expense (D)		2,120	4,060	4,165	16,202	(16,942)	2,596	6,127	6,409	5,741	2,524	2,243	2,350	37,593
8	Total System Recoverable Expenses (Lines 5 + 7)		\$24,937	\$26,855	\$26,932	\$38,898	\$5,688	\$25,208	\$28,404	\$28,643	\$27,933	\$24,689	\$24,391	\$24,483	307,059
	a. Recoverable Costs Allocated to Energy		24,937	26,855	26,932	38,898	5,688	25,208	28,404	28,643	27,933	24,689	24,391	24,483	307,059
	b. Recoverable Costs Allocated to Demand		0	0	0	0	0	0	0	0	0	0	0	0	0
9	Energy Jurisdictional Factor		0.95280	0.95010	0.94890	0.95290	0.93750	0.93350	0.95843	0.95971	0.96310	0.96469	0.97067	0.96209	
10	Demand Jurisdictional Factor		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
11	Retail Energy-Related Recoverable Costs (E)		\$23,760	\$25,515	\$25,556	\$37,066	\$5,332	\$23,532	\$27,223	\$27,489	\$26,903	\$23,817	\$23,676	\$23,555	293,421
12	Retail Demand-Related Recoverable Costs (F)		0	0	0	0	0	0	0	0	0	0	0	0	0
13	Total Jurisdictional Recoverable Costs (Lines 11 + 12)		\$ 23,760	\$ 25,515	\$ 25,556	\$ 37,066	\$ 5,332	\$ 23,532	\$ 27,223	\$ 27,489	\$ 26,903	\$ 23,817	\$ 23,676	\$ 23,555	\$ 293,421

**Notes:**

- (A) N/A
- (B) Jan - Jun 2018 Line 6 x 8.31% x 1/12. Jul - Dec 2018 Line 6 x 8.20% x 1/12. Based on ROE of 10.5%, weighted cost of equity component of capital structure of 4.70% (Jan-Jun) and 4.65% (Jul-Dec), and statutory income tax rate of 25.345% (inc tax multiplier = 1.339495). See Stipulation & Settlement Agreement in Order No. PSC-2012-0425-PAA-EU Docket No. 20120007-EI.
- (C) Line 5 is reported on Capital Schedule
- (D) Line 7 is reported on O&M Schedule
- (E) Line 8a x Line 9
- (F) Line 8b x Line 10
- (G) There was a Seasonal NOx credit in May 2018 of \$19,800. This was the result of sales of allowances that were allocated to DEF by the EPA at zero cost.

**DUKE ENERGY FLORIDA**  
**Environmental Cost Recovery Clause**  
**Calculation of Actual / Estimated Amount**  
**January 2018 - December 2018**

**Return on Capital Investments, Depreciation and Taxes**  
**For Project: Phase II Cooling Water Intake 316(b) - Base (Project 6)**  
**(in Dollars)**

Line	Description	Beginning of Period Amount	Actual Jan-18	Actual Feb-18	Actual Mar-18	Actual Apr-18	Actual May-18	Actual Jun-18	Estimated Jul-18	Estimated Aug-18	Estimated Sep-18	Estimated Oct-18	Estimated Nov-18	Estimated Dec-18	End of Period Total
1	Investments														
	a. Expenditures/Additions		\$81,980	\$2,210	\$193,266	\$277,856	(\$47,238)	(\$434,111)	\$453,936	\$9,825	\$9,825	\$9,825	\$9,825	\$53,476	\$620,675
	b. Clearings to Plant		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Retirements		0	0	0	0	0	0	0	0	0	0	0	0	0
	d. Other (A)		0	0	0	0	0	0	0	0	0	0	0	0	0
2	Plant-in-Service/Depreciation Base	\$0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Less: Accumulated Depreciation	\$0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	CWIP - Non-Interest Bearing	\$663,307	745,287	747,497	940,763	1,218,619	1,171,381	737,270	1,191,206	1,201,031	1,210,856	1,220,681	1,230,506	1,283,982	
5	Net Investment (Lines 2 + 3 + 4)	\$663,307	\$745,287	\$747,497	\$940,763	\$1,218,619	\$1,171,381	\$737,270	\$1,191,206	\$1,201,031	\$1,210,856	\$1,220,681	\$1,230,506	\$1,283,982	
6	Average Net Investment		\$704,297	\$746,392	\$844,130	\$1,079,691	\$1,195,000	\$954,326	\$964,238	\$1,196,119	\$1,205,944	\$1,215,769	\$1,225,594	\$1,257,244	
7	Return on Average Net Investment (B)														
	a. Debt Component														
			2.02%	1.97%											
	b. Equity Component Grossed Up For Taxes		3,692	3,913	4,426	5,661	6,265	5,003	5,005	6,209	6,260	6,311	6,362	6,526	65,633
	c. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
8	Investment Expenses														
	a. Depreciation (C)	1.4860%	0	0	0	0	0	0	0	0	0	0	0	0	0
	b. Amortization		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Dismantlement		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	d. Property Taxes (D)	0.001703	0	0	0	0	0	0	0	0	0	0	0	0	0
	e. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
9	Total System Recoverable Expenses (Lines 7 + 8)		\$4,876	\$5,168	\$5,845	\$7,476	\$8,274	\$6,608	\$6,586	\$8,170	\$8,237	\$8,305	\$8,372	\$8,588	86,505
	a. Recoverable Costs Allocated to Energy		0	0	0	0	0	0	0	0	0	0	0	0	0
	b. Recoverable Costs Allocated to Demand		\$4,876	\$5,168	\$5,845	\$7,476	\$8,274	\$6,608	\$6,586	\$8,170	\$8,237	\$8,305	\$8,372	\$8,588	86,505
10	Energy Jurisdictional Factor		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
11	Demand Jurisdictional Factor - Base		0.92885	0.92885	0.92885	0.92885	0.92885	0.92885	0.92885	0.92885	0.92885	0.92885	0.92885	0.92885	
12	Retail Energy-Related Recoverable Costs (E)		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
13	Retail Demand-Related Recoverable Costs (F)		4,529	4,800	5,429	6,944	7,685	6,138	6,117	7,589	7,651	7,714	7,776	7,977	80,350
14	Total Jurisdictional Recoverable Costs (Lines 12 + 13)		\$4,529	\$4,800	\$5,429	\$6,944	\$7,685	\$6,138	\$6,117	\$7,589	\$7,651	\$7,714	\$7,776	\$7,977	\$80,350

**Notes:**

- (A) N/A
- (B) Jan - Jun 2018 Line 6 x 8.31% x 1/12. Jul - Dec 2018 Line 6 x 8.20% x 1/12. Based on ROE of 10.5%, weighted cost of equity component of capital structure of 4.70% (Jan-Jun) and 4.65% (Jul-Dec), and statutory income tax rate of 25.345% (inc tax multiplier = 1.339495). See Stipulation & Settlement Agreement in Order No. PSC-2012-0425-PAA-EU Docket No. 120007-EI.
- (C) Line 2 x rate x 1/12. Depreciation rate based on approved rates in Order PSC-2010-0131-FOF-EI.
- (D) Line 2 x rate x 1/12. Based on 2017 Effective Tax Rate on original cost.
- (E) Line 9a x Line 10
- (F) Line 9b x Line 11

**DUKE ENERGY FLORIDA**  
**Environmental Cost Recovery Clause**  
**Calculation of Actual / Estimated Amount**  
**January 2018 - December 2018**

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Docket No. 20180007-EI  
Duke Energy Florida  
Witness: C. A. Menendez  
Exh. No. \_\_\_ (CAM-3)  
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**Return on Capital Investments, Depreciation and Taxes**  
**For Project: CAIR/CAMR - Peaking (Project 7.2 - CT Emission Monitoring Systems)**  
**(in Dollars)**

Line	Description	Beginning of Period Amount	Actual Jan-18	Actual Feb-18	Actual Mar-18	Actual Apr-18	Actual May-18	Actual Jun-18	Estimated Jul-18	Estimated Aug-18	Estimated Sep-18	Estimated Oct-18	Estimated Nov-18	Estimated Dec-18	End of Period Total	
1	Investments															
	a. Expenditures/Additions		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
	b. Clearings to Plant		0	0	0	0	0	0	0	0	0	0	0	0	0	
	c. Retirements		0	0	0	0	0	0	0	0	0	0	0	0	0	
	d. Other		0	0	0	0	0	0	0	0	0	0	0	0	0	
2	Plant-in-Service/Depreciation Base	\$1,802,096	1,802,096	1,802,096	1,802,096	1,802,096	1,802,096	1,802,096	1,802,096	1,802,096	1,802,096	1,802,096	1,802,096	1,802,096	1,802,096	
3	Less: Accumulated Depreciation	(410,841)	(414,255)	(417,669)	(421,083)	(424,497)	(427,911)	(431,325)	(434,739)	(438,153)	(441,567)	(444,981)	(448,395)	(451,809)		
3a	Regulatory Asset Balance (G)	48,372	45,147	41,922	38,698	35,473	32,248	29,023	25,798	22,574	19,349	16,124	12,899	9,674		
4	CWIP - Non-Interest Bearing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	Net Investment (Lines 2 + 3 + 4)	\$1,439,627	\$1,432,989	\$1,426,350	\$1,419,711	\$1,413,072	\$1,406,433	\$1,399,795	\$1,393,156	\$1,386,517	\$1,379,878	\$1,373,239	\$1,366,601	\$1,359,962		
6	Average Net Investment		\$1,436,308	\$1,429,669	\$1,423,030	\$1,416,392	\$1,409,753	\$1,403,114	\$1,396,475	\$1,389,836	\$1,383,198	\$1,376,559	\$1,369,920	\$1,363,281		
7	Return on Average Net Investment (B)	Jan-Jun	Jul-Dec													
	a. Debt Component	2.02%	1.97%	2,415	2,404	2,392	2,381	2,371	2,359	2,289	2,279	2,268	2,257	2,246	2,238	27,899
	b. Equity Component Grossed Up For Taxes	6.29%	6.23%	7,530	7,495	7,460	7,425	7,391	7,357	7,249	7,216	7,181	7,146	7,112	7,079	87,641
	c. Other			0	0	0	0	0	0	0	0	0	0	0	0	0
8	Investment Expenses															
	a. Depreciation (C)		3,414	3,414	3,414	3,414	3,414	3,414	3,414	3,414	3,414	3,414	3,414	3,414	40,968	
	b. Amortization (G)		3,225	3,225	3,225	3,225	3,225	3,225	3,225	3,225	3,225	3,225	3,225	3,225	38,698	
	c. Dismantlement		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	d. Property Taxes (D)		1,396	1,396	1,396	1,396	1,396	1,396	1,396	1,396	1,396	1,396	1,396	1,396	16,752	
	e. Other		0	0	0	0	0	0	0	0	0	0	0	0	0	
9	Total System Recoverable Expenses (Lines 7 + 8)		\$17,980	\$17,934	\$17,887	\$17,841	\$17,797	\$17,751	\$17,573	\$17,530	\$17,484	\$17,438	\$17,393	\$17,352	211,958	
	a. Recoverable Costs Allocated to Energy		0	0	0	0	0	0	0	0	0	0	0	0	0	
	b. Recoverable Costs Allocated to Demand		17,980	17,934	17,887	17,841	17,797	17,751	17,573	17,530	17,484	17,438	17,393	17,352	211,958	
10	Energy Jurisdictional Factor		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
11	Demand Jurisdictional Factor - Production (Peaking)		0.95924	0.95924	0.95924	0.95924	0.95924	0.95924	0.95924	0.95924	0.95924	0.95924	0.95924	0.95924		
12	Retail Energy-Related Recoverable Costs (E)		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
13	Retail Demand-Related Recoverable Costs (F)		17,247	17,203	17,158	17,114	17,071	17,027	16,857	16,815	16,771	16,727	16,684	16,645	203,318	
14	Total Jurisdictional Recoverable Costs (Lines 12 + 13)		\$17,247	\$17,203	\$17,158	\$17,114	\$17,071	\$17,027	\$16,857	\$16,815	\$16,771	\$16,727	\$16,684	\$16,645	\$203,318	

**Notes:**

- (A) N/A
- (B) Jan - Jun 2018 Line 6 x 8.31% x 1/12. Jul - Dec 2018 Line 6 x 8.20% x 1/12. Based on ROE of 10.5%, weighted cost of equity component of capital structure of 4.70% (Jan-Jun) and 4.65% (Jul-Dec), and statutory income tax rate of 25.345% (inc tax multiplier = 1.339495). See Stipulation & Settlement Agreement in Order No. PSC-2012-0425-PAA-EU Docket No. 20120007-EI.
- (C) Depreciation calculated in CAIR CTs section of Capital Program Detail file only on assets in-service. Calculated on that schedule as Line 2 x rate x 1/12. Based on 2010 Rate Case Order PSC-2010-0131-FOF-EI.
- (D) Property tax calculated in CAIR CTs section of Capital Program Detail file only on assets in-service. Calculated on that schedule as Line 2 x rate x 1/12. Based on 2017 Effective Tax Rate on original cost.
- (E) Line 9a x Line 10
- (F) Line 9b x Line 11
- (G) Investment amortized over three years as approved in Order No. PSC-2016-0535-FOF-EI.

**DUKE ENERGY FLORIDA**  
**Environmental Cost Recovery Clause**  
**Calculation of Actual / Estimated Amount**  
**January 2018 - December 2018**

**Return on Capital Investments, Depreciation and Taxes**  
**For Project: CAIR/CAMR - Base (Project 7.4 - Crystal River)**  
**(in Dollars)**

Line	Description	Beginning of Period Amount	Actual Jan-18	Actual Feb-18	Actual Mar-18	Actual Apr-18	Actual May-18	Actual Jun-18	Estimated Jul-18	Estimated Aug-18	Estimated Sep-18	Estimated Oct-18	Estimated Nov-18	Estimated Dec-18	End of Period Total
1	Investments														
	a. Expenditures/Additions		\$3,357,899	\$3,068,868	\$6,676,348	\$2,974,452	\$2,891,636	\$4,028,331	\$5,374,151	\$5,527,579	\$5,004,520	\$3,127,296	\$1,637,572	\$1,331,905	\$45,000,558
	b. Clearings to Plant		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Retirements		0	0	0	0	0	0	0	0	0	0	0	0	0
	d. Other (A)		0	0	0	0	0	0	0	0	0	0	0	0	0
2	Plant-in-Service/Depreciation Base	\$3,930,012	3,930,012	3,930,012	3,930,012	3,930,012	3,930,012	3,930,012	3,930,012	3,930,012	3,930,012	3,930,012	3,930,012	3,930,012	3,930,012
3	Less: Accumulated Depreciation	(\$276,456)	(284,042)	(291,628)	(299,214)	(306,800)	(314,386)	(321,972)	(329,558)	(337,144)	(344,730)	(352,316)	(359,902)	(367,488)	
4	CWIP - Non-Interest Bearing	30,270,290	33,628,190	36,697,058	43,373,406	46,347,858	49,239,494	53,267,824	58,641,976	64,169,555	69,174,075	72,301,371	73,938,944	75,270,849	
5	Net Investment (Lines 2 + 3 + 4)	\$33,923,847	\$37,274,160	\$40,335,443	\$47,004,205	\$49,971,070	\$52,855,120	\$56,875,865	\$62,242,430	\$67,762,423	\$72,759,358	\$75,879,068	\$77,509,054	\$78,833,373	
6	Average Net Investment		\$35,599,004	\$38,804,802	\$43,669,824	\$48,487,637	\$51,413,095	\$54,865,493	\$59,559,148	\$65,002,427	\$70,260,891	\$74,319,213	\$76,694,061	\$78,171,214	
7	Return on Average Net Investment (B)														
	a. Debt Component		2.02%	1.97%											
	b. Equity Component Grossed Up For Taxes		6.29%	6.23%											
	c. Other														
			59,857	65,247	73,427	81,528	86,446	92,253	97,662	106,588	115,211	121,864	125,759	128,181	1,154,023
			186,638	203,446	228,952	254,210	269,547	287,648	309,178	337,434	364,731	385,799	398,126	405,795	3,631,504
			0	0	0	0	0	0	0	0	0	0	0	0	0
8	Investment Expenses														
	a. Depreciation (C)		7,586	7,586	7,586	7,586	7,586	7,586	7,586	7,586	7,586	7,586	7,586	7,586	91,032
	b. Amortization		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Dismantlement		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	d. Property Taxes (D)		558	558	558	558	558	558	558	558	558	558	558	558	6,696
	e. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
9	Total System Recoverable Expenses (Lines 7 + 8)		\$254,639	\$276,837	\$310,523	\$343,882	\$364,137	\$388,045	\$414,984	\$452,166	\$488,086	\$515,807	\$532,029	\$542,120	4,883,255
	a. Recoverable Costs Allocated to Energy		0	0	0	0	0	0	0	0	0	0	0	0	0
	b. Recoverable Costs Allocated to Demand		254,639	276,837	310,523	343,882	364,137	388,045	414,984	452,166	488,086	515,807	532,029	542,120	4,883,255
10	Energy Jurisdictional Factor		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
11	Demand Jurisdictional Factor - Production (Base)		0.92885	0.92885	0.92885	0.92885	0.92885	0.92885	0.92885	0.92885	0.92885	0.92885	0.92885	0.92885	
12	Retail Energy-Related Recoverable Costs (E)		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
13	Retail Demand-Related Recoverable Costs (F)		236,521	257,140	288,429	319,415	338,229	360,436	385,458	419,994	453,359	479,107	494,175	503,548	4,535,811
14	Total Jurisdictional Recoverable Costs (Lines 12 + 13)		\$236,521	\$257,140	\$288,429	\$319,415	\$338,229	\$360,436	\$385,458	\$419,994	\$453,359	\$479,107	\$494,175	\$503,548	\$4,535,811

**Notes:**

- (A) N/A
- (B) Jan - Jun 2018 Line 6 x 8.31% x 1/12. Jul - Dec 2018 Line 6 x 8.20% x 1/12. Based on ROE of 10.5%, weighted cost of equity component of capital structure of 4.70% (Jan-Jun) and 4.65% (Jul-Dec), and statutory income tax rate of 25.345% (inc tax multiplier = 1.339495). See Stipulation & Settlement Agreement in Order No. PSC-2012-0425-PAA-EU Docket No. 20120007-EI.
- (C) Depreciation calculated in CAIR Crystal River section of Capital Program Detail file only on assets in-service. Calculated on that schedule as Line 2 x rate x 1/12. Based on 2010 Rate Case Order PSC-2010-0131-FOF-EI.
- (D) Property taxes calculated in CAIR Crystal River section of Capital Program Detail file only on assets in-service. Calculated on that schedule as Line 2 x rate x 1/12. Based on 2017 Effective Tax Rate on original cost.
- (E) Line 9a x Line 10
- (F) Line 9b x Line 11



**DUKE ENERGY FLORIDA**  
**Environmental Cost Recovery Clause**  
**Calculation of Actual / Estimated Amount**  
**January 2018 - December 2018**

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Docket No. 20180007-EI  
Duke Energy Florida  
Witness: C. A. Menendez  
Exh. No. \_\_\_ (CAM-3)  
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**Schedule of Amortization and Return**  
**For Project: CAIR/CAMR - Energy (Project 7.4 - Reagents and By-Products)**  
**(in Dollars)**

Line	Description	Beginning of Period Amount	Actual Jan-18	Actual Feb-18	Actual Mar-18	Actual Apr-18	Actual May-18	Actual Jun-18	Estimated Jul-18	Estimated Aug-18	Estimated Sep-18	Estimated Oct-18	Estimated Nov-18	Estimated Dec-18	End of Period Total	
1	Working Capital Dr (Cr)															
	a. 0154401 Ammonia Inventory	\$9,781	\$192,137	\$134,599	\$59,285	\$35,567	\$95,990	\$21,951	\$89,922	\$89,922	\$89,922	\$89,922	\$89,922	\$89,922	\$89,922	
	b. 0154200 Limestone Inventory	\$1,137,114	1,040,771	1,102,615	1,069,412	1,009,001	1,111,731	1,111,751	1,074,214	1,079,787	1,075,983	1,077,078	1,088,424	1,084,539	1,084,539	
2	Total Working Capital	\$1,146,895	\$1,232,908	\$1,237,214	\$1,128,697	\$1,044,568	\$1,207,721	\$1,133,703	\$1,164,135	\$1,169,709	\$1,165,904	\$1,166,999	\$1,178,345	\$1,174,461	1,174,461	
3	Average Net Investment		1,189,902	1,235,061	1,182,956	1,086,632	1,126,144	1,170,712	1,148,919	1,166,922	1,167,807	1,166,452	1,172,672	1,176,403		
4	Return on Average Net Working Capital Balance (A)	Jan-Jun	Jul-Dec													
	a. Debt Component	2.02%	1.97%	2,001	2,077	1,989	1,827	1,894	1,968	1,884	1,913	1,915	1,913	1,923	1,929	\$23,232
	b. Equity Component Grossed Up For Taxes	6.29%	6.23%	6,238	6,475	6,202	5,697	5,904	6,138	5,964	6,058	6,062	6,055	6,087	6,107	72,988
5	Total Return Component (B)			8,239	8,552	8,191	7,524	7,798	8,106	7,848	7,971	7,977	7,968	8,010	8,036	96,220
6	Expense Dr (Cr)															
	a. 0502030 Ammonia Expense		300,866	345,474	382,972	236,235	263,893	258,209	441,791	480,000	480,000	480,000	480,000	480,000	4,629,441	
	b. 0502040 Limestone Expense		650,788	517,063	341,025	306,664	422,624	555,987	728,619	735,837	680,662	681,346	628,443	658,926	6,907,984	
	c. 0502050 Dibasic Acid Expense		0	26,526	0	0	0	0	0	0	0	0	0	0	26,526	
	d. 0502070 Gypsum Disposal/Sale		214,439	208,716	90,248	102,248	185,879	201,449	251,891	254,221	235,059	235,314	217,209	227,414	2,424,086	
	b. 0502040 Hydrated Lime Expense		368,739	285,489	182,781	179,375	253,344	326,801	228,199	300,000	325,000	325,000	320,000	300,000	3,394,728	
	f. 0502300 Caustic Expense		10,248	23,329	(23,238)	(15,655)	0	0	8,000	8,000	10,000	20,000	20,000	18,000	78,684	
7	Net Expense (C)		1,545,081	1,406,596	973,788	808,867	1,125,740	1,342,445	1,658,500	1,778,059	1,730,721	1,741,659	1,665,652	1,684,340	17,461,449	
8	Total System Recoverable Expenses (Lines 5 + 7)		\$1,553,320	\$1,415,148	\$981,979	\$816,391	\$1,133,537	\$1,350,552	\$1,666,348	\$1,786,030	\$1,738,698	\$1,749,627	\$1,673,663	\$1,692,376	17,557,669	
	a. Recoverable Costs Allocated to Energy		1,553,320	1,415,148	981,979	816,391	1,133,537	1,350,552	1,666,348	1,786,030	1,738,698	1,749,627	1,673,663	1,692,376	17,557,669	
	b. Recoverable Costs Allocated to Demand		0	0	0	0	0	0	0	0	0	0	0	0	0	
9	Energy Jurisdictional Factor		0.95280	0.95010	0.94890	0.95290	0.93750	0.93350	0.95843	0.95971	0.96310	0.96469	0.97067	0.96209		
10	Demand Jurisdictional Factor		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
11	Retail Energy-Related Recoverable Costs (D)		1,480,004	1,344,532	931,800	777,939	1,062,691	1,260,740	1,597,070	1,714,072	1,674,534	1,687,849	1,624,575	1,628,220	16,784,026	
12	Retail Demand-Related Recoverable Costs (E)		0	0	0	0	0	0	0	0	0	0	0	0	0	
13	Total Jurisdictional Recoverable Costs (Lines 11 + 12)		\$1,480,004	\$1,344,532	\$931,800	\$777,939	\$1,062,691	\$1,260,740	\$1,597,070	\$1,714,072	\$1,674,534	\$1,687,849	\$1,624,575	\$1,628,220	\$16,784,026	

**Notes:**

- (A) Jan - Jun 2018 Line 6 x 8.31% x 1/12. Jul - Dec 2018 Line 6 x 8.20% x 1/12. Based on ROE of 10.5%, weighted cost of equity component of capital structure of 4.70% (Jan-Jun) and 4.65% (Jul-Dec), and statutory income tax rate of 25.345% (inc tax multiplier = 1.339495). See Stipulation & Settlement Agreement in Order No. PSC-2012-0425-PAA-EU Docket No. 20120007-EI.
- (B) Line 5 is reported on Capital Schedule
- (C) Line 7 is reported on O&M Schedule
- (D) Line 8a x Line 9
- (E) Line 8b x Line 10

**DUKE ENERGY FLORIDA**  
**Environmental Cost Recovery Clause**  
**Calculation of Actual / Estimated Amount**  
**January 2018 - December 2018**

**Return on Capital Investments, Depreciation and Taxes**  
**For Project: SEA TURTLE - COASTAL STREET LIGHTING - (Project 9)**  
**(in Dollars)**

Line	Description	Beginning of Period Amount	Actual Jan-18	Actual Feb-18	Actual Mar-18	Actual Apr-18	Actual May-18	Actual Jun-18	Estimated Jul-18	Estimated Aug-18	Estimated Sep-18	Estimated Oct-18	Estimated Nov-18	Estimated Dec-18	End of Period Total
1	Investments														
	a. Expenditures/Additions		\$0	\$0	\$0	\$0	\$0	\$0	\$200	\$200	\$200	\$0	\$0	\$0	\$600
	b. Clearings to Plant		0	0	0	0	0	0	200	200	200	0	0	0	0
	c. Retirements		0	0	0	0	0	0	0	0	0	0	0	0	0
	d. Other (A)		0	0	0	0	0	0	0	0	0	0	0	0	0
2	Plant-in-Service/Depreciation Base	\$11,324	11,324	11,324	11,324	11,324	11,324	11,324	11,524	11,724	11,924	11,924	11,924	11,924	
3	Less: Accumulated Depreciation	(3,350)	(3,379)	(3,408)	(3,437)	(3,466)	(3,495)	(3,524)	(3,553)	(3,583)	(3,613)	(3,643)	(3,673)	(3,703)	
4	CWIP - Non-Interest Bearing	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	Net Investment (Lines 2 + 3 + 4)	\$7,974	\$7,945	\$7,916	\$7,887	\$7,858	\$7,829	\$7,800	\$7,971	\$8,141	\$8,311	\$8,281	\$8,251	\$8,221	
6	Average Net Investment		\$7,960	\$7,931	\$7,902	\$7,873	\$7,844	\$7,815	\$7,886	\$8,056	\$8,226	\$8,296	\$8,266	\$8,236	
7	Return on Average Net Investment (B)														
	a. Debt Component	Jan-Jun	2.02%	Jul-Dec	1.97%	13	13	13	13	13	13	14	14	14	159
	b. Equity Component Grossed Up For Taxes	6.29%	42	42	41	41	41	41	41	42	43	43	43	43	503
	c. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
8	Investment Expenses														
	a. Depreciation (C) 3.0658%		29	29	29	29	29	29	29	30	30	30	30	30	353
	b. Amortization		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Dismantlement		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	d. Property Taxes (D) 0.009414		9	9	9	9	9	9	9	9	9	9	9	9	108
	e. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
9	Total System Recoverable Expenses (Lines 7 + 8)		\$93	\$93	\$92	\$92	\$92	\$92	\$92	\$94	\$95	\$96	\$96	\$96	1,123
	a. Recoverable Costs Allocated to Energy		0	0	0	0	0	0	0	0	0	0	0	0	0
	b. Recoverable Costs Allocated to Demand		\$93	\$93	\$92	\$92	\$92	\$92	\$92	\$94	\$95	\$96	\$96	\$96	1,123
10	Energy Jurisdictional Factor		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
11	Demand Jurisdictional Factor - (Distribution)		0.99561	0.99561	0.99561	0.99561	0.99561	0.99561	0.99561	0.99561	0.99561	0.99561	0.99561	0.99561	
12	Retail Energy-Related Recoverable Costs (E)		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
13	Retail Demand-Related Recoverable Costs (F)		93	93	92	92	92	92	92	94	95	96	96	96	1,118
14	Total Jurisdictional Recoverable Costs (Lines 12 + 13)		\$93	\$93	\$92	\$92	\$92	\$92	\$92	\$94	\$95	\$96	\$96	\$96	\$1,118

**Notes:**

- (A) N/A
- (B) Jan - Jun 2018 Line 6 x 8.31% x 1/12. Jul - Dec 2018 Line 6 x 8.20% x 1/12. Based on ROE of 10.5%, weighted cost of equity component of capital structure of 4.70% (Jan-Jun) and 4.65% (Jul-Dec), and statutory income tax rate of 25.345% (inc tax multiplier = 1.339495). See Stipulation & Settlement Agreement in Order No. PSC-2012-0425-PAA-EU Docket No. 20120007-EI.
- (C) Line 2 x rate x 1/12. Depreciation Rate based on 2010 Rate Case Order PSC-2010-0131-FOF-EI.
- (D) Line 2 x rate x 1/12. Based on 2017 Effective Tax Rate on original cost.
- (E) Line 9a x Line 10
- (F) Line 9b x Line 11

**DUKE ENERGY FLORIDA**  
**Environmental Cost Recovery Clause**  
**Calculation of Actual / Estimated Amount**  
**January 2018 - December 2018**

**Return on Capital Investments, Depreciation and Taxes**  
**For Project: UNDERGROUND STORAGE TANKS - Base (Project 10.1)**  
**(in Dollars)**

Line	Description	Beginning of Period Amount	Actual Jan-18	Actual Feb-18	Actual Mar-18	Actual Apr-18	Actual May-18	Actual Jun-18	Estimated Jul-18	Estimated Aug-18	Estimated Sep-18	Estimated Oct-18	Estimated Nov-18	Estimated Dec-18	End of Period Total
1	Investments														
	a. Expenditures/Additions		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	b. Clearings to Plant		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Retirements		0	0	0	0	0	0	0	0	0	0	0	0	0
	d. Other (A)		0	0	0	0	0	0	0	0	0	0	0	0	0
2	Plant-in-Service/Depreciation Base	\$168,941	168,941	168,941	168,941	168,941	168,941	168,941	168,941	168,941	168,941	168,941	168,941	168,941	
3	Less: Accumulated Depreciation	(42,448)	(42,744)	(43,040)	(43,336)	(43,632)	(43,928)	(44,224)	(44,520)	(44,816)	(45,112)	(45,408)	(45,704)	(46,000)	
4	CWIP - Non-Interest Bearing	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	Net Investment (Lines 2 + 3 + 4)	\$126,493	\$126,197	\$125,901	\$125,605	\$125,309	\$125,013	\$124,717	\$124,421	\$124,125	\$123,829	\$123,533	\$123,237	\$122,941	
6	Average Net Investment		\$126,345	\$126,049	\$125,753	\$125,457	\$125,161	\$124,865	\$124,569	\$124,273	\$123,977	\$123,681	\$123,385	\$123,089	
7	Return on Average Net Investment (B)														
	a. Debt Component	Jan-Jun	2.02%	1.97%											
	b. Equity Component Grossed Up For Taxes	2.02%	212	212	211	211	210	210	204	204	203	203	202	202	2,484
	c. Other	6.29%	662	661	659	658	656	655	647	645	644	642	641	639	7,809
			0	0	0	0	0	0	0	0	0	0	0	0	0
8	Investment Expenses														
	a. Depreciation (C) 2.1000%		296	296	296	296	296	296	296	296	296	296	296	296	3,552
	b. Amortization		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Dismantlement		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	d. Property Taxes (D) 0.008573		121	121	121	121	121	121	121	121	121	121	121	121	1,452
	e. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
9	Total System Recoverable Expenses (Lines 7 + 8)		\$1,291	\$1,290	\$1,287	\$1,286	\$1,283	\$1,282	\$1,268	\$1,266	\$1,264	\$1,262	\$1,260	\$1,258	15,297
	a. Recoverable Costs Allocated to Energy		0	0	0	0	0	0	0	0	0	0	0	0	0
	b. Recoverable Costs Allocated to Demand		\$1,291	\$1,290	\$1,287	\$1,286	\$1,283	\$1,282	\$1,268	\$1,266	\$1,264	\$1,262	\$1,260	\$1,258	15,297
10	Energy Jurisdictional Factor		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
11	Demand Jurisdictional Factor - Production (Base)		0.92885	0.92885	0.92885	0.92885	0.92885	0.92885	0.92885	0.92885	0.92885	0.92885	0.92885	0.92885	
12	Retail Energy-Related Recoverable Costs (E)		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
13	Retail Demand-Related Recoverable Costs (F)		1,199	1,198	1,195	1,195	1,192	1,191	1,178	1,176	1,174	1,172	1,170	1,168	14,209
14	Total Jurisdictional Recoverable Costs (Lines 12 + 13)		\$1,199	\$1,198	\$1,195	\$1,195	\$1,192	\$1,191	\$1,178	\$1,176	\$1,174	\$1,172	\$1,170	\$1,168	\$14,209

**Notes:**

- (A) N/A
- (B) Jan - Jun 2018 Line 6 x 8.31% x 1/12. Jul - Dec 2018 Line 6 x 8.20% x 1/12. Based on ROE of 10.5%, weighted cost of equity component of capital structure of 4.70% (Jan-Jun) and 4.65% (Jul-Dec), and statutory income tax rate of 25.345% (inc tax multiplier = 1.339495). See Stipulation & Settlement Agreement in Order No. PSC-2012-0425-PAA-EU Docket No. 20120007-EI.
- (C) Line 2 x rate x 1/12. Depreciation rate based on approved rates in Order PSC-2010-0131-FOF-EI.
- (D) Line 2 x rate x 1/12. Based on 2017 Effective Tax Rate on original cost.
- (E) Line 9a x Line 10
- (F) Line 9b x Line 11

**DUKE ENERGY FLORIDA**  
**Environmental Cost Recovery Clause**  
**Calculation of Actual / Estimated Amount**  
**January 2018 - December 2018**

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**Return on Capital Investments, Depreciation and Taxes**  
**For Project: UNDERGROUND STORAGE TANKS - Intermediate (10.2)**  
**(in Dollars)**

Docket No. 20180007-EI  
Duke Energy Florida  
Witness: C. A. Menendez  
Exh. No. \_\_ (CAM-3)  
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Line	Description	Beginning of Period Amount	Actual Jan-18	Actual Feb-18	Actual Mar-18	Actual Apr-18	Actual May-18	Actual Jun-18	Estimated Jul-18	Estimated Aug-18	Estimated Sep-18	Estimated Oct-18	Estimated Nov-18	Estimated Dec-18	End of Period Total	
1	Investments															
	a. Expenditures/Additions		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
	b. Clearings to Plant		0	0	0	0	0	0	0	0	0	0	0	0	0	
	c. Retirements		0	0	0	0	0	0	0	0	0	0	0	0	0	
	d. Other (A)		0	0	0	0	0	0	0	0	0	0	0	0	0	
2	Plant-in-Service/Depreciation Base	\$76,006	76,006	76,006	76,006	76,006	76,006	76,006	76,006	76,006	76,006	76,006	76,006	76,006	76,006	
3	Less: Accumulated Depreciation	(26,657)	(26,860)	(27,063)	(27,266)	(27,469)	(27,672)	(27,875)	(28,078)	(28,281)	(28,484)	(28,687)	(28,890)	(29,093)	(29,093)	
4	CWIP - Non-Interest Bearing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	Net Investment (Lines 2 + 3 + 4)	\$49,349	\$49,146	\$48,943	\$48,740	\$48,537	\$48,334	\$48,131	\$47,928	\$47,725	\$47,522	\$47,319	\$47,116	\$46,913	\$46,913	
6	Average Net Investment		\$49,248	\$49,045	\$48,842	\$48,639	\$48,436	\$48,233	\$48,030	\$47,827	\$47,624	\$47,421	\$47,218	\$47,015	\$47,015	
7	Return on Average Net Investment (B)															
			Jan-Jun	Jul-Dec												
	a. Debt Component		2.02%	1.97%	83	82	82	82	81	81	79	78	78	77	77	958
	b. Equity Component Grossed Up For Taxes		6.29%	6.23%	258	257	256	255	254	253	249	248	247	246	245	3,012
	c. Other				0	0	0	0	0	0	0	0	0	0	0	0
8	Investment Expenses															
	a. Depreciation (C) 3.2000%		203	203	203	203	203	203	203	203	203	203	203	203	2,436	
	b. Amortization		0	0	0	0	0	0	0	0	0	0	0	0	0	
	c. Dismantlement		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	d. Property Taxes (D) 0.009890		63	63	63	63	63	63	63	63	63	63	63	63	756	
	e. Other		0	0	0	0	0	0	0	0	0	0	0	0	0	
9	Total System Recoverable Expenses (Lines 7 + 8)		\$607	\$605	\$604	\$603	\$601	\$600	\$594	\$592	\$591	\$590	\$588	\$587	7,162	
	a. Recoverable Costs Allocated to Energy		0	0	0	0	0	0	0	0	0	0	0	0	0	
	b. Recoverable Costs Allocated to Demand		\$607	\$605	\$604	\$603	\$601	\$600	\$594	\$592	\$591	\$590	\$588	\$587	7,162	
10	Energy Jurisdictional Factor		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
11	Demand Jurisdictional Factor - Production (Intermediate)		0.72703	0.72703	0.72703	0.72703	0.72703	0.72703	0.72703	0.72703	0.72703	0.72703	0.72703	0.72703	0.72703	
12	Retail Energy-Related Recoverable Costs (E)		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
13	Retail Demand-Related Recoverable Costs (F)		441	440	439	438	437	436	432	430	430	429	427	427	5,207	
14	Total Jurisdictional Recoverable Costs (Lines 12 + 13)		\$441	\$440	\$439	\$438	\$437	\$436	\$432	\$430	\$430	\$429	\$427	\$427	\$5,207	

**Notes:**

- (A) N/A
- (B) Jan - Jun 2018 Line 6 x 8.31% x 1/12. Jul - Dec 2018 Line 6 x 8.20% x 1/12. Based on ROE of 10.5%, weighted cost of equity component of capital structure of 4.70% (Jan-Jun) and 4.65% (Jul-Dec), and statutory income tax rate of 25.345% (inc tax multiplier = 1.339495). See Stipulation & Settlement Agreement in Order No. PSC-2012-0425-PAA-EU Docket No. 20120007-EI.
- (C) Line 2 x rate x 1/12. Depreciation rate based on approved rates in Order PSC-10-0131-FOF-EI.
- (D) Line 2 x rate x 1/12. Based on 2017 Effective Tax Rate on original cost.
- (E) Line 9a x Line 10
- (F) Line 9b x Line 11

**DUKE ENERGY FLORIDA**  
**Environmental Cost Recovery Clause**  
**Calculation of Actual / Estimated Amount**  
**January 2018 - December 2018**

**Return on Capital Investments, Depreciation and Taxes**  
**For Project: Effluent Limitation Guidelines CRN - Energy (Project 15.1)**  
**(in Dollars)**

Line	Description	Beginning of Period Amount	Actual Jan-18	Actual Feb-18	Actual Mar-18	Actual Apr-18	Actual May-18	Actual Jun-18	Estimated Jul-18	Estimated Aug-18	Estimated Sep-18	Estimated Oct-18	Estimated Nov-18	Estimated Dec-18	End of Period Total	
1	Investments															
	a. Expenditures/Additions		\$0	\$394	\$386	\$0	\$2,633	(\$2,041)	\$0	\$227,500	\$227,500	\$182,000	\$136,500	\$136,500	\$911,372	
	b. Clearings to Plant		0	0	0	0	0	0	0	0	0	0	0	0	0	
	c. Retirements		0	0	0	0	0	0	0	0	0	0	0	0	0	
	d. Other (A)		0	0	0	0	0	0	0	0	0	0	0	0	0	
2	Plant-in-Service/Depreciation Base	\$0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3	Less: Accumulated Depreciation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	CWIP - Non-Interest Bearing	226,768	226,768	227,162	227,548	227,548	230,181	228,140	228,140	455,640	683,140	865,140	1,001,640	1,138,140		
5	Net Investment (Lines 2 + 3 + 4)	\$226,768	\$226,768	\$227,162	\$227,548	\$227,548	\$230,181	\$228,140	\$228,140	\$455,640	\$683,140	\$865,140	\$1,001,640	\$1,138,140		
6	Average Net Investment		\$226,768	\$226,965	\$227,355	\$227,548	\$228,864	\$229,160	\$228,140	\$341,890	\$569,390	\$774,140	\$933,390	\$1,069,890		
7	Return on Average Net Investment (B)	Jan-Jun	Jul-Dec													
	a. Debt Component	2.02%	1.97%	381	382	382	383	385	385	374	561	934	1,269	1,531	1,754	8,721
	b. Equity Component Grossed Up For Taxes	6.29%	6.23%	1,189	1,190	1,192	1,193	1,200	1,201	1,184	1,775	2,956	4,019	4,845	5,554	27,498
	c. Other			0	0	0	0	0	0	0	0	0	0	0	0	0
8	Investment Expenses															
	a. Depreciation (C) 2.4700%		0	0	0	0	0	0	0	0	0	0	0	0	0	
	b. Amortization		0	0	0	0	0	0	0	0	0	0	0	0	0	
	c. Dismantlement		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	d. Property Taxes (D) 0.001703		0	0	0	0	0	0	0	0	0	0	0	0	0	
	e. Other		0	0	0	0	0	0	0	0	0	0	0	0	0	
9	Total System Recoverable Expenses (Lines 7 + 8)		\$1,570	\$1,572	\$1,574	\$1,576	\$1,585	\$1,586	\$1,558	\$2,336	\$3,890	\$5,288	\$6,376	\$7,308	36,219	
	a. Recoverable Costs Allocated to Energy		1,570	1,572	1,574	1,576	1,585	1,586	1,558	2,336	3,890	5,288	6,376	7,308	36,219	
	b. Recoverable Costs Allocated to Demand		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	0	
10	Energy Jurisdictional Factor		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
11	Demand Jurisdictional Factor - Production (Base)		0.92885	0.92885	0.92885	0.92885	0.92885	0.92885	0.92885	0.92885	0.92885	0.92885	0.92885	0.92885	0.92885	
12	Retail Energy-Related Recoverable Costs (E)		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
13	Retail Demand-Related Recoverable Costs (F)		\$1,458	\$1,460	\$1,462	\$1,464	\$1,472	\$1,473	\$1,447	\$2,170	\$3,613	\$4,912	\$5,922	\$6,788	33,641	
14	Total Jurisdictional Recoverable Costs (Lines 12 + 13)		\$1,458	\$1,460	\$1,462	\$1,464	\$1,472	\$1,473	\$1,447	\$2,170	\$3,613	\$4,912	\$5,922	\$6,788	\$33,641	

**Notes:**

- (A) N/A
- (B) Jan - Jun 2018 Line 6 x 8.31% x 1/12. Jul - Dec 2018 Line 6 x 8.20% x 1/12. Based on ROE of 10.5%, weighted cost of equity component of capital structure of 4.70% (Jan-Jun) and 4.65% (Jul-Dec), and statutory income tax rate of 25.345% (inc tax multiplier = 1.339495). See Stipulation & Settlement Agreement in Order No. PSC-2012-0425-PAA-EU Docket No. 20120007-EI.
- (C) Line 2 x rate x 1/12. Depreciation rate based on approved rates in Order PSC-2010-0131-FOF-EI.
- (D) Line 2 x rate x 1/12. Based on 2017 Effective Tax Rate on original cost.
- (E) Line 9a x Line 10
- (F) Line 9b x Line 11

**DUKE ENERGY FLORIDA**  
**Environmental Cost Recovery Clause**  
**Calculation of Actual / Estimated Amount**  
**January 2018 - December 2018**

**Return on Capital Investments, Depreciation and Taxes**  
**For Project: NPDES - Intermediate (Project 16)**  
**(in Dollars)**

Line	Description	Beginning of Period Amount	Actual Jan-18	Actual Feb-18	Actual Mar-18	Actual Apr-18	Actual May-18	Actual Jun-18	Estimated Jul-18	Estimated Aug-18	Estimated Sep-18	Estimated Oct-18	Estimated Nov-18	Estimated Dec-18	End of Period Total
1	Investments														
	a. Expenditures/Additions		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	b. Clearings to Plant		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Retirements		0	0	0	0	0	0	0	0	0	0	0	0	0
	d. Other (A)		0	0	0	0	0	0	0	0	0	0	0	0	0
2	Plant-in-Service/Depreciation Base	\$12,841,870	12,841,870	12,841,870	12,841,870	12,841,870	12,841,870	12,841,870	12,841,870	12,841,870	12,841,870	12,841,870	12,841,870	12,841,870	
3	Less: Accumulated Depreciation	(1,288,446)	(1,324,118)	(1,359,790)	(1,395,462)	(1,431,134)	(1,466,806)	(1,502,478)	(1,538,150)	(1,573,822)	(1,609,494)	(1,645,166)	(1,680,838)	(1,716,510)	
4	CWIP - Non-Interest Bearing	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	Net Investment (Lines 2 + 3 + 4)	\$11,553,424	\$11,517,752	\$11,482,080	\$11,446,408	\$11,410,736	\$11,375,064	\$11,339,392	\$11,303,720	\$11,268,048	\$11,232,376	\$11,196,704	\$11,161,032	\$11,125,360	
6	Average Net Investment		\$11,535,588	\$11,499,916	\$11,464,244	\$11,428,572	\$11,392,900	\$11,357,228	\$11,321,556	\$11,285,884	\$11,250,212	\$11,214,540	\$11,178,868	\$11,143,196	
7	Return on Average Net Investment (B)														
	a. Debt Component		19,396	19,336	19,276	19,216	19,156	19,096	18,565	18,506	18,448	18,389	18,331	18,272	225,987
	b. Equity Component Grossed Up For Taxes		60,479	60,292	60,105	59,918	59,731	59,543	58,771	58,586	58,401	58,216	58,031	57,845	709,918
	c. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
8	Investment Expenses														
	a. Depreciation (C) 3.3333%		35,672	35,672	35,672	35,672	35,672	35,672	35,672	35,672	35,672	35,672	35,672	35,672	428,064
	b. Amortization		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Dismantlement		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	d. Property Taxes (D) 0.009930		10,627	10,627	10,627	10,627	10,627	10,627	10,627	10,627	10,627	10,627	10,627	10,627	127,524
	e. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
9	Total System Recoverable Expenses (Lines 7 + 8)		\$126,174	\$125,927	\$125,680	\$125,433	\$125,186	\$124,938	\$123,635	\$123,391	\$123,148	\$122,904	\$122,661	\$122,416	1,491,493
	a. Recoverable Costs Allocated to Energy		0	0	0	0	0	0	0	0	0	0	0	0	0
	b. Recoverable Costs Allocated to Demand		\$126,174	\$125,927	\$125,680	\$125,433	\$125,186	\$124,938	\$123,635	\$123,391	\$123,148	\$122,904	\$122,661	\$122,416	1,491,493
10	Energy Jurisdictional Factor		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
11	Demand Jurisdictional Factor - Production (Intermediate)		0.72703	0.72703	0.72703	0.72703	0.72703	0.72703	0.72703	0.72703	0.72703	0.72703	0.72703	0.72703	
12	Retail Energy-Related Recoverable Costs (E)		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
13	Retail Demand-Related Recoverable Costs (F)		91,732	91,553	91,373	91,194	91,014	90,834	89,886	89,709	89,532	89,355	89,178	89,000	1,084,360
14	Total Jurisdictional Recoverable Costs (Lines 12 + 13)		\$91,732	\$91,553	\$91,373	\$91,194	\$91,014	\$90,834	\$89,886	\$89,709	\$89,532	\$89,355	\$89,178	\$89,000	\$1,084,360

**Notes:**

- (A) N/A
- (B) Jan - Jun 2018 Line 6 x 8.31% x 1/12. Jul - Dec 2018 Line 6 x 8.20% x 1/12. Based on ROE of 10.5%, weighted cost of equity component of capital structure of 4.70% (Jan-Jun) and 4.65% (Jul-Dec), and statutory income tax rate of 25.345% (inc tax multiplier = 1.339495). See Stipulation & Settlement Agreement in Order No. PSC-2012-0425-PAA-EU Docket No. 20120007-EI.
- (C) Line 2 x rate x 1/12. Depreciation rate based on approved rates in Order PSC-2010-0131-FOF-EI.
- (D) Line 2 x rate x 1/12. Based on 2017 Effective Tax Rate on original cost.
- (E) Line 9a x Line 10
- (F) Line 9b x Line 11

**DUKE ENERGY FLORIDA**  
**Environmental Cost Recovery Clause**  
**Calculation of Actual / Estimated Amount**  
**January 2018 - December 2018**

**Return on Capital Investments, Depreciation and Taxes**  
**For Project: MERCURY & AIR TOXIC STANDARDS (MATS) - CRYSTAL RIVER UNITS 4 & 5 - Energy (Project 17)**  
**(in Dollars)**

Line	Description	Beginning of Period Amount	Actual Jan-18	Actual Feb-18	Actual Mar-18	Actual Apr-18	Actual May-18	Actual Jun-18	Estimated Jul-18	Estimated Aug-18	Estimated Sep-18	Estimated Oct-18	Estimated Nov-18	Estimated Dec-18	End of Period Total
1	Investments														
	a. Expenditures/Additions		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	b. Clearings to Plant		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Retirements		0	0	0	0	0	0	0	0	0	0	0	0	0
	d. Other (A)		0	0	0	0	0	0	0	0	0	0	0	0	0
2	Plant-in-Service/Depreciation Base	\$3,690,187	3,690,187	3,690,187	3,690,187	3,690,187	3,690,187	3,690,187	3,690,187	3,690,187	3,690,187	3,690,187	3,690,187	3,690,187	
3	Less: Accumulated Depreciation	(187,997)	(194,579)	(201,161)	(207,743)	(214,325)	(220,907)	(227,489)	(234,071)	(240,653)	(247,235)	(253,817)	(260,399)	(266,981)	
4	CWIP - Non-Interest Bearing	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	Net Investment (Lines 2 + 3 + 4)	\$3,502,190	\$3,495,608	\$3,489,026	\$3,482,444	\$3,475,862	\$3,469,280	\$3,462,698	\$3,456,116	\$3,449,534	\$3,442,952	\$3,436,370	\$3,429,788	\$3,423,206	
6	Average Net Investment		\$3,498,899	\$3,492,317	\$3,485,735	\$3,479,153	\$3,472,571	\$3,465,989	\$3,459,407	\$3,452,825	\$3,446,243	\$3,439,661	\$3,433,079	\$3,426,497	
7	Return on Average Net Investment (B)														
	a. Debt Component	Jan-Jun	Jul-Dec												
		2.02%	1.97%	5,883	5,872	5,861	5,850	5,839	5,828	5,673	5,662	5,651	5,640	5,629	5,619
	b. Equity Component Grossed Up For Taxes	6.29%	6.23%	18,344	18,309	18,275	18,240	18,206	18,171	17,958	17,924	17,890	17,856	17,821	17,787
	c. Other			0	0	0	0	0	0	0	0	0	0	0	0
8	Investment Expenses														
	a. Depreciation (C) Blended		6,582	6,582	6,582	6,582	6,582	6,582	6,582	6,582	6,582	6,582	6,582	6,582	78,984
	b. Amortization		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Dismantlement		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	d. Property Taxes (D) 0.001703		524	524	524	524	524	524	524	524	524	524	524	524	6,288
	e. Other (E)		(597)	(597)	(597)	(597)	(597)	(597)	(597)	(597)	(597)	(597)	(597)	(597)	(7,160)
9	Total System Recoverable Expenses (Lines 7 + 8)		\$30,736	\$30,690	\$30,645	\$30,599	\$30,554	\$30,508	\$30,140	\$30,095	\$30,050	\$30,005	\$29,959	\$29,915	363,900
	a. Recoverable Costs Allocated to Energy		30,736	30,690	30,645	30,599	30,554	30,508	30,140	30,095	30,050	30,005	29,959	29,915	363,900
	b. Recoverable Costs Allocated to Demand		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	0
10	Energy Jurisdictional Factor		0.95280	0.95010	0.94890	0.95290	0.93750	0.93350	0.95843	0.95971	0.96310	0.96469	0.97067	0.96209	
11	Demand Jurisdictional Factor		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
12	Retail Energy-Related Recoverable Costs (F)		\$29,286	\$29,159	\$29,079	\$29,158	\$28,645	\$28,480	\$28,887	\$28,883	\$28,941	\$28,946	\$29,081	\$28,781	\$347,326
13	Retail Demand-Related Recoverable Costs (G)		0	0	0	0	0	0	0	0	0	0	0	0	0
14	Total Jurisdictional Recoverable Costs (Lines 12 + 13)		\$29,286	\$29,159	\$29,079	\$29,158	\$28,645	\$28,480	\$28,887	\$28,883	\$28,941	\$28,946	\$29,081	\$28,781	\$347,326

**Notes:**

- (A) N/A
- (B) Jan - Jun 2018 Line 6 x 8.31% x 1/12. Jul - Dec 2018 Line 6 x 8.20% x 1/12. Based on ROE of 10.5%, weighted cost of equity component of capital structure of 4.70% (Jan-Jun) and 4.65% (Jul-Dec), and statutory income tax rate of 25.345% (inc tax multiplier = 1.339495). See Stipulation & Settlement Agreement in Order No. PSC-2012-0425-PAA-EU Docket No. 20120007-EI.
- (C) Line 2 x rate x 1/12. Depreciation rate based on approved rates in Order PSC-2010-0131-FOF-EI.
- (D) Line 2 x rate x 1/12. Based on 2017 Effective Tax Rate on original cost.
- (E) Decrease in depreciation expense related to retired rate base assets as approved in Docket No. 19990007-EI, Order No. PSC-1999-2513-FOF-EI.
- (F) Line 9a x Line 10
- (G) Line 9b x Line 11

**DUKE ENERGY FLORIDA**  
**Environmental Cost Recovery Clause**  
**Calculation of Actual / Estimated Amount**  
**January 2018 - December 2018**

**Return on Capital Investments, Depreciation and Taxes**  
**For Project: MERCURY & AIR TOXIC STANDARDS (MATS) - ANCLOTE GAS CONVERSION - Energy (Project 17.1)**  
**(in Dollars)**

Line	Description	Beginning of Period Amount	Actual Jan-18	Actual Feb-18	Actual Mar-18	Actual Apr-18	Actual May-18	Actual Jun-18	Estimated Jul-18	Estimated Aug-18	Estimated Sep-18	Estimated Oct-18	Estimated Nov-18	Estimated Dec-18	End of Period Total
1	Investments														
	a. Expenditures/Additions		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	b. Clearings to Plant		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Retirements		0	0	0	0	0	0	0	0	0	0	0	0	0
	d. Other - AFUDC (A)		0	0	0	0	0	0	0	0	0	0	0	0	0
2	Plant-in-Service/Depreciation Base	\$133,918,267	133,918,267	133,918,267	133,918,267	133,918,267	133,918,267	133,918,267	133,918,267	133,918,267	133,918,267	133,918,267	133,918,267	133,918,267	133,918,267
3	Less: Accumulated Depreciation	(11,639,662)	(11,882,076)	(12,124,490)	(12,366,904)	(12,609,318)	(12,851,732)	(13,094,146)	(13,336,560)	(13,578,974)	(13,821,388)	(14,063,802)	(14,306,216)	(14,548,630)	
4	CWIP - AFUDC Bearing	(0)	(0)	(0)	(0)	(0)	(0)	(0)	0	0	0	0	0	0	0
5	Net Investment (Lines 2 + 3 + 4 )	\$122,278,605	\$122,036,191	\$121,793,777	\$121,551,363	\$121,308,949	\$121,066,535	\$120,824,121	\$120,581,707	\$120,339,293	\$120,096,879	\$119,854,465	\$119,612,051	\$119,369,637	
6	Average Net Investment		\$122,157,398	\$121,914,984	\$121,672,570	\$121,430,156	\$121,187,742	\$120,945,328	\$120,702,914	\$120,460,500	\$120,218,086	\$119,975,672	\$119,733,258	\$119,490,844	
7	Return on Average Net Investment (B)														
	a. Debt Component	Jan-Jun	2.02%	Jul-Dec	1.97%										
	b. Equity Component Grossed Up For Taxes		6.29%		6.23%										
	c. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
8	Investment Expenses														
	a. Depreciation (C) 2.1722%		242,414	242,414	242,414	242,414	242,414	242,414	242,414	242,414	242,414	242,414	242,414	242,414	2,908,968
	b. Amortization		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Dismantlement		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	d. Property Taxes (D) 0.008490		94,747	94,747	94,747	94,747	94,747	94,747	94,747	94,747	94,747	94,747	94,747	94,747	1,136,964
	e. Other (E)		(14,794)	(14,794)	(14,794)	(14,794)	(14,794)	(14,794)	(14,794)	(14,794)	(14,794)	(14,794)	(14,794)	(14,794)	(177,534)
9	Total System Recoverable Expenses (Lines 7 + 8)		\$1,178,275	\$1,166,527	\$1,164,848	\$1,163,170	\$1,161,492	\$1,159,814	\$1,146,871	\$1,145,215	\$1,143,559	\$1,141,903	\$1,140,247	\$1,138,591	13,850,506
	a. Recoverable Costs Allocated to Energy		1,178,275	1,166,527	1,164,848	1,163,170	1,161,492	1,159,814	1,146,871	1,145,215	1,143,559	1,141,903	1,140,247	1,138,591	13,850,506
	b. Recoverable Costs Allocated to Demand		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	0
10	Energy Jurisdictional Factor		0.95280	0.95010	0.94890	0.95290	0.93750	0.93350	0.95843	0.95971	0.96310	0.96469	0.97067	0.96209	
11	Demand Jurisdictional Factor		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
12	Retail Energy-Related Recoverable Costs (F)		\$1,122,660	\$1,108,317	\$1,105,324	\$1,108,384	\$1,088,898	\$1,082,686	\$1,099,190	\$1,099,075	\$1,101,357	\$1,101,582	\$1,106,804	\$1,095,428	\$13,219,705
13	Retail Demand-Related Recoverable Costs (G)		0	0	0	0	0	0	0	0	0	0	0	0	0
14	Total Jurisdictional Recoverable Costs (Lines 12 + 13)		\$1,122,660	\$1,108,317	\$1,105,324	\$1,108,384	\$1,088,898	\$1,082,686	\$1,099,190	\$1,099,075	\$1,101,357	\$1,101,582	\$1,106,804	\$1,095,428	\$13,219,705

**Notes:**

- (A) N/A
- (B) Jan - Jun 2018 Line 6 x 8.31% x 1/12. Jul - Dec 2018 Line 6 x 8.20% x 1/12. Based on ROE of 10.5%, weighted cost of equity component of capital structure of 4.70% (Jan-Jun) and 4.65% (Jul-Dec), and statutory income tax rate of 25.345% (inc tax multiplier = 1.339495). See Stipulation & Settlement Agreement in Order No. PSC-2012-0425-PAA-EU Docket No. 20120007-EI.
- (C) Line 2 x rate x 1/12. Depreciation rate based on approved rates in Order PSC-2010-0131-FOF-EI.
- (D) Line 2 x rate x 1/12. Based on 2017 Effective Tax Rate on original cost.
- (E) Decrease in depreciation expense related to retired rate base assets as approved in Docket No. 19990007-EI, Order No. PSC-1999-2513-FOF-EI.
- (F) Line 9a x Line 10
- (G) Line 9b x Line 11



**DUKE ENERGY FLORIDA**  
**Environmental Cost Recovery Clause**  
**Calculation of Actual / Estimated Amount**  
**January 2018 - December 2018**

**Return on Capital Investments, Depreciation and Taxes**  
**For Project: MERCURY & AIR TOXIC STANDARDS (MATS) - CRYSTAL RIVER UNITS 1 & 2 - Energy (Project 17.2)**  
**(in Dollars)**

Line	Description	Beginning of Period Amount	Actual Jan-18	Actual Feb-18	Actual Mar-18	Actual Apr-18	Actual May-18	Actual Jun-18	Estimated Jul-18	Estimated Aug-18	Estimated Sep-18	Estimated Oct-18	Estimated Nov-18	Estimated Dec-18	End of Period Total
1	Investments														
	a. Expenditures/Additions		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	b. Clearings to Plant		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Retirements		0	0	0	0	0	0	0	0	0	0	0	0	0
	d. Other (A)		0	0	0	0	0	0	0	0	0	0	0	0	0
2	Plant-in-Service/Depreciation Base	\$22,681,074	22,681,074	22,681,074	22,681,074	22,681,074	22,681,074	22,681,074	22,681,074	22,681,074	22,681,074	22,681,074	22,681,074	22,681,074	
3	Less: Accumulated Depreciation	(2,159,309)	(2,229,244)	(2,299,179)	(2,369,114)	(2,439,049)	(2,508,984)	(2,578,919)	(2,648,854)	(2,718,789)	(2,788,724)	(2,858,659)	(2,928,594)	(2,998,529)	
4	CWIP - Non-Interest Bearing	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	Net Investment (Lines 2 + 3 + 4)	\$20,521,765	\$20,451,830	\$20,381,895	\$20,311,960	\$20,242,025	\$20,172,090	\$20,102,155	\$20,032,220	\$19,962,285	\$19,892,350	\$19,822,415	\$19,752,480	\$19,682,545	
6	Average Net Investment		\$20,486,797	\$20,416,862	\$20,346,927	\$20,276,992	\$20,207,057	\$20,137,122	\$20,067,187	\$19,997,252	\$19,927,317	\$19,857,382	\$19,787,447	\$19,717,512	
7	Return on Average Net Investment (B)														
	a. Debt Component	Jan-Jun	2.02%	Jul-Dec	1.97%										
	b. Equity Component Grossed Up For Taxes		6.29%		6.23%										
	c. Other														
			34,439	34,320	34,203	34,087	33,967	33,850	32,905	32,790	32,676	32,561	32,446	32,332	400,576
			107,360	106,991	106,623	106,256	105,892	105,524	104,171	103,808	103,445	103,082	102,719	102,356	1,258,227
			0	0	0	0	0	0	0	0	0	0	0	0	0
8	Investment Expenses														
	a. Depreciation (C) 3.7000%		69,935	69,935	69,935	69,935	69,935	69,935	69,935	69,935	69,935	69,935	69,935	69,935	839,220
	b. Amortization		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Dismantlement		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	d. Property Taxes (D) 0.001703		3,219	3,219	3,219	3,219	3,219	3,219	3,219	3,219	3,219	3,219	3,219	3,219	38,628
	e. Other (E)		(10,540)	(10,540)	(10,540)	(10,540)	(10,540)	(10,540)	(10,540)	(10,540)	(10,540)	(10,540)	(10,540)	(10,540)	(126,475)
9	Total System Recoverable Expenses (Lines 7 + 8)		\$204,413	\$203,925	\$203,440	\$202,957	\$202,473	\$201,988	\$199,690	\$199,212	\$198,735	\$198,257	\$197,779	\$197,302	2,410,176
	a. Recoverable Costs Allocated to Energy		204,413	203,925	203,440	202,957	202,473	201,988	199,690	199,212	198,735	198,257	197,779	197,302	2,410,176
	b. Recoverable Costs Allocated to Demand		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	0
10	Energy Jurisdictional Factor		0.95280	0.95010	0.94890	0.95290	0.93750	0.93350	0.95843	0.95971	0.96310	0.96469	0.97067	0.96209	
11	Demand Jurisdictional Factor		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
12	Retail Energy-Related Recoverable Costs (F)		\$194,765	\$193,750	\$193,045	\$193,398	\$189,819	\$188,556	\$191,388	\$191,186	\$191,401	\$191,257	\$191,979	\$189,823	\$2,300,367
13	Retail Demand-Related Recoverable Costs (G)		0	0	0	0	0	0	0	0	0	0	0	0	0
14	Total Jurisdictional Recoverable Costs (Lines 12 + 13)		\$194,765	\$193,750	\$193,045	\$193,398	\$189,819	\$188,556	\$191,388	\$191,186	\$191,401	\$191,257	\$191,979	\$189,823	\$2,300,367

**Notes:**

- (A) N/A
- (B) Jan - Jun 2018 Line 6 x 8.31% x 1/12. Jul - Dec 2018 Line 6 x 8.20% x 1/12. Based on ROE of 10.5%, weighted cost of equity component of capital structure of 4.70% (Jan-Jun) and 4.65% (Jul-Dec), and statutory income tax rate of 25.345% (inc tax multiplier = 1.339495). See Stipulation & Settlement Agreement in Order No. PSC-2012-0425-PAA-EU Docket No. 20120007-EI.
- (C) Line 2 x rate x 1/12. Depreciation rate based on approved rates in Order PSC-2010-0131-FOF-EI.
- (D) Line 2 x rate x 1/12. Based on 2017 Effective Tax Rate on original cost.
- (E) Decrease in depreciation expense related to retired rate base assets as approved in Docket No. 19990007-EI, Order No. PSC-1999-2513-FOF-EI.
- (F) Line 9a x Line 10
- (G) Line 9b x Line 11

**DUKE ENERGY FLORIDA**  
**Environmental Cost Recovery Clause**  
**Calculation of Actual / Estimated Amount**  
**January 2018 - December 2018**

**Return on Capital Investments, Depreciation and Taxes**  
**For Project: COAL COMBUSTION RESIDUAL (CCR) RULE - Base (Project 18)**  
**(in Dollars)**

Line	Description	Beginning of Period Amount	Actual Jan-18	Actual Feb-18	Actual Mar-18	Actual Apr-18	Actual May-18	Actual Jun-18	Estimated Jul-18	Estimated Aug-18	Estimated Sep-18	Estimated Oct-18	Estimated Nov-18	Estimated Dec-18	End of Period Total	
1	Investments															
	a. Expenditures/Additions		\$0	\$0	\$0	\$0	\$0	\$0	\$15,000	\$49,663	\$49,663	\$0	\$0	\$0	\$114,326	
	b. Clearings to Plant		0	0	0	0	0	0	0	0	0	0	0	0	0	
	c. Retirements		0	0	0	0	0	0	0	0	0	0	0	0	0	
	d. Other (A)		0	0	0	0	0	0	0	0	0	0	0	0	0	
2	Plant-in-Service/Depreciation Base	\$97,585	97,585	97,585	97,585	97,585	97,585	97,585	97,585	97,585	97,585	97,585	97,585	97,585		
3	Less: Accumulated Depreciation	(2,112)	(2,288)	(2,464)	(2,640)	(2,816)	(2,992)	(3,168)	(3,344)	(3,520)	(3,696)	(3,872)	(4,048)	(4,224)		
4	CWIP - Non-Interest Bearing	281,429	281,429	281,429	281,429	281,429	281,429	281,429	296,429	346,092	395,755	395,755	395,755	395,755		
5	Net Investment (Lines 2 + 3 + 4)	\$376,902	\$376,726	\$376,550	\$376,374	\$376,198	\$376,022	\$375,846	\$390,670	\$440,157	\$489,644	\$489,468	\$489,292	\$489,116		
6	Average Net Investment		\$376,814	\$376,638	\$376,462	\$376,286	\$376,110	\$375,934	\$383,258	\$415,413	\$464,900	\$489,556	\$489,380	\$489,204		
7	Return on Average Net Investment (B)															
		Jan-Jun	Jul-Dec													
	a. Debt Component	2.02%	1.97%	634	633	633	633	632	632	628	681	762	803	802	802	8,275
	b. Equity Component Grossed Up For Taxes	6.29%	6.23%	1,976	1,975	1,974	1,973	1,972	1,971	1,990	2,156	2,413	2,541	2,540	2,540	26,021
	c. Other			0	0	0	0	0	0	0	0	0	0	0	0	0
8	Investment Expenses															
	a. Depreciation (C)	2.1695%	176	176	176	176	176	176	176	176	176	176	176	176	2,112	
	b. Amortization		0	0	0	0	0	0	0	0	0	0	0	0	0	
	c. Dismantlement		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	d. Property Taxes (D)	0.001703	14	14	14	14	14	14	14	14	14	14	14	14	168	
	e. Other		0	0	0	0	0	0	0	0	0	0	0	0	0	
9	Total System Recoverable Expenses (Lines 7 + 8)		\$2,800	\$2,798	\$2,797	\$2,796	\$2,794	\$2,793	\$2,808	\$3,027	\$3,365	\$3,534	\$3,532	\$3,532	36,576	
	a. Recoverable Costs Allocated to Energy		0	0	0	0	0	0	0	0	0	0	0	0	0	
	b. Recoverable Costs Allocated to Demand		2,800	2,798	2,797	2,796	2,794	2,793	2,808	3,027	3,365	3,534	3,532	3,532	36,576	
10	Energy Jurisdictional Factor		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
11	Demand Jurisdictional Factor		0.92885	0.92885	0.92885	0.92885	0.92885	0.92885	0.92885	0.92885	0.92885	0.92885	0.92885	0.92885		
12	Retail Energy-Related Recoverable Costs (E)		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
13	Retail Demand-Related Recoverable Costs (F)		2,601	2,599	2,598	2,597	2,595	2,594	2,608	2,812	3,126	3,283	3,281	3,281	33,975	
14	Total Jurisdictional Recoverable Costs (Lines 12 + 13)		\$2,601	\$2,599	\$2,598	\$2,597	\$2,595	\$2,594	\$2,608	\$2,812	\$3,126	\$3,283	\$3,281	\$3,281	\$33,975	

**Notes:**

- (A) N/A
- (B) Jan - Jun 2018 Line 6 x 8.31% x 1/12. Jul - Dec 2018 Line 6 x 8.20% x 1/12. Based on ROE of 10.5%, weighted cost of equity component of capital structure of 4.70% (Jan-Jun) and 4.65% (Jul-Dec), and statutory income tax rate of 25.345% (inc tax multiplier = 1.339495). See Stipulation & Settlement Agreement in Order No. PSC-2012-0425-PAA-EU Docket No. 20120007-EI.
- (C) Line 2 x rate x 1/12. Depreciation rate based on approved rates in Order PSC-2010-0131-FOF-EI.
- (D) Line 2 x rate x 1/12. Based on 2017 Effective Tax Rate on original cost.
- (E) Line 9a x Line 10
- (F) Line 9b x Line 11

**DUKE ENERGY FLORIDA**  
**Environmental Cost Recovery Clause**  
**Calculation of Actual / Estimated Amount**  
**January 2018 - December 2018**

Form 42 9E

Docket No. 20180007-EI  
Duke Energy Florida  
Witness: C. A. Menendez  
Exh. No. \_\_\_ (CAM-3)  
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**Capital Structure and Cost Rates**

Class of Capital	Retail Amount	Ratio	Cost Rate	PreTax	
				Weighted Cost Rate	Weighted Cost Rate
CE	\$4,711,485,475	44.73%	0.10500	4.70%	6.29%
PS	-	0.00%	0.00000	0.00%	0.00%
LTD	3,931,532,102	37.33%	0.05290	1.97%	1.97%
STD	102,874,989	0.98%	0.00210	0.00%	0.00%
CD-Active	191,024,808	1.81%	0.02260	0.04%	0.04%
CD-Inactive	1,455,315	0.01%	0.00000	0.00%	0.00%
ADIT	1,772,932,910	16.83%	0.00000	0.00%	0.00%
FAS 109	(180,390,549)	-1.71%	0.00000	0.00%	0.00%
ITC	1,967,889	0.02%	0.00000	0.00%	0.00%
<b>Total</b>	<b>\$10,532,882,939</b>	<b>100.00%</b>		<b>6.71%</b>	<b>8.31%</b>
			Total Debt	2.02%	2.02%
			Total Equity	4.70%	6.29% (A)

May 2017 DEF Surveillance Report capital structure and cost rates. See Stipulation & Settlement Agreement in Order No. PSC-12-0425-PAA-EU, Docket 120007-EI.

(A) The May 2017 Pre-Tax Weighted Cost Rate for Common Equity above reflects the impact of the reduction in the federal corporate income tax rate as a result of the 2018 Tax Cuts and Jobs Act.

Class of Capital	Retail Amount	Ratio	Cost Rate	PreTax	
				Weighted Cost Rate	Weighted Cost Rate
CE	\$ 5,022,459,234	44.29%	0.10500	4.65%	6.23%
PS	-	0.00%	0.00000	0.00%	0.00%
LTD	4,497,051,945	39.66%	0.04896	1.94%	1.94%
STD	(193,058,184)	-1.70%	0.00878	-0.01%	-0.01%
CD-Active	179,648,841	1.58%	0.02352	0.04%	0.04%
CD-Inactive	1,597,098	0.01%	0.00000	0.00%	0.00%
ADIT	1,826,908,909	16.11%	0.00000	0.00%	0.00%
FAS 109	-	0.00%	0.00000	0.00%	0.00%
ITC	5,239,408	0.05%	0.07853	0.00%	0.00%
<b>Total</b>	<b>\$ 11,339,847,250</b>	<b>100.00%</b>		<b>6.62%</b>	<b>8.20%</b>
			Total Debt	1.97%	1.97%
			Total Equity	4.65%	6.23%

May 2018 DEF Surveillance Report capital structure and cost rates. See Stipulation & Settlement Agreement in Order No. PSC-12-0425-PAA-EU, Docket 120007-EI.

The May 2018 DEF Surveillance Report reflects the tax reform adjustments as set forth in Paragraph 16 of DEF's 2017 Settlement.

Docket No. 20180007-EI

Duke Energy Florida

Christopher A. Menendez

Exh. No. \_\_ (CAM-4)

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**DUKE ENERGY FLORIDA  
Environmental Cost Recovery Clause  
Capital Program Detail**

**January 2018 - December 2018  
Actuals for the Period January 2018 - June 2018  
Estimates for the Period July 2018 - December 2018  
Docket No. 20180007-EI**

For Project: PIPELINE INTEGRITY MANAGEMENT - Alderman Road Fence (Project 3.1a)  
(in Dollars)

Line	Description	Beginning of Period Amount	Actual Jan-18	Actual Feb-18	Actual Mar-18	Actual Apr-18	Actual May-18	Actual Jun-18	Estimated Jul-18	Estimated Aug-18	Estimated Sep-18	Estimated Oct-18	Estimated Nov-18	Estimated Dec-18	End of Period Total
1	Investments														
	a. Expenditures/Additions		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	b. Clearings to Plant		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Retirements		0	0	0	0	0	0	0	0	0	0	0	0	0
	d. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
2	Plant-in-Service/Depreciation Base	\$0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Less: Accumulated Depreciation	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3a	Regulatory Asset Balance (C)	18,203	17,293	16,383	15,473	14,563	13,654	12,744	11,834	10,924	10,014	9,104	8,195	7,285	
4	CWIP - Non-Interest Bearing	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Net Investment (Lines 2 + 3 + 4)	\$18,203	\$17,293	\$16,383	\$15,473	\$14,564	\$13,654	\$12,744	\$11,834	\$10,924	\$10,014	\$9,105	\$8,195	\$7,285	
6	Average Net Investment		17,748	16,838	15,928	15,018	14,109	13,199	12,289	11,379	10,469	9,560	8,650	7,740	
7	Return on Average Net Investment (A)														
	a. Debt Component		30	28	27	25	24	22	20	19	17	16	14	13	255
	b. Equity Component Grossed Up For Taxes		93	88	84	79	74	69	64	59	54	50	45	40	799
	c. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
8	Investment Expenses														
	a. Depreciation	1.8857%	0	0	0	0	0	0	0	0	0	0	0	0	0
	b. Amortization (C)		910	910	910	910	910	910	910	910	910	910	910	910	10,921
	c. Dismantlement		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	d. Property Taxes	0.9772%	0	0	0	0	0	0	0	0	0	0	0	0	0
	e. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
9	Total System Recoverable Expenses (Lines 7 + 8)		\$1,033	\$1,026	\$1,021	\$1,014	\$1,008	\$1,001	\$994	\$988	\$981	\$976	\$969	\$963	\$11,975
	a. Recoverable Costs Allocated to Energy		0	0	0	0	0	0	0	0	0	0	0	0	0
	b. Recoverable Costs Allocated to Demand		\$1,033	\$1,026	\$1,021	\$1,014	\$1,008	\$1,001	\$994	\$988	\$981	\$976	\$969	\$963	\$11,975

For Project: PIPELINE INTEGRITY MANAGEMENT - Pipeline Leak Detection (Project 3.1b)  
(in Dollars)

Line	Description	Beginning of Period Amount	Actual Jan-18	Actual Feb-18	Actual Mar-18	Actual Apr-18	Actual May-18	Actual Jun-18	Estimated Jul-18	Estimated Aug-18	Estimated Sep-18	Estimated Oct-18	Estimated Nov-18	Estimated Dec-18	End of Period Total
1	Investments														
	a. Expenditures/Additions		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	b. Clearings to Plant		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Retirements		0	0	0	0	0	0	0	0	0	0	0	0	0
	d. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
2	Plant-in-Service/Depreciation Base	\$0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Less: Accumulated Depreciation	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3a	Regulatory Asset Balance (B)	521,464	495,391	469,318	443,244	417,171	391,098	365,025	338,952	312,878	286,805	260,732	234,659	208,586	
4	CWIP - Non-Interest Bearing	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Net Investment (Lines 2 + 3 + 4)	\$521,464	\$495,391	\$469,318	\$443,244	\$417,171	\$391,098	\$365,025	\$338,952	\$312,878	\$286,805	\$260,732	\$234,659	\$208,586	
6	Average Net Investment		508,427	482,354	456,281	430,208	404,135	378,061	351,988	325,915	299,842	273,769	247,695	221,622	
7	Return on Average Net Investment (A)														
	a. Debt Component		855	811	767	723	680	636	577	534	492	449	406	363	7,293
	b. Equity Component Grossed Up For Taxes		2,666	2,529	2,392	2,255	2,119	1,982	1,827	1,692	1,557	1,421	1,286	1,150	22,876
	c. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
8	Investment Expenses														
	a. Depreciation	2.5579%	0	0	0	0	0	0	0	0	0	0	0	0	0
	b. Amortization (B)		26,073	26,073	26,073	26,073	26,073	26,073	26,073	26,073	26,073	26,073	26,073	26,073	312,878
	c. Dismantlement		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	d. Property Taxes	0.9772%	0	0	0	0	0	0	0	0	0	0	0	0	0
	e. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
9	Total System Recoverable Expenses (Lines 7 + 8)		\$29,594	\$29,413	\$29,232	\$29,051	\$28,872	\$28,691	\$28,477	\$28,299	\$28,122	\$27,943	\$27,765	\$27,586	\$343,047
	a. Recoverable Costs Allocated to Energy		0	0	0	0	0	0	0	0	0	0	0	0	0
	b. Recoverable Costs Allocated to Demand		\$29,594	\$29,413	\$29,232	\$29,051	\$28,872	\$28,691	\$28,477	\$28,299	\$28,122	\$27,943	\$27,765	\$27,586	\$343,047

(A) The allowable return is per the methodology approved in Order No. PSC-2012-0425-PAA-EU.  
(B) Investment amortized over three years as approved in Order No. PSC-2016-0535-FOF-EI.  
(C) Investment amortized over 26 months, as approved in Order PSC-2018-0014-FOF-EI.

For Project: PIPELINE INTEGRITY MANAGEMENT - Pipeline Controls Upgrade (Project 3.1c)  
 (in Dollars)

Line	Description	Beginning of Period Amount	Actual Jan-18	Actual Feb-18	Actual Mar-18	Actual Apr-18	Actual May-18	Actual Jun-18	Estimated Jul-18	Estimated Aug-18	Estimated Sep-18	Estimated Oct-18	Estimated Nov-18	Estimated Dec-18	End of Period Total
1	Investments														
	a. Expenditures/Additions		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	b. Clearings to Plant		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Retirements		0	0	0	0	0	0	0	0	0	0	0	0	0
	d. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
2	Plant-in-Service/Depreciation Base	\$0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Less: Accumulated Depreciation	\$0	0	0	0	0	0	0	0	0	0	0	0	0	0
3a	Regulatory Asset Balance (B)	\$397,503	377,628	357,753	337,878	318,003	298,128	278,252	258,377	238,502	218,627	198,752	178,877	159,001	
4	CWIP - Non-Interest Bearing	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Net Investment (Lines 2 + 3 + 4)	\$397,503	\$377,628	\$357,753	\$337,878	\$318,003	\$298,128	\$278,252	\$258,377	\$238,502	\$218,627	\$198,752	\$178,877	\$159,001	
6	Average Net Investment		387,566	367,691	347,816	327,940	308,065	288,190	268,315	248,440	228,565	208,689	188,814	168,939	
7	Return on Average Net Investment (A)														
	a. Debt Component		2.02%	1.97%											
	b. Equity Component Grossed Up For Taxes		6.29%	6.23%											
	c. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
8	Investment Expenses														
	a. Depreciation		2.5579%												
	b. Amortization (B)		19,875	19,875	19,875	19,875	19,875	19,875	19,875	19,875	19,875	19,875	19,875	19,875	238,502
	c. Dismantlement		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	d. Property Taxes		0.9772%												
	e. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
9	Total System Recoverable Expenses (Lines 7 + 8)		\$22,559	\$22,421	\$22,284	\$22,145	\$22,008	\$21,871	\$21,708	\$21,572	\$21,437	\$21,300	\$21,165	\$21,029	\$261,501
	a. Recoverable Costs Allocated to Energy		0	0	0	0	0	0	0	0	0	0	0	0	0
	b. Recoverable Costs Allocated to Demand		\$22,559	\$22,421	\$22,284	\$22,145	\$22,008	\$21,871	\$21,708	\$21,572	\$21,437	\$21,300	\$21,165	\$21,029	\$261,501

For Project: PIPELINE INTEGRITY MANAGEMENT - Control Room Management (Project 3.1d)  
 (in Dollars)

Line	Description	Beginning of Period Amount	Actual Jan-18	Actual Feb-18	Actual Mar-18	Actual Apr-18	Actual May-18	Actual Jun-18	Estimated Jul-18	Estimated Aug-18	Estimated Sep-18	Estimated Oct-18	Estimated Nov-18	Estimated Dec-18	End of Period Total
1	Investments														
	a. Expenditures/Additions		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	b. Clearings to Plant		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Retirements		0	0	0	0	0	0	0	0	0	0	0	0	0
	d. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
2	Plant-in-Service/Depreciation Base	\$0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Less: Accumulated Depreciation	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3a	Regulatory Asset Balance (B)	63,175	60,016	56,857	53,698	50,540	47,381	44,222	41,063	37,905	34,746	31,587	28,429	25,270	
4	CWIP - Non-Interest Bearing	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Net Investment (Lines 2 + 3 + 4)	\$63,175	\$60,016	\$56,857	\$53,698	\$50,540	\$47,381	\$44,222	\$41,063	\$37,905	\$34,746	\$31,587	\$28,429	\$25,270	
6	Average Net Investment		61,595	58,436	55,278	52,119	48,960	45,802	42,643	39,484	36,325	33,167	30,008	26,849	
7	Return on Average Net Investment (A)														
	a. Debt Component		2.02%	1.97%											
	b. Equity Component Grossed Up For Taxes		6.29%	6.23%											
	c. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
8	Investment Expenses														
	a. Depreciation		3.3596%												
	b. Amortization (B)		3,159	3,159	3,159	3,159	3,159	3,159	3,159	3,159	3,159	3,159	3,159	3,159	37,905
	c. Dismantlement		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	d. Property Taxes		0.9772%												
	e. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
9	Total System Recoverable Expenses (Lines 7 + 8)		\$3,586	\$3,563	\$3,542	\$3,520	\$3,498	\$3,476	\$3,450	\$3,429	\$3,408	\$3,385	\$3,364	\$3,342	\$41,560
	a. Recoverable Costs Allocated to Energy		0	0	0	0	0	0	0	0	0	0	0	0	0
	b. Recoverable Costs Allocated to Demand		\$3,586	\$3,563	\$3,542	\$3,520	\$3,498	\$3,476	\$3,450	\$3,429	\$3,408	\$3,385	\$3,364	\$3,342	\$41,560

(A) The allowable return is per the methodology approved in Order No. PSC-2012-0425-PAA-EU.  
 (B) Investment amortized over three years as approved in Order No. PSC-2016-0535-FOF-EI.

**For Project: ABOVE GROUND TANK SECONDARY CONTAINMENT - TURNER CTs (Project 4.1a)**  
**(in Dollars)**

Line	Description	Beginning of Period Amount	Actual Jan-18	Actual Feb-18	Actual Mar-18	Actual Apr-18	Actual May-18	Actual Jun-18	Estimated Jul-18	Estimated Aug-18	Estimated Sep-18	Estimated Oct-18	Estimated Nov-18	Estimated Dec-18	End of Period Total
1	Investments														
	a. Expenditures/Additions		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	b. Clearings to Plant		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Retirements		0	0	0	0	0	0	0	0	0	0	0	0	0
	d. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
2	Plant-in-Service/Depreciation Base	\$0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Less: Accumulated Depreciation	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3a	Regulatory Asset Balance (B)	685,616	639,909	594,202	548,495	502,788	457,081	411,374	365,667	319,960	274,253	228,546	182,839	137,132	
4	CWIP - Non-Interest Bearing	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Net Investment (Lines 2 + 3 + 4)	\$685,616	\$639,909	\$594,202	\$548,495	\$502,788	\$457,081	\$411,374	\$365,667	\$319,960	\$274,253	\$228,546	\$182,839	\$137,132	
6	Average Net Investment		662,763	617,056	571,349	525,642	479,935	434,228	388,521	342,814	297,107	251,400	205,693	159,986	
7	Return on Average Net Investment (A)														
	a. Debt Component		2.02%	1.97%											
	b. Equity Component Grossed Up For Taxes		6.29%	6.23%											
	c. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
8	Investment Expenses														
	a. Depreciation		0	0	0	0	0	0	0	0	0	0	0	0	0
	b. Amortization (B)		45,707	45,707	45,707	45,707	45,707	45,707	45,707	45,707	45,707	45,707	45,707	45,707	548,484
	c. Dismantlement		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	d. Property Taxes		1.1630%												
	e. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
9	Total System Recoverable Expenses (Lines 7 + 8)		\$50,296	\$49,980	\$49,663	\$49,347	\$49,030	\$48,714	\$48,361	\$48,049	\$47,736	\$47,424	\$47,112	\$46,800	\$582,512
	a. Recoverable Costs Allocated to Energy		0	0	0	0	0	0	0	0	0	0	0	0	0
	b. Recoverable Costs Allocated to Demand		\$50,296	\$49,980	\$49,663	\$49,347	\$49,030	\$48,714	\$48,361	\$48,049	\$47,736	\$47,424	\$47,112	\$46,800	\$582,512

**For Project: ABOVE GROUND TANK SECONDARY CONTAINMENT - BARTOW CTs (Project 4.1b)**  
**(in Dollars)**

Line	Description	Beginning of Period Amount	Actual Jan-18	Actual Feb-18	Actual Mar-18	Actual Apr-18	Actual May-18	Actual Jun-18	Estimated Jul-18	Estimated Aug-18	Estimated Sep-18	Estimated Oct-18	Estimated Nov-18	Estimated Dec-18	End of Period Total
1	Investments														
	a. Expenditures/Additions		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	b. Clearings to Plant		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Retirements		0	0	0	0	0	0	0	0	0	0	0	0	0
	d. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
2	Plant-in-Service/Depreciation Base	\$1,473,801	1,473,801	1,473,801	1,473,801	1,473,801	1,473,801	1,473,801	1,473,801	1,473,801	1,473,801	1,473,801	1,473,801	1,473,801	
3	Less: Accumulated Depreciation	(380,955)	(384,640)	(388,325)	(392,010)	(395,695)	(399,380)	(403,065)	(406,750)	(410,435)	(414,120)	(417,805)	(421,490)	(425,175)	
4	CWIP - Non-Interest Bearing	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Net Investment (Lines 2 + 3 + 4)	\$1,092,846	\$1,089,161	\$1,085,476	\$1,081,791	\$1,078,106	\$1,074,421	\$1,070,736	\$1,067,051	\$1,063,366	\$1,059,681	\$1,055,996	\$1,052,311	\$1,048,626	
6	Average Net Investment		1,091,003	1,087,318	1,083,633	1,079,948	1,076,263	1,072,578	1,068,893	1,065,208	1,061,523	1,057,838	1,054,153	1,050,468	
7	Return on Average Net Investment (A)														
	a. Debt Component		2.02%	1.97%											
	b. Equity Component Grossed Up For Taxes		6.29%	6.23%											
	c. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
8	Investment Expenses														
	a. Depreciation		3.0000%												
	b. Amortization		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Dismantlement		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	d. Property Taxes		0.9930%												
	e. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
9	Total System Recoverable Expenses (Lines 7 + 8)		\$12,459	\$12,434	\$12,408	\$12,383	\$12,358	\$12,331	\$12,207	\$12,182	\$12,156	\$12,131	\$12,106	\$12,081	\$147,236
	a. Recoverable Costs Allocated to Energy		0	0	0	0	0	0	0	0	0	0	0	0	0
	b. Recoverable Costs Allocated to Demand		\$12,459	\$12,434	\$12,408	\$12,383	\$12,358	\$12,331	\$12,207	\$12,182	\$12,156	\$12,131	\$12,106	\$12,081	\$147,236

(A) The allowable return is per the methodology approved in Order No. PSC-2012-0425-PAE-EU.  
 (B) Investment amortized over three years as approved in Order No. PSC-2016-0535-FOF-EI.

**For Project: ABOVE GROUND TANK SECONDARY CONTAINMENT - INTERCESSION CITY CTs (Project 4.1c)**  
 (in Dollars)

Line	Description	Beginning of Period Amount	Actual Jan-18	Actual Feb-18	Actual Mar-18	Actual Apr-18	Actual May-18	Actual Jun-18	Estimated Jul-18	Estimated Aug-18	Estimated Sep-18	Estimated Oct-18	Estimated Nov-18	Estimated Dec-18	End of Period Total
1	Investments														
	a. Expenditures/Additions		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	b. Clearings to Plant		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Retirements		0	0	0	0	0	0	0	0	0	0	0	0	0
	d. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
2	Plant-in-Service/Depreciation Base	\$1,661,664	1,661,664	1,661,664	1,661,664	1,661,664	1,661,664	1,661,664	1,661,664	1,661,664	1,661,664	1,661,664	1,661,664	1,661,664	1,661,664
3	Less: Accumulated Depreciation	(1,053,467)	(1,062,606)	(1,071,745)	(1,080,884)	(1,090,023)	(1,099,162)	(1,108,301)	(1,117,440)	(1,126,579)	(1,135,718)	(1,144,857)	(1,153,996)	(1,163,135)	(1,163,135)
4	CWIP - Non-Interest Bearing	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Net Investment (Lines 2 + 3 + 4)	\$608,197	\$599,058	\$589,919	\$580,780	\$571,641	\$562,502	\$553,363	\$544,224	\$535,085	\$525,946	\$516,807	\$507,668	\$498,529	
6	Average Net Investment		603,628	594,489	585,350	576,211	567,072	557,933	548,794	539,655	530,516	521,377	512,238	503,099	
7	Return on Average Net Investment (A)														
	a. Debt Component		2.02%	1.97%											
	b. Equity Component Grossed Up For Taxes		6.29%	6.23%											
	c. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
8	Investment Expenses														
	a. Depreciation	6.6000%	9,139	9,139	9,139	9,139	9,139	9,139	9,139	9,139	9,139	9,139	9,139	9,139	109,668
	b. Amortization		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Dismantlement		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	d. Property Taxes	0.8500%	1,177	1,177	1,177	1,177	1,177	1,177	1,177	1,177	1,177	1,177	1,177	1,177	14,124
	e. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
9	Total System Recoverable Expenses (Lines 7 + 8)		\$14,496	\$14,433	\$14,369	\$14,306	\$14,242	\$14,179	\$14,065	\$14,002	\$13,940	\$13,878	\$13,815	\$13,753	\$169,478
	a. Recoverable Costs Allocated to Energy		0	0	0	0	0	0	0	0	0	0	0	0	0
	b. Recoverable Costs Allocated to Demand		\$14,496	\$14,433	\$14,369	\$14,306	\$14,242	\$14,179	\$14,065	\$14,002	\$13,940	\$13,878	\$13,815	\$13,753	\$169,478

**For Project: ABOVE GROUND TANK SECONDARY CONTAINMENT - AVON PARK CTs (Project 4.1d)**  
 (in Dollars)

Line	Description	Beginning of Period Amount	Actual Jan-18	Actual Feb-18	Actual Mar-18	Actual Apr-18	Actual May-18	Actual Jun-18	Estimated Jul-18	Estimated Aug-18	Estimated Sep-18	Estimated Oct-18	Estimated Nov-18	Estimated Dec-18	End of Period Total
1	Investments														
	a. Expenditures/Additions		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	b. Clearings to Plant		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Retirements		0	0	0	0	0	0	0	0	0	0	0	0	0
	d. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
2	Plant-in-Service/Depreciation Base	\$178,938	178,938	178,938	178,938	178,938	178,938	178,938	178,938	178,938	178,938	178,938	178,938	178,938	178,938
3	Less: Accumulated Depreciation	(89,897)	(90,613)	(91,329)	(92,045)	(92,761)	(93,477)	(94,193)	(94,909)	(95,625)	(96,341)	(97,057)	(97,773)	(98,489)	(98,489)
4	CWIP - Non-Interest Bearing	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Net Investment (Lines 2 + 3 + 4)	\$89,041	\$88,325	\$87,609	\$86,893	\$86,177	\$85,461	\$84,745	\$84,029	\$83,313	\$82,597	\$81,881	\$81,165	\$80,449	
6	Average Net Investment		88,683	87,967	87,251	86,535	85,819	85,103	84,387	83,671	82,955	82,239	81,523	80,807	
7	Return on Average Net Investment (A)														
	a. Debt Component		2.02%	1.97%											
	b. Equity Component Grossed Up For Taxes		6.29%	6.23%											
	c. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
8	Investment Expenses														
	a. Depreciation	4.8000%	716	716	716	716	716	716	716	716	716	716	716	716	8,592
	b. Amortization		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Dismantlement		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	d. Property Taxes	0.9420%	140	140	140	140	140	140	140	140	140	140	140	140	1,680
	e. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
9	Total System Recoverable Expenses (Lines 7 + 8)		\$1,470	\$1,465	\$1,460	\$1,456	\$1,450	\$1,445	\$1,432	\$1,427	\$1,423	\$1,418	\$1,413	\$1,408	\$17,267
	a. Recoverable Costs Allocated to Energy		0	0	0	0	0	0	0	0	0	0	0	0	0
	b. Recoverable Costs Allocated to Demand		\$1,470	\$1,465	\$1,460	\$1,456	\$1,450	\$1,445	\$1,432	\$1,427	\$1,423	\$1,418	\$1,413	\$1,408	\$17,267

(A) The allowable return is per the methodology approved in Order No. PSC-2012-0425-PAA-EU.



**For Project: ABOVE GROUND TANK SECONDARY CONTAINMENT - BAYBORO CTs (Project 4.1e)**  
 (in Dollars)

Line	Description	Beginning of Period	Actual Jan-18	Actual Feb-18	Actual Mar-18	Actual Apr-18	Actual May-18	Actual Jun-18	Estimated Jul-18	Estimated Aug-18	Estimated Sep-18	Estimated Oct-18	Estimated Nov-18	Estimated Dec-18	End of Period Total
1	Investments														
	a. Expenditures/Additions		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	b. Clearings to Plant		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Retirements		0	0	0	0	0	0	0	0	0	0	0	0	0
	d. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
2	Plant-in-Service/Depreciation Base	\$730,295	730,295	730,295	730,295	730,295	730,295	730,295	730,295	730,295	730,295	730,295	730,295	730,295	
3	Less: Accumulated Depreciation	(220,616)	(222,438)	(224,260)	(226,082)	(227,904)	(229,726)	(231,548)	(233,370)	(235,192)	(237,014)	(238,836)	(240,658)	(242,480)	
4	CWIP - Non-Interest Bearing	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	Net Investment (Lines 2 + 3 + 4)	\$509,679	\$507,857	\$506,035	\$504,213	\$502,391	\$500,569	\$498,747	\$496,925	\$495,103	\$493,281	\$491,459	\$489,637	\$487,815	
6	Average Net Investment		508,768	506,946	505,124	503,302	501,480	499,658	497,836	496,014	494,192	492,370	490,548	488,726	
7	Return on Average Net Investment (A)														
	a. Debt Component	Jan-Jun	2.02%	Jul-Dec	1.97%										
	b. Equity Component Grossed Up For Taxes		6.29%		6.23%										
	c. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
8	Investment Expenses														
	a. Depreciation	2.9936%	1,822	1,822	1,822	1,822	1,822	1,822	1,822	1,822	1,822	1,822	1,822	1,822	21,864
	b. Amortization		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Dismantlement		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	d. Property Taxes	0.9930%	604	604	604	604	604	604	604	604	604	604	604	604	7,248
	e. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
9	Total System Recoverable Expenses (Lines 7 + 8)		\$5,948	\$5,936	\$5,923	\$5,911	\$5,898	\$5,886	\$5,826	\$5,814	\$5,801	\$5,789	\$5,776	\$5,764	\$70,272
	a. Recoverable Costs Allocated to Energy		0	0	0	0	0	0	0	0	0	0	0	0	0
	b. Recoverable Costs Allocated to Demand		\$5,948	\$5,936	\$5,923	\$5,911	\$5,898	\$5,886	\$5,826	\$5,814	\$5,801	\$5,789	\$5,776	\$5,764	\$70,272

**For Project: ABOVE GROUND TANK SECONDARY CONTAINMENT - SUWANNEE CTs (Project 4.1f)**  
 (in Dollars)

Line	Description	Beginning of Period	Actual Jan-18	Actual Feb-18	Actual Mar-18	Actual Apr-18	Actual May-18	Actual Jun-18	Estimated Jul-18	Estimated Aug-18	Estimated Sep-18	Estimated Oct-18	Estimated Nov-18	Estimated Dec-18	End of Period Total
1	Investments														
	a. Expenditures/Additions		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	b. Clearings to Plant		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Retirements		0	0	0	0	0	0	0	0	0	0	0	0	0
	d. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
2	Plant-in-Service/Depreciation Base	\$1,037,199	1,037,199	1,037,199	1,037,199	1,037,199	1,037,199	1,037,199	1,037,199	1,037,199	1,037,199	1,037,199	1,037,199	1,037,199	
3	Less: Accumulated Depreciation	(358,152)	(361,004)	(363,856)	(366,708)	(369,560)	(372,412)	(375,264)	(378,116)	(380,968)	(383,820)	(386,672)	(389,524)	(392,376)	
4	CWIP - Non-Interest Bearing	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	Net Investment (Lines 2 + 3 + 4)	\$679,047	\$676,195	\$673,343	\$670,491	\$667,639	\$664,787	\$661,935	\$659,083	\$656,231	\$653,379	\$650,527	\$647,675	\$644,823	
6	Average Net Investment		677,621	674,769	671,917	669,065	666,213	663,361	660,509	657,657	654,805	651,953	649,101	646,249	
7	Return on Average Net Investment (A)														
	a. Debt Component	Jan-Jun	2.02%	Jul-Dec	1.97%										
	b. Equity Component Grossed Up For Taxes		6.29%		6.23%										
	c. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
8	Investment Expenses														
	a. Depreciation	3.3000%	2,852	2,852	2,852	2,852	2,852	2,852	2,852	2,852	2,852	2,852	2,852	2,852	34,224
	b. Amortization		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Dismantlement		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	d. Property Taxes	0.8670%	749	749	749	749	749	749	749	749	749	749	749	749	8,988
	e. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
9	Total System Recoverable Expenses (Lines 7 + 8)		\$8,293	\$8,274	\$8,254	\$8,234	\$8,214	\$8,194	\$8,113	\$8,093	\$8,074	\$8,054	\$8,035	\$8,016	\$97,848
	a. Recoverable Costs Allocated to Energy		0	0	0	0	0	0	0	0	0	0	0	0	0
	b. Recoverable Costs Allocated to Demand		\$8,293	\$8,274	\$8,254	\$8,234	\$8,214	\$8,194	\$8,113	\$8,093	\$8,074	\$8,054	\$8,035	\$8,016	\$97,848

(A) The allowable return is per the methodology approved in Order No. PSC-2012-0425-PAA-EU.

**For Project: ABOVE GROUND TANK SECONDARY CONTAINMENT - DeBARY CTs (Project 4.1g)**  
 (in Dollars)

Line	Description	Beginning of Period Amount	Actual Jan-18	Actual Feb-18	Actual Mar-18	Actual Apr-18	Actual May-18	Actual Jun-18	Estimated Jul-18	Estimated Aug-18	Estimated Sep-18	Estimated Oct-18	Estimated Nov-18	Estimated Dec-18	End of Period Total
1	Investments														
	a. Expenditures/Additions		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	b. Clearings to Plant		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Retirements		0	0	0	0	0	0	0	0	0	0	0	0	0
	d. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
2	Plant-in-Service/Depreciation Base	\$3,616,904	3,616,904	3,616,904	3,616,904	3,616,904	3,616,904	3,616,904	3,616,904	3,616,904	3,616,904	3,616,904	3,616,904	3,616,904	3,616,904
3	Less: Accumulated Depreciation	(728,030)	(735,867)	(743,704)	(751,541)	(759,378)	(767,215)	(775,052)	(782,889)	(790,726)	(798,563)	(806,400)	(814,237)	(822,074)	(822,074)
4	CWIP - Non-Interest Bearing	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Net Investment (Lines 2 + 3 + 4)	\$2,888,874	\$2,881,037	\$2,873,200	\$2,865,363	\$2,857,526	\$2,849,689	\$2,841,852	\$2,834,015	\$2,826,178	\$2,818,341	\$2,810,504	\$2,802,667	\$2,794,830	
6	Average Net Investment		2,884,955	2,877,118	2,869,281	2,861,444	2,853,607	2,845,770	2,837,933	2,830,096	2,822,259	2,814,422	2,806,585	2,798,748	
7	Return on Average Net Investment (A)														
	a. Debt Component		2.02%	1.97%											56,636
	b. Equity Component Grossed Up For Taxes		6.29%	6.23%											177,917
	c. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
8	Investment Expenses														
	a. Depreciation	2.6000%	7,837	7,837	7,837	7,837	7,837	7,837	7,837	7,837	7,837	7,837	7,837	7,837	94,044
	b. Amortization		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Dismantlement		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	d. Property Taxes	1.1630%	3,505	3,505	3,505	3,505	3,505	3,505	3,505	3,505	3,505	3,505	3,505	3,505	42,060
	e. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
9	Total System Recoverable Expenses (Lines 7 + 8)		\$31,318	\$31,264	\$31,209	\$31,155	\$31,101	\$31,047	\$30,728	\$30,674	\$30,621	\$30,567	\$30,513	\$30,460	\$370,657
	a. Recoverable Costs Allocated to Energy		0	0	0	0	0	0	0	0	0	0	0	0	0
	b. Recoverable Costs Allocated to Demand		\$31,318	\$31,264	\$31,209	\$31,155	\$31,101	\$31,047	\$30,728	\$30,674	\$30,621	\$30,567	\$30,513	\$30,460	\$370,657

**For Project: ABOVE GROUND TANK SECONDARY CONTAINMENT - University of Florida (Project 4.1h)**  
 (in Dollars)

Line	Description	Beginning of Period Amount	Actual Jan-18	Actual Feb-18	Actual Mar-18	Actual Apr-18	Actual May-18	Actual Jun-18	Estimated Jul-18	Estimated Aug-18	Estimated Sep-18	Estimated Oct-18	Estimated Nov-18	Estimated Dec-18	End of Period Total
1	Investments														
	a. Expenditures/Additions		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	b. Clearings to Plant		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Retirements		0	0	0	0	0	0	0	0	0	0	0	0	0
	d. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
2	Plant-in-Service/Depreciation Base	\$141,435	141,435	141,435	141,435	141,435	141,435	141,435	141,435	141,435	141,435	141,435	141,435	141,435	141,435
3	Less: Accumulated Depreciation	(60,342)	(60,583)	(60,824)	(61,065)	(61,306)	(61,547)	(61,788)	(62,029)	(62,270)	(62,511)	(62,752)	(62,993)	(63,234)	(63,234)
4	CWIP - Non-Interest Bearing	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Net Investment (Lines 2 + 3 + 4)	\$81,092	\$80,851	\$80,610	\$80,369	\$80,128	\$79,887	\$79,646	\$79,405	\$79,164	\$78,923	\$78,682	\$78,441	\$78,200	
6	Average Net Investment		80,972	80,731	80,490	80,249	80,008	79,767	79,526	79,285	79,044	78,803	78,562	78,321	
7	Return on Average Net Investment (A)														
	a. Debt Component		2.02%	1.97%											1,587
	b. Equity Component Grossed Up For Taxes		6.29%	6.23%											4,987
	c. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
8	Investment Expenses														
	a. Depreciation	2.0482%	241	241	241	241	241	241	241	241	241	241	241	241	2,892
	b. Amortization		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Dismantlement		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	d. Property Taxes	1.3030%	154	154	154	154	154	154	154	154	154	154	154	154	1,848
	e. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
9	Total System Recoverable Expenses (Lines 7 + 8)		\$956	\$954	\$952	\$951	\$949	\$947	\$938	\$937	\$935	\$933	\$932	\$930	\$11,314
	a. Recoverable Costs Allocated to Energy		0	0	0	0	0	0	0	0	0	0	0	0	0
	b. Recoverable Costs Allocated to Demand		\$956	\$954	\$952	\$951	\$949	\$947	\$938	\$937	\$935	\$933	\$932	\$930	\$11,314

(A) The allowable return is per the methodology approved in Order No. PSC-2012-0425-PAA-EU.

**For Project: ABOVE GROUND TANK SECONDARY CONTAINMENT - Higgins (Project 4.1i)**  
 (in Dollars)

Line	Description	Beginning of Period Amount	Actual Jan-18	Actual Feb-18	Actual Mar-18	Actual Apr-18	Actual May-18	Actual Jun-18	Estimated Jul-18	Estimated Aug-18	Estimated Sep-18	Estimated Oct-18	Estimated Nov-18	Estimated Dec-18	End of Period Total
1	Investments														
	a. Expenditures/Additions		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	b. Clearings to Plant		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Retirements		0	0	0	0	0	0	0	0	0	0	0	0	0
	d. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
2	Plant-in-Service/Depreciation Base	\$394,968	394,968	394,968	394,968	394,968	394,968	394,968	394,968	394,968	394,968	394,968	394,968	394,968	394,968
3	Less: Accumulated Depreciation	(182,388)	(184,165)	(185,942)	(187,719)	(189,496)	(191,273)	(193,050)	(194,827)	(196,604)	(198,381)	(200,158)	(201,935)	(203,712)	(203,712)
4	CWIP - Non-Interest Bearing	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Net Investment (Lines 2 + 3 + 4)	\$212,580	\$210,803	\$209,026	\$207,249	\$205,472	\$203,695	\$201,918	\$200,141	\$198,364	\$196,587	\$194,810	\$193,033	\$191,256	\$191,256
6	Average Net Investment		211,691	209,914	208,137	206,360	204,583	202,806	201,029	199,252	197,475	195,698	193,921	192,144	192,144
7	Return on Average Net Investment (A)														
	a. Debt Component		2.02%	1.97%											
	b. Equity Component Grossed Up For Taxes		6.29%	6.23%											
	c. Other														
8	Investment Expenses														
	a. Depreciation	5.4000%	1,777	1,777	1,777	1,777	1,777	1,777	1,777	1,777	1,777	1,777	1,777	1,777	21,324
	b. Amortization		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Dismantlement		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	d. Property Taxes	0.9930%	327	327	327	327	327	327	327	327	327	327	327	327	3,924
	e. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
9	Total System Recoverable Expenses (Lines 7 + 8)		\$3,570	\$3,558	\$3,545	\$3,533	\$3,521	\$3,508	\$3,478	\$3,465	\$3,453	\$3,441	\$3,429	\$3,416	\$41,917
	a. Recoverable Costs Allocated to Energy		0	0	0	0	0	0	0	0	0	0	0	0	0
	b. Recoverable Costs Allocated to Demand		\$3,570	\$3,558	\$3,545	\$3,533	\$3,521	\$3,508	\$3,478	\$3,465	\$3,453	\$3,441	\$3,429	\$3,416	\$41,917

**For Project: ABOVE GROUND TANK SECONDARY CONTAINMENT - CRYSTAL RIVER 1 & 2 (Project 4.2)**  
 (in Dollars)

Line	Description	Beginning of Period Amount	Actual Jan-18	Actual Feb-18	Actual Mar-18	Actual Apr-18	Actual May-18	Actual Jun-18	Estimated Jul-18	Estimated Aug-18	Estimated Sep-18	Estimated Oct-18	Estimated Nov-18	Estimated Dec-18	End of Period Total
1	Investments														
	a. Expenditures/Additions		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	b. Clearings to Plant		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Retirements		0	0	0	0	0	0	0	0	0	0	0	0	0
	d. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
2	Plant-in-Service/Depreciation Base	\$33,092	33,092	33,092	33,092	33,092	33,092	33,092	33,092	33,092	33,092	33,092	33,092	33,092	33,092
3	Less: Accumulated Depreciation	(18,339)	(18,441)	(18,543)	(18,645)	(18,747)	(18,849)	(18,951)	(19,053)	(19,155)	(19,257)	(19,359)	(19,461)	(19,563)	(19,563)
4	CWIP - Non-Interest Bearing	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Net Investment (Lines 2 + 3 + 4)	\$14,753	\$14,651	\$14,549	\$14,447	\$14,345	\$14,243	\$14,141	\$14,039	\$13,937	\$13,835	\$13,733	\$13,631	\$13,529	\$13,529
6	Average Net Investment		14,702	14,600	14,498	14,396	14,294	14,192	14,090	13,988	13,886	13,784	13,682	13,580	13,580
7	Return on Average Net Investment (A)														
	a. Debt Component		2.02%	1.97%											
	b. Equity Component Grossed Up For Taxes		6.29%	6.23%											
	c. Other														
8	Investment Expenses														
	a. Depreciation	3.7000%	102	102	102	102	102	102	102	102	102	102	102	102	1,224
	b. Amortization		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Dismantlement		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	d. Property Taxes	0.1645%	5	5	5	5	5	5	5	5	5	5	5	5	60
	e. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
9	Total System Recoverable Expenses (Lines 7 + 8)		\$209	\$209	\$207	\$206	\$206	\$205	\$203	\$203	\$202	\$202	\$200	\$199	\$2,451
	a. Recoverable Costs Allocated to Energy		0	0	0	0	0	0	0	0	0	0	0	0	0
	b. Recoverable Costs Allocated to Demand		\$209	\$209	\$207	\$206	\$206	\$205	\$203	\$203	\$202	\$202	\$200	\$199	\$2,451

(A) The allowable return is per the methodology approved in Order No. PSC-2012-0425-PAA-EU.

**For Project: ABOVE GROUND TANK SECONDARY CONTAINMENT - CRYSTAL RIVER 4 & 5 (Project 4.2a)**  
 (in Dollars)

Line	Description	Beginning of Period	Actual Jan-18	Actual Feb-18	Actual Mar-18	Actual Apr-18	Actual May-18	Actual Jun-18	Estimated Jul-18	Estimated Aug-18	Estimated Sep-18	Estimated Oct-18	Estimated Nov-18	Estimated Dec-18	End of Period Total
1	Investments														
	a. Expenditures/Additions		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	b. Clearings to Plant		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Retirements		0	0	0	0	0	0	0	0	0	0	0	0	0
	d. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
2	Plant-in-Service/Depreciation Base	\$2,365,947	2,365,947	2,365,947	2,365,947	2,365,947	2,365,947	2,365,947	2,365,947	2,365,947	2,365,947	2,365,947	2,365,947	2,365,947	2,365,947
3	Less: Accumulated Depreciation	\$45,572	42,642	39,712	36,782	33,852	30,922	27,992	25,062	22,132	19,202	16,272	13,342	10,412	
4	CWIP - Non-Interest Bearing	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Net Investment (Lines 2 + 3 + 4)	\$2,411,519	\$2,408,589	\$2,405,659	\$2,402,729	\$2,399,799	\$2,396,869	\$2,393,939	\$2,391,009	\$2,388,079	\$2,385,149	\$2,382,219	\$2,379,289	\$2,376,359	
6	Average Net Investment		2,410,054	2,407,124	2,404,194	2,401,264	2,398,334	2,395,404	2,392,474	2,389,544	2,386,614	2,383,684	2,380,754	2,377,824	
7	Return on Average Net Investment (A)														
	a. Debt Component	Jan-Jun	2.02%	Jul-Dec	1.97%										
	b. Equity Component Grossed Up For Taxes		6.29%		6.23%										
	c. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
8	Investment Expenses														
	a. Depreciation	1.4860%	2,930	2,930	2,930	2,930	2,930	2,930	2,930	2,930	2,930	2,930	2,930	2,930	35,160
	b. Amortization		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Dismantlement		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	d. Property Taxes	0.1645%	324	324	324	324	324	324	324	324	324	324	324	324	3,888
	e. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
9	Total System Recoverable Expenses (Lines 7 + 8)		\$19,941	\$19,921	\$19,901	\$19,881	\$19,861	\$19,841	\$19,597	\$19,576	\$19,556	\$19,537	\$19,517	\$19,497	\$236,626
	a. Recoverable Costs Allocated to Energy		0	0	0	0	0	0	0	0	0	0	0	0	0
	b. Recoverable Costs Allocated to Demand		\$19,941	\$19,921	\$19,901	\$19,881	\$19,861	\$19,841	\$19,597	\$19,576	\$19,556	\$19,537	\$19,517	\$19,497	\$236,626

**For Project: ABOVE GROUND TANK SECONDARY CONTAINMENT - Anclote (Project 4.3)**  
 (in Dollars)

Line	Description	Beginning of Period	Actual Jan-18	Actual Feb-18	Actual Mar-18	Actual Apr-18	Actual May-18	Actual Jun-18	Estimated Jul-18	Estimated Aug-18	Estimated Sep-18	Estimated Oct-18	Estimated Nov-18	Estimated Dec-18	End of Period Total
1	Investments														
	a. Expenditures/Additions		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	b. Clearings to Plant		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Retirements		0	0	0	0	0	0	0	0	0	0	0	0	0
	d. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
2	Plant-in-Service/Depreciation Base	\$290,297	290,297	290,297	290,297	290,297	290,297	290,297	290,297	290,297	290,297	290,297	290,297	290,297	290,297
3	Less: Accumulated Depreciation	(72,786)	(73,311)	(73,836)	(74,361)	(74,886)	(75,411)	(75,936)	(76,461)	(76,986)	(77,511)	(78,036)	(78,561)	(79,086)	
4	CWIP - Non-Interest Bearing	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Net Investment (Lines 2 + 3 + 4)	\$217,512	\$216,987	\$216,462	\$215,937	\$215,412	\$214,887	\$214,362	\$213,837	\$213,312	\$212,787	\$212,262	\$211,737	\$211,212	
6	Average Net Investment		217,249	216,724	216,199	215,674	215,149	214,624	214,099	213,574	213,049	212,524	211,999	211,474	
7	Return on Average Net Investment (A)														
	a. Debt Component	Jan-Jun	2.02%	Jul-Dec	1.97%										
	b. Equity Component Grossed Up For Taxes		6.29%		6.23%										
	c. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
8	Investment Expenses														
	a. Depreciation	2.1722%	525	525	525	525	525	525	525	525	525	525	525	525	6,300
	b. Amortization		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Dismantlement		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	d. Property Taxes	0.8490%	205	205	205	205	205	205	205	205	205	205	205	205	2,460
	e. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
9	Total System Recoverable Expenses (Lines 7 + 8)		\$2,234	\$2,230	\$2,227	\$2,224	\$2,220	\$2,216	\$2,192	\$2,189	\$2,185	\$2,181	\$2,179	\$2,175	\$26,452
	a. Recoverable Costs Allocated to Energy		0	0	0	0	0	0	0	0	0	0	0	0	0
	b. Recoverable Costs Allocated to Demand		\$2,234	\$2,230	\$2,227	\$2,224	\$2,220	\$2,216	\$2,192	\$2,189	\$2,185	\$2,181	\$2,179	\$2,175	\$26,452

(A) The allowable return is per the methodology approved in Order No. PSC-2012-0425-PAA-EU.

For Project: CAIR CTs - AVON PARK (Project 7.2a)  
 (in Dollars)

Line	Description	Beginning of Period Amount	Actual Jan-18	Actual Feb-18	Actual Mar-18	Actual Apr-18	Actual May-18	Actual Jun-18	Estimated Jul-18	Estimated Aug-18	Estimated Sep-18	Estimated Oct-18	Estimated Nov-18	Estimated Dec-18	End of Period Total
1	Investments														
	a. Expenditures/Additions		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	b. Clearings to Plant		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Retirements		0	0	0	0	0	0	0	0	0	0	0	0	0
	d. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
2	Plant-in-Service/Depreciation Base	\$161,754	161,754	161,754	161,754	161,754	161,754	161,754	161,754	161,754	161,754	161,754	161,754	161,754	
3	Less: Accumulated Depreciation	(43,337)	(43,741)	(44,145)	(44,549)	(44,953)	(45,357)	(45,761)	(46,165)	(46,569)	(46,973)	(47,377)	(47,781)	(48,185)	
4	CWIP - Non-Interest Bearing	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	Net Investment (Lines 2 + 3 + 4)	\$118,417	\$118,013	\$117,609	\$117,205	\$116,801	\$116,397	\$115,993	\$115,589	\$115,185	\$114,781	\$114,377	\$113,973	\$113,569	
6	Average Net Investment		118,215	117,811	117,407	117,003	116,599	116,195	115,791	115,387	114,983	114,579	114,175	113,771	
7	Return on Average Net Investment (A)														
	a. Debt Component		199	198	197	197	196	195	190	189	189	188	187	187	2,312
	b. Equity Component Grossed Up For Taxes		620	618	616	613	611	609	601	599	597	595	593	591	7,263
	c. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
8	Investment Expenses														
	a. Depreciation	3.0000%	404	404	404	404	404	404	404	404	404	404	404	404	4,848
	b. Amortization		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Dismantlement		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	d. Property Taxes	0.9420%	127	127	127	127	127	127	127	127	127	127	127	127	1,524
	e. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
9	Total System Recoverable Expenses (Lines 7 + 8)		\$1,350	\$1,347	\$1,344	\$1,341	\$1,338	\$1,335	\$1,322	\$1,319	\$1,317	\$1,314	\$1,311	\$1,309	\$15,947
	a. Recoverable Costs Allocated to Energy		0	0	0	0	0	0	0	0	0	0	0	0	0
	b. Recoverable Costs Allocated to Demand		\$1,350	\$1,347	\$1,344	\$1,341	\$1,338	\$1,335	\$1,322	\$1,319	\$1,317	\$1,314	\$1,311	\$1,309	\$15,947

For Project: CAIR CTs - BARTOW (Project 7.2b)  
 (in Dollars)

Line	Description	Beginning of Period Amount	Actual Jan-18	Actual Feb-18	Actual Mar-18	Actual Apr-18	Actual May-18	Actual Jun-18	Estimated Jul-18	Estimated Aug-18	Estimated Sep-18	Estimated Oct-18	Estimated Nov-18	Estimated Dec-18	End of Period Total
1	Investments														
	a. Expenditures/Additions		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	b. Clearings to Plant		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Retirements		0	0	0	0	0	0	0	0	0	0	0	0	0
	d. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
2	Plant-in-Service/Depreciation Base	\$275,347	275,347	275,347	275,347	275,347	275,347	275,347	275,347	275,347	275,347	275,347	275,347	275,347	
3	Less: Accumulated Depreciation	(53,857)	(54,215)	(54,573)	(54,931)	(55,289)	(55,647)	(56,005)	(56,363)	(56,721)	(57,079)	(57,437)	(57,795)	(58,153)	
4	CWIP - Non-Interest Bearing	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	Net Investment (Lines 2 + 3 + 4)	\$221,490	\$221,132	\$220,774	\$220,416	\$220,058	\$219,700	\$219,342	\$218,984	\$218,626	\$218,268	\$217,910	\$217,552	\$217,194	
6	Average Net Investment		221,311	220,953	220,595	220,237	219,879	219,521	219,163	218,805	218,447	218,089	217,731	217,373	
7	Return on Average Net Investment (A)														
	a. Debt Component		372	372	371	370	370	369	359	359	358	358	357	356	4,371
	b. Equity Component Grossed Up For Taxes		1,160	1,158	1,157	1,155	1,153	1,151	1,138	1,136	1,134	1,132	1,130	1,128	13,732
	c. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
8	Investment Expenses														
	a. Depreciation	1.5610%	358	358	358	358	358	358	358	358	358	358	358	358	4,296
	b. Amortization		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Dismantlement		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	d. Property Taxes	0.9930%	228	228	228	228	228	228	228	228	228	228	228	228	2,736
	e. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
9	Total System Recoverable Expenses (Lines 7 + 8)		\$2,118	\$2,116	\$2,114	\$2,111	\$2,109	\$2,106	\$2,083	\$2,081	\$2,078	\$2,076	\$2,073	\$2,070	\$25,135
	a. Recoverable Costs Allocated to Energy		0	0	0	0	0	0	0	0	0	0	0	0	0
	b. Recoverable Costs Allocated to Demand		\$2,118	\$2,116	\$2,114	\$2,111	\$2,109	\$2,106	\$2,083	\$2,081	\$2,078	\$2,076	\$2,073	\$2,070	\$25,135

(A) The allowable return is per the methodology approved in Order No. PSC-2012-0425-PAA-EU.

**For Project: CAIR CTs - BAYBORO (Project 7.2c)**  
**(in Dollars)**

Line	Description	Beginning of Period Amount	Actual Jan-18	Actual Feb-18	Actual Mar-18	Actual Apr-18	Actual May-18	Actual Jun-18	Estimated Jul-18	Estimated Aug-18	Estimated Sep-18	Estimated Oct-18	Estimated Nov-18	Estimated Dec-18	End of Period Total
1	Investments														
	a. Expenditures/Additions		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	b. Clearings to Plant		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Retirements		0	0	0	0	0	0	0	0	0	0	0	0	0
	d. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
2	Plant-in-Service/Depreciation Base	\$198,988	198,988	198,988	198,988	198,988	198,988	198,988	198,988	198,988	198,988	198,988	198,988	198,988	198,988
3	Less: Accumulated Depreciation	(47,871)	(48,255)	(48,639)	(49,023)	(49,407)	(49,791)	(50,175)	(50,559)	(50,943)	(51,327)	(51,711)	(52,095)	(52,479)	(52,479)
4	CWIP - Non-Interest Bearing	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Net Investment (Lines 2 + 3 + 4)	\$151,117	\$150,733	\$150,349	\$149,965	\$149,581	\$149,197	\$148,813	\$148,429	\$148,045	\$147,661	\$147,277	\$146,893	\$146,509	\$146,509
6	Average Net Investment		150,925	150,541	150,157	149,773	149,389	149,005	148,621	148,237	147,853	147,469	147,085	146,701	146,701
7	Return on Average Net Investment (A)														
	a. Debt Component		2.02%	1.97%											2,966
	b. Equity Component Grossed Up For Taxes		6.29%	6.23%											9,318
	c. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
8	Investment Expenses														
	a. Depreciation	2.3149%	384	384	384	384	384	384	384	384	384	384	384	384	4,608
	b. Amortization		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Dismantlement		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	d. Property Taxes	0.9930%	165	165	165	165	165	165	165	165	165	165	165	165	1,980
	e. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
9	Total System Recoverable Expenses (Lines 7 + 8)		\$1,594	\$1,591	\$1,588	\$1,586	\$1,583	\$1,581	\$1,565	\$1,562	\$1,559	\$1,557	\$1,554	\$1,552	\$18,872
	a. Recoverable Costs Allocated to Energy		0	0	0	0	0	0	0	0	0	0	0	0	0
	b. Recoverable Costs Allocated to Demand		\$1,594	\$1,591	\$1,588	\$1,586	\$1,583	\$1,581	\$1,565	\$1,562	\$1,559	\$1,557	\$1,554	\$1,552	\$18,872

**For Project: CAIR CTs - DeBARY (Project 7.2d)**  
**(in Dollars)**

Line	Description	Beginning of Period Amount	Actual Jan-18	Actual Feb-18	Actual Mar-18	Actual Apr-18	Actual May-18	Actual Jun-18	Estimated Jul-18	Estimated Aug-18	Estimated Sep-18	Estimated Oct-18	Estimated Nov-18	Estimated Dec-18	End of Period Total
1	Investments														
	a. Expenditures/Additions		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	b. Clearings to Plant		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Retirements		0	0	0	0	0	0	0	0	0	0	0	0	0
	d. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
2	Plant-in-Service/Depreciation Base	\$87,667	87,667	87,667	87,667	87,667	87,667	87,667	87,667	87,667	87,667	87,667	87,667	87,667	87,667
3	Less: Accumulated Depreciation	(27,399)	(27,618)	(27,837)	(28,056)	(28,275)	(28,494)	(28,713)	(28,932)	(29,151)	(29,370)	(29,589)	(29,808)	(30,027)	(30,027)
4	CWIP - Non-Interest Bearing	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Net Investment (Lines 2 + 3 + 4)	\$60,268	\$60,049	\$59,830	\$59,611	\$59,392	\$59,173	\$58,954	\$58,735	\$58,516	\$58,297	\$58,078	\$57,859	\$57,640	\$57,640
6	Average Net Investment		60,159	59,940	59,721	59,502	59,283	59,064	58,845	58,626	58,407	58,188	57,969	57,750	57,750
7	Return on Average Net Investment (A)														
	a. Debt Component		2.02%	1.97%											1,174
	b. Equity Component Grossed Up For Taxes		6.29%	6.23%											3,690
	c. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
8	Investment Expenses														
	a. Depreciation	3.0000%	219	219	219	219	219	219	219	219	219	219	219	219	2,628
	b. Amortization		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Dismantlement		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	d. Property Taxes	1.1630%	85	85	85	85	85	85	85	85	85	85	85	85	1,020
	e. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
9	Total System Recoverable Expenses (Lines 7 + 8)		\$720	\$719	\$717	\$716	\$715	\$713	\$705	\$704	\$703	\$701	\$700	\$699	\$8,512
	a. Recoverable Costs Allocated to Energy		0	0	0	0	0	0	0	0	0	0	0	0	0
	b. Recoverable Costs Allocated to Demand		\$720	\$719	\$717	\$716	\$715	\$713	\$705	\$704	\$703	\$701	\$700	\$699	\$8,512

(A) The allowable return is per the methodology approved in Order No. PSC-2012-0425-PAA-EU.

**For Project: CAIR CTs - HIGGINS (Project 7.2e)**  
(in Dollars)

Line	Description	Beginning of Period Amount	Actual Jan-18	Actual Feb-18	Actual Mar-18	Actual Apr-18	Actual May-18	Actual Jun-18	Estimated Jul-18	Estimated Aug-18	Estimated Sep-18	Estimated Oct-18	Estimated Nov-18	Estimated Dec-18	End of Period Total
1	Investments														
	a. Expenditures/Additions		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	b. Clearings to Plant		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Retirements		0	0	0	0	0	0	0	0	0	0	0	0	0
	d. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
2	Plant-in-Service/Depreciation Base	\$347,198	347,198	347,198	347,198	347,198	347,198	347,198	347,198	347,198	347,198	347,198	347,198	347,198	
3	Less: Accumulated Depreciation	(87,177)	(88,016)	(88,855)	(89,694)	(90,533)	(91,372)	(92,211)	(93,050)	(93,889)	(94,728)	(95,567)	(96,406)	(97,245)	
4	CWIP - Non-Interest Bearing	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	Net Investment (Lines 2 + 3 + 4)	\$260,021	\$259,182	\$258,343	\$257,504	\$256,665	\$255,826	\$254,987	\$254,148	\$253,309	\$252,470	\$251,631	\$250,792	\$249,953	
6	Average Net Investment		259,601	258,762	257,923	257,084	256,245	255,406	254,567	253,728	252,889	252,050	251,211	250,372	
7	Return on Average Net Investment (A)														
	a. Debt Component		436	435	434	432	431	429	417	416	415	413	412	411	5,081
	b. Equity Component Grossed Up For Taxes		1,361	1,357	1,352	1,348	1,343	1,339	1,321	1,317	1,313	1,308	1,304	1,300	15,963
	c. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
8	Investment Expenses														
	a. Depreciation	2.9000%	839	839	839	839	839	839	839	839	839	839	839	839	10,068
	b. Amortization		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Dismantlement		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	d. Property Taxes	0.9930%	287	287	287	287	287	287	287	287	287	287	287	287	3,444
	e. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
9	Total System Recoverable Expenses (Lines 7 + 8)		\$2,923	\$2,918	\$2,912	\$2,906	\$2,900	\$2,894	\$2,864	\$2,859	\$2,854	\$2,847	\$2,842	\$2,837	\$34,556
	a. Recoverable Costs Allocated to Energy		0	0	0	0	0	0	0	0	0	0	0	0	0
	b. Recoverable Costs Allocated to Demand		\$2,923	\$2,918	\$2,912	\$2,906	\$2,900	\$2,894	\$2,864	\$2,859	\$2,854	\$2,847	\$2,842	\$2,837	\$34,556

**For Project: CAIR CTs - INTERCESSION CITY (Project 7.2f)**  
(in Dollars)

Line	Description	Beginning of Period Amount	Actual Jan-18	Actual Feb-18	Actual Mar-18	Actual Apr-18	Actual May-18	Actual Jun-18	Estimated Jul-18	Estimated Aug-18	Estimated Sep-18	Estimated Oct-18	Estimated Nov-18	Estimated Dec-18	End of Period Total
1	Investments														
	a. Expenditures/Additions		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	b. Clearings to Plant		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Retirements		0	0	0	0	0	0	0	0	0	0	0	0	0
	d. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
2	Plant-in-Service/Depreciation Base	\$349,583	349,583	349,583	349,583	349,583	349,583	349,583	349,583	349,583	349,583	349,583	349,583	349,583	
3	Less: Accumulated Depreciation	(95,011)	(95,798)	(96,585)	(97,372)	(98,159)	(98,946)	(99,733)	(100,520)	(101,307)	(102,094)	(102,881)	(103,668)	(104,455)	
4	CWIP - Non-Interest Bearing	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	Net Investment (Lines 2 + 3 + 4)	\$254,573	\$253,786	\$252,999	\$252,212	\$251,425	\$250,638	\$249,851	\$249,064	\$248,277	\$247,490	\$246,703	\$245,916	\$245,129	
6	Average Net Investment		254,179	253,392	252,605	251,818	251,031	250,244	249,457	248,670	247,883	247,096	246,309	245,522	
7	Return on Average Net Investment (A)														
	a. Debt Component		427	426	425	423	422	421	409	408	406	405	404	403	4,979
	b. Equity Component Grossed Up For Taxes		1,333	1,328	1,324	1,320	1,316	1,312	1,295	1,291	1,287	1,283	1,279	1,275	15,643
	c. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
8	Investment Expenses														
	a. Depreciation	2.7000%	787	787	787	787	787	787	787	787	787	787	787	787	9,444
	b. Amortization		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Dismantlement		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	d. Property Taxes	0.8500%	248	248	248	248	248	248	248	248	248	248	248	248	2,976
	e. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
9	Total System Recoverable Expenses (Lines 7 + 8)		\$2,795	\$2,789	\$2,784	\$2,778	\$2,773	\$2,768	\$2,739	\$2,734	\$2,728	\$2,723	\$2,718	\$2,713	\$33,042
	a. Recoverable Costs Allocated to Energy		0	0	0	0	0	0	0	0	0	0	0	0	0
	b. Recoverable Costs Allocated to Demand		\$2,795	\$2,789	\$2,784	\$2,778	\$2,773	\$2,768	\$2,739	\$2,734	\$2,728	\$2,723	\$2,718	\$2,713	\$33,042

(A) The allowable return is per the methodology approved in Order No. PSC-2012-0425-PAA-EU.

For Project: CAIR CTs - TURNER (Project 7.2g)  
 (in Dollars)

Line	Description	Beginning of Period Amount	Actual Jan-18	Actual Feb-18	Actual Mar-18	Actual Apr-18	Actual May-18	Actual Jun-18	Estimated Jul-18	Estimated Aug-18	Estimated Sep-18	Estimated Oct-18	Estimated Nov-18	Estimated Dec-18	End of Period Total
1	Investments														
	a. Expenditures/Additions		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	b. Clearings to Plant		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Retirements		0	0	0	0	0	0	0	0	0	0	0	0	0
	d. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
2	Plant-in-Service/Depreciation Base	\$0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Less: Accumulated Depreciation	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3a	Regulatory Asset Balance (B)	48,372	45,147	41,922	38,698	35,473	32,248	29,023	25,798	22,574	19,349	16,124	12,899	9,674	
4	CWIP - Non-Interest Bearing	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Net Investment (Lines 2 + 3 + 4)	\$48,372	\$45,147	\$41,922	\$38,698	\$35,473	\$32,248	\$29,023	\$25,798	\$22,574	\$19,349	\$16,124	\$12,899	\$9,674	
6	Average Net Investment		46,760	43,535	40,310	37,085	33,860	30,636	27,411	24,186	20,961	17,736	14,512	11,287	
7	Return on Average Net Investment (A)														
	a. Debt Component		79	73	68	62	57	52	45	40	34	29	24	19	582
	b. Equity Component Grossed Up For Taxes		245	228	211	194	178	161	142	126	109	92	75	59	1,820
	c. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
8	Investment Expenses														
	a. Depreciation	1.2187%	0	0	0	0	0	0	0	0	0	0	0	0	0
	b. Amortization (B)		3,225	3,225	3,225	3,225	3,225	3,225	3,225	3,225	3,225	3,225	3,225	3,225	38,698
	c. Dismantlement		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	d. Property Taxes	1.1630%	0	0	0	0	0	0	0	0	0	0	0	0	0
	e. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
9	Total System Recoverable Expenses (Lines 7 + 8)		\$3,549	\$3,526	\$3,504	\$3,481	\$3,460	\$3,438	\$3,412	\$3,391	\$3,368	\$3,346	\$3,324	\$3,303	\$41,100
	a. Recoverable Costs Allocated to Energy		0	0	0	0	0	0	0	0	0	0	0	0	0
	b. Recoverable Costs Allocated to Demand		\$3,549	\$3,526	\$3,504	\$3,481	\$3,460	\$3,438	\$3,412	\$3,391	\$3,368	\$3,346	\$3,324	\$3,303	\$41,100

For Project: CAIR CTs - SUWANNEE (Project 7.2h)  
 (in Dollars)

Line	Description	Beginning of Period Amount	Actual Jan-18	Actual Feb-18	Actual Mar-18	Actual Apr-18	Actual May-18	Actual Jun-18	Estimated Jul-18	Estimated Aug-18	Estimated Sep-18	Estimated Oct-18	Estimated Nov-18	Estimated Dec-18	End of Period Total
1	Investments														
	a. Expenditures/Additions		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	b. Clearings to Plant		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Retirements		0	0	0	0	0	0	0	0	0	0	0	0	0
	d. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
2	Plant-in-Service/Depreciation Base	\$381,560	381,560	381,560	381,560	381,560	381,560	381,560	381,560	381,560	381,560	381,560	381,560	381,560	
3	Less: Accumulated Depreciation	(\$56,190)	(56,613)	(57,036)	(57,459)	(57,882)	(58,305)	(58,728)	(59,151)	(59,574)	(59,997)	(60,420)	(60,843)	(61,266)	
4	CWIP - Non-Interest Bearing	\$0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Net Investment (Lines 2 + 3 + 4)	\$325,370	\$324,947	\$324,524	\$324,101	\$323,678	\$323,255	\$322,832	\$322,409	\$321,986	\$321,563	\$321,140	\$320,717	\$320,294	
6	Average Net Investment		325,158	324,735	324,312	323,889	323,466	323,043	322,620	322,197	321,774	321,351	320,928	320,505	
7	Return on Average Net Investment (A)														
	a. Debt Component		547	546	545	545	544	543	529	528	528	527	526	526	6,434
	b. Equity Component Grossed Up For Taxes		1,705	1,703	1,700	1,698	1,696	1,694	1,675	1,673	1,670	1,668	1,666	1,664	20,212
	c. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
8	Investment Expenses														
	a. Depreciation	1.3299%	423	423	423	423	423	423	423	423	423	423	423	423	5,076
	b. Amortization		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Dismantlement		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	d. Property Taxes	0.8060%	256	256	256	256	256	256	256	256	256	256	256	256	3,072
	e. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
9	Total System Recoverable Expenses (Lines 7 + 8)		\$2,931	\$2,928	\$2,924	\$2,922	\$2,919	\$2,916	\$2,883	\$2,880	\$2,877	\$2,874	\$2,871	\$2,869	\$34,794
	a. Recoverable Costs Allocated to Energy		0	0	0	0	0	0	0	0	0	0	0	0	0
	b. Recoverable Costs Allocated to Demand		\$2,931	\$2,928	\$2,924	\$2,922	\$2,919	\$2,916	\$2,883	\$2,880	\$2,877	\$2,874	\$2,871	\$2,869	\$34,794

(A) The allowable return is per the methodology approved in Order No. PSC-2012-0425-PAA-EU.  
 (B) Investment amortized over three years as approved in Order No. PSC-2016-0535-FOF-EI.





**For Project: CAIR Crystal River AFUDC - FGD Common (Project 7.4r) - CR4 Clinker Mitigation**  
**(in Dollars)**

Line	Description	Beginning of Period Amount	Actual Jan-18	Actual Feb-18	Actual Mar-18	Actual Apr-18	Actual May-18	Actual Jun-18	Estimated Jul-18	Estimated Aug-18	Estimated Sep-18	Estimated Oct-18	Estimated Nov-18	Estimated Dec-18	End of Period Total
1	Investments														
	a. Expenditures/Additions		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	b. Clearings to Plant		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Retirements		0	0	0	0	0	0	0	0	0	0	0	0	0
	d. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
2	Plant-in-Service/Depreciation Base	\$660,998	660,998	660,998	660,998	660,998	660,998	660,998	660,998	660,998	660,998	660,998	660,998	660,998	660,998
3	Less: Accumulated Depreciation	(\$71,533)	(72,894)	(74,255)	(75,616)	(76,977)	(78,338)	(79,699)	(81,060)	(82,421)	(83,782)	(85,143)	(86,504)	(87,865)	(87,865)
4	CWIP - Non-Interest Bearing	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Net Investment (Lines 2 + 3 + 4)	\$589,465	\$588,104	\$586,743	\$585,382	\$584,021	\$582,660	\$581,299	\$579,938	\$578,577	\$577,216	\$575,855	\$574,494	\$573,133	\$573,133
6	Average Net Investment		588,785	587,424	586,063	584,702	583,341	581,980	580,619	579,258	577,897	576,536	575,175	573,814	573,814
7	Return on Average Net Investment (A)														
	a. Debt Component		2.02%	1.97%											
	b. Equity Component Grossed Up For Taxes		6.29%	6.23%											
	c. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
8	Investment Expenses														
	a. Depreciation	2.4700%	1,361	1,361	1,361	1,361	1,361	1,361	1,361	1,361	1,361	1,361	1,361	1,361	16,332
	b. Amortization		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Dismantlement		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	d. Property Taxes	0.1703%	94	94	94	94	94	94	94	94	94	94	94	94	1,128
	e. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
9	Total System Recoverable Expenses (Lines 7 + 8)		\$5,532	\$5,523	\$5,513	\$5,503	\$5,494	\$5,485	\$5,421	\$5,412	\$5,403	\$5,393	\$5,384	\$5,375	\$65,438
	a. Recoverable Costs Allocated to Energy		0	0	0	0	0	0	0	0	0	0	0	0	0
	b. Recoverable Costs Allocated to Demand		\$5,532	\$5,523	\$5,513	\$5,503	\$5,494	\$5,485	\$5,421	\$5,412	\$5,403	\$5,393	\$5,384	\$5,375	\$65,438

**For Project: CAIR Crystal River AFUDC - FGD Common (Project 7.4s) - CR5 Clinker Mitigation**  
**(in Dollars)**

Line	Description	Beginning of Period Amount	Actual Jan-18	Actual Feb-18	Actual Mar-18	Actual Apr-18	Actual May-18	Actual Jun-18	Estimated Jul-18	Estimated Aug-18	Estimated Sep-18	Estimated Oct-18	Estimated Nov-18	Estimated Dec-18	End of Period Total
1	Investments														
	a. Expenditures/Additions		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	b. Clearings to Plant		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Retirements		0	0	0	0	0	0	0	0	0	0	0	0	0
	d. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
2	Plant-in-Service/Depreciation Base	\$505,904	505,904	505,904	505,904	505,904	505,904	505,904	505,904	505,904	505,904	505,904	505,904	505,904	505,904
3	Less: Accumulated Depreciation	(\$41,839)	(42,880)	(43,921)	(44,962)	(46,003)	(47,044)	(48,085)	(49,126)	(50,167)	(51,208)	(52,249)	(53,290)	(54,331)	(54,331)
4	CWIP - Non-Interest Bearing	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Net Investment (Lines 2 + 3 + 4)	\$464,065	\$463,024	\$461,983	\$460,942	\$459,901	\$458,860	\$457,819	\$456,778	\$455,737	\$454,696	\$453,655	\$452,614	\$451,573	\$451,573
6	Return on Average Net Investment (A)		463,545	462,504	461,463	460,422	459,381	458,340	457,299	456,258	455,217	454,176	453,135	452,094	452,094
7	Return on Average Net Investment														
	a. Debt Component		2.02%	1.97%											
	b. Equity Component Grossed Up For Taxes		6.29%	6.23%											
	c. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
8	Investment Expenses														
	a. Depreciation	2.4700%	1,041	1,041	1,041	1,041	1,041	1,041	1,041	1,041	1,041	1,041	1,041	1,041	12,492
	b. Amortization		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Dismantlement		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	d. Property Taxes	0.1703%	72	72	72	72	72	72	72	72	72	72	72	72	864
	e. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
9	Total System Recoverable Expenses (Lines 7 + 8)		\$4,322	\$4,316	\$4,308	\$4,301	\$4,293	\$4,287	\$4,237	\$4,229	\$4,222	\$4,216	\$4,208	\$4,201	\$51,140
	a. Recoverable Costs Allocated to Energy		0	0	0	0	0	0	0	0	0	0	0	0	0
	b. Recoverable Costs Allocated to Demand		\$4,322	\$4,316	\$4,308	\$4,301	\$4,293	\$4,287	\$4,237	\$4,229	\$4,222	\$4,216	\$4,208	\$4,201	\$51,140

Note> Consistent with the Stipulation & Settlement Agreement in Order No. PSC-2013-0598-FOF-EI these assets were not projected to be in-service as of year end 2013 and accordingly were not moved to base rates in 2014.  
 (A) The allowable return is per the methodology approved in Order No. PSC-2012-0425-PAA-EU.

1 BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

2 DIRECT TESTIMONY OF

3 TIMOTHY HILL

4 ON BEHALF OF

5 DUKE ENERGY FLORIDA, LLC

6 DOCKET NO. 20180007-EI

7 July 25, 2018

8

9 **Q. Please state your name and business address.**

10 A. My name is Timothy Hill. My business address is 400 South Tryon Street, Charlotte, NC  
11 28202.

12

13 **Q. By whom are you employed?**

14 A. I am employed by Duke Energy Corporation (“Duke Energy”) as Regional General Manager for  
15 the Coal Combustion Products (“CCP”) Group - Operations & Maintenance. Duke Energy  
16 Florida, LLC (“DEF” or the “Company”) is a fully owned subsidiary of Duke Energy.

17

18 **Q. Have you previously filed testimony before this Commission in Docket No. 20180007-  
19 EI?**

20 A. Yes, I provided direct testimony on April 2, 2018.

21

22 **Q. Has your job description, education, background and professional experience changed  
23 since that time?**

24 A. No.

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**Q. What is the purpose of your testimony?**

A. The purpose of my testimony is to explain material variances between 2018 actual/estimated cost projections and original 2018 cost projections for environmental compliance costs associated with DEF’s Coal Combustion Residual (“CCR”) Rule compliance project.

**Q. Please explain the variance between actual/estimated project expenditures and original projections for CCR (Project 18) O&M for the period January 2018 through December 2018.**

A. O&M expenditures for CCR are expected to be \$544,661 or 155% higher than projected. This is primarily due to the escalation of approximately \$565k for flue gas desulfurization (“FGD”) dewatering and solids removal, and \$109k for groundwater studies into 2018. The FGD dewatering and solids removal support the closure of the FGD blowdown pond, as required under the CCR Rule and the Third Amendment to Consent Order OGC No. 09-3463D. The dewatering and solids removal costs were originally expected to be incurred in 2019 but have been moved into 2018 to help ensure the compliance date requirement is met. The groundwater studies cost is due to the groundwater assessment, which is being undertaken pursuant to the CCR Rule requirements. These were slightly offset by decreases in vegetation management expense during the first half of the year due to dryer than normal conditions.

**Q. Does this conclude your testimony?**

A. Yes.

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BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION  
DIRECT TESTIMONY OF  
JEFFREY SWARTZ  
ON BEHALF OF  
DUKE ENERGY FLORIDA, LLC  
DOCKET NO. 20180007-EI  
July 25, 2018

**Q. Please state your name and business address.**

A. My name is Jeffrey Swartz. My business address is 299 First Avenue North, St. Petersburg, FL 33701.

**Q. Have you previously filed testimony before this Commission in Docket No. 20180007-EI?**

A. Yes, I provided direct testimony on April 2, 2018.

**Q. Has your job description, education, background and professional experience changed since that time?**

A. No.

**Q. What is the purpose of your testimony?**

A. The purpose of my testimony is to explain material variances between 2018 actual/estimated cost projections and original 2018 cost projections for environmental compliance costs associated with FPSC-approved environmental

1 programs under my responsibility. These programs include the CAIR/CAMR  
2 Crystal River (“CR”) Program (Project 7.4) and Mercury & Air Toxics  
3 Standards (MATS) – Crystal River 1&2 Program (Project 17.2).

4  
5 **Q. How do actual/estimated O&M project expenditures compare with original**  
6 **projections for the CAIR/CAMR CR Program (Project 7.4) for the period**  
7 **January 2018 through December 2018?**

8 A. O&M expenditures are expected to be \$402,659 or 1% higher than originally  
9 projected primarily due to modifications of the hydrated lime system, which was  
10 partially offset by decreases in Limestone and Gypsum expenses.

11  
12 **Q. Please provide an update on the CAIR/CAMR CR Conditions of**  
13 **Certification Program (Project 7.4q).**

14 A. CR4&5 coal-fired units generate blowdown wastewater that is discharged to a  
15 series of lined ponds for equalization and settling, then further discharged to  
16 unlined percolation ponds. In the Conditions of Certification dated August 1,  
17 2012, the Florida Department of Environmental Protection (“FDEP”) required  
18 DEF to evaluate an alternative disposal method based on results of groundwater  
19 monitoring near the percolation ponds. As explained in my August 31, 2015  
20 testimony filed in Docket 20150007-EI, DEF has evaluated several treatment  
21 options to comply with the FDEP permit requirements and selected a strategy  
22 that uses a physical/chemical treatment system with a bioreactor treatment  
23 system to treat Flue Gas Desulfurization (“FGD”) blowdown wastewater with

1 discharge to surface water or percolation ponds. DEF expects this project to be  
2 placed in-service in or before February 2019.

3  
4 DEF estimates 2018 capital costs of \$45,000,558 for the CR4 & 5 FGD  
5 Blowdown wastewater project. These costs are for Mechanical-Electrical  
6 construction, including buildings and site work, remaining equipment  
7 procurement, remaining underground construction, start-up/commissioning, and  
8 construction oversight.

9  
10 The 2018 estimate is approximately \$3.4M or 8% higher than originally  
11 projected, and is primarily due to the grouting work and associated labor and  
12 equipment. The grouting was required due to extremely wet conditions  
13 exceeding the de-watering efforts at the site. There was an increased risk that  
14 further de-watering efforts, consisting of pumping water from the site, could  
15 result in the formation of sinkholes.

16  
17 The total estimated FGD Blowdown wastewater project cost is \$79.2M. This is  
18 an updated estimate from my September 1, 2016 testimony. The increase in the  
19 estimate is primarily driven by approximately \$7.6M in additional work  
20 associated with surface conditions at the project site that were unknown at the  
21 time of the last estimate; these include sump grouting for foundation excavation  
22 work, deep foundation piling delays due to sinkholes and foundation work  
23 delays due to sinkholes. DEF also incurred additional equipment and

1            engineering costs compared to the earlier projection of approximately \$1.7M, as  
2            well as approximately \$1.6M in weather-related work stoppages.

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4    **Q.    Does this conclude your testimony?**

5    A.    Yes.



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BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION  
DIRECT TESTIMONY OF  
PATRICIA Q. WEST  
ON BEHALF OF  
DUKE ENERGY FLORIDA, LLC  
DOCKET NO. 20180007-EI  
July 25, 2018

**Q. Please state your name and business address.**

A. My name is Patricia Q. West. My business address is 299 First Avenue North,  
St. Petersburg, FL 33701.

**Q. Have you previously filed testimony before this Commission in Docket No. 20180007-EI?**

A. Yes, I provided direct testimony on April 2, 2018.

**Q. Has your job description, education, background and professional experience changed since that time?**

A. No.

**Q. What is the purpose of your testimony?**

A. The purpose of my testimony is to explain material variances between 2018 actual/estimated cost projections and original 2018 cost projections for environmental compliance costs associated with FPSC-approved programs

1 under my responsibility. These programs include the Substation Environmental  
2 Investigation, Remediation and Pollution Prevention Program (Project 1 & 1a),  
3 Distribution System Environmental Investigation, Remediation and Pollution  
4 Prevention Program (Project 2), Pipeline Integrity Management (PIM) (Project  
5 3), Above Ground Secondary Containment (Project 4), Phase II Cooling Water  
6 Intake – 316(b) (Project 6), CAIR/CAMR - Peaking (Project 7.2), Best  
7 Available Retrofit Technology (BART) (Project 7.5), Arsenic Groundwater  
8 Standard (Project 8), Sea Turtle Coastal Street Lighting Program (Project 9),  
9 Underground Storage Tanks (Project 10), Modular Cooling Towers (Project 11),  
10 Thermal Discharge Permanent Cooling Tower (Project 11.1), Greenhouse Gas  
11 Inventory and Reporting (Project 12), Mercury Total Daily Maximum Loads  
12 Monitoring (Project 13), Hazardous Air Pollutants Information Collection  
13 Request (ICR) Program (Project 14), Effluent Limitation Guidelines Program  
14 (Project 15.1), National Pollutant Discharge Elimination System (NPDES)  
15 (Project 16) and Mercury and Air Toxics Standards (MATS) – Crystal River  
16 (CR) 4&5 (Project 17) for the period January 2017 through December 2017.

17

18 **Q. Please explain the variance between actual/estimated project expenditures**  
19 **and original projections for Substation Environmental Investigation,**  
20 **Remediation and Pollution Prevention Program (Projects 1 & 1a) for the**  
21 **period January 2018 through December 2018.**

22 A. O&M expenditures for the substation system program are estimated to be  
23 \$173,511 or 25% higher than originally projected. Project 1, Transmission  
24 Substation Remediation, is forecasted to be \$87k, or 22% higher than originally

1 projected. The variance is primarily due to higher than anticipated remediation  
2 costs at Central Florida Substation than initially projected. Project 1a,  
3 Distribution Substation Remediation, is forecasted to be \$86k, or 30% higher  
4 than originally projected. The variance is primarily attributable to remediation  
5 work at the Kenneth City Substation coming in higher than originally estimated  
6 due to more contaminated soil excavated once the breaker/control house was  
7 removed. The work at this site is complete and the remediation report is being  
8 prepared to be sent to the Florida Department of Environmental Protection  
9 (“FDEP”) for review.

10

11 **Q. Please explain the variance between actual/estimated project expenditures**  
12 **and original projections for Distribution System Environmental**  
13 **Investigation, Remediation and Pollution Prevention Program (Project 2)**  
14 **for the period January 2018 through December 2018.**

15 A. O&M expenditures for the distribution system program are estimated to be  
16 \$7,000 or 47% lower than originally forecasted. DEF has been conducting  
17 groundwater quality monitoring at the 7100 Sunset Way, St. Petersburg Beach  
18 location. All events have been showing as clean, so no remediation has yet been  
19 required for 2018. This is the final location being remediated and monitored  
20 under this program.

21

22 **Q. Please explain the variance between actual/estimated Capital project**  
23 **expenditures and original projections for Phase II Cooling Water Intake**  
24 **316(b) (Project 6) for the period January 2018 through December 2018.**

1 A. Capital expenditures for Phase II Cooling Water Intake 316(b) are expected to  
2 be \$1,070,592 or 63% lower than forecasted. This is primarily due to delays  
3 associated with ongoing discussions with the FDEP and Florida Fish and  
4 Wildlife Conservation Commission, and also construction work at the Citrus  
5 Combined Cycle project, which provides the source water for this project. This  
6 is not expected to impact the 2020 in-service date or the original estimate.

7  
8 **Q. Please explain the variance between actual/estimated project expenditures  
9 and original projections for the Arsenic Groundwater Standard (Project 8)  
10 for the period January 2018 through December 2018.**

11 A. O&M expenditures for the Arsenic Groundwater Standard are expected to be  
12 \$20,228 or 13% higher than forecasted. This is primarily due to the need to  
13 perform additional hydrological evaluation of monitoring well #32 to determine  
14 cause of elevated arsenic levels.

15  
16 **Q. Please explain the variance between actual/estimated project expenditures  
17 and original projections for Sea Turtle – Coastal Street Lighting (Project 9)  
18 for the period January 2018 through December 2018.**

19 A. O&M expenditures for Sea Turtle – Coastal Street Lighting are expected to be  
20 \$250 or 71% higher than forecasted. Capital is expected to be \$200 or 50%  
21 higher than forecasted. Sea turtle season started May 1, 2018, and recently DEF  
22 was notified of possible street light issues in Clearwater, FL which may require  
23 amber lens installations and/or new lighting.

24

1 **Q. Please explain the variance between actual/estimated project expenditures**  
2 **and original projections for the Effluent Limitation Guidelines CRN**  
3 **(Project 15.1) for the period January 2018 through December 2018.**

4 A. Capital expenditures are forecasted to be \$911,372 or 100% higher than  
5 originally forecasted. O&M expenditures are forecasted to be \$40k. No capital  
6 or O&M expenditures were originally projected for 2018, as this project was  
7 placed on hold due to the September 18, 2017 EPA issuance of a final rule that  
8 deferred the compliance deadline of Flue Gas Desulfurization (“FGD”)  
9 wastewater and bottom ash transport water (“BATW”) for two years, as soon as  
10 November 1, 2020, but no later than December 31, 2023.

11  
12 **Q. Please explain the variance between actual/estimated project expenditures**  
13 **and original projections for MATS CR4&5 (Project 17) for the period**  
14 **January 2018 through December 2018.**

15 A. O&M expenditures for MATS CR 4&5 are expected to be \$139,539 or 23%  
16 lower than forecasted. This is primarily due to lower than planned mercury re-  
17 emission chemical usage, and burner inspections that were less than originally  
18 projected.

19  
20 **Q. Please provide an update on Effluent Limitation Guidelines (“ELG”) and**  
21 **DEF’s Effluent Limitation Guidelines Program (Project 15.1).**

22 A. On November 23, 2015, EPA published the final revision to the ELG  
23 establishing technology-based national standards for effluent waste streams.  
24 The rule went into effect on January 4, 2016 and applies to all steam electric

1 generating stations. The new limits must be incorporated into affected stations'  
2 NPDES permits with a compliance timeframe between November 1, 2018 and  
3 December 31, 2023. On September 18, 2017, EPA issued a final rule  
4 postponing the compliance deadline of FGD wastewater and bottom ash  
5 transport water for two years, between November 1, 2020 and December 31,  
6 2023. ELG requirements for BATW are presently under administrative review  
7 by EPA, and final guidance is expected by the end of 2018. DEF is working  
8 with FDEP to address these requirements in the Crystal River Units 4 and 5  
9 NPDES permit that is now in the renewal process.

10  
11 DEF's compliance plan will be implemented in a two-phase approach to  
12 eliminate discharge of BATW to surface waters by June 30, 2019. The first  
13 phase of the plan will address requirements that are common between the  
14 renewed NPDES permit and the ELG: directing blowdown of BATW for reuse  
15 in the Crystal River Units 4 and 5 FGD scrubber; directing blowdown of BATW  
16 to the permitting percolation pond as a secondary discharge location; and,  
17 replacing wet pump seals with dry pump seals to minimize the amount of water  
18 introduced into the bottom ash handling system. These activities are consistent  
19 with the ELG project scope of work approved by the Commission in Order No.  
20 PSC-2013-0606-FOF-EI in Docket 20130007.

21  
22 Plans for the second phase of the ELG compliance plan will be finalized and  
23 implemented once the EPA issues its final guidance. The second phase of the  
24 plan will include longer-term compliance strategies to allow for normal

1 maintenance activities and water balance management. The specific schedule  
2 for completing this work will be dependent upon the final guidance issued by  
3 EPA, but is currently expected to be completed by December 31, 2023.

4

5 **Q. Please provide an update of 316(b) regulations.**

6 A. The 316(b) rule became effective October 15, 2014, to minimize impingement  
7 and entrainment of fish and aquatic life drawn into cooling systems at power  
8 plants and factories. There are seven impingement options. Entrainment  
9 compliance is site specific (mesh screen or closed-cycle cooling). Litigation of  
10 the 316(b) rule continues.

11 The regulation primarily applies to facilities that commenced construction on or  
12 before January 17, 2002, and to new units at existing facilities that are built to  
13 increase the generating capacity of the facility. All facilities that withdraw  
14 greater than 2 million gallons per day from waters of the U.S. and where twenty-  
15 five percent (25%) of the withdrawn water is used for cooling purposes are  
16 subject to the regulation.

17 Per the final rule, required 316(b) studies and information submittals will be tied  
18 to NPDES permit renewals. For permits that expire within 45 months of the  
19 effective date of the final rule, certain information must be submitted with the  
20 renewal application. Other information, including field study results, will be  
21 required to be submitted pursuant to a schedule included in the re-issued NPDES  
22 permit. Both the Anclote and Bartow stations are within this schedule and the  
23 required information is being prepared for submittal with the renewal  
24 applications due July 2020 and August 2020, respectively. Certain 316(b)

1 requirements are being evaluated for Crystal River Units 4 and 5 as part of the  
2 current permit renewal.

3 For NPDES permits that expire more than 45 months from the effective date of  
4 the rule, all information, including study results, is required to be submitted as  
5 part of the renewal application.

6

7 **Q. Please provide an update on Carbon Regulations.**

8 A. For existing Units, On October 23, 2015, EPA published the final New Source  
9 Performance Standards (“NSPS”) for CO2 emissions from existing fossil fuel-  
10 fired electric generating units (also known as the “Clean Power Plan” or “CPP”).  
11 The final CPP established state-specific emission goals; for Florida, the goals  
12 included a phased approach beginning in 2022, ending with a rate goal of 919 lb.  
13 CO2/MWh annual average for the period 2030 and beyond. Alternatively, the  
14 state could adopt a mass emissions approach culminating in a 2030 target of  
15 105,094,704 tons (existing units) or 106,641,595 tons (existing plus new units).  
16 The final CPP was challenged by 27 states and a number of industry groups,  
17 with oral arguments held before the D.C. Circuit Court of Appeals on September  
18 27, 2016. In addition, on February 9, 2016, the U.S. Supreme Court placed a  
19 stay on the CPP until all litigation is completed.

20 Also, on October 23, 2015, EPA published the final NSPS for CO2 emissions  
21 for new, modified, and reconstructed fossil fuel-fired EGUs. The rule includes  
22 emission limits of 1,400 lb. CO2/MWh for new coal-fired units and 1,000 lb.  
23 CO2/MWh for new natural gas combined-cycle units. This rule has also been  
24 challenged and is currently on appeal to the D.C. Circuit Court of Appeals.



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On March 28, 2017, President Trump signed an Executive Order (“EO”) entitled “Promoting Energy Independence and Economic Growth.” The EO directs federal agencies to “immediately review existing regulations that potentially burden the development or use of domestically produced energy resources and appropriately suspend, revise, or rescind those that unduly burden the development of domestic energy resources.” The EO specifically directs the EPA to review the following rules and determine whether to suspend, revise, or rescind those rules:

- The final CO2 emission standards for existing power plants (CPP);
- The final CO2 emission standards for new power plants (CO2 NSPS);
- The proposed Federal Plan and Model Trading Rules that accompanied the CPP.

In response to the EO, the Department of Justice filed motions with the D.C. Circuit Court to stay the litigation of both the CPP and the CO2 NSPS rules while each is reviewed by EPA. As a result, the D.C. Circuit has granted a number of 60-day extensions holding the CPP litigation in abeyance. The most recent extension was issued on June 26, 2018. Neither the EO nor the abeyance change the current status of the CPP which is under a legal hold by the U.S. Supreme Court. With regard to the CO2 NSPS, that rule will remain in effect pending the outcome of EPA’s review.

On June 29, 2017, the U.S. Department of Justice provided a status report on EPA’s regulatory review of the CPP to the D.C. Circuit. In the report, DOJ requested that the litigation remain in abeyance pending the conclusion of

1 EPA’s anticipated rulemaking. Based on the most recent extension by the court,  
2 the litigation is expected to remain in abeyance or be dismissed by the court and  
3 remanded back to EPA.

4 DEF does not expect to incur ECRC costs in 2018 related to carbon regulations.  
5

6 **Q. Please provide an update on the Coal Combustion Residual (CCR) Rule.**

7 A. The CCR rule was published in the Federal Register on April 17, 2015, and  
8 became effective on October 17, 2015. The rule has specific compliance  
9 impacts on the ash landfill, gypsum storage pad and FGD lined blowdown ponds  
10 at the Crystal River site. On March 1, 2018 EPA proposed amendments to the  
11 April 17, 2015 final rule. The proposal addresses four provisions in the final  
12 rule that were remanded back to EPA on June 14, 2016 by the U.S. Court of  
13 Appeals for the D.C. Circuit. DEF’s planned 2018 compliance activities and  
14 their associated cost projections are provided by Mr. Timothy Hill.

15  
16 **Q. Please provide an update on the Mercury and Air Toxics Standards  
17 (MATS) Rule.**

18 A. On June 29, 2015, the U. S. Supreme Court ruled that it was unreasonable for  
19 EPA to refuse to consider costs in determining that regulation of electric  
20 generating units was “appropriate and necessary” under Clean Air Act section  
21 112. The Court remanded the case back to the D.C. Circuit Court of Appeals for  
22 further proceedings consistent with its opinion. In turn, on December 15, 2015  
23 the D.C. Circuit Court of Appeals remanded the MATS rule to EPA without  
24 vacatur. On April 15, 2016 EPA issued the final “Supplemental Findings that it

1 is Appropriate and Necessary to Regulate Hazardous Air Pollutants from Coal-  
2 and Oil-Fired Electric Utility Steam Generating Units.” Petitions have been  
3 filed with the D.C. Circuit Court challenging EPA’s findings. These legal  
4 actions are currently being held in abeyance pending further EPA review of the  
5 rule. In the interim, the MATS rule will remain in effect pending any additional  
6 action by the D.C. Circuit.

7  
8 **Q. Please provide an update on the National Ambient Air Quality Standards**  
9 **(NAAQS).**

10 A. The EPA set new 1-hour health-based NO<sub>2</sub> and SO<sub>2</sub> standards in 2010. In mid-  
11 2013, the EPA finalized SO<sub>2</sub> non-attainment designations for two small areas in  
12 Florida outside DEF’s service territory. The EPA deferred making any other  
13 designations until late 2017. On August 21, 2015, the EPA published a final  
14 “data requirements” rule that establishes requirements for additional ambient air  
15 quality monitoring and/or modeling that will be used for future area  
16 designations. FDEP modeled the area surrounding the Crystal River facility and  
17 determined that future operation will not cause a nonattainment issue. This  
18 finding was provided to EPA on January 13, 2017, as part of the FDEP’s Data  
19 Requirements Rule package submittal. On July 3, 2017, EPA published a final  
20 rule approving attainment plans for the two non-attainment areas outside of  
21 DEF’s service territory. In December 2017, EPA issued a final ruling for the  
22 area around the DEF’s Crystal River station designating that area as  
23 unclassifiable, pending final certification of complete 2017 monitoring data.  
24 Based on the final 2017 data, EPA changed the designation to attainment in

1 early 2018. Currently the entire DEF service area is in compliance with the SO<sub>2</sub>  
2 standard.

3

4 On October 26, 2015, the EPA published a revised ozone NAAQS, making the  
5 standard more stringent by changing it from 75 parts per billion (ppb) to 70 ppb.  
6 Currently the entire state of Florida is in compliance with this new standard.

7

8 **Q. Please provide an update on the Waters of the United States (WOTUS)**  
9 **Rule.**

10 A. On June 29, 2015, the EPA and the Army Corps of Engineers (“Corps”)  
11 published the final Clean Water Rule that significantly expands the definition of  
12 the Waters of the United States (“WOTUS”). On October 9, 2015, the U.S.  
13 Court of Appeals for the Sixth Circuit granted a nationwide stay of the rule  
14 effective through the conclusion of the judicial review process. On February 22,  
15 2016, the court issued an opinion that it has jurisdiction and is the appropriate  
16 venue to hear the merits of legal challenges to the rule; however, that decision  
17 was contested, and on January 13, 2017 the U.S. Supreme Court decided to  
18 review the jurisdictional question. Oral arguments in the U.S. Supreme Court  
19 were conducted in October 2017. On January 22, 2018 the U.S. Supreme Court  
20 issued its decision stating federal courts, rather than federal appellate courts,  
21 have jurisdiction over challenges to the rule defining waters of the United States.  
22 Consistent with the U.S. Supreme Court decision, the U.S. Court of Appeals for  
23 the Sixth Circuit lifted its nationwide stay on February 28, 2018. The stay  
24 issued by the North Dakota District Court remains in effect, but only within the

1 thirteen states within the North Dakota District. On June 8, 2018, the Southern  
2 District Georgia Court entered a Preliminary Injunction enjoining  
3 implementation of the WOTUS rule in eleven states including Florida.

4

5 On June 27, 2017, the EPA and the Corps published a proposed rule to repeal  
6 the 2015 WOTUS rule and re-codify the definition of WOTUS which is  
7 currently in place. On January 31, 2018 the EPA and Corps announced a final  
8 rule adding an applicability date to the 2015 rule, thereby deferring  
9 implementation to early 2020. This rule has no immediate impact to Duke  
10 Energy, and the agencies will continue to apply the pre-existing WOTUS  
11 definition that was in place prior to 2015 rule until 2020.

12

13 **Q. Does this conclude your testimony?**

14 A. Yes.