

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

**In re: Nuclear Cost Recovery
Clause**

DOCKET NO. 160009-EI

Submitted for filing:
April 27, 2016

REDACTED

**DIRECT TESTIMONY OF THOMAS G. FOSTER
IN SUPPORT OF LEVY ESTIMATED/ACTUAL AND PROJECTION COSTS
AND CR3 UPRATE ESTIMATED/ACTUAL AND PROJECTION COSTS**

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

IN RE: NUCLEAR COST RECOVERY CLAUSE

BY DUKE ENERGY FLORIDA, LLC.

FPSC DOCKET NO. 160009-EI

**DIRECT TESTIMONY OF THOMAS G. FOSTER
IN SUPPORT OF LEVY AND CR3 UPRATE ESTIMATED/ACTUAL AND
PROJECTION COSTS**

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. What are your responsibilities in that position?**

11 A. I am responsible for regulatory planning and cost recovery for Duke
12 Energy Florida, LLC. (“DEF” or the “Company”). These responsibilities
13 include: preparing regulatory financial reports and analysis of state,
14 federal, and local regulations and their impact on DEF. In this capacity,
15 I am also responsible for the Levy Nuclear Project (“LNP”) and the
16 Crystal River Unit 3 (“CR3”) Extended Power Uprate (“EPU”) Project
17 (“CR3 Uprate”) Cost Recovery filings, made as part of this Nuclear Cost

1 Recovery Clause (“NCRC”) docket, in accordance with Rule 25-6.0423,
2 Florida Administrative Code (“F.A.C.”).

3
4 **Q. Please describe your educational background and professional**
5 **experience.**

6 A. I joined the Company on October 31, 2005 as a Senior Financial Analyst in
7 the Regulatory group. In that capacity I supported the preparation of
8 testimony and exhibits associated with various Dockets. In late 2008, I was
9 promoted to Supervisor Regulatory Planning. In 2012, following the merger
10 with Duke Energy Corporation (“Duke Energy”), I was promoted to my
11 current position. Prior to working at Duke Energy I was the Supervisor in
12 the Fixed Asset group at Eckerd Drug. In this role I was responsible for
13 ensuring proper accounting for all fixed assets as well as various other
14 accounting responsibilities. I have 6 years of experience related to the
15 operation and maintenance of power plants obtained while serving in the
16 United States Navy as a Nuclear Operator. I received a Bachelors of
17 Science degree in Nuclear Engineering Technology from Thomas Edison
18 State College. I received a Masters of Business Administration with a focus
19 on finance from the University of South Florida and I am a Certified Public
20 Accountant in the State of Florida.

21
22 **II. PURPOSE OF TESTIMONY.**

23 **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 2016
3 and 2017 costs associated with the CR3 Uprate project consistent with Rule
4 25-6.0423(7), F.A.C., in support of setting 2017 rates in the Capacity Cost
5 Recovery Clause (“CCRC”). Additionally, I present the expected costs
6 associated with DEF’s LNP for 2016 and 2017. Pursuant to the terms of the
7 Stipulation approved by this Commission in Order No. PSC-15-0521-FOF-EI,
8 DEF is not seeking recovery for its LNP costs in this proceeding; rather the
9 LNP costs are being provided for informational purposes only. As discussed
10 further in the testimony of Witnesses Christopher Fallon and Mark Teague,
11 at this time there are certain Levy and EPU costs or credits that are not
12 known or knowable and DEF has not included these in our estimates.

13
14 **Q. Are you sponsoring any exhibits in support of your testimony?**

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

- 17 • Exhibit No. _ (TGF-3) contains schedules showing the costs
18 associated with the Levy project. Sponsors of specific schedules are
19 identified in the Table of Contents in Exhibit No. _ (TGF-3). Witness
20 Fallon will be co-sponsoring portions of the 2016 Detail Schedule
21 Lines 1 (a – e) and Lines 3 (a – e), 2017 Detail Schedule Lines 1 (a –
22 e) and Lines 3 (a – e), and sponsoring Appendices D and E.
- 23 • Exhibit No. _ (TGF-4), contains schedules showing the costs
24 associated with the CR3 Uprate project. Sponsors of specific

1 schedules are identified in the Table of Contents in Exhibit No. _
2 (TGF-4). Mark Teague will be co-sponsoring portions of 2016 Detail
3 Schedule Lines 1 (a – d) and 2017 Detail Schedule Lines 1 (a - d)
4 and sponsoring Appendices D and E.

5 These exhibits are true and accurate to the best of my knowledge and
6 information.

7
8 **Q. What are the 2016-2017 Detail Revenue Requirements Schedules and**
9 **the Appendices?**

- 10 **A.** • The 2016 Detail Schedule reflects the actual/estimated calculations for
11 the true-up of total retail revenue requirements for the period.
- 12 • The 2017 Detail Schedule reflects the projection calculations for the true-
13 up of total retail revenue requirements for the period.
 - 14 • The 2016 Detail - LLE Deferred Balance Schedule (Levy only) reflects
15 the revenue requirement calculations for the LLE deferred balance for
16 the period.
 - 17 • The 2017 Detail - LLE Deferred Balance Schedule (Levy only) reflects
18 the revenue requirement calculations for the LLE deferred balance for
19 the period.
 - 20 • The 2017 Estimated Rate Impact Schedule reflects the estimated
21 Capacity Cost Recovery Factors for 2017 (EPU only).
 - 22 • Appendix A (CR3 Uprate) reflects beginning balance explanations and
23 support for the 2016 and 2017 Regulatory Asset Amortization Amount.
 - 24 • Appendix A (Levy) reflects beginning balance explanations.

- 1 • Appendix B reflects Other Wind Down/Exit Cost variance explanations for
- 2 the period.
- 3 • Appendix C provides support for the appropriate rate of return consistent
- 4 with the provisions of Rule 25-6.0423(7), F.A.C.
- 5 • Appendix D describes Major Task Categories for expenditures and
- 6 variance explanations for the period.
- 7 • Appendix E reflects contracts executed in excess of \$1.0 million.
- 8 • Appendix F (CR3 Uprate) reflects a summary of the 2013-2019 Uprate
- 9 Amortization Schedule for the Uncollected Investment Balance.

10

11 **III. CARRYING COST RATES AND SEPARATION FACTORS FOR BOTH**

12 **THE CR3 UPRATE PROJECT AND THE LEVY NUCLEAR PROJECT.**

13 **Q. What is the carrying cost rate used in the 2016 and 2017 Revenue**

14 **Requirement Detail Schedules?**

15 A. DEF is using the rate specified in Rule 25-6.0423(7)(b), F.A.C. as follows:

16 “The amount recovered under this subsection will be the remaining

17 unrecovered Construction Work in Progress balance at the time of

18 abandonment and future payment of all outstanding costs and any other

19 prudent and reasonable exit costs. The unrecovered balance during the

20 recovery period will accrue interest at the utility’s overall pretax weighted

21 average midpoint cost of capital on a Commission adjusted basis as

22 reported by the utility in its Earnings Surveillance Report filed in December

23 of the prior year, utilizing the midpoint of return on equity (ROE) range or

24 ROE approved for other regulatory purposes, as applicable.”

1 The carrying cost rate used for this time period is 6.76 percent. On a pre-
2 tax basis, the rate is 9.80 percent. This rate is based on DEF's December
3 2015 Earnings Surveillance Report. This annual rate was also adjusted to
4 a monthly rate consistent with the Allowance for Funds Used During
5 Construction ("AFUDC") rule, Rule 25-6.0141(3), F.A.C. Support for the
6 components of this rate is shown in Appendix C in Exhibit Nos.____(TGF-3)
7 for the LNP and (TGF-4) for the CR3 Uprate project.

8
9 **Q. What was the source of the separation factors used in the 2016 and**
10 **2017 Revenue Requirement Detail Schedules?**

11 A. The jurisdictional separation factors are consistent with Exhibit 1 of the
12 Revised and Restated Stipulation and Settlement Agreement ("2013
13 Settlement Agreement") approved by the Commission in Order No. PSC-
14 13-0598-FOF-EI in Docket No 130208-EI.

15
16 **IV. COST RECOVERY FOR THE LEVY COUNTY NUCLEAR PROJECT.**

17 **A. ACTUAL/ESTIMATED LNP COSTS.**

18 **Q. Have you provided schedules that are consistent with the terms of the**
19 **Stipulation approved by this Commission in Order No. PSC-15-0521-**
20 **FOF-EI and the nuclear cost recovery statute and rule?**

21 A. Yes. These revenue requirements can be seen in the 2016 Detail
22 Schedule, the 2016 Detail – LLE Deferred Balance Schedule, the 2017
23 Detail Schedule, and in the 2017 Detail – LLE Deferred Balance Schedule.

1 Consistent with my May 1, 2015 testimony provided last year, DEF's
2 actual/estimated and projected LNP costs, including carrying charges on
3 the deferral of \$54 million equivalent to the LLE amount in dispute in DEF's
4 claims against WEC in the WEC litigation, reflect prudent LNP costs that
5 DEF is entitled to recover from customers pursuant to the Commission's
6 vote, prior NCRC Orders, the 2013 Settlement Agreement, Section 366.93,
7 Florida Statutes, and Rule 25-6.0423, F.A.C.

8 As of May 2015 DEF has set the Levy billing factors to zero and is not
9 collecting any revenues for the Levy project through 2017.

10
11 **Q. What are the total estimated period revenue requirements for the LNP**
12 **for the calendar year ended December 2016?**

13 A. The total projected period revenue requirements for the LNP are \$5.5
14 million for the calendar year ended December 2016 as reflected on the two
15 2016 Revenue Requirement Detail Schedules. The \$0.1 million on the
16 2016 Detail Schedule Line 22 in Exhibit No._(TGF-3) includes
17 approximately \$66 thousand in exit/wind-down and disposition costs as can
18 be seen on Lines 5a and 19d, and approximately \$54 thousand for the
19 carrying costs on the unrecovered investment balance shown on Line 8d.
20 \$5.3 million is reflected in 2016 Detail - LLE Deferred Balance Schedule on
21 Line 4 in Exhibit No._(TGF-3). These amounts were calculated in
22 accordance with the provisions of Rule 25-6.0423, F.A.C..
23

1 **B. EXIT & WIND-DOWN COSTS INCURRED IN 2016 FOR THE LEVY**
2 **NUCLEAR PROJECT.**

3 **Q. What are the exit and wind-down costs incurred for the Levy Nuclear**
4 **Project for the period January 2016 through December 2016?**

5
6 A. The 2016 Detail Schedule in Exhibit No.__(TGF-3) Lines 1e, Line 3e, and
7 Line 12e show that total exit and wind-down expenditures excluding carrying
8 costs were approximately [REDACTED]. **REDACTED**

9
10 **Q. What do these costs include?**

11 A. The expenses included on Line 1e and 3e represent [REDACTED] related to
12 project management wind-down costs as described in the testimony of Mr.
13 Fallon. The expenses on line 12e, of \$60,914, represent other exit and
14 wind-down costs including regulatory and accounting on-going wind-down
15 support costs that the Company expects to incur in 2016 related to the LNP.

16
17 **Q. How did these expenditures for January 2016 through December 2016**
18 **compare with DEF's projected costs for 2016?**

19 A. Appendix B, Line 4 shows that total Other Exit & Wind-Down Costs are
20 expected to be \$60,914 or \$0.1 million lower than estimated. As shown in
21 Appendix D, wind down and sale or salvage costs are [REDACTED] lower than
22 originally anticipated.

1 **Q. Did you project any credits for the sale or other disposition efforts**
2 **that could result in credits for the Levy project assets?**

3 A. No. Value received from any future disposition of an LNP asset will be
4 credited against the uncollected investment at the time of disposition.

5
6 **Q. Have you continued to ensure that future costs related to the Levy**
7 **site COL are not included in the NCRC as of January 1, 2014?**

8 A. Yes.

9
10 **Q. What is the estimated true-up for 2016 expected to be?**

11 A. The 2016 true-up is expected to be an under-recovery of \$5.5 million as
12 reflected in Line 4 on the 2017 Summary Schedule in Exhibit No._ (TGF-3).

13
14 **C. LNP COST PROJECTIONS FOR 2017.**

15 **Q. What is included in the Total Revenue Requirements for the Period**
16 **2017?**

17 A. The total current-period revenue requirements of \$6 million in 2017 is
18 primarily associated with the carrying costs of approximately \$5.8 million
19 associated with the \$54 million (\$50 million retail) as can be seen on Line 4
20 of the 2017 Detail – LLE Deferred Balance Schedule. It also includes some
21 amounts associated with wind-down and carrying costs on the remaining
22 unrecovered Levy investment (not the \$54M deferral). These amounts can
23 be seen on Lines 9 and 18 on the 2017 Detail schedule.

24

1 **Q. What is included in the Total Return for the Period on the 2017 Detail**
2 **Schedule, Line 8d and 2017 Detail – LLE Deferred Balance Schedule,**
3 **Line 3d?**

4 A. The Revenue Requirements of \$0.1 million and \$5.8 million depicted on
5 these Schedules on Line 8d and 3d respectively represent carrying costs on
6 the average uncollected investment balance. The Schedules start with the
7 2017 beginning balance and compute the carrying charge on the average
8 monthly balance. The equity component of the return is grossed up for
9 taxes to cover the income taxes that will be paid upon recovery in rates.

10
11 **Q. What are the exit and wind-down costs incurred for the Levy Nuclear**
12 **Project for the period January 2017 through December 2017?**

13 A. The 2017 Detail Schedule in Exhibit No.__(TGF-3) Lines 1e, 3e and Line
14 10e show that total exit and wind-down expenditures excluding carrying
15 costs are estimated at [REDACTED]. **REDACTED**

16
17 **Q. What is the total jurisdictional projected exit and wind-down costs that**
18 **will be incurred for the period January 2017 through December 2017?**

19 A. As shown on the Period Total Line 5a and Line 17d of the 2017 Detail
20 Schedule in Exhibit No.__(TGF-3), total projected jurisdictional costs for
21 2017 are \$0.1 million.

1 **Q. What are the total estimated revenue requirements, exclusive of the**
2 **revenue tax multiplier, for the LNP for the calendar year ended**
3 **December 2017?**

4 A. DEF is not seeking recovery of any revenue in 2017 for the LNP in this
5 proceeding. As can be seen in Exhibit No. _ (TGF-3), 2017 Summary
6 Schedule Line 14, the total estimated unrecovered investment balance at
7 year end 2017 is approximately \$65.3 million. This amount is primarily
8 associated with the \$54 million deferral (\$50.3 million retail), shown on Line
9 13 of the 2017 Summary Schedule and its carrying costs of approximately
10 \$14.3 million, shown on Line 12 of the 2017 Summary Schedule, that were
11 incurred from May 2015 through December 2017. It also includes
12 approximately \$0.7 million associated with current period wind-down and
13 carrying costs, and prior period unrecovered costs not related to the \$54M
14 deferral, shown on Line 11 on the 2017 Summary Schedule.

15
16 **Q. Has DEF included all of its 2016 and 2017 LNP costs or credits in this**
17 **filing?**

18 A. No it has not. There are potential costs or credits that DEF has not included
19 in its actual/estimated 2016 and projected 2017 LNP costs because DEF is
20 unable to accurately estimate them, as explained by Mr. Fallon.

21
22 **V. COST RECOVERY FOR THE CRYSTAL RIVER 3 UPRATE PROJECT.**

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

1 A. DEF requests that the Commission approve recovery of the CR3 Uprate
2 project amounts consistent with 2013 Settlement in Order PSC-13-0598-
3 FOF-EI, Section 366.93(6), Florida Statutes, and Rule 25-6.0423(7), F.A.C..
4 In support of this request, DEF has prepared Exhibit No. _ (TGF-4), which
5 shows the unrecovered investment and expected future payments and exit
6 costs through the end of 2017 for purposes of setting 2017 rates. DEF
7 requests that the Commission approve the revenue requirements for 2017
8 to be placed into the CCRC of \$51.7 million as shown on 2017 Summary
9 Schedule Line 8 of Exhibit No. _(TGF-4).

10
11 **Q. What was the total unrecovered investment in the CR3 Uprate project**
12 **as of year-end 2015?**

13 A. The total year-end 2015 unrecovered investment to be amortized is
14 approximately \$174.2 million as shown on lines 3a – 3b beginning balance
15 amount in the 2016 Detail Schedule of Exhibit No. _(TGF-4). This net
16 amount represents the construction costs incurred that have not been
17 placed in service. This amount does not include prior period over/under
18 recoveries, prior period amortization, or period costs like wind-down/exit
19 costs.

20
21 **Q. How is DEF recovering this investment?**

22 A. DEF is continuing to recover this balance over the remaining four (4) year
23 period from 2016-2019 as approved by the Commission in the 2013
24 Settlement in Order PSC-13-0598-FOF-EI, Docket No. 130208-EI, which

1 allowed DEF to recover the estimated year-end 2013 balance over the
2 2013-2019 period.

3
4 **Q. Will DEF account for salvage or CR3 Uprate asset sales?**

5 A. Yes. To the extent DEF receives any salvage or re-sale value for the CR3
6 Uprate assets currently recovered through the NCRC, DEF will apply that
7 value to reduce the unrecovered balance.

8
9 **Q. What are the total estimated period revenue requirements for the CR3
10 Uprate project for the calendar year ended December 2016?**

11 A. The total estimated period revenue requirements for the CR3 Uprate project
12 are \$14.3 million for the calendar year ended December 2016, as reflected
13 on the 2016 Detail Schedule Line 19 of Exhibit No.__(TGF-4). This amount
14 includes \$14.2 million for the carrying costs on the unrecovered investment
15 balance shown on Line 5d, and \$0.1 million for current period wind-down
16 costs shown on Lines 2e and 16d. These amounts were calculated in
17 accordance with the provisions of Rule 25-6.0423, F.A.C.

18
19 **Q. What is the total estimated over or under recovery for the CR3 Uprate
20 project for the calendar year ended December 2016?**

21 A. The total estimated over-recovery is \$0.6 million as shown in Exhibit
22 No.__(TGF-4), the 2016 Detail Schedule Line 21.

1 **Q. Did you project any other credits for the sale or other disposition**
2 **efforts for the CR3 Uprate project assets?**

3 A. No. DEF has not estimated the salvage or re-sale value for any remaining
4 CR3 Uprate asset at this time. Value received from any future disposition
5 of an EPU asset will be credited against the uncollected investment at the
6 time of disposition.

7
8 **Q. What are the total estimated revenue requirements, exclusive of the**
9 **revenue tax multiplier, for the CR3 Uprate project for the calendar year**
10 **ended December 2017?**

11 A. As can be seen in Exhibit No. _ (TGF-4), the 2017 Summary Schedule Line
12 6, the total estimated revenue requirements are approximately \$51.7
13 million. This consists primarily of \$43.7 million associated with amortizing
14 the unrecovered construction cost spend, \$10.2 million in period carrying
15 costs, \$0.1 million of current period other exit and wind-down activities, and
16 \$2.3 million of prior period over-recoveries. These amounts are shown on
17 lines 1, 2-4 and 5 of the above-mentioned Schedule, respectively.

18
19 **Q. Does this conclude your testimony?**

20 A. Yes.

SCHEDULE APPENDIX

REDACTED

EXHIBIT (TGF-3)

**DUKE ENERGY FLORIDA, LLC.
LEVY NUCLEAR UNITS 1 & 2
COMMISSION SCHEDULES**

**JANUARY 2016 - DECEMBER 2017
DOCKET NO. 160009-EI**

Table of Contents
Levy Nuclear Units 1 & 2
January 2016 - December 2017

<u>Page(s)</u>	<u>Schedule</u>	<u>Description</u>	<u>Sponsor</u>
3	2017 Summary	2017 Summary	T. G. Foster
4	2016 Detail	2016 Detail Revenue Requirement Calculations	T. G. Foster / C. Fallon
5	2017 Detail	2017 Detail Revenue Requirement Calculations	T. G. Foster / C. Fallon
6	2016 Detail - LLE Deferred Balance	2016 Detail Revenue Requirement Calculations - LLE Deferred Balance	T. G. Foster / C. Fallon
7	2017 Detail - LLE Deferred Balance	2017 Detail Revenue Requirement Calculations - LLE Deferred Balance	T. G. Foster / C. Fallon
8	Appendix A	Detail for 2016 & 2017 Beginning Balance	T. G. Foster
9	Appendix B	Other Exit / Wind-Down Expense Variance Explanation	T. G. Foster
10	Appendix C	Average Rate of Return - Capital Structure	T. G. Foster
11 - 12	Appendix D	Major Task Categories and Expense Variances	C. Fallon
13	Appendix E	Summary of Contracts and Details over \$1 Million	C. Fallon

Components of the 2017 Estimated Uncollected Balance as of December 31, 2017

1.	2017 Period Carrying Cost on Unrecovered Investment		5,896,672	(2017 Detail Line 8d.) + (2017 Detail - LLE Deferred Balance Line 4.)
2.	2017 Period Exit Costs		0	2017 Detail Line 6a.
3.	2017 Period Other Exit / Wind-Down Costs incl. Interest		58,924	2017 Detail Line 18.
4.	Uncollected Revenue Requirements in 2016		5,429,404	(2016 Detail Line 22.) + (2016 Detail - LLE Deferred Balance Line 4.)
5.	Prior Period Unrecovered Investment Balance (pre-2016)		532,396	2016 Detail (Beginning Balance 6j.)
6.	Prior Period Unrecovered Investment Balance (pre-2016)		(42,490)	2016 Detail (Beginning Balance Line 15.)
7.	Prior Period Unrecovered Investment Balance (pre-2016)		3,153,738	2016 Detail - LLE Deferred Balance (Beginning Balance Line 1b.)
8.	Total 2017 Revenue Requirement	(Sum of Lines: 1. through 8.)	<u>15,028,645</u>	
9.	Uncollected Balance \$54M Deferral (Retail)		50,275,957	(2017 Detail - LLE Deferred Balance Line 1a.)
10.	Total Uncollected Balance at Year End 2017	(Lines: 8. + 9.)	<u>\$ 65,304,601</u>	

The summary below shows the estimated uncollected balance as of December 31, 2017

11.	Uncollected Regulatory Asset (Non-\$54M Deferred Amount)		\$ 727,554	(2017 Detail Lines: 6i + 13 + 18)
12.	Carrying Cost on \$54M Deferral (May 2015 - December 2017) (Retail)		14,301,091	(2017 Detail - LLE Deferred Balance Line 1b + 1d.)
13.	Uncollected Balance \$54M Deferral (Retail)		50,275,957	(2017 Detail - LLE Deferred Balance Line 1a.)
14.	Total Uncollected Balance at Year End 2017	(Lines: 11. + 12. + 13.)	<u>\$ 65,304,601</u>	

DUKE ENERGY FLORIDA
Nuclear Cost Recovery Clause (NCRC) - Levy Nuclear Units 1 & 2
2016 Detail - Calculation of the Revenue Requirements
January 2016 through December 2016

Witness: T.G. Foster / C. Fallon
Docket No. 160009-EI
Exhibit: (TGF- 3)

Line	Description	REDDACTED												Period Total	End of Period Total	
		Beginning of Period Amount	Actual January 2016	Actual February 2016	Projected March 2016	Projected April 2016	Projected May 2016	Projected June 2016	Projected July 2016	Projected August 2016	Projected September 2016	Projected October 2016	Projected November 2016			Projected December 2016
1	Uncollected Investment : Generation															
	a Prior Period Construction Balance YE 2015															
	b Wind-Down Costs															
	c Sale or Salvage of Assets															
	d Disposition															
	e Total															
2	Adjustments															
	a Non-Cash Accruals															
	b Adjusted System Generation (Line 1e + Line 2a)															
	c Retail Jurisdictional Factor : Generation	92.885%														
	d Retail Uncollected Investment: Generation															
3	Uncollected Investment : Transmission															
	a Prior Period Construction Balance YE 2015															
	b Wind-Down Costs															
	c Sale or Salvage of Assets															
	d Disposition															
	e Total															
4	Adjustments															
	a Non-Cash Accruals															
	b Adjusted System Transmission (Line 3e + Line 4a)															
	c Retail Jurisdictional Factor : Transmission	70.203%														
	d Retail Uncollected Investment: Transmission															
5	Total Uncollected Investment															
	a Total Jurisdictional Uncollected Investment (2d + 4d)	219,750,820	2,070	873	1,702	929	929	929	929	929	0	0	0	0	9,289	219,760,108
	b Retail Land Transferred to Land Held for Future Use	(66,221,330)	0	0	0	0	0	0	0	0	0	0	0	0	0	(66,221,330)
	c LLE Deferred Balance (b)	(50,275,957)	0	0	0	0	0	0	0	0	0	0	0	0	0	(50,275,957)
	d Total Jurisdictional Uncollected Investment	103,253,533	2,070	873	1,702	929	929	929	929	929	0	0	0	0	9,289	103,262,821
6	Carrying Cost on Uncollected Investment Balance															
	a Uncollected Investment: Additions for the Period (Beg Balance: 2015 Detail Line 5d.)	103,253,533	2,070	873	1,702	929	929	929	929	929	0	0	0	0	9,289	103,262,821
	b Plant-in-Service	1,010,952	0	0	0	0	0	0	0	0	0	0	0	0	0	1,010,952
	c Period Recovered Wind-down / Exit Costs (2014)	9,816,636	0	0	0	0	0	0	0	0	0	0	0	0	0	9,816,636
	d Period Recovered Wind-down / Exit Costs (2015) (included in line 6g)	(4,312,069)	0	0	0	0	0	0	0	0	0	0	0	0	0	(4,312,069)
	e Period Recovered Wind-down / Exit Costs (2016)	0	0	0	0	0	0	0	0	0	0	0	0	0	9,289	9,289
	f Additional Amortization of Uncollected Investment Balance (2014-2015)	(84,653,508)	0	0	0	0	0	0	0	0	0	0	0	0	0	(84,653,508)
	g Prior Period Carrying Charge Unrecovered Balance (a)	(11,552,110)	0	0	0	0	0	0	0	0	0	0	0	0	0	(11,552,110)
	h Prior Period Carrying Charge Recovered	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	i Over/Under Prior Period	0	0	6,298	5,146	6,019	5,290	5,333	5,376	5,418	5,460	4,572	4,608	4,645	62,846	62,846
	j Net Investment	\$532,396	\$534,466	\$539,567	\$545,542	\$550,788	\$556,079	\$561,411	\$566,787	\$572,205	\$576,737	\$581,309	\$585,917	\$590,561		\$595,242
7	Average Net Investment		\$533,431	\$539,131	\$544,691	\$550,324	\$555,614	\$560,947	\$566,323	\$571,741	\$576,737	\$581,309	\$585,917	\$590,561		
8	Return on Average Net Investment															
	a Equity Component	0.00392	2,091	2,113	2,135	2,157	2,178	2,199	2,220	2,241	2,261	2,279	2,297	2,315	26,486	
	b Equity Component Grossed Up For Taxes	1.62800	3,404	3,440	3,476	3,512	3,546	3,580	3,614	3,648	3,681	3,710	3,740	3,769	43,119	
	c Debt Component	0.00155	824	833	842	850	858	867	875	883	891	898	905	912	10,438	
	d Total Return for the Period		4,228	4,273	4,318	4,362	4,404	4,447	4,489	4,531	4,572	4,608	4,645	4,681	53,557	
9	Revenue Requirements for the Period (Lines 6a + 8d)		6,298	5,146	6,019	5,290	5,333	5,376	5,418	5,460	4,572	4,608	4,645	4,681	62,846	
10	Projected Revenue Requirements Recovered for the Period		0	0	0	0	0	0	0	0	0	0	0	0	0	
11	Over/Under Recovery For the Period		6,298	5,146	6,019	5,290	5,333	5,376	5,418	5,460	4,572	4,608	4,645	4,681	62,846	
12	Other Exit / Wind-Down															
	a Accounting		2,348	2,363	2,350	2,350	2,350	2,350	2,350	2,350	2,350	2,350	2,350	2,350	28,211	
	b Corporate Planning		2,277	2,766	2,766	2,766	2,766	2,766	2,766	2,766	2,766	2,766	2,766	2,766	32,703	
	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		4,625	5,129	5,116	5,116	5,116	5,116	5,116	5,116	5,116	5,116	5,116	5,116	\$60,914	
13	Jurisdictional Factor (A&G)		0.93221	0.93221	0.93221	0.93221	0.93221	0.93221	0.93221	0.93221	0.93221	0.93221	0.93221	0.93221		
14	Jurisdictional Amount		4,311	4,781	4,769	4,769	4,769	4,769	4,769	4,769	4,769	4,769	4,769	4,769	56,785	
15	Prior Period Unrecovered Balance (a)	(42,490)	(42,490)	(42,490)	(42,490)	(42,490)	(42,490)	(42,490)	(42,490)	(42,490)	(42,490)	(42,490)	(42,490)	(42,490)	(42,490)	
16	Prior Period Costs Recovered	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17	Prior Month Period (Over)/Under Recovery		0	4,298	4,769	4,758	4,760	4,762	4,763	4,765	4,767	4,768	4,770	4,772		
18	Unamortized Balance	(42,490)	(42,490)	(38,192)	(33,423)	(28,665)	(23,905)	(19,143)	(14,380)	(9,615)	(4,848)	(80)	4,690	9,462		
19	Projected Carrying Costs for the Period															
	a Balance Eligible for Interest		(40,334)	(35,801)	(31,038)	(26,280)	(21,520)	(16,758)	(11,995)	(7,230)	(2,463)	2,305	7,075	11,847		
	b Monthly Commercial Paper Rate		0.03%	0.04%	0.04%	0.04%	0.04%	0.04%	0.04%	0.04%	0.04%	0.04%	0.04%	0.04%		
	c Interest Provision		(13)	(13)	(11)	(9)	(8)	(6)	(4)	(3)	(1)	1	2	4	(60)	
	d Total Costs and Interest (Line 14 + Line 19c)		4,298	4,769	4,758	4,760	4,762	4,763	4,765	4,767	4,768	4,770	4,772	4,773	56,725	
20	Projected Revenue Requirements Recovered for the Period		0	0	0	0	0	0	0	0	0	0	0	0	0	
21	Over/Under Recovery For the Period		4,298	4,769	4,758	4,760	4,762	4,763	4,765	4,767	4,768	4,770	4,772	4,773	56,725	
22	Revenue Requirements for the Period (Line 9 + Line 19d)		10,596	9,915	10,778	10,050	10,094	10,139	10,183	10,227	9,340	9,378	9,416	9,454	119,571	

(a) See Appendix A for Beginning Balance Support
(b) This amount represents deferral of \$54M as contemplated in DEF's March 2, 2015 Petition.

DUKE ENERGY FLORIDA
Nuclear Cost Recovery Clause (NCRC) - Levy Nuclear Units 1 & 2
2017 Detail - Calculation of the Revenue Requirements
January 2017 through December 2017

Witness: T.G. Foster / C. Fallon
Docket No. 160009-EI
Exhibit: (TGF- 3)

Line	Description	Beginning of Period Amount	Projected January 2017	Projected February 2017	Projected March 2017	Projected April 2017	Projected May 2017	Projected June 2017	Projected July 2017	Projected August 2017	Projected September 2017	Projected October 2017	Projected November 2017	Projected December 2017	Period Total	End of Period Total
1	Uncollected Investment : Generation															
	a Prior Period Construction Balance YE 2016															
	b Wind-Down Costs															
	c Sale or Salvage of Assets															
	d Disposition															
	e Total															
2	Adjustments															
	a Non-Cash Accruals															
	b Adjusted System Generation (Line 1e + Line 2a)															
	c Retail Jurisdictional Factor : Generation	92.885%														
	d Retail Uncollected Investment: Generation															
3	Uncollected Investment : Transmission															
	a Prior Period Construction Balance YE 2016															
	b Wind-Down Costs															
	c Sale or Salvage of Assets															
	d Disposition															
	e Total															
4	Adjustments															
	a Non-Cash Accruals															
	b Adjusted System Transmission (Line 3e + Line 4a)															
	c Retail Jurisdictional Factor : Transmission	70.203%														
	d Retail Uncollected Investment: Transmission															
5	Total Uncollected Investment															
	a Total Jurisdictional Uncollected Investment (2d + 4d)	219,760,108	0	0	0	0	0	0	0	0	0	0	0	0	0	219,760,108
	b Retail Land Transferred to Land Held for Future Use	(66,221,330)	0	0	0	0	0	0	0	0	0	0	0	0	0	(66,221,330)
	c LLE Deferred Balance (b)	(50,275,957)	0	0	0	0	0	0	0	0	0	0	0	0	0	(50,275,957)
	d Total Jurisdictional Uncollected Investment	103,262,821	0	0	0	0	0	0	0	0	0	0	0	0	0	103,262,821
6	Carrying Cost on Uncollected Investment Balance															
	a Uncollected Investment: Additions for the Period (Beg Balance: Line 6a.)	103,262,821	0	0	0	0	0	0	0	0	0	0	0	0	0	103,262,821
	b Plant-in-Service	1,010,952	0	0	0	0	0	0	0	0	0	0	0	0	0	1,010,952
	c Period Recovered Wind-down / Exit Costs (2014 & 2015)	5,504,567	0	0	0	0	0	0	0	0	0	0	0	0	0	5,504,567
	d Amortization of Uncollected Investment (2014-2015)	(84,653,508)	0	0	0	0	0	0	0	0	0	0	0	0	0	(84,653,508)
	e Period Recovered Wind-down / Exit Costs (2016) (Included in 6f)	9,289	0	0	0	0	0	0	0	0	0	0	0	0	0	9,289
	f Prior Period Carrying Charge Unrecovered Balance (a)	(11,489,264)	0	0	0	0	0	0	0	0	0	0	0	0	0	(11,489,264)
	g Prior Period Carrying Charge Recovered	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	h Uncollected Return from the Prior Period	0	0	4,718	4,756	4,792	4,831	4,869	4,908	4,948	4,987	5,026	5,065	5,106	59,152	59,152
	i Net Investment	\$595,242	\$595,242	\$599,960	\$604,716	\$609,509	\$614,340	\$619,209	\$624,117	\$629,065	\$634,052	\$639,077	\$644,142	\$649,248		\$654,394
7	Average Net Investment		\$595,242	\$599,960	\$604,716	\$609,509	\$614,340	\$619,209	\$624,117	\$629,065	\$634,052	\$639,077	\$644,142	\$649,248		
8	Return on Average Net Investment															
	a Equity Component	0.00392	2,333	2,352	2,370	2,389	2,408	2,427	2,447	2,466	2,485	2,505	2,525	2,545	29,252	
	b Equity Component Grossed Up For Taxes	1.62800	3,798	3,829	3,858	3,889	3,920	3,951	3,984	4,015	4,046	4,078	4,111	4,143	47,622	
	c Debt Component	0.00155	920	927	934	942	949	957	964	972	980	987	995	1,003	11,530	
	d Total Return for the Period		4,718	4,756	4,792	4,831	4,869	4,908	4,948	4,987	5,026	5,065	5,106	5,146	59,152	
9	Revenue Requirements for the Period (Line 6a + Line 8d)		4,718	4,756	4,792	4,831	4,869	4,908	4,948	4,987	5,026	5,065	5,106	5,146	59,152	
10	Other Exit / Wind-Down															
	a Accounting		2,444	2,444	2,444	2,444	2,444	2,444	2,444	2,444	2,444	2,444	2,444	2,444	29,328	
	b Corporate Planning		2,807	2,807	2,807	2,807	2,807	2,807	2,807	2,807	2,807	2,807	2,807	2,807	33,684	
	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		5,251	5,251	5,251	5,251	5,251	5,251	5,251	5,251	5,251	5,251	5,251	5,251	\$63,012	
11	Jurisdictional Factor (A&G)		0.93221	0.93221	0.93221	0.93221	0.93221	0.93221	0.93221	0.93221	0.93221	0.93221	0.93221	0.93221		
12	Jurisdictional Amount		4,895	4,895	4,895	4,895	4,895	4,895	4,895	4,895	4,895	4,895	4,895	4,895	58,741	
13	Prior Period Unrecovered Balance (a)	14,235	14,235	14,235	14,235	14,235	14,235	14,235	14,235	14,235	14,235	14,235	14,235	14,235	14,235	
14	Prior Period Costs Recovered		0	0	0	0	0	0	0	0	0	0	0	0	0	
15	Prior Month Period (Over)/Under Recovery		0	4,901	4,903	4,904	4,906	4,908	4,909	4,911	4,913	4,915	4,916	4,918		
16	Unamortized Balance	14,235	14,235	19,136	24,039	28,943	33,849	38,757	43,666	48,578	53,490	58,405	63,321	68,239		
17	Projected Carrying Costs for the Period															
	a Balance Eligible for Interest		16,683	21,584	26,486	31,391	36,297	41,204	46,114	51,025	55,938	60,853	65,769	70,687		
	b Monthly Commercial Paper Rate		0.04%	0.04%	0.04%	0.04%	0.04%	0.04%	0.04%	0.04%	0.04%	0.04%	0.04%	0.04%		
	c Interest Provision		6	8	9	11	13	14	16	18	20	21	23	25	183	
	d Total Costs and Interest (Line 12 + Line 17c)		4,901	4,903	4,904	4,906	4,908	4,909	4,911	4,913	4,915	4,916	4,918	4,920	58,924	
18	Other Exit / Wind-Down Revenue Requirements for the Period		4,901	4,903	4,904	4,906	4,908	4,909	4,911	4,913	4,915	4,916	4,918	4,920	58,924	
19	Total Revenue Requirements for the Period (Line 9 + Line 18)		9,619	9,659	9,697	9,737	9,777	9,818	9,859	9,900	9,940	9,981	10,024	10,066	118,076	

(a) See Appendix A for Beginning Balance Support
(b) This amount represents deferral of \$54M as contemplated in DEF's March 2, 2015 Petition.

DUKE ENERGY FLORIDA
Nuclear Cost Recovery Clause (NCRC) - Levy Nuclear Units 1 & 2
2016 Detail - Calculation of the Revenue Requirements - LLE Deferred Balance
January 2016 through December 2016

Witness: T.G. Foster
Docket No. 160009-EI
Exhibit: (TGF- 3)

Line	Description	Beginning of Period Amount	Actual January 2016	Actual February 2016	Projected March 2016	Projected April 2016	Projected May 2016	Projected June 2016	Projected July 2016	Projected August 2016	Projected September 2016	Projected October 2016	Projected November 2016	Projected December 2016	Period Total	End of Period Total
1	Uncollected Investment : LLE Deferred Balance															
	a Uncollected Investment: LLE Deferred Balance (\$54M System)	50,275,957	0	0	0	0	0	0	0	0	0	0	0	0	0	50,275,957
	b Prior Period Carrying Charge Unrecovered Balance	3,153,738	0	0	0	0	0	0	0	0	0	0	0	0	0	3,153,738
	c Prior Period Carrying Charge Recovered	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	d Over/Under Prior Period		0	423,524	426,882	430,266	433,677	437,115	440,579	444,071	447,592	451,140	454,715	458,319	5,309,833	5,309,833
	e Net Investment	\$53,429,695	\$53,429,695	\$53,853,219	\$54,280,101	\$54,710,367	\$55,144,044	\$55,581,159	\$56,021,738	\$56,465,809	\$56,913,401	\$57,364,541	\$57,819,256	\$58,277,575		\$58,739,528
2	Average Net Investment	\$53,429,695	\$53,429,695	\$53,853,219	\$54,280,101	\$54,710,367	\$55,144,044	\$55,581,159	\$56,021,738	\$56,465,809	\$56,913,401	\$57,364,541	\$57,819,256	\$58,277,575		
3	Return on Average Net Investment															
	a Equity Component	0.00392	209,444	211,105	212,778	214,465	216,165	217,878	219,605	221,346	223,101	224,869	226,651	228,448	2,625,855	
	b Equity Component Grossed Up For Taxes	1.62800	340,975	343,679	346,403	349,149	351,917	354,706	357,517	360,352	363,209	366,087	368,988	371,914	4,274,896	
	c Debt Component	0.00155	82,549	83,203	83,863	84,528	85,198	85,873	86,554	87,240	87,931	88,628	89,331	90,039	1,034,937	
	d Total Return for the Period		423,524	426,882	430,266	433,677	437,115	440,579	444,071	447,592	451,140	454,715	458,319	461,953	5,309,833	
4	Revenue Requirements for the Period (Line 3d)		423,524	426,882	430,266	433,677	437,115	440,579	444,071	447,592	451,140	454,715	458,319	461,953	5,309,833	
5	Projected Revenue Collected for the Period		0	0	0	0	0	0	0	0	0	0	0	0	0	
6	Over/Under Recovery For the Period		423,524	426,882	430,266	433,677	437,115	440,579	444,071	447,592	451,140	454,715	458,319	461,953	5,309,833	

DUKE ENERGY FLORIDA
Nuclear Cost Recovery Clause (NCRC) - Levy Nuclear Units 1 & 2
2017 Detail - Calculation of the Revenue Requirements - LLE Deferred Balance
January 2017 through December 2017

Witness: T.G. Foster
Docket No. 160009-EI
Exhibit: (TGF- 3)

Line	Description	Beginning of Period Amount	Projected January 2017	Projected February 2017	Projected March 2017	Projected April 2017	Projected May 2017	Projected June 2017	Projected July 2017	Projected August 2017	Projected September 2017	Projected October 2017	Projected November 2017	Projected December 2017	Period Total	End of Period Total
1	Uncollected Investment : LLE Deferred Balance															
	a Uncollected Investment: LLE Deferred Balance	50,275,957	0	0	0	0	0	0	0	0	0	0	0	0	0	50,275,957
	b Prior Period Carrying Charge Unrecovered Balance	8,463,571	0	0	0	0	0	0	0	0	0	0	0	0	0	8,463,571
	c Prior Period Carrying Charge Recovered	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	d Over/Under Prior Period		0	465,615	469,305	473,026	476,775	480,554	484,364	488,203	492,073	495,973	499,904	503,867	5,837,520	5,837,520
	e Net Investment	\$58,739,528	\$58,739,528	\$59,205,143	\$59,674,448	\$60,147,474	\$60,624,249	\$61,104,802	\$61,589,166	\$62,077,370	\$62,569,442	\$63,065,416	\$63,565,320	\$64,069,187		\$64,577,048
2	Average Net Investment	58,739,528	\$58,739,528	\$59,205,143	\$59,674,448	\$60,147,474	\$60,624,249	\$61,104,802	\$61,589,166	\$62,077,370	\$62,569,442	\$63,065,416	\$63,565,320	\$64,069,187		
3	Return on Average Net Investment															
	a Equity Component	0.00392	230,259	232,084	233,924	235,778	237,647	239,531	241,430	243,343	245,272	247,216	249,176	251,151	2,886,811	
	b Equity Component Grossed Up For Taxes	1.62800	374,862	377,833	380,829	383,847	386,890	389,957	393,048	396,163	399,303	402,468	405,659	408,874	4,699,733	
	c Debt Component	0.00155	90,753	91,472	92,197	92,928	93,664	94,407	95,155	95,910	96,670	97,436	98,208	98,987	1,137,787	
	d Total Return for the Period		465,615	469,305	473,026	476,775	480,554	484,364	488,203	492,073	495,973	499,904	503,867	507,861	5,837,520	
4	Revenue Requirements for the Period (Line 3d)		465,615	469,305	473,026	476,775	480,554	484,364	488,203	492,073	495,973	499,904	503,867	507,861	5,837,520	
5	Projected Revenue Collected for the Period		0	0	0	0	0	0	0	0	0	0	0	0	0	
6	Over/Under Recovery For the Period		465,615	469,305	473,026	476,775	480,554	484,364	488,203	492,073	495,973	499,904	503,867	507,861	5,837,520	

2016

Line No.

Unrecovered Investment Beginning Balance for Carrying Cost Calculation

6g. Prior Period Unrecovered Balance	\$ (11,552,110)	
Prior Period Carrying Charge Unrecovered Balance	(7,587,574)	Exhibit TGF-1 Filed March 1, 2016 Line 6f.
Over/Under Recovery For the Period	(3,964,535)	Exhibit TGF-1 Filed March 1, 2016 Line 11.
Other Exit & Wind-Down Costs		
15. Prior Period (Over)/Under Recovery	\$ (42,490)	
Prior Period (Over)/Under Recovery	(119,590)	Exhibit TGF-1 Filed March 1, 2016 Line 15.
Over/Under Recovery For the Period	77,100	Exhibit TGF-1 Filed March 1, 2016 Line 21.

2017

Line No.

Unrecovered Investment Beginning Balance for Carrying Cost Calculation

6f. Prior Period Unrecovered Balance	\$ (11,489,264)	
Monthly amount to recover		
Prior Period Carrying Charge Unrecovered Balance	(11,552,110)	Line 6g. 2016 Detail
Over/Under Recovery For the Period	62,846	Line 11 2016 Detail
Other Exit & Wind-Down Costs		
13. Prior Period (Over)/Under Recovery	\$ 14,235	
Prior Period (Over)/Under Recovery	(42,490)	Line 15. 2016 Detail
Over/Under Recovery For the Period	56,725	Line 21. 2016 Detail

LEVY COUNTY NUCLEAR 1 & 2

Estimated / Actual Filing: Other Exit / Wind-Down Expenditures Allocated or Assigned to Other Recovery Mechanisms

EXPLANATION: Provide variance explanations comparing the actual system total expenditures shown on 2016 Detail Schedule with the expenditures provided to the Commission in the 2016 Detail Projection Schedules.

Appendix B
 Witness: Thomas G. Foster
 Docket No. 160009-EI
 Exhibit: (TGF - 3)

COMPANY:
 Duke Energy Florida

DOCKET NO.:
 160009-EI

For Year Ended 12/31/2016

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	\$82,400	\$28,211	(\$54,189)	DEF estimates fewer hours for wind-down activities than originally projected.
2	Corporate Planning	63,381	32,703	(30,678)	DEF estimates fewer hours for wind-down activities than originally projected.
3	Legal	25,000	0	(25,000)	DEF estimates fewer hours for outside counsel than originally projected.
4	Total	\$170,781	\$60,914	(\$109,867)	Overall minor variance from estimated amount.

Note:
 System Projection from May 1, 2015 Filing in Docket No. 150009-EI.

	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	\$5,121,368,708	\$4,728,678,443	(\$813,120,301)	\$763,931,668	\$4,679,489,809	46.18%	9.50%	4.39%	10.50%	4.85%	11.50%	5.31%
Long Term Debt	4,095,530,150	3,781,497,923	(650,247,795)		3,131,250,128	30.90%	6.01%	1.86%	6.01%	1.86%	6.01%	1.86%
Short Term Debt *	813,100,000	750,754,078	(129,095,981)	24,391,702	646,049,799	6.38%	0.17%	0.01%	0.17%	0.01%	0.17%	0.01%
Customer Deposits						0	0		0		0	
Active	222,269,727	222,269,727	(38,220,410)		184,049,317	1.82%	2.28%	0.04%	2.28%	0.04%	2.28%	0.04%
Inactive	1,603,209	1,603,209	(275,680)		1,327,529	0.01%						
Investment Tax Credits **	279,513	258,080	(44,378)		213,702	0.00%						
Deferred Income Taxes	2,459,670,709	2,271,070,981	(390,522,202)	(227,481,417)	1,653,067,362	16.31%						
FAS 109 DIT - Net	(212,127,588)	(195,862,319)	33,679,522		(162,182,798)	-1.60%						
Total	\$12,501,694,427	\$11,560,270,121	(\$1,987,847,225)	\$560,841,953	\$10,133,264,848	100.00%		6.30%		6.76%		7.22%

* Daily Weighted Average

** Cost Rates Calculated Per IRS Ruling

Equity	4.85%
Debt	1.91%
Total	6.76%

LEVY COUNTY NUCLEAR 1 & 2
Site Selection, Preconstruction Costs, and Carrying Costs on Construction Cost Balance
Estimated / Actual Filing: Description of Monthly Cost Additions

EXPLANATION: Provide a description of the major tasks performed within these Categories for the year.
 List generation expenses separate from transmission

Appendix D
 Witness: C. Fallon
 Exhibit: (TGF - 3)
 (Page 1 of 2)

COMPANY:
 Duke Energy Florida

DOCKET NO.:
 160009-EI

For Year Ended 12/31/2016

Line No.	Major Task & Description for amounts on 2016 Detail Schedule	Description
----------	---	-------------

Generation:

- | | | |
|---|---------------------------|--|
| 1 | Wind-Down Costs | Spend performed in accordance with Rule 25-6.0423(7). |
| 2 | Sale or Salvage of Assets | The amount of proceeds received from either selling, transferring or otherwise receiving salvage value for the nuclear assets. |
| 3 | Disposition | The cost of winding-down and exiting the nuclear project contracts |

Transmission:

- | | | |
|---|---------------------------|--|
| 1 | Wind-Down Costs | Spend performed in accordance with Rule 25-6.0423(7). |
| 2 | Sale or Salvage of Assets | The amount of proceeds received from either selling, transferring or otherwise receiving salvage value for the nuclear assets. |
| 3 | Disposition | The cost of winding-down and exiting the nuclear project contracts |

LEVY COUNTY NUCLEAR 1 & 2
Site Selection, Preconstruction Costs, and Carrying Costs on Construction Cost Balance
Est/Act Filing: Regulatory Asset Category - Variance in Additions and Expenditures

REDACTED

EXPLANATION: Provide variance explanations comparing the annual system total expenditures shown on 2016 Detail Schedule with the expenditures provided to the Commission on 2016 Projection Detail schedule. List the Generation expenses separate from Transmission in the same order appearing on 2016 Detail Schedule.

Appendix D
 Witness: C. Fallon
 Exhibit: (TGF - 3)
 (Page 2 of 2)

COMPANY:
 Duke Energy - FL

DOCKET NO.:
 160009-EI

For Year Ended 12/31/2015

Line No.	Major Task & Description for amounts on Schedule	(A) System Projection	(B) System Estimated / Actual	(C) Variance Amount	(D) Explanation
<u>Generation:</u>					
1	Wind-Down Costs				Minimal project management costs to wind-down LNP
2	Sale or Salvage of Assets				
3	Disposition				
4	<u>Total Generation Costs</u>				
<u>Transmission:</u>					
1	Wind-Down Costs				
2	Sale or Salvage of Assets				
3	Disposition				
4	<u>Total Transmission Costs</u>				

Note:
 System Projection from May 1, 2015 Filing in Docket No. 150009-EI.

LEVY COUNTY NUCLEAR 1 & 2
Projection Filing: Contracts Executed

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 verification, and current status of the contract.
COMPANY: the identity and affiliation of the vendor, and current status of the contract.

Duke Energy Florida

DOCKET NO.:
160009-EI

Appendix E
Witness: C. Fallon
Docket No. 160009-EI
Exhibit: (TGF - 3)

For Year Ended: 12/31/2016

All existing contracts have been closed-out.

Costs or credits associated with terminating the EPC contract and related long lead equipment purchase orders are subject to litigation in federal court and are unknown at this time.

SCHEDULE APPENDIX

EXHIBIT (TGF-4)

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

**JANUARY 2016 - DECEMBER 2017
DOCKET NO. 160009-EI**

Table of Contents
Crystal River Unit 3 Uprate
January 2016 - December 2017

<u>Page(s)</u>	<u>Schedule</u>	<u>Description</u>	<u>Sponsor</u>
3	2017 Summary	2017 Revenue Requirement Summary	T. G. Foster
4	2016 Detail	2016 Detail Revenue Requirement Calculations	T. G. Foster / M. Teague
5	2017 Detail	2017 Detail Revenue Requirement Calculations	T. G. Foster / M. Teague
6	2017 Rate Impact	2017 Estimated Rate Impact	T. G. Foster
7	Appendix A	Detail for 2016 & 2017 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	M. Teague
12	Appendix E	Summary of Contracts and Details over \$1 Million	M. Teague
13	Appendix F	2013 - 2019 Unrecovered Investment Amortization Schedule	T. G. Foster

**CR3 Uprate
2017 Summary
Duke Energy Florida**

Witness: Thomas G. Foster
Docket No. 160009-EI
Exhibit: (TGF- 4)

(1) Amortization of Unrecovered Balance	43,681,007	See 2017 Detail line 3d
(2) Period Carrying Cost on Unrecovered Investment	10,234,917	See 2017 Detail line 5d
(3) Period Exit Costs	-	See 2017 Detail line 3c
(4) Period Other Exit / Wind-Down Costs incl. Interest	54,708	See 2017 Detail line 13d
(5) Prior Period Over/Under Recoveries	<u>(2,270,300)</u>	See 2017 Detail lines: 3e and 10
(6) Total 2017 Revenue Requirement	51,700,333	
(7) Revenue Tax Multiplier	1.00072	
(8) Total 2017 Projected Revenue Requirements	<u><u>51,737,557</u></u>	

DUKE ENERGY FLORIDA
Nuclear Cost Recovery Clause (NCRC) - CR3 Uprate
2016 Detail - Calculation of the Revenue Requirements
January 2016 through December 2016

Witness: T.G. Foster / M. Teague
Docket No. 160009-EI
Exhibit: (TGF- 4)

Line	Description	Beginning of Period Amount	Actual January 16	Actual February 16	Estimated March 16	Estimated April 16	Estimated May 16	Estimated June 16	Estimated July 16	Estimated August 16	Estimated September 16	Estimated October 16	Estimated November 16	Estimated December 16	Period Total
1	Uncollected Investment														
	a EPU Construction & Wind-Down Costs	377,363,975	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	374,334,617	0	0	0	0	0	0	0	0	0	0	0	0	\$0
2	Adjustments														
	a Non-Cash Accruals	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0
	b Joint Owner Credit	(29,982,935)	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	316,243,034	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
	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 & 2015 Portion of Regulatory Asset	(87,883,854)	0	0	0	0	0	0	0	0	0	0	0	0	(87,883,854)
	i Total Jurisdictional Unrecovered Investment	204,197,287	0	0	0	0	0	0	0	0	0	0	0	0	204,197,287
	j Net Refund - 2014 Investment (Collected in 2015)	(488,483)	0	0	0	0	0	0	0	0	0	0	0	0	(488,483)
	k Net Refund - 2015 Investment - (Value is a part of Line 3e)	(1,477,805)	0	0	0	0	0	0	0	0	0	0	0	0	(1,477,805)
3	Carrying Cost on Unrecovered Investment Balance														
	a Uncollected Investment	204,197,287	0	0	0	0	0	0	0	0	0	0	0	0	204,197,287
	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)	(3,640,084)	(43,681,007)
	e Prior Period Carrying Charge Unrecovered Balance (a)	(3,622,279)	(3,453,164)	(3,284,049)	(3,114,935)	(2,945,820)	(2,776,705)	(2,607,591)	(2,438,476)	(2,269,361)	(2,100,247)	(1,931,132)	(1,762,017)	(1,592,903)	(1,592,903)
	f Prior Period Carrying Charge Recovered (a)	(2,029,376)	(169,115)	(169,115)	(169,115)	(169,115)	(169,115)	(169,115)	(169,115)	(169,115)	(169,115)	(169,115)	(169,115)	(169,115)	(169,115)
	g Prior Period Under/(Over) Recovery (Prior Month)			(49,624)	(49,266)	(48,901)	(48,537)	(48,166)	(47,795)	(47,421)	(47,043)	(46,663)	(46,279)	(45,892)	(571,088)
	h Net Investment	\$170,579,912	\$167,108,943	\$163,588,349	\$160,068,114	\$156,548,244	\$153,028,738	\$149,509,603	\$145,990,839	\$142,472,449	\$138,954,437	\$135,436,804	\$131,919,556	\$128,402,694	\$128,357,192
4	Average Net Investment		\$168,844,427	\$165,323,834	\$161,803,599	\$158,283,729	\$154,764,223	\$151,245,088	\$147,726,324	\$144,207,933	\$140,689,921	\$137,172,289	\$133,655,040	\$130,138,179	
5	Return on Average Net Investment														
	a Equity Component	0.00392	661,870	648,069	634,270	620,472	606,676	592,881	579,087	565,295	551,504	537,715	523,928	510,142	7,031,909
	b Equity Component Grossed Up For Taxes	1.62800	1,077,525	1,055,057	1,032,593	1,010,129	987,670	965,211	942,755	920,301	897,849	875,401	852,956	830,512	11,447,959
	c Debt Component	0.00155	260,865	255,425	249,987	244,548	239,111	233,674	228,237	222,801	217,366	211,931	206,497	201,063	2,771,505
	d Total Return		1,338,390	1,310,482	1,282,580	1,254,677	1,226,781	1,198,885	1,170,992	1,143,102	1,115,215	1,087,332	1,059,453	1,031,575	14,219,463
6	Revenue Requirements for the Period (Lines 3a + 5d)		\$1,338,390	\$1,310,482	\$1,282,580	\$1,254,677	\$1,226,781	\$1,198,885	\$1,170,992	\$1,143,102	\$1,115,215	\$1,087,332	\$1,059,453	\$1,031,575	\$14,219,464
7	Projected Revenue Requirements for the Period (Order No. PSC 15-0521-FOF-EI)		\$1,388,014	\$1,359,748	\$1,331,480	\$1,303,214	\$1,274,947	\$1,246,680	\$1,218,413	\$1,190,145	\$1,161,879	\$1,133,611	\$1,105,345	\$1,077,077	\$14,790,552
8	Over/Under Recovery For the Period		(\$49,624)	(\$49,266)	(\$48,901)	(\$48,537)	(\$48,166)	(\$47,795)	(\$47,421)	(\$47,043)	(\$46,663)	(\$46,279)	(\$45,892)	(\$45,502)	(\$571,088)
9	Other Exit / Wind-Down														
	a Accounting		2,348	2,363	2,350	2,350	2,350	2,350	2,350	2,350	2,350	2,350	2,350	2,350	28,211
	b Corporate Planning		2,702	2,812	2,812	2,812	2,812	2,812	2,812	2,812	2,812	2,812	2,812	2,812	33,634
	c Legal		0	0	0	0	0	0	0	0	0	0	0	0	0
	d Joint Owner Credit		(415)	(425)	(424)	(424)	(424)	(424)	(424)	(424)	(424)	(424)	(424)	(424)	(5,083)
	e Total Other Exit / Wind-Down Costs		4,635	4,750	4,738	4,738	4,738	4,738	4,738	4,738	4,738	4,738	4,738	4,738	56,762
10	Jurisdictional Factor (A&G)		0.9322	0.9322	0.9322	0.9322	0.9322	0.9322	0.9322	0.9322	0.9322	0.9322	0.9322	0.9322	
11	Jurisdictional Amount		4,321	4,428	4,417	4,417	4,417	4,417	4,417	4,417	4,417	4,417	4,417	4,417	52,914
12	Prior Period Unrecovered Balance (a)	(131,556)	(127,706)	(123,856)	(120,006)	(116,156)	(112,305)	(108,455)	(104,605)	(100,755)	(96,905)	(93,054)	(89,204)	(85,354)	
13	Prior Period Costs Recovered (a)	(46,202)	(3,850)	(3,850)	(3,850)	(3,850)	(3,850)	(3,850)	(3,850)	(3,850)	(3,850)	(3,850)	(3,850)	(3,850)	
14	Prior Month Period (Over)/Under Recovery		0	(1,835)	(1,727)	(1,739)	(1,739)	(1,739)	(1,739)	(1,739)	(1,739)	(1,739)	(1,740)	(1,740)	
15	Unamortized Balance	(131,556)	(127,706)	(125,691)	(123,568)	(121,457)	(119,345)	(117,234)	(115,123)	(113,012)	(110,901)	(108,790)	(106,680)	(104,569)	
16	Carrying Costs for the Period														
	a Balance Eligible for Interest		(127,471)	(125,402)	(123,285)	(121,174)	(119,062)	(116,951)	(114,840)	(112,729)	(110,618)	(108,507)	(106,396)	(104,286)	
	b Monthly Commercial Paper Rate		0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	
	c Interest Provision		(11)	(9)	(9)	(9)	(9)	(9)	(9)	(8)	(8)	(8)	(8)	(8)	(105)
	d Total Costs and Interest (Line 11 + Line 16c)		4,310	4,418	4,407	4,407	4,408	4,408	4,408	4,408	4,408	4,408	4,409	4,409	52,808
17	Recovered (Order No. PSC 15-0521-FOF-EI)		6,145	6,146	6,146	6,146	6,147	6,147	6,147	6,147	6,148	6,148	6,148	6,149	73,763
18	Over/Under Recovery For the Period		(1,835)	(1,727)	(1,739)	(1,739)	(1,739)	(1,739)	(1,739)	(1,739)	(1,739)	(1,740)	(1,740)	(1,740)	(20,955)
19	Revenue Requirements for the Period		1,342,701	1,314,901	1,286,987	1,259,085	1,231,188	1,203,293	1,175,400	1,147,510	1,119,624	1,091,740	1,063,861	1,035,984	14,272,273
20	Period Costs Recovered (Order No. PSC 15-0521-FOF-EI)		1,394,160	1,365,894	1,337,626	1,309,360	1,281,093	1,252,827	1,224,560	1,196,292	1,168,026	1,139,759	1,111,493	1,083,226	14,864,316
21	Over/Under Recovery For the Period		(51,459)	(50,993)	(50,640)	(50,275)	(49,905)	(49,534)	(49,160)	(48,782)	(48,403)	(48,019)	(47,632)	(47,242)	(592,043)

(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
2017 Detail - Calculation of the Revenue Requirements
January 2017 through December 2017

Witness: T.G. Foster / M. Teague
Docket No. 160009-EI
Exhibit: (TGF- 4)

Line	Description	Beginning of Period Amount	Projected January 17	Projected February 17	Projected March 17	Projected April 17	Projected May 17	Projected June 17	Projected July 17	Projected August 17	Projected September 17	Projected October 17	Projected November 17	Projected December 17	Period Total
1	Uncollected Investment														
	a EPU Construction & Wind-Down Costs	377,363,975	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	374,334,617	0	0	0	0	0	0	0	0	0	0	0	0	\$0
2	Adjustments														
	a Non-Cash Accruals	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0
	b Joint Owner Credit	(29,982,935)	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	316,243,034	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 only)	91.683%													
	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 2016	(131,564,861)	0	0	0	0	0	0	0	0	0	0	0	0	(131,564,861)
	i Total Jurisdictional Unrecovered Investment	160,516,279	0	0	0	0	0	0	0	0	0	0	0	0	160,516,279
	j Jurisdictional Recovered Investment (2014 & 2015) (Value is a part of Line 3e)	(1,966,288)	0	0	0	0	0	0	0	0	0	0	0	0	(\$1,966,288)
3	Carrying Cost on Unrecovered Investment Balance														
	a Uncollected Investment	160,516,279	0	0	0	0	0	0	0	0	0	0	0	0	160,516,279
	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)	(3,640,084)	(43,681,007)
	e Prior Period Carrying Charge Unrecovered Balance (a)	(2,163,991)	(1,983,658)	(1,803,326)	(1,622,993)	(1,442,661)	(1,262,328)	(1,081,995)	(901,663)	(721,330)	(540,998)	(360,665)	(180,333)	0	0
	f Prior Period Carrying Charge Recovered	(2,163,991)	(180,333)	(180,333)	(180,333)	(180,333)	(180,333)	(180,333)	(180,333)	(180,333)	(180,333)	(180,333)	(180,333)	(180,333)	0
	g Prior Period Under/(Over) Recovery		0	0	0	0	0	0	0	0	0	0	0	0	0
	h Net Investment	\$128,357,192	\$124,897,441	\$121,437,690	\$117,977,938	\$114,518,187	\$111,058,435	\$107,598,684	\$104,138,933	\$100,679,181	\$97,219,430	\$93,759,679	\$90,299,927	\$86,840,176	\$86,840,176
4	Average Net Investment		\$126,627,317	\$123,167,565	\$119,707,814	\$116,248,063	\$112,788,311	\$109,328,560	\$105,868,808	\$102,409,057	\$98,949,306	\$95,489,554	\$92,029,803	\$88,570,051	
5	Return on Average Net Investment														
	a Equity Component	0.00392	496,379	482,817	469,255	455,692	442,130	428,568	415,006	401,444	387,881	374,319	360,757	347,195	5,061,443
	b Equity Component Grossed Up For Taxes	1.62800	808,106	786,027	763,948	741,867	719,788	697,709	675,630	653,551	631,471	609,392	587,313	565,234	8,240,037
	c Debt Component	0.00155	195,639	190,294	184,949	179,603	174,258	168,913	163,567	158,222	152,877	147,531	142,186	136,841	1,994,880
	d Total Return		1,003,745	976,321	948,897	921,470	894,046	866,622	839,197	811,773	784,348	756,923	729,499	702,075	10,234,917
6	Projected Revenue Requirements for the Period (3a + 5d)		1,003,745	976,321	948,897	921,470	894,046	866,622	839,197	811,773	784,348	756,923	729,499	702,075	10,234,917
7	Other Exit / Wind-Down														
	a Accounting		2,444	2,444	2,444	2,444	2,444	2,444	2,444	2,444	2,444	2,444	2,444	2,444	29,328
	b Corporate Planning		2,887	2,887	2,887	2,887	2,887	2,887	2,887	2,887	2,887	2,887	2,887	2,887	34,643
	c Legal		0	0	0	0	0	0	0	0	0	0	0	0	0
	d Joint Owner Credit		(436)	(436)	(436)	(436)	(436)	(436)	(436)	(436)	(436)	(436)	(436)	(436)	(5,236)
	e Total Other Exit / Wind-Down Costs		4,895	4,895	4,895	4,895	4,895	4,895	4,895	4,895	4,895	4,895	4,895	4,895	58,735
8	Jurisdictional Factor (A&G)		0.9322	0.9322	0.9322	0.9322	0.9322	0.9322	0.9322	0.9322	0.9322	0.9322	0.9322	0.9322	
9	Jurisdictional Amount		4,563	4,563	4,563	4,563	4,563	4,563	4,563	4,563	4,563	4,563	4,563	4,563	54,754
10	Prior Period Unrecovered Balance (a)	(106,309)	(97,450)	(88,591)	(79,732)	(70,873)	(62,013)	(53,154)	(44,295)	(35,436)	(26,577)	(17,718)	(8,859)	0	
11	Prior Period Costs Recovered	(106,309)	(8,859)	(8,859)	(8,859)	(8,859)	(8,859)	(8,859)	(8,859)	(8,859)	(8,859)	(8,859)	(8,859)	(8,859)	(8,859)
12	Unamortized Balance	(106,309)	(97,450)	(88,591)	(79,732)	(70,873)	(62,013)	(53,154)	(44,295)	(35,436)	(26,577)	(17,718)	(8,859)	0	
13	Projected Carrying Costs for the Period														
	a Balance Eligible for Interest		(99,598)	(90,739)	(81,880)	(73,021)	(64,162)	(55,303)	(46,443)	(37,584)	(28,725)	(19,866)	(11,007)	(2,148)	
	b Monthly Commercial Paper Rate		0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	0.01%	
	c Interest Provision		(7)	(7)	(6)	(5)	(5)	(4)	(3)	(3)	(2)	(1)	(1)	(0)	(46)
	d Total Costs and Interest (Line 9 + Line 13c)		4,555	4,556	4,557	4,557	4,558	4,559	4,559	4,560	4,561	4,561	4,562	4,563	54,708
14	Projected Revenue Requirements for the Period		4,555	4,556	4,557	4,557	4,558	4,559	4,559	4,560	4,561	4,561	4,562	4,563	54,708
15	Revenue Requirements for the Period		1,008,300	980,877	953,454	926,028	898,604	871,181	843,757	816,333	788,909	761,484	734,061	706,638	10,289,625

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

DUKE ENERGY FLORIDA
Nuclear Cost Recovery Clause (NCRC) - CR3 Uprate
2017 Projection Filing: Estimated Rate Impact

Witness: T.G. Foster
Docket No. 160009-EI
Exhibit: (TGF- 4)

FLORIDA PUBLIC SERVICE COMMISSION
COMPANY:
DOCKET NO.: 160009-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-4**
For the Year Ended: **12/31/2017**
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)
Residential					
RS-1, RST-1, RSL-1, RSL-2, RSS-1					
Secondary	61.037%	\$31,579,259	20,111,239	0.157	
General Service Non-Demand					
GS-1, GST-1					
Secondary			1,817,672	0.122	
Primary			15,086	0.121	
Transmission			2,987	0.120	
TOTAL GS	4.320%	<u>\$2,235,090</u>	<u>1,835,745</u>		
General Service					
GS-2 Secondary	0.282%	\$145,672	168,851	0.086	
General Service Demand					
GSD-1, GSDT-1, SS-1					
Secondary			11,966,758		0.43
Primary			2,335,682		0.43
Transmission			8,275		0.42
TOTAL GSD	30.789%	<u>\$15,929,230</u>	<u>14,310,715</u>		
Curtable					
CS-1, CST-1, CS-2, CST-2, CS-3, CST-3, SS-3					
Secondary			-		0.35
Primary			127,339		0.35
Transmission			-		0.34
TOTAL CS	0.232%	<u>\$119,838</u>	<u>127,339</u>		
Interruptible					
IS-1, IST-1, IS-2, IST-2, SS-2					
Secondary			84,379		0.34
Primary			1,590,892		0.34
Transmission			263,148		0.33
TOTAL IS	3.163%	<u>\$1,636,525</u>	<u>1,938,419</u>		
Lighting					
LS-1 Secondary	0.178%	\$91,943	382,043	0.024	
	<u>100.000%</u>	<u>51,737,557</u>	<u>38,874,351</u>	<u>0.133</u>	

2016 Over/Under Recovery Beginning Balance Line.

3b Transferred to Plant In-service		\$	29,995,096	
	29,995,096	Exhibit TGF-2 Filed March 1, 2016		Line 3b. Plant in Service
3e Unrecovered Balance Carrying Cost		\$	(3,622,279)	
Prior Period	(1,200,047)	Exhibit TGF-2 Filed March 1, 2016		Line 3e. Prior Period Carrying Charge Unrecovered Balance
Current Period	(2,422,232)	Exhibit TGF-2 Filed March 1, 2016		Line 8 (Over)/Under for the Period
Total	<u>(3,622,279)</u>			
3f Prior Period Carrying Charge Recovered		\$	(2,029,376)	
Total	(2,029,376)	Exhibit TGF-4 Filed May 1, 2015		Line 3f. Prior Period Carrying Charge Recovered
Other Exit / Wind-Down				
12 Prior Period Unrecovered Balance		\$	(131,556)	
Prior Period	(17,919)	Exhibit TGF-2 Filed March 1, 2016		Line 12 Prior Period Unrecovered Balance
Current Period	(113,637)	Exhibit TGF-2 Filed March 1, 2016		Line 18 (Over)/Under for the Period
Total	<u>(131,556)</u>			
13 Prior Period Costs Recovered		\$	(46,202)	
Total	(46,202)	Exhibit TGF-4 Filed May 1, 2015		Line 11. Prior Period Costs Recovered

2017 Over/Under Recovery Beginning Balance

Regulatory Asset Carrying Cost				
3e Unrecovered Balance Carrying Cost		\$	(2,163,991)	
Prior Period	(1,592,903)	Line 3e of 2016 Detail		
Current Period	(571,088)	Line 8 of 2016 Detail		
Total	<u>(2,163,991)</u>			
Other Exit / Wind-Down				
10 Prior Period (Over)/Under Recovery		\$	(106,309)	
Prior Period	(85,354)	Line 12 of 2016 Detail		
Current Period	(20,955)	Line 18 of 2016 Detail		
Total	<u>(106,309)</u>			

Annual Amortization Calculation

TGF-3 Filed March 1, 2014			YE 2013 - Actual
1 Net Investment	Lines 2f + 2g (TGF-4) 2016 Detail	\$	292,081,140
2 Less: Transferred to Plant-in-Service	Line 3b (TGF-4) 2016 Detail		<u>29,995,096</u>
3 Investment to Amortize	(2014 through 2019)	\$	262,086,044
4 Annual Amortization (2015 -2018)	Line 3d (TGF-4) 2016 Detail & 2017 Detail	\$	<u><u>43,681,007</u></u>
See Appendix F for Amortization Detail 2013-2019			
2016 BB Investment prior to CY Amort		\$	174,202,191
2016 Additions			<u>-</u>
Total (Exclusive of Prior Period Over/Under Recoveries)			174,202,191
Less: 2016 Amortization			<u>43,681,007</u>
Less: Collection of Wind-Down / Exit Costs 2016			<u>-</u>
2016 EB Unrecovered Investment (Exclusive of Prior Period O/U Recoveries)		\$	<u>130,521,183</u>
(Over)/Under Recovery for the Period 2016	(2016 Detail: Line 3e & 3g)	\$	<u><u>(2,163,991)</u></u>
2016 EB Unrecovered Investment	(Period Total 2016 Detail: Line 3h)	\$	<u>128,357,192</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 actual system total expenditures shown on 2016 Detail Schedule with the expenditures provided to the Commission in the 2016 Detail Projection Schedules.

Appendix B
Witness: Thomas G. Foster
Docket No. 160009-EI
Exhibit: (TGF - 4)

COMPANY:
Duke Energy Florida

DOCKET NO.:
160009-EI

For Year Ended 12/31/2016

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	\$41,200	\$28,211	(\$12,989)	Minor variance from estimated amount.
2	Corporate Planning	30,035	33,634	3,599	Minor variance from estimated amount.
3	Legal	15,000	0	(15,000)	Minor variance from estimated amount.
4	<u>Total</u>	<u>\$86,235</u>	<u>\$61,845</u>	<u>(\$24,390)</u>	

Note:
System Projection from May 1, 2015 Filing in Docket No. 150009-EI.

DUKE ENERGY FLORIDA
 End of Period - Capital Structure
 FPSC Adjusted Basis
 December 2015

Appendix C
 Witness: Thomas G. Foster
 Docket No. 160009-EI
 (TGF - 4)

	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	\$5,121,368,708	\$4,728,678,443	(\$813,120,301)	\$763,931,668	\$4,679,489,809	46.18%	9.50%	4.39%	10.50%	4.85%	11.50%	5.31%
Long Term Debt	4,095,530,150	3,781,497,923	(650,247,795)		3,131,250,128	30.90%	6.01%	1.86%	6.01%	1.86%	6.01%	1.86%
Short Term Debt *	813,100,000	750,754,078	(129,095,981)	24,391,702	646,049,799	6.38%	0.17%	0.01%	0.17%	0.01%	0.17%	0.01%
Customer Deposits						0	0	0	0	0	0	0
Active	222,269,727	222,269,727	(38,220,410)		184,049,317	1.82%	2.28%	0.04%	2.28%	0.04%	2.28%	0.04%
Inactive	1,603,209	1,603,209	(275,680)		1,327,529	0.01%						
Investment Tax Credits **	279,513	258,080	(44,378)		213,702	0.00%						
Deferred Income Taxes	2,459,670,709	2,271,070,981	(390,522,202)	(227,481,417)	1,653,067,362	16.31%						
FAS 109 DIT - Net	(212,127,588)	(195,862,319)	33,679,522		(162,182,798)	-1.60%						
Total	\$12,501,694,427	\$11,560,270,121	(\$1,987,847,225)	\$560,841,953	\$10,133,264,848	100.00%		6.30%		6.76%		7.22%

* Daily Weighted Average

** Cost Rates Calculated Per IRS Ruling

Equity	4.85%
Debt	1.91%
Total	6.76%

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 2016 Detail Schedule.

Appendix D
 Witness: M. Teague
 Docket No. 160009-EI
 Exhibit: (TGF - 4)
 (Page 1 of 2)

COMPANY:
 Duke Energy Florida

DOCKET NO.:
 160009-EI

For Year Ended 12/31/2016

Line No.	Major Task & Description for amounts on 2016 Detail Schedule	Description
----------	---	-------------

Generation:

- | | | |
|---|------------------------------------|---|
| 1 | EPU Construction & 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 2016 Detail Schedule with the expenditures provided to the Commission on 2016 Projection Detail schedule. List the Generation expenses separate from Transmission in the same order appearing on 2016 Detail Schedule.

COMPANY: Duke Energy Florida

Appendix D
 Witness: M. Teague
 Docket No. 160009-EI
 Exhibit: (TGF - 4)
 (Page 2 of 2)

DOCKET NO.: 160009-EI For Year Ended 12/31/2016

Line No.	Construction Major Task & Description for amounts on 2016 Detail Schedule	(A) System Projection	(B) System Estimated /Actual	(C) Variance Amount	(D) Explanation
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<u>Generation:</u>					
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, 2015 Filing in Docket No. 150009-EI.

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

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.:

160009-EI

Appendix E
Witness: M. Teague
Docket No. 160009-EI
Exhibit: (TGF - 4)

For Year Ended 12/31/2016

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. 160009-EI

Exhibit: (TGF - 4)

	<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>
Project Investment	\$ 279,911,057	\$ 292,081,140	\$ 291,592,657	\$ 290,114,852	\$ 290,114,852	\$ 290,114,852	\$ 290,114,852
Transferred to Base Rates	<u>(29,985,613)</u>	<u>(29,995,096)</u>	<u>(29,995,096)</u>	<u>(29,995,096)</u>	<u>(29,995,096)</u>	<u>(29,995,096)</u>	<u>(29,995,096)</u>
Beginning Balance -- NCRC	\$ 249,925,444	\$ 262,086,044	\$ 261,597,561	\$ 260,119,756	\$ 260,119,756	\$ 260,119,756	\$ 260,119,756
Prior Period Exit Cost Recoveries	0	0	488,483	1,966,288	1,966,288	1,966,288	1,966,288
Prior Period Amortization Recovery	0	0	(44,202,846)	(87,883,854)	(131,564,861)	(175,245,868)	(218,926,876)
Beginning Balance to be Recovered	\$ 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	0	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)	(43,681,007)	(43,681,007)	(43,159,168)
Ending Balance (calculated)	\$ 262,086,044	\$ 217,883,198	\$ 174,202,190	\$ 130,521,183	\$ 86,840,176	\$ 43,159,168	\$ -

Ending Balance (as shown on Exhibits incl. O/U)	\$ 260,788,581	\$ 216,712,648	\$ 170,579,912	\$ 128,357,192	\$ 86,840,176		
<i>End of Period Carrying Cost (Over)/Under Impacts, Adjustments, & 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)	0		
(Over/Under) Shown in Exhibits			(3,622,279)	(2,163,991)	0		
Variance			(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
Amount of True-Up for 2019	\$ (521,839)