



**Matthew R. Bernier**  
ASSISTANT GENERAL COUNSEL  
Duke Energy Florida, LLC

May 1, 2018

**VIA ELECTRONIC DELIVERY**

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

Re: *Nuclear Cost Recovery Clause; Docket No. 20180009-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 nuclear costs to be recovered during the period January-December 2019;
- Direct Testimony of Thomas G. Foster with attached redacted Exhibit No. \_\_\_\_ (TGF-2);

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

MRB/cm  
Enclosures

**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

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In re: Nuclear Cost Recovery  
Clause

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Docket No. 20180009-EI  
Submitted for Filing: May 1, 2018

**DUKE ENERGY FLORIDA, LLC'S PETITION FOR APPROVAL  
OF NUCLEAR COSTS TO BE RECOVERED DURING  
THE PERIOD JANUARY-DECEMBER 2019**

Pursuant to Section 366.93(6), Florida Statutes, Rule 25-6.0423(7), Florida Administrative Code ("F.A.C."), the Revised and Restated Stipulation and Settlement Agreement ("2013 Settlement Agreement") approved by the Commission in Order No. PSC-2013-0598-FOF-EI,<sup>1</sup> and the 2017 Second Revised and Restated Settlement Agreement ("2017 Settlement Agreement") approved by the Commission in Order No. PSC-2017-0451-AS-EU,<sup>2</sup> Duke Energy Florida, LLC ("DEF" or the "Company") respectfully petitions the Florida Public Service Commission ("FPSC" or the "Commission") for recovery of DEF's costs for the Crystal River Unit 3 ("CR3") Extended Power Uprate ("EPU") Project.

DEF is seeking to recover \$43,858,854 for the EPU through the Capacity Cost Recovery Clause ("CCRC") during the period January through December 2019. This total amount includes (1) exit and wind-down costs, (2) the amortization of prior period costs, and (3) associated carrying costs on the unrecovered balance.

DEF requests a determination that all of DEF's 2017 EPU project costs are prudent and that DEF's actual/estimated 2018 and projected 2019 costs for the project are reasonable, consistent with Section 366.93, Florida Statutes, and Rule 25-6.0423, F.A.C. DEF supported the prudence of its prior period EPU costs with its petition, testimony, exhibits, and financial

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<sup>1</sup> Docket No. 20130208-EI.

<sup>2</sup> Docket No. 20170183-EI.

schedules filed with the Commission on March 1, 2018. DEF's EPU actual/estimated 2018 and projected 2019 costs are supported by the attached testimony and exhibits of DEF's witness Mr. Thomas G. Foster.

The 2017 Settlement Agreement comprehensively resolved all remaining issues regarding the Levy Nuclear Project and therefore DEF is no longer seeking recovery of costs related to this project.

## **I. PRELIMINARY INFORMATION.**

The Petitioner's name and address are:

Duke Energy Florida, LLC  
299 1st Avenue North  
St. Petersburg, Florida 33701

Any pleading, motion, notice, order, or other document required to be served upon DEF or filed by any party to this proceeding should be served upon the following individuals:

Dianne M. Triplett  
[dianne.triplett@duke-energy.com](mailto:dianne.triplett@duke-energy.com)  
**Duke Energy Florida, LLC**  
P.O. Box 14042  
St. Petersburg, Florida 33733  
(727) 820-4692

Matthew R. Bernier  
[matthew.bernier@duke-energy.com](mailto:matthew.bernier@duke-energy.com)  
**Duke Energy Florida, LLC**  
106 E. College Ave., Ste. 800  
Tallahassee, Florida 32301  
(850) 521-1428

## **II. PRIMARILY AFFECTED UTILITY.**

DEF is the utility primarily affected by the proposed request for cost recovery. DEF is an investor-owned electric utility, regulated by the Commission pursuant to Chapter 366, Florida

Statutes, and is a wholly owned subsidiary of Duke Energy Corporation. The Company's principal place of business is located at 299 1st Ave. N., St. Petersburg, Florida 33701.

DEF serves approximately 1.8 million retail customers in Florida. Its service area comprises approximately 20,000 square miles in 35 of the state's 67 counties, including the densely populated areas of Pinellas and western Pasco Counties, the greater Orlando area in Orange, Osceola, and Seminole Counties, and 16 counties in northwest Florida. DEF supplies electricity at retail to approximately 350 communities and at wholesale to Florida municipalities, utilities, and power agencies in the State of Florida.

### **III. DEF REQUESTS COST RECOVERY FOR THE EPU PROJECT AS PROVIDED IN SECTION 366.93(6), FLA. STAT., AND RULE 25-6.0423(7), F.A.C.**

On February 5, 2013, Duke Energy announced its decision to retire and decommission the CR3 nuclear power plant. As a result of this decision, the CR3 EPU project was cancelled. In 2015, DEF completed disposition of EPU-related assets using a step-wise approach under its investment recovery policies and procedures to obtain the maximum value for DEF's customers. The last stage for the EPU project close-out was the final disposition of EPU-related assets and materials and implementation of a plan for the remaining EPU assets that have not been sold or salvaged. The CR3 Investment Recovery Project ("IRP") was closed out on April 30, 2015 once all EPU related assets were finally disposed of and removed from the plant or abandoned in-place. Because the project has now been closed out there are no project management-related activities to report and therefore DEF has presented no testimony to discuss 2018 or 2019 project management-related activities.

Accordingly, to-date DEF has incurred no 2018 EPU project management-related costs and there are no such costs projected for the remainder of 2018 or 2019. However, pursuant to paragraph 9a of the 2013 Settlement Agreement, and paragraph 9 of the 2017 Settlement Agreement, DEF is permitted to recover the CR3 EPU project revenue requirements over a

seven-year amortization recovery period (2013-2019). DEF will also incur costs associated with the EPU project related to accounting in 2018. These costs are presented in Mr. Foster's testimony and exhibits.

DEF requests that the Commission determine that its 2018 actual/estimated and 2019 projected costs are reasonable and that DEF is entitled to recover EPU project wind-down and exit costs pursuant to the NCRC statute and rule.

Pursuant to Rule 25-6.0423(7), F.A.C., DEF requests that the Commission approve for recovery the amount of \$43,858,854 through the Capacity Cost Recovery Clause ("CCRC") during the period January through December 2019 for the EPU project.

#### **IV. DISPUTED ISSUES OF MATERIAL FACT.**

DEF is not aware at this time that there will be any disputed issues of material fact in this proceeding. Through its testimony and exhibits, incorporated herein by reference, DEF has demonstrated the prudence of its prior period actual costs and the reasonableness of its 2018 and 2019 costs associated with the EPU project. Accordingly, the recovery DEF requests is appropriate and warranted under Section 366.93(6), Florida Statutes, and Rule 25-6.0423(7), F.A.C.

#### **V. CONCLUSION.**

WHEREFORE, for all of the reasons provided in this Petition, as developed more fully in DEF's pre-filed testimony, exhibits, and schedules, DEF requests that the Commission find that:

(1) DEF is entitled to recover \$43,858,854 for DEF's CR3 EPU project through the CCRC during the period January through December 2019. These amounts are made up of EPU project (a) exit and wind-down costs, (b) amortization of prior period costs, and (c) associated carrying costs on the unrecovered balance;

(2) DEF's actual/estimated 2018 and projected 2019 costs for the EPU project are reasonable.

Respectfully submitted this 1<sup>st</sup> day of May, 2018.

*/s/ Matthew R. Bernier*

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DIANNE M. TRIPLETT  
Deputy General Counsel  
Duke Energy Florida, LLC  
299 First Avenue North  
St. Petersburg, FL 33701  
Telephone: (727) 820-4692

**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 1<sup>st</sup> day of May, 2018.

*/s/ Matthew R. Bernier*

Attorney

<p>Kyesha Mapp Office of the General Counsel Florida Public Service Commission 2540 Shumard Oak Blvd. Tallahassee, FL 32399-0850 <a href="mailto:kmapp@psc.state.fl.us">kmapp@psc.state.fl.us</a></p> <p>James W. Brew / Laura A. Wynn Stone Law Firm 1025 Thomas Jefferson Street, N.W. Eighth Floor, West Tower Washington, DC 20007 <a href="mailto:jbrew@smxblaw.com">jbrew@smxblaw.com</a> <a href="mailto:law@smxblaw.com">law@smxblaw.com</a></p> <p>George Cavros 120 E. Oakland Park Blvd., Ste. 105 Fort Lauderdale, FL 33334 <a href="mailto:george@cavros-law.com">george@cavros-law.com</a></p>	<p>J.R. Kelly / Charles J. Rehwinkel / Patricia Christensen / Erik Saylor Office of Public Counsel c/o The Florida Legislature 111 West Madison Street, Room 812 Tallahassee, FL 32399-1400 <a href="mailto:kelly.jr@leg.state.fl.us">kelly.jr@leg.state.fl.us</a> <a href="mailto:rehwinkel.charles@leg.state.fl.us">rehwinkel.charles@leg.state.fl.us</a> <a href="mailto:christensen.patty@leg.state.fl.us">christensen.patty@leg.state.fl.us</a> <a href="mailto:saylor.erik@leg.state.fl.us">saylor.erik@leg.state.fl.us</a></p> <p>Jon C. Moyle, Jr. Moyle Law Firm, P.A. 118 North Gadsden Street Tallahassee, FL 32301 <a href="mailto:jmoyle@moylelaw.com">jmoyle@moylelaw.com</a></p>
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**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

**In re: Nuclear Cost Recovery  
Clause**

**DOCKET NO. 20180009-EI**

Submitted for filing:  
May 1, 2018

**DIRECT TESTIMONY OF THOMAS G. FOSTER  
IN SUPPORT OF REVENUE REQUIREMENTS TO BE RECOVERED DURING  
THE PERIOD JANUARY-DECEMBER 2019 FOR THE CRYSTAL RIVER 3 EPU  
PROJECT**

**ON BEHALF OF  
DUKE ENERGY FLORIDA, LLC.**

**IN RE: NUCLEAR COST RECOVERY CLAUSE**

**BY DUKE ENERGY FLORIDA, LLC.**

**FPSC DOCKET NO. 20180009-EI**

**DIRECT TESTIMONY OF THOMAS G. FOSTER  
IN SUPPORT OF REVENUE REQUIREMENTS TO BE RECOVERED DURING  
THE PERIOD JANUARY-DECEMBER 2019 FOR THE CRYSTAL RIVER 3 EPU  
PROJECT**

1 **I. INTRODUCTION AND QUALIFICATIONS.**

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

3 A. My name is Thomas G. Foster. My business address is 299 First Avenue  
4 North, St. Petersburg, FL 33701.

5  
6 **Q. By whom are you employed and in what capacity?**

7 A. I am employed by Duke Energy Florida, LLC, as Director, Rates and  
8 Regulatory Planning.

9  
10 **Q. Have your job responsibilities, educational background and**  
11 **professional experience remained the same since you last filed**  
12 **testimony before this Commission on March 1, 2018 in Docket No.**  
13 **20180009-EI?**

14 A. Yes.

15  
16 **II. PURPOSE OF TESTIMONY.**

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



1 A. The purpose of my testimony is to present, for Florida Public Service  
2 Commission (“FPSC” or the “Commission”) review, DEF’s expected 2018  
3 and 2019 costs associated with the CR3 Uprate project consistent with Rule  
4 25-6.0423(7), F.A.C., in support of setting 2019 rates in the Capacity Cost  
5 Recovery Clause (“CCRC”).

6  
7 **Q. Are you sponsoring any exhibits in support of your testimony?**

8 A. Yes. I am sponsoring sections of the following exhibits, which were  
9 prepared under my supervision:

- 10 • Exhibit No.\_\_(TGF-2), contains schedules showing the costs  
11 associated with the CR3 Uprate project.

12 These exhibits are true and accurate to the best of my knowledge and  
13 information.

14  
15 **Q. What are the 2018-2019 Detail Revenue Requirements Schedules and**  
16 **the Appendices?**

17 A.

- 18 • The 2018 Detail Schedule reflects the calculations for the total retail  
19 revenue requirements for the period.
- 20 • The 2019 Detail Schedule reflects the calculations for the total retail  
21 revenue requirements for the period.
- 22 • The 2019 Estimated Rate Impact Schedule reflects the estimated  
23 Capacity Cost Recovery Factors for 2019.

- 1 • Appendix A reflects beginning balance explanations and support for the
- 2 2018 and 2019 Regulatory Asset amortization amount.
- 3 • Appendix B reflects Other Wind Down/Exit Cost variance explanations for
- 4 the period.
- 5 • Appendix C provides support for the appropriate rate of return consistent
- 6 with the provisions of Rule 25-6.0423(7), F.A.C.
- 7 • Appendix D describes Major Task Categories for expenditures and
- 8 variance explanations for the period.
- 9 • Appendix E reflects contracts executed in excess of \$1.0 million.
- 10 • Appendix F reflects a summary of the 2013-2019 Uprate Amortization
- 11 Schedule for the Uncollected Investment Balance.

12

13 **III. CARRYING COST RATES AND SEPARATION FACTORS FOR THE CR3**

14 **UPRATE PROJECT.**

15 **Q. What is the carrying cost rate used in the 2018 and 2019 Revenue**

16 **Requirement Detail Schedules?**

17 A. For 2018, DEF is using the rate specified in Rule 25-6.0423(7)(b), F.A.C.

18 The carrying cost rate used for this time period is 6.68 percent. On a pre-

19 tax basis, the rate is 8.25 percent. This rate is based on DEF's December

20 2017 Earnings Surveillance Report. For 2019, the carrying cost rate used

21 for this time period is 6.43 percent. On a pre-tax basis, the rate is 7.87

22 percent. This rate is based on DEF's December 2017 Earnings

23 Surveillance Report after removing the specific adjustment to its common

24 equity balance and rate base working capital balance from the calculation in

1 compliance with paragraph 19 of the Settlement Agreement. These annual  
2 rates were also adjusted to a monthly rate consistent with the Allowance  
3 For Funds Used During Construction (“AFUDC”) rule, Rule 25-6.0141(3),  
4 F.A.C. Support for the components of this rate is shown in Appendix C of  
5 Exhibit No.\_\_(TGF-2).

6  
7 **Q. What was the source of the separation factors used in the 2018 and**  
8 **2019 Revenue Requirement Detail Schedules?**

9 A. The jurisdictional separation factors are consistent with Exhibit 1 of the  
10 2017 Settlement Agreement approved by the Commission in Order No.  
11 PSC-2017-0451-AS-EU in Docket No. 20170183-EI on November 20, 2017.

12  
13 **IV. COST RECOVERY FOR THE CRYSTAL RIVER 3 UPRATE PROJECT.**

14 **Q. What are you requesting with respect to the CR3 Uprate project?**

15 A. DEF requests that the Commission approve recovery of the CR3 Uprate  
16 project amounts consistent with 2017 Settlement approved in Order PSC-  
17 2017-0451-AS-EU, Section 366.93(6), Florida Statutes, and Rule 25-  
18 6.0423(7), F.A.C.. In support of this request, DEF has prepared Exhibit  
19 No.\_\_(TGF-2), which shows the unrecovered investment and expected  
20 future payments and exit costs through the end of 2019 for purposes of  
21 setting 2019 rates. DEF requests that the Commission approve the  
22 revenue requirements for 2019 to be placed into the CCRC of \$43.9 million  
23 as shown on 2019 Summary Schedule Line 8 of Exhibit No.\_\_(TGF-2).

1 **Q. What was the total unrecovered investment in the CR3 Uprate project**  
2 **as of year-end 2017?**

3 A. The total year-end 2017 unrecovered investment to be amortized is  
4 approximately \$86.8 million as shown on lines 3a – 3b beginning balance  
5 amount in the 2018 Detail Schedule of Exhibit No.\_\_(TGF-2). This net  
6 amount represents the unrecovered construction costs incurred that have  
7 not been placed in service. This amount does not include prior period  
8 over/under recoveries, prior period amortization, or period costs like wind-  
9 down/exit costs.

10  
11 **Q. How is DEF recovering this investment?**

12 A. DEF is continuing to recover this balance over the remaining two (2) year  
13 period from 2018-2019 as approved by the Commission in the 2013  
14 Settlement in Order PSC-13-0598-FOF-EI, Docket No. 130208-EI, which  
15 allowed DEF to recover the unrecovered balance over the 2013-2019  
16 period.

17  
18 **Q. What are the total estimated period revenue requirements for the CR3**  
19 **Uprate project for the calendar year ended December 2018?**

20 A. The total estimated period revenue requirements for the CR3 Uprate  
21 project, excluding amortization, is approximately \$5.2 million for the  
22 calendar year ended December 2018, as reflected on the 2018 Detail  
23 Schedule Line 19 of Exhibit No.\_\_(TGF-2). This amount includes  
24 approximately \$5.2 million for the carrying costs on the unrecovered

1 investment balance shown on Line 5d, and \$26,432 of current period wind-  
2 down costs shown on Line 16d. These amounts were calculated in  
3 accordance with the provisions of Rule 25-6.0423, F.A.C.

4  
5 **Q. What is the total estimated over or under recovery for the CR3 Uprate**  
6 **project for the calendar year ended December 2018?**

7 A. The total estimated over-recovery is \$933,647 as shown in Exhibit  
8 No.\_(TGF-2), of the 2018 Detail Schedule Line 21.

9  
10 **Q. What are the total estimated revenue requirements, exclusive of the**  
11 **revenue tax multiplier, for the CR3 Uprate project for the calendar year**  
12 **ended December 2019?**

13 A. As can be seen in Exhibit No.\_(TGF-2), the 2019 Summary Schedule Line  
14 6, the total estimated revenue requirements are approximately \$43.8  
15 million. This consists primarily of \$43.2 million associated with amortizing  
16 the unrecovered construction cost spend, \$1.6 million in period carrying  
17 costs and other exit and wind-down activities, and (\$1.0) million of prior  
18 period over-recoveries. These amounts are shown on Lines 1 through 5 of  
19 the 2019 Summary Schedule.

20  
21 **Q. Does the Company anticipate making an NCRC filing in 2019?**

22 A. No. The 2013 and 2017 Settlement Agreements provide for amortization of  
23 the unrecovered investment balance of the CR3 EPU through 2019 with  
24 any true-up balance at the end of 2019 being refunded/recovered through

1 the CCRC. As such, this is the last year in which the NCRC process will be  
2 used to set rates for the EPU, which will be collected in 2019. DEF will  
3 calculate the over- or under-recovery at the conclusion of 2019 and include  
4 that amount in its 2019 CCRC true-up filing which will be filed in early 2020.  
5

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

7 A. Yes.

**SCHEDULE APPENDIX**

**EXHIBIT (TGF-2)**

**DUKE ENERGY FLORIDA, LLC.  
CRYSTAL RIVER UNIT 3 UPRATE  
COMMISSION SCHEDULES**

**JANUARY 2018 - DECEMBER 2019  
DOCKET NO. 20180009-EI**

**Table of Contents**  
**Crystal River Unit 3 Uprate**  
**January 2018 - December 2019**

<u>Page(s)</u>	<u>Schedule</u>	<u>Description</u>	<u>Sponsor</u>
3	2019 Summary	2019 Revenue Requirement Summary	T. G. Foster
4	2018 Detail	2018 Detail Revenue Requirement Calculations	T. G. Foster
5	2019 Detail	2019 Detail Revenue Requirement Calculations	T. G. Foster
6	2019 Estimated Rate Impact	2019 Estimated Rate Impact	T. G. Foster
7	Appendix A	Detail for 2018 & 2019 Beginning Balance Support	T. G. Foster
8	Appendix B	Other Exit / Wind-Down Expense Variance Explanation	T. G. Foster
9	Appendix C	Average Rate of Return - Capital Structure	T. G. Foster
10 - 11	Appendix D	Major Task Categories and Expense Variances	T. G. Foster
12	Appendix E	Summary of Contracts and Details over \$1 Million	T. G. Foster
13	Appendix F	2013 - 2019 Unrecovered Investment Amortization Schedule	T. G. Foster



**CR3 Uprate  
2019 Summary  
Duke Energy Florida**

Witness: Thomas G. Foster  
Docket No. 20180009-EI  
Exhibit: (TGF- 2), page 3 of 13

(1)	Amortization of Unrecovered Balance	43,159,168	See 2019 Detail line 3d
(2)	Period Carrying Cost on Unrecovered Investment	1,614,997	See 2019 Detail line 5d
(3)	Period Exit Costs	-	See 2019 Detail line 3c
(4)	Period Other Exit / Wind-Down Costs incl. Interest	(229)	See 2019 Detail line 13d
(5)	Prior Period Over/Under Recoveries	<u>(946,639)</u>	See 2019 Detail lines: 3e and 10
(6)	Total 2019 Revenue Requirement	43,827,298	
(7)	Revenue Tax Multiplier	1.00072	
(8)	Total 2019 Projected Revenue Requirements	<u><u>43,858,854</u></u>	

**DUKE ENERGY FLORIDA**  
**Nuclear Cost Recovery Clause (NCRC) - CR3 Uprate**  
**2018 Detail - Calculation of the Revenue Requirements**  
**January 2018 through December 2018**

Witness: T.G. Foster  
Docket No. 20180009-EI  
Exhibit: (TGF- 2), page 4 of 13

Line	Description	Beginning of Period Amount	Actual January 2018	Actual February 2018	Actual March 2018	Estimated April 2018	Estimated May 2018	Estimated June 2018	Estimated July 2018	Estimated August 2018	Estimated September 2018	Estimated October 2018	Estimated November 2018	Estimated December 2018	Period Total
<b>1</b>	<b>Uncollected Investment</b>														
	a EPU Construction & Wind-Down Costs	377,363,162	0	0	0	0	0	0	0	0	0	0	0	0	\$0
	b Sale or Salvage of Assets	(3,029,358)	0	0	0	0	0	0	0	0	0	0	0	0	0
	c Disposition	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	d Total	374,333,804	0	0	0	0	0	0	0	0	0	0	0	0	\$0
<b>2</b>	<b>Adjustments</b>														
	a Non-Cash Accruals	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0
	b Joint Owner Credit	(29,982,869)	0	0	0	0	0	0	0	0	0	0	0	0	0
	c Other (b)	(28,108,647)	0	0	0	0	0	0	0	0	0	0	0	0	0
	d Adjusted System Generation Construction (	316,242,288	0	0	0	0	0	0	0	0	0	0	0	0	\$0
	Retail Jurisdictional Factor : Current Year Activity	92.885%													
	Retail Jurisdictional Factor: (Beg Bal YE 2012 & POD sale)	91.683%													
	e Exit / Wind-down Costs	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0
	f Beginning Balance - pre 2013 Investment	279,911,057	0	0	0	0	0	0	0	0	0	0	0	0	279,911,057
	g Beginning Balance - 2013 Investment	12,170,084	0	0	0	0	0	0	0	0	0	0	0	0	12,170,084
	h Collected 2014 - 2017 Portion of Regulatory Asset	(175,245,868)	0	0	0	0	0	0	0	0	0	0	0	0	(175,245,868)
	i Total Jurisdictional Unrecovered Investment	116,835,272	0	0	0	0	0	0	0	0	0	0	0	0	116,835,272
<b>3</b>	<b>Carrying Cost on Unrecovered Investment Balance</b>														
	a Uncollected Investment	116,835,272	0	0	0	0	0	0	0	0	0	0	0	0	116,835,272
	b Plant-in-Service	29,995,096	0	0	0	0	0	0	0	0	0	0	0	0	29,995,096
	c Period Recovered Wind-down / Exit Costs	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	d Amortization of Unrecovered Investment (a)	0	(3,640,084)	(3,640,084)	(3,640,084)	(3,640,084)	(3,640,084)	(3,640,084)	(3,640,084)	(3,640,084)	(3,640,084)	(3,640,084)	(3,640,084)	(43,681,007)	
	e Prior Period Carrying Charge Unrecovered Balance (a)	(158,129)	(145,013)	(131,896)	(118,780)	(105,664)	(92,548)	(79,432)	(66,316)	(53,200)	(40,084)	(26,968)	(13,851)	(735)	(735)
	f Prior Period Carrying Charge Recovered (a)	(157,393)	(13,116)	(13,116)	(13,116)	(13,116)	(13,116)	(13,116)	(13,116)	(13,116)	(13,116)	(13,116)	(13,116)	(13,116)	(13,116)
	g Prior Period Under/(Over) Recovery (Prior Month )			(96,310)	(92,837)	(89,340)	(85,821)	(82,279)	(78,711)	(75,121)	(71,509)	(67,868)	(64,206)	(60,519)	(921,329)
	h Net Investment	\$86,682,047	\$83,055,079	\$79,331,802	\$75,611,997	\$71,895,690	\$68,182,901	\$64,473,654	\$60,767,975	\$57,065,886	\$53,367,410	\$49,672,573	\$45,981,399	\$42,293,912	\$42,237,104
<b>4</b>	<b>Average Net Investment</b>		\$84,868,563	\$81,145,285	\$77,425,481	\$73,709,173	\$69,996,385	\$66,287,138	\$62,581,459	\$58,879,370	\$55,180,894	\$51,486,057	\$47,794,883	\$44,107,396	
<b>5</b>	<b>Return on Average Net Investment</b>														
	a Equity Component	0.00374	317,408	303,483	289,571	275,672	261,786	247,914	234,055	220,209	206,377	192,558	178,753	164,962	2,892,748
	b Equity Component Grossed Up For Taxes	1.33950	425,166	406,514	387,879	369,261	350,661	332,080	313,516	294,969	276,441	257,930	239,439	220,966	3,874,822
	c Debt Component	0.00167	141,384	135,182	128,985	122,794	116,609	110,429	104,256	98,088	91,927	85,772	79,623	73,479	1,288,528
	d Total Return		566,550	541,696	516,864	492,055	467,270	442,509	417,772	393,057	368,368	343,702	319,062	294,445	5,163,349
<b>6</b>	<b>Revenue Requirements for the Period (Lines 3a + 5d)</b>		566,550	541,696	516,864	492,055	467,270	442,509	417,772	393,057	368,368	343,702	319,062	294,445	5,163,350
<b>7</b>	<b>Projected Revenue Requirements for the Period (Order No. PSC 2017-0445-FOF-EI)</b>		662,860	634,533	606,203	577,876	549,549	521,220	492,892	464,566	436,236	407,909	379,581	351,253	6,084,679
<b>8</b>	<b>Over/Under Recovery For the Period</b>		(\$96,310)	(\$92,837)	(\$89,340)	(\$85,821)	(\$82,279)	(\$78,711)	(\$75,121)	(\$71,509)	(\$67,868)	(\$64,206)	(\$60,519)	(\$56,808)	(\$921,329)
<b>9</b>	<b>Other Exit / Wind-Down</b>														
	a Accounting		2,108	2,237	2,785	2,720	2,720	2,720	2,720	2,720	2,720	2,720	2,720	2,720	31,612
	b Corporate Planning		0	0	0	0	0	0	0	0	0	0	0	0	0
	c Legal		0	0	0	0	0	0	0	0	0	0	0	0	0
	d Joint Owner Credit		(173)	(184)	(229)	(224)	(224)	(224)	(224)	(224)	(224)	(224)	(224)	(224)	(2,598)
	e Total Other Exit / Wind-Down Costs		1,935	2,054	2,557	2,496	2,496	2,496	2,496	2,496	2,496	2,496	2,496	2,496	29,014
<b>10</b>	<b>Jurisdictional Factor (A&amp;G)</b>		0.93221	0.93221	0.93221	0.93221	0.93221	0.93221	0.93221	0.93221	0.93221	0.93221	0.93221	0.93221	
<b>11</b>	<b>Jurisdictional Amount</b>		1,804	1,914	2,383	2,327	2,327	2,327	2,327	2,327	2,327	2,327	2,327	2,327	27,047
<b>12</b>	<b>Prior Period Unrecovered Balance (a)</b>	(46,563)	(43,704)	(40,845)	(37,986)	(35,128)	(32,269)	(29,410)	(26,551)	(23,692)	(20,833)	(17,974)	(15,115)	(12,257)	
<b>13</b>	<b>Prior Period Costs Recovered (a)</b>	(34,306)	(2,859)	(2,859)	(2,859)	(2,859)	(2,859)	(2,859)	(2,859)	(2,859)	(2,859)	(2,859)	(2,859)	(2,859)	
<b>14</b>	<b>Prior Month Period (Over)/Under Recovery</b>		0	(1,467)	(1,363)	(902)	(957)	(956)	(956)	(955)	(954)	(953)	(953)	(952)	
<b>15</b>	<b>Unamortized Balance</b>	(46,563)	(43,704)	(42,312)	(40,816)	(38,858)	(36,957)	(35,054)	(33,151)	(31,247)	(29,342)	(27,436)	(25,530)	(23,623)	
<b>16</b>	<b>Carrying Costs for the Period</b>														
	a Balance Eligible for Interest		(44,232)	(42,784)	(41,053)	(39,124)	(37,222)	(35,320)	(33,416)	(31,512)	(29,608)	(27,702)	(25,796)	(23,889)	
	b Monthly Commercial Paper Rate		0.12%	0.14%	0.16%	0.16%	0.16%	0.16%	0.16%	0.16%	0.16%	0.16%	0.16%	0.16%	
	c Interest Provision		(54)	(58)	(64)	(61)	(58)	(55)	(52)	(49)	(46)	(43)	(40)	(37)	(615)
	d Total Costs and Interest (Line 11 + Line 16c)		1,750	1,857	2,320	2,267	2,270	2,273	2,275	2,278	2,281	2,284	2,287	2,290	26,432
<b>17</b>	<b>Recovered (Order No. PSC 2017-0445-FOF-EI)</b>		3,217	3,219	3,221	3,224	3,226	3,228	3,230	3,233	3,235	3,237	3,239	3,241	38,750
<b>18</b>	<b>Over/Under Recovery For the Period</b>		(1,467)	(1,363)	(902)	(957)	(956)	(956)	(955)	(954)	(953)	(953)	(952)	(951)	(12,318)
<b>19</b>	<b>Revenue Requirements for the Period</b>		<b>568,301</b>	<b>543,553</b>	<b>519,183</b>	<b>494,322</b>	<b>469,540</b>	<b>444,781</b>	<b>420,047</b>	<b>395,335</b>	<b>370,649</b>	<b>345,987</b>	<b>321,349</b>	<b>296,735</b>	<b>5,189,782</b>
<b>20</b>	<b>Period Costs Recovered (Order No. PSC 2017-0445-FOF-EI)</b>		666,077	637,752	609,425	581,099	552,775	524,448	496,123	467,798	439,471	411,146	382,820	354,494	6,123,429
<b>21</b>	<b>Over/Under Recovery For the Period</b>		<b>(97,777)</b>	<b>(94,199)</b>	<b>(90,241)</b>	<b>(86,778)</b>	<b>(83,235)</b>	<b>(79,667)</b>	<b>(76,076)</b>	<b>(72,463)</b>	<b>(68,822)</b>	<b>(65,159)</b>	<b>(61,471)</b>	<b>(57,759)</b>	<b>(933,647)</b>

(a) Please see Appendix A for Beginning Balance support and support of Amortization of Unrecovered Balance.  
(b) Other line reflects cost of removal of previously existing assets.

**DUKE ENERGY FLORIDA**  
**Nuclear Cost Recovery Clause (NCRC) - CR3 Uprate**  
**2019 Detail - Calculation of the Revenue Requirements**  
**January 2019 through December 2019**

Witness: T.G. Foster  
Docket No. 20180009-EI  
Exhibit: (TGF- 2), page 5 of 13

Line	Description	Beginning of Period Amount	Projected January 2019	Projected February 2019	Projected March 2019	Projected April 2019	Projected May 2019	Projected June 2019	Projected July 2019	Projected August 2019	Projected September 2019	Projected October 2019	Projected November 2019	Projected December 2019	Period Total
<b>1</b>	<b>Uncollected Investment</b>														
	a EPU Construction & Wind-Down Costs	377,363,162	0	0	0	0	0	0	0	0	0	0	0	0	\$0
	b Sale or Salvage of Assets	(3,029,358)	0	0	0	0	0	0	0	0	0	0	0	0	0
	c Disposition	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	d Total	374,333,804	0	0	0	0	0	0	0	0	0	0	0	0	\$0
<b>2</b>	<b>Adjustments</b>														
	a Non-Cash Accruals	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0
	b Joint Owner Credit	(29,982,869)	0	0	0	0	0	0	0	0	0	0	0	0	0
	c Other (b)	(28,108,647)	0	0	0	0	0	0	0	0	0	0	0	0	0
	d Adjusted System Generation Construction (Retail Jurisdictional Factor : Current Year Activity 92.885% Retail Jurisdictional Factor: (Beg Bal YE 2012 only) 91.683%)	316,242,288	0	0	0	0	0	0	0	0	0	0	0	0	\$0
	e Exit / Wind-Down Costs for the Period		0	0	0	0	0	0	0	0	0	0	0	0	\$0
	f Beginning Balance - pre 2013 Investment	279,911,057	0	0	0	0	0	0	0	0	0	0	0	0	279,911,057
	g Beginning Balance - 2013 Investment	12,170,084	0	0	0	0	0	0	0	0	0	0	0	0	12,170,084
	h Collected Reg Asset - 2014 through 2018	(218,926,876)	0	0	0	0	0	0	0	0	0	0	0	0	(218,926,876)
	i Total Jurisdictional Unrecovered Investment	73,154,265	0	0	0	0	0	0	0	0	0	0	0	0	73,154,265
<b>3</b>	<b>Carrying Cost on Unrecovered Investment Balance</b>														
	a Uncollected Investment	73,154,265	0	0	0	0	0	0	0	0	0	0	0	0	73,154,265
	b Plant-in-Service	29,995,096	0	0	0	0	0	0	0	0	0	0	0	0	29,995,096
	c Period Recovered Wind-down / Exit Costs	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	d Amortization of Unrecovered Investment (a)	0	(3,596,597)	(3,596,597)	(3,596,597)	(3,596,597)	(3,596,597)	(3,596,597)	(3,596,597)	(3,596,597)	(3,596,597)	(3,596,597)	(3,596,597)	(3,596,597)	(43,159,168)
	e Prior Period Carrying Charge Unrecovered Balance (a)	(922,065)	(845,226)	(768,387)	(691,549)	(614,710)	(537,871)	(461,032)	(384,194)	(307,355)	(230,516)	(153,677)	(76,839)	0	0
	f Prior Period Carrying Charge Recovered	(922,065)	(76,839)	(76,839)	(76,839)	(76,839)	(76,839)	(76,839)	(76,839)	(76,839)	(76,839)	(76,839)	(76,839)	(76,839)	0
	g Prior Period Under/(Over) Recovery		0	0	0	0	0	0	0	0	0	0	0	0	0
	h Net Investment	\$42,237,104	\$38,717,345	\$35,197,586	\$31,677,828	\$28,158,069	\$24,638,311	\$21,118,552	\$17,598,793	\$14,079,035	\$10,559,276	\$7,039,517	\$3,519,759	\$0	(\$0)
<b>4</b>	<b>Average Net Investment</b>		\$40,477,224	\$36,957,466	\$33,437,707	\$29,917,949	\$26,398,190	\$22,878,431	\$19,358,673	\$15,838,914	\$12,319,155	\$8,799,397	\$5,279,638	\$1,759,879	
<b>5</b>	<b>Return on Average Net Investment</b>														
	a Equity Component (c)	0.00343	138,837	126,764	114,691	102,619	90,546	78,473	66,400	54,327	42,255	30,182	18,109	6,036	869,239
	b Equity Component Grossed Up For Taxes	1.33950	185,971	169,800	153,628	137,458	121,286	105,114	88,942	72,771	56,600	40,429	24,257	8,085	1,164,341
	c Debt Component (c)	0.00178	71,980	65,721	59,461	53,202	46,943	40,684	34,425	28,166	21,907	15,648	9,389	3,130	450,656
	d Total Return		257,951	235,521	213,089	190,660	168,229	145,798	123,367	100,937	78,507	56,077	33,646	11,215	1,614,997
<b>6</b>	<b>Projected Revenue Requirements for the Period (3a + 5d)</b>		<b>257,951</b>	<b>235,521</b>	<b>213,089</b>	<b>190,660</b>	<b>168,229</b>	<b>145,798</b>	<b>123,367</b>	<b>100,937</b>	<b>78,507</b>	<b>56,077</b>	<b>33,646</b>	<b>11,215</b>	<b>1,614,997</b>
<b>7</b>	<b>Other Exit / Wind-Down</b>														
	a Accounting		0	0	0	0	0	0	0	0	0	0	0	0	0
	b Corporate Planning		0	0	0	0	0	0	0	0	0	0	0	0	0
	c Legal		0	0	0	0	0	0	0	0	0	0	0	0	0
	d Joint Owner Credit		0	0	0	0	0	0	0	0	0	0	0	0	0
	e Total Other Exit / Wind-Down Costs		0	0	0	0	0	0	0	0	0	0	0	0	0
<b>8</b>	<b>Jurisdictional Factor (A&amp;G)</b>		0.93221	0.93221	0.93221	0.93221	0.93221	0.93221	0.93221	0.93221	0.93221	0.93221	0.93221	0.93221	
<b>9</b>	<b>Jurisdictional Amount</b>		0	0	0	0	0	0	0	0	0	0	0	0	0
<b>10</b>	<b>Prior Period Unrecovered Balance (a)</b>	(24,574)	(22,527)	(20,479)	(18,431)	(16,383)	(14,335)	(12,287)	(10,239)	(8,191)	(6,144)	(4,096)	(2,048)	0	
<b>11</b>	<b>Prior Period Costs Recovered</b>	(24,574)	(2,048)	(2,048)	(2,048)	(2,048)	(2,048)	(2,048)	(2,048)	(2,048)	(2,048)	(2,048)	(2,048)	(2,048)	
<b>12</b>	<b>Unamortized Balance</b>	(24,574)	(22,527)	(20,479)	(18,431)	(16,383)	(14,335)	(12,287)	(10,239)	(8,191)	(6,144)	(4,096)	(2,048)	0	
<b>13</b>	<b>Projected Carrying Costs for the Period</b>														
	a Balance Eligible for Interest		(23,550)	(21,503)	(19,455)	(17,407)	(15,359)	(13,311)	(11,263)	(9,215)	(7,168)	(5,120)	(3,072)	(1,024)	
	b Monthly Commercial Paper Rate		0.16%	0.16%	0.16%	0.16%	0.16%	0.16%	0.16%	0.16%	0.16%	0.16%	0.16%	0.16%	
	c Interest Provision		(37)	(33)	(30)	(27)	(24)	(21)	(17)	(14)	(11)	(8)	(5)	(2)	(229)
	d Total Costs and Interest (Line 9 + Line 13c)		(37)	(33)	(30)	(27)	(24)	(21)	(17)	(14)	(11)	(8)	(5)	(2)	(229)
<b>14</b>	<b>Projected Revenue Requirements for the Period</b>		<b>(37)</b>	<b>(33)</b>	<b>(30)</b>	<b>(27)</b>	<b>(24)</b>	<b>(21)</b>	<b>(17)</b>	<b>(14)</b>	<b>(11)</b>	<b>(8)</b>	<b>(5)</b>	<b>(2)</b>	<b>(229)</b>
<b>15</b>	<b>Revenue Requirements for the Period</b>		<b>257,915</b>	<b>235,487</b>	<b>213,059</b>	<b>190,633</b>	<b>168,205</b>	<b>145,778</b>	<b>123,350</b>	<b>100,922</b>	<b>78,496</b>	<b>56,069</b>	<b>33,641</b>	<b>11,214</b>	<b>1,614,769</b>

(a) Please see Appendix A for Beginning Balance support and support of Amortization of Unrecovered Balance  
(b) Other line reflects cost of removal of previously existing assets.  
(c) The WACC used for 2019 has been adjusted in compliance with paragraph 19 of DEF's Settlement Agreement

**DUKE ENERGY FLORIDA**  
**Nuclear Cost Recovery Clause (NCRC) - CR3 Uprate**  
**2019 Projection Filing: Estimated Rate Impact**

Witness: T.G. Foster  
Docket No. 20180009-EI  
Exhibit: (TGF- 2), page 6 of 13

FLORIDA PUBLIC SERVICE COMMISSION  
COMPANY:  
DOCKET NO.: 20180009-EI

EXPLANATION: Using the billing determinants and allocation factors used in the previous year's cost recovery filings, provide an estimate of the rate impact by class of the costs requested for recovery. Current billing determinants and allocation factors may be used, if available.

Exhibit: **TGF-2**  
For the Year Ended: **12/31/2019**  
Witness: **T.G. Foster**

Rate Class	(1) 12CP & 1/13 AD Demand Allocator	(2) Production Demand Costs \$	(3) Effective Mwh's @ Secondary Level	(4) Capacity Cost Recovery Factor (c/Kwh)	(5) Capacity Cost Recovery Factor (\$/kw-Mo)
<b>Residential</b>					
<b>RS-1, RST-1, RSL-1, RSL-2, RSS-1</b>					
Secondary	61.700%	\$27,060,836	20,593,148	0.131	
<b>General Service Non-Demand</b>					
<b>GS-1, GST-1</b>					
Secondary			2,001,248	0.102	
Primary			15,816	0.101	
Transmission			2,434	0.100	
<b>TOTAL GS</b>	4.692%	<u>\$2,057,846</u>	<u>2,019,498</u>		
<b>General Service</b>					
<b>GS-2</b> Secondary	0.292%	\$128,006	177,263	0.072	
<b>General Service Demand</b>					
<b>GSD-1, GSDT-1, SS-1</b>					
Secondary			11,774,036		0.37
Primary			2,240,181		0.37
Transmission			8,362		0.36
<b>TOTAL GSD</b>	29.772%	<u>\$13,057,736</u>	<u>14,022,579</u>		
<b>Curtable</b>					
<b>CS-1, CST-1, CS-2, CST-2, CS-3, CST-3, SS-3</b>					
Secondary			-		0.25
Primary			136,349		0.25
Transmission			-		0.25
<b>TOTAL CS</b>	0.263%	<u>\$115,399</u>	<u>136,349</u>		
<b>Interruptible</b>					
<b>IS-1, IST-1, IS-2, IST-2, SS-2</b>					
Secondary			89,356		0.29
Primary			1,399,032		0.29
Transmission			431,090		0.28
<b>TOTAL IS</b>	3.106%	<u>\$1,362,237</u>	<u>1,919,479</u>		
<b>Lighting</b>					
<b>LS-1</b> Secondary	0.175%	\$76,794	380,801	0.020	
	<u>100.000%</u>	<u>43,858,854</u>	<u>39,249,117</u>	<u>0.112</u>	

2018 Over/Under Recovery Beginning Balance Line.

<b>3b Transferred to Plant In-service</b>	<b>\$</b>	<b>29,995,096</b>	
	29,995,096	Exhibit TGF-1_2017 Detail (Filed March 1, 2018)	Line 3b. Plant in Service
<b>3e Unrecovered Balance Carrying Cost</b>	<b>\$</b>	<b>(158,129)</b>	
Prior Period	-	Exhibit TGF-1_2017 Detail (Filed March 1, 2018)	Line 3e. Prior Period Carrying Charge Unrecovered Balance
Current Period	(158,129)	Exhibit TGF-1_2017 Detail (Filed March 1, 2018)	Line 8 (Over)/Under for the Period
Total	(158,129)		
<b>3f Prior Period Carrying Charge Recovered</b>	<b>\$</b>	<b>(157,393)</b>	
Total	(157,393)	Exhibit TGF-4_2017 Detail (Filed May 1, 2017)	Line 3f. Prior Period Carrying Charge Recovered
<b>Other Exit / Wind-Down</b>			
<b>12 Prior Period Unrecovered Balance</b>	<b>\$</b>	<b>(46,563)</b>	
Prior Period	(16,686)	Exhibit TGF-1_2017 Detail (Filed March 1, 2018)	Line 12 Prior Period Unrecovered Balance
Current Period	(29,877)	Exhibit TGF-1_2017 Detail (Filed March 1, 2018)	Line 18 (Over)/Under for the Period
Total	(46,563)		
<b>13 Prior Period Costs Recovered</b>	<b>\$</b>	<b>(34,306)</b>	
Total	(34,306)	Exhibit TGF-4_2017 Detail (Filed May 1, 2017)	Line 11. Prior Period Costs Recovered

2019 Over/Under Recovery Beginning Balance

<b>Regulatory Asset Carrying Cost</b>			
<b>3e Unrecovered Balance Carrying Cost</b>	<b>\$</b>	<b>(922,065)</b>	
Prior Period	(735)	Line 3e of 2017 Detail	
Current Period	(921,329)	Line 8 of 2017 Detail	
Total	(922,065)		
<b>Other Exit / Wind-Down</b>			
<b>10 Prior Period (Over)/Under Recovery</b>	<b>\$</b>	<b>(24,574)</b>	
Prior Period	(12,257)	Line 12 of 2017 Detail	
Current Period	(12,318)	Line 18 of 2017 Detail	
Total	(24,574)		

Annual Amortization Calculation

TGF-3 Filed March 1, 2014		YE 2013 - Actual
1 Net Investment	Lines 2f + 2g (TGF-4) 2017 Detail	\$ 292,081,140
2 Less: Transferred to Plant-in-Service	Line 3b (TGF-4) 2017 Detail	29,995,096
3 Investment to Amortize	(2014 through 2019)	\$ 262,086,044
4 Annual Amortization (2015 -2018)	Line 3d (TGF-4) 2017 Detail & 2018 Detail	<u>\$ 43,681,007</u>
See Appendix F for Amortization Detail 2013-2019		
2018 BB Investment prior to CY Amort		\$ 86,840,176
2018 Additions		-
Total (Exclusive of Prior Period Over/Under Recoveries)		86,840,176
Less: 2018 Amortization		43,681,007
Less: Collection of Wind-Down / Exit Costs 2018		-
2018 EB Unrecovered Investment (Exclusive of Prior Period O/U Recoveries) : <b>2019 Amortization</b>		<u>\$ 43,159,168</u>
(Over)/Under Recovery for the Period 2018	(2018 Detail: Line 3e & 3g)	\$ (922,065)
2018 EB Unrecovered Investment	(Period Total 2018 Detail: Line 3h)	<u>\$ 42,237,104</u>

**CRYSTAL RIVER UNIT 3 UPRATE**  
**Estimated / Actual Filing: Other Exit / Wind-Down Expenditures Allocated or Assigned to Other Recovery Mechanisms**

EXPLANATION: Provide variance explanations comparing the system total expenditures shown on 2018 Detail Schedule with the expenditures provided to the Commission in the 2018 Detail Projection Schedules.

Appendix B  
 Witness: Thomas G. Foster  
 Docket No. 20180009-EI  
 Exhibit: (TGF - 2), page 8 of 13

COMPANY:  
 Duke Energy Florida

DOCKET NO.:  
 20180009-EI

For Year Ended 12/31/2018

Line No.	Description	(A) System Projection	(B) System Estimated/Actual	(C) Variance Amount	(D) Explanation
Allocated or Assigned Other Exit / Wind-Down Expenditures					
1	Accounting	\$31,086	\$31,612	\$526	Minor variance from estimated amount.
2	Corporate Planning	14,375	0	(14,375)	Minor variance from estimated amount.
3	Legal	0	0	0	Minor variance from estimated amount.
4	Total	\$45,461	\$31,612	(\$13,849)	

Note:  
 System Projection from May 1, 2017 Filing in Docket No. 20170009-EI.

FOR 2018	System Per	Retail Per	Pro Rata	Specific	Adjusted	Cap	Low-Point		Mid-Point		High-Point	
	Books	Books	Adjustments	Adjustments	Retail	Ratio	Cost Rate	Weighted Cost	Cost Rate	Weighted Cost	Cost Rate	Weighted Cost
Common Equity	\$5,154,887,401	\$4,657,740,815	(\$460,633,311)	\$669,104,959	\$4,866,212,463	44.04%	9.50%	4.18%	10.50%	4.62%	11.50%	5.06%
Long Term Debt	5,467,663,019	4,940,351,791	(488,582,489)		4,451,769,302	40.29%	5.03%	2.03%	5.03%	2.03%	5.03%	2.03%
Short Term Debt	(166,901,090)	(150,804,849)	14,914,041	(30,589,866)	(166,480,674)	(1.51%)	0.58%	(0.01%)	0.58%	(0.01%)	0.58%	(0.01%)
Customer Deposits												
Active	205,654,348	205,654,348	(20,338,453)		185,315,895	1.68%	2.27%	0.04%	2.27%	0.04%	2.27%	0.04%
Inactive	1,727,299	1,727,299	(170,823)		1,556,475	0.01%						
Investment Tax Credits	3,909,058	3,532,061	(349,308)		3,182,753	0.03%	7.89%	0.00%	7.89%	0.00%	7.89%	0.00%
Deferred Income Taxes	2,656,690,875	2,400,474,842	(237,398,069)	(455,859,128)	1,707,217,645	15.45%						
<b>Total</b>	<b>\$13,323,630,908</b>	<b>\$12,058,676,306</b>	<b>(\$1,192,558,412)</b>	<b>\$182,655,964</b>	<b>\$11,048,773,858</b>	<b>100.00%</b>		<b>6.24%</b>		<b>6.68%</b>		<b>7.12%</b>

Equity	4.62%
Debt	2.06%
<b>Total</b>	<b>6.68%</b>

FOR 2019*	System Per	Retail Per	Pro Rata	Specific	Adjusted	Cap	Low-Point		Mid-Point		High-Point	
	Books	Books	Adjustments	Adjustments	Retail	Ratio	Cost Rate	Weighted Cost	Cost Rate	Weighted Cost	Cost Rate	Weighted Cost
Common Equity	\$5,154,887,401	\$4,657,740,815	(\$460,633,311)	(13,709,489)	\$4,183,398,015	40.36%	9.50%	3.83%	10.50%	4.24%	11.50%	4.64%
Long Term Debt	5,467,663,019	4,940,351,791	(488,582,489)		4,451,769,302	42.95%	5.03%	2.16%	5.03%	2.16%	5.03%	2.16%
Short Term Debt	(166,901,090)	(150,804,849)	14,914,041	(30,589,866)	(166,480,674)	(1.61%)	0.58%	(0.01%)	0.58%	(0.01%)	0.58%	(0.01%)
Customer Deposits												
Active	205,654,348	205,654,348	(20,338,453)		185,315,895	1.79%	2.27%	0.04%	2.27%	0.04%	2.27%	0.04%
Inactive	1,727,299	1,727,299	(170,823)		1,556,475	0.02%						
Investment Tax Credits	3,909,058	3,532,061	(349,308)		3,182,753	0.03%	7.89%	0.00%	7.89%	0.00%	7.89%	0.00%
Deferred Income Taxes	2,656,690,875	2,400,474,842	(237,398,069)	(455,859,128)	1,707,217,645	16.47%						
<b>Total</b>	<b>\$13,323,630,908</b>	<b>\$12,058,676,306</b>	<b>(\$1,192,558,412)</b>	<b>(\$500,158,483)</b>	<b>\$10,365,959,411</b>	<b>100.00%</b>		<b>6.03%</b>		<b>6.43%</b>		<b>6.84%</b>

Equity	4.24%
Debt	2.19%
<b>Total</b>	<b>6.43%</b>

\* The WACC used for 2019 has been adjusted in compliance with paragraph 19 of DEF's Settlement Agreement

**CRYSTAL RIVER UNIT 3 UPRATE**  
**Actual Estimated Filing: Construction Category - Description of Monthly Cost Additions**

EXPLANATION: Provide a description of the major tasks performed within the Construction category for the year.  
List generation expenses separate from transmission in the same order appearing on 2018 Detail Schedule.

Appendix D  
Witness: Thomas G. Foster  
Docket No. 20180009-EI  
Exhibit: (TGF - 2), page 10 of 13  
(Page 1 of 2)

COMPANY:  
Duke Energy Florida

DOCKET NO.:  
20180009-EI

For Year Ended 12/31/2018

Line No.	Major Task & Description for amounts on 2018 Detail Schedule	Description
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Generation:

- |   |                                    |   |
|---|------------------------------------|---|
| 1 | EPU Construction & Wind-Down Costs | Project Management Wind-Down costs  |
| 2 | Sale or Salvage of Assets          | Net Value received in accordance with Duke Energy Procedure AI-9010 regarding Disposition of Assets |
| 3 | Disposition                        | Net Value received in accordance with Duke Energy Procedure AI-9010 regarding Disposition of Assets |

Transmission:

N/A



**CRYSTAL RIVER UNIT 3 UPRATE**  
**Estimated / Actual Filing: Construction Category - Variance in Additions and Expenditures**

EXPLANATION: Provide variance explanations comparing the annual system total expenditures shown on 2018 Detail Schedule with the expenditures provided to the Commission on 2018 Projection Detail schedule. List the Generation expenses separate from Transmission in the same order appearing on 2018 Detail Schedule.

Appendix D  
 Witness: Thomas G. Foster  
 Docket No. 20180009-EI  
 Exhibit: (TGF - 2), page 11 of 13  
 (Page 2 of 2)

COMPANY:  
 Duke Energy Florida

DOCKET NO.:  
 20180009-EI

For Year Ended 12/31/2018

Line No.	Construction Major Task & Description for amounts on 2018 Detail Schedule	(A) System Projection	(B) System Estimated /Actual	(C) Variance Amount	(D) Explanation
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Generation:

1	EPU Wind-Down Costs	\$0	\$0	\$0	
2	Sale or Salvage of Assets (1)	0	0	0	
3	Disposition	0	0	0	
4	Total Generation Costs	\$0	\$0	\$0	

Transmission:

N/A

System Projection from May 1, 2017 Filing in Docket No. 20170009-EI.

**CRYSTAL RIVER UNIT 3 UPRATE**  
**Estimated/Actual & Projection Filing: Summary of Contracts Executed Over \$1 Million**

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FLORIDA PUBLIC SERVICE COMMISSION

EXPLANATION:

Provide a list of contracts executed in excess of \$1 million including, a description of the work, the dollar value and term of the contract, the method of vendor selection, the identity and affiliation of the vendor, and current status of the contract.

COMPANY:

Duke Energy Florida

DOCKET NO.:

20180009-EI

Appendix E  
Witness: Thomas G. Foster  
Docket No. 20180009-EI  
Exhibit: (TGF - 2), page 12 of 13

For Year Ended 12/31/2018

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**All EPU-related contracts in excess of \$1 million have been closed as of December 31, 2013. No new contracts over \$1 million were executed after December 31, 2013.**

**CR3 Uprate Unrecovered Investment Amortization Schedule**

Exclusive of Prior Period Carrying Cost (Over)/Under Impacts, Adjustments, & Other Exit / Wind-Down Activity

Appendix F  
 Witness: Thomas G. Foster  
 Docket No. 20180009-EI  
 Exhibit: (TGF - 2), page 13 of 13

	<u>2013</u>	<u>2014 (a)</u>	<u>2015 (b)</u>	<u>2016 (b)</u>	<u>2017 (b)</u>	<u>2018 (b)</u>	<u>2019 (c)</u>
<b>Project Investment Transferred to Base Rates</b>	\$ 279,911,057 (29,985,613)	\$ 292,081,140 (29,995,096)	\$ 291,592,657 (29,995,096)	\$ 290,114,852 (29,995,096)	\$ 290,114,852 (29,995,096)	\$ 290,114,159 (29,995,096)	\$ 290,114,159 (29,995,096)
<b>Beginning Balance -- NCRC</b>	\$ 249,925,444	\$ 262,086,044	\$ 261,597,561	\$ 260,119,756	\$ 260,119,756	\$ 260,119,063	\$ 260,119,063
Prior Period Exit Cost Recoveries	0	0	488,483	1,966,288	1,966,288	1,966,981	1,966,981
Prior Period Amortization Recovery	0	0	(44,202,846)	(87,883,854)	(131,564,861)	(175,245,868)	(218,926,876)
<b>Beginning Balance to be Recovered</b>	\$ 249,925,444	\$ 262,086,044	\$ 217,883,198	\$ 174,202,190	\$ 130,521,183	\$ 86,840,176	\$ 43,159,168
Exit Cost / Wind -Down Additions	12,170,084	(488,483)	(1,477,805)	0	(693)	0	0
Transfers to Base Rates	(9,483)	0	0	0	0	0	0
Period Amortization	0	44,202,846	43,681,007	43,681,007	43,681,007	43,681,007	43,159,168
Period Capital Recovery (calculated)	0	(43,714,363)	(42,203,203)	(43,681,007)	(43,680,314)	(43,681,007)	(43,159,168)
<b>Ending Balance (calculated)</b>	\$ 262,086,044	\$ 217,883,198	\$ 174,202,190	\$ 130,521,183	\$ 86,840,176	\$ 43,159,168	\$ -
<b>Ending Balance (as shown on Exhibits incl. O/U)</b>	\$ 260,788,581	\$ 216,712,648	\$ 170,579,912	\$ 128,357,192	\$ 86,682,047	\$ 42,237,839	(\$0)
<i>End of Period Carrying Cost (Over)/Under Impacts, Adjustments, &amp; Other Exit / Wind-Down Activities, are not included in Amortization or Capital Recovery - shown for illustrative purposes only</i>							
(Over/Under)			(3,622,279)	(2,163,991)	(158,129)	(921,329)	(0)
(Over/Under) Shown in Exhibits			(3,622,279)	(2,163,991)	(158,129)	(921,329)	(0)
Variance			(0)	(0)	(0)	(0)	-

Note (a):

TGF-6 Filed May 1, 2013	<u>For 2014 Rates</u>
Estimated YE 2013 Balance	\$ 265,009,070
Estimated 2014 Wind-down Costs	208,008
Total Amount to be Amortized	<u>265,217,078</u>
Annual Amortization (2014)	\$ 44,202,846

Note (b):

TGF-3 Filed March 1, 2014	<u>YE 2013 - Actual</u>
Additions for the Period	\$ 292,081,140
Less: Transferred to Plant-in-Service	29,995,096
2013 Actual EB Investment to Amortize	<u>262,086,044</u>
Annual Amortization (2015-2018)	\$ 43,681,007

Note (c):

TGF-5 Filed May 1, 2014 (noted in Appendix A)	
Annual Amortization (2019)	\$ 43,159,168