

Stephanie A. Cuello

July 29, 2022

VIA ELECTRONIC FILING

Adam J. Teitzman, Commission Clerk Florida Public Service Commission 2540 Shumard Oak Boulevard Tallahassee, Florida 32399-0850

Re: Environmental Cost Recovery Clause; Docket No. 20220007-EI

Dear Mr. Teitzman:

On behalf of Duke Energy Florida, LLC ("DEF"), please find enclosed for electronic filing in the above-referenced docket, DEF's 2022 Actual/Estimated True-Up Report. The filing includes the following:

- DEF's Petition for Approval of Environmental Cost Recovery Actual/Estimated True-Up for the period January 2022 to December 2022;
- Direct Testimony of Gary P. Dean, Exhibit No. (GPD-3);
- Direct Testimony of Reginald Anderson;
- Direct Testimony of Eric Szkolnyj; and
- Direct Testimony of Kim Spence McDaniel.

Thank you for your assistance in this matter and if you have any questions, please feel free to contact me at (850) 521-1425.

Sincerely,

s/ Stephanie A. Cuello

Stephanie A. Cuello

SAC/mw Attachments



CERTIFICATE OF SERVICE

Docket No. 20220001-EI

I HEREBY CERTIFY that a true and correct copy of the foregoing has been furnished via electronic mail to the following this 20th day of June, 2022.

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BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

In re: Environmental Cost Recovery Clause

Docket No. 20220007-EI Filed: July 29, 2022

DUKE ENERGY FLORIDA'S PETITION FOR APPROVAL OF 2022 ENVIRONMENTAL COST RECOVERY ACTUAL/ESTIMATED TRUE-UP

Duke Energy Florida, LLC ("the Company"), hereby petitions for approval of its Environmental Cost Recovery Clause ("ECRC") actual/estimated true-up for the period January 2022 to December 2022. In support of this Petition, the Company states:

1. As discussed in the testimony of Gary P. Dean filed contemporaneously with this Petition, the Company's total actual/estimated true-up for this period is an over-recovery, including interest, of \$1,250,853.

2. The amount will have added to it the final true-up over-recovery of \$447,153 for 2021 discussed in Mr. Dean's April 1, 2022, Direct Testimony filed in this docket, resulting in a net over-recovery of \$1,698,006. Documentation supporting the actual/estimated and net true-up over-recovery is contained in Commission Schedules 42-1E through 42-9E, which are provided as Exhibit No. __ (GPD-3) to Mr. Dean's testimony of today's date. Additional cost information for specific ECRC programs is presented in the testimonies of Reginald Anderson, Kim Spence McDaniel, and Eric Szkolnyj which also are being filed contemporaneously with this Petition.

2. The ECRC actual/estimated true-up presented in Mr. Dean's testimony and exhibits are consistent with the provisions of Section 366.8255, Florida Statute, and with prior rulings by the Florida Public Service Commission ("the Commission").

WHEREFORE, the Company, respectfully requests that the Commission approve the Company's ECRC actual/estimated true-up over-recovery of \$1,698,006 for the period January

2022 through December 2022 as set forth herein and in the Direct Testimony and supporting

Exhibits of Mr. Dean.

This 29th day of July, 2022.

Respectfully submitted,

<u>s/ Stephanie A. Cuello</u> **DIANNE M. TRIPLETT**Deputy General Counsel
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Attorneys for Duke Energy Florida, LLC

CERTIFICATE OF SERVICE Docket No. 20220007-EI

I HEREBY CERTIFY that a true and correct copy of the foregoing has been furnished via electronic mail to the following this 29th day of July, 2022.

/s/ Matthew R. Bernier Attorney

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BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

DIRECT TESTIMONY OF

GARY P. DEAN

ON BEHALF OF

DUKE ENERGY FLORIDA, LLC

DOCKET NO. 20220007-EI

July 29, 2022

1	Q.	Please state your name and business address.
2	А.	My name is Gary P. Dean. My business address is 299 First Avenue North, St.
3		Petersburg, FL 33701.
4		
5	Q.	By whom are you employed and in what capacity?
6	А.	I am employed by Duke Energy Florida, LLC ("DEF" or the "Company") as Rates
7		and Regulatory Strategy Manager.
8		
9	Q.	Have you previously filed testimony before this Commission in Docket No.
9 10	Q.	Have you previously filed testimony before this Commission in Docket No. 20220007-EI?
9 10 11	Q. A.	Have you previously filed testimony before this Commission in Docket No.20220007-EI?Yes, I provided direct testimony on April 1, 2022.
9 10 11 12	Q. A.	Have you previously filed testimony before this Commission in Docket No.20220007-EI?Yes, I provided direct testimony on April 1, 2022.
9 10 11 12 13	Q. A. Q.	 Have you previously filed testimony before this Commission in Docket No. 20220007-EI? Yes, I provided direct testimony on April 1, 2022. Has your job description, education, background and professional
 9 10 11 12 13 14 	Q. A. Q.	 Have you previously filed testimony before this Commission in Docket No. 20220007-EI? Yes, I provided direct testimony on April 1, 2022. Has your job description, education, background and professional experience changed since that time?
 9 10 11 12 13 14 15 	Q. A. Q. A.	 Have you previously filed testimony before this Commission in Docket No. 20220007-EI? Yes, I provided direct testimony on April 1, 2022. Has your job description, education, background and professional experience changed since that time? No.

1 Q. What is the purpose of your testimony?

2	А.	The purpose of my testimony is to present, for Commission review and approval,
3		Duke Energy Florida, LLC's ("DEF") actual/estimated true-up costs associated
4		with environmental compliance activities for the period January 2022 through
5		December 2022. I also explain the variance between 2022 actual/estimated cost
6		projections versus original 2022 cost projections for SO ₂ /NOx Emission
7		Allowances (Project 5).
8		
9	Q.	Have you prepared or caused to be prepared under your direction,
10		supervision or control any exhibits in this proceeding?
11	A.	Yes. I am sponsoring the following exhibit:
12		1. Exhibit No. (GPD-3), which consists of PSC Forms 42-1E through 42-
13		9E.
14		This exhibit provides detail on DEF's actual/estimated true-up capital and O&M
15		environmental costs and revenue requirements for the period January 2022
16		through December 2022.
17		
18	Q.	What is the actual/estimated true-up amount for which DEF is requesting
19		recovery for the period of January 2022 through December 2022?
20	A.	The 2022 actual/estimated true-up is an over-recovery, including interest, of
21		\$1,250,853 as shown on Form 42-1E, line 4. The final 2021 true-up over-recovery
22		of \$447,153 as shown on Form 42-2E, Line 7a, is added to this total, resulting in
23		a net over-recovery of \$1,698,006 as shown on Form 42-2E, Line 11. The

- calculations supporting the 2022 actual/estimated true-up are on Forms 42-1E
 through 42-9E.
- 3
- Q. What capital structure, components and cost rates did DEF rely on to calculate
 the revenue requirement rate of return for the period January 2022 through
 December 2022?
- A. The capital structure, components and cost rates relied on to calculate the revenue
 requirement rate of return for the period January 2022 through December 2022
 are shown on Form 42-9E. This form includes the derivation of debt and equity
 components used in the Return on Average Net Investment, lines 7 (a) and (b), on
 Form 42-8E. Form 42-9E also cites the source and includes the rationale for using
 the particular capital structure and cost rates.
- 13

14 Q. How do actual/estimated O&M expenditures for January 2022 through 15 December 2022 compare with original projections?

A. Form 42-4E shows that total O&M project costs are estimated to be \$7,993,851.
This is \$500k, or 6% lower than originally projected. This form also lists
individual O&M project variances. Explanations for these variances are included
in the Direct Testimonies of Reginald Anderson, Kim Spence McDaniel, and Eric
Szkolnyj.

- 21
- Q. How do estimated/actual capital recoverable costs for January 2022 through
 December 2022 compare with DEF's original projections?

1	А.	Form 42-6E shows that total recoverable capital costs are estimated to be
2		\$4,404,485. This is \$45k or 1% lower than originally projected. This form also
3		lists individual project variances. The return on investment, depreciation expense
4		and property taxes for each project for the actual/estimated period are provided
5		on Form 42-8E, pages 1 through 18. Explanations for these variances are included
6		in the Direct Testimonies of Mr. Anderson, Ms. McDaniel, and Mr. Szkolnyj.
7		
8	Q.	Please explain the O&M variance between actual project expenditures and
9		the Actual/Estimated projections for the SO ₂ /NOx Emissions Allowance
10		(Project 5).
11	А.	The O&M variance is \$10,383, or 73% lower than projected, due to lower-than-
12		projected SO2 allowance expense.
13		
14	Q.	Does this conclude your testimony?
15	A.	Yes.
16		
17		
18		
19		
20		
21		

Docket No. 20220007-EI Duke Energy Florida Witness: G. P. Dean Exh. No. __ (GPD-3) Page 1 of 18

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

January 2022 - December 2022 Calculation for the Current Period Actual / Estimated Amount Actuals for the Period January 2022 - June 2022 Estimates for the Period July 2022 - December 2022

Docket No. 20220007-EI

Docket No. 20220007-EI Duke Energy Florida Witness: G. P. Dean Exh. No. ___ (GPD-3)

Line	-	Period	Amount
1	Over/(Under) Recovery for the Period (Form 42-2E, Line 5)	\$	1,227,433
2	Interest Provision (Form 42-2E, Line 6)		23,420
3	Sum of Current Period Adjustments (Form 42-2E, Line 10)		0
4	Final True-Up Amount to be Refunded/(Recovered) in the Projection Period January 2023 to December 2023 (Lines 1 + 2 + 3)	\$	1,250,853

Form 42-1E

Page 2 of 18

End-of-Period True-Up Amount (in Dollars)

Line	Description	_	Actual Jan-22	Actual Feb-22	Actual Mar-22	Actual Apr-22	Actual May-22	Actual Jun-22	Estimated Jul-22	Estimated Aug-22	Estimated Sep-22	Estimated Oct-22	Estimated Nov-22	Estimated Dec-22	End of Period Total
1	ECRC Revenues (net of Revenue Taxes)		\$849.098	\$788.076	\$823 978	\$782 706	\$879 649	\$1 045 131	\$1 088 774	\$1 053 664	\$981 877	\$869 823	\$761 224	\$804 202	\$10 728 203
2	True-Un Provision (Order No. PSC-2021-0426-EOE-EI)	1 828 238	152 353	152 353	152 353	152 353	152 353	152 353	152 353	152 353	152 353	152 353	152 353	152 353	1 828 238
3	ECRC Revenues Applicable to Period (Lines 1 + 2)	1,020,200 _	\$1,001,451	940,429	976,331	935,059	1,032,002	1,197,484	1,241,127	1,206,018	1,134,230	1,022,177	913,578	956,555	12,556,440
4	Jurisdictional ECRC Costs a. O & M Activities (Form 42-5E, Line 9) b. Capital Investment Projects (Form 42-7E, Line 9)		\$334,753 306 414	787,439 308 320	209,195	945,526 346 812	620,201 343 169	372,491 341 466	782,134 344 631	730,154 343 676	858,427 343 877	685,288 341 810	446,606 346 333	536,970 344 267	7,309,184 4 019 823
	c. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
	d. Total Jurisdictional ECRC Costs	—	\$641,167	\$1,095,759	\$518,243	\$1,292,338	\$963,370	\$713,957	\$1,126,765	\$1,073,830	\$1,202,304	\$1,027,098	\$792,939	\$881,237	\$11,329,007
5	Over/(Under) Recovery (Line 3 - Line 4d)		\$360,283	(155,330)	458,088	(357,279)	68,632	483,528	114,362	132,188	(68,074)	(4,922)	120,639	75,318	\$1,227,433
6	Interest Provision (Form 42-3E, Line 10)		214	373	699	936	1,314	2,469	3,243	3,205	3,033	2,760	2,625	2,549	23,420
7	Beginning Balance True-Up & Interest Provision		1,828,238	2,036,382	1,729,072	2,035,506	1,526,810	1,444,403	1,778,046	1,743,298	1,726,337	1,508,943	1,354,429	1,325,339	1,828,238
	a. Deferred True-Up - January 2021 to December 2021 (2021 TU filing dated April 1, 2022)		447,153	447,153	447,153	447,153	447,153	447,153	447,153	447,153	447,153	447,153	447,153	447,153	447,153
8	True-Up Collected/(Refunded) (Line 2)	_	(152,353)	(152,353)	(152,353)	(152,353)	(152,353)	(152,353)	(152,353)	(152,353)	(152,353)	(152,353)	(152,353)	(152,353)	(1,828,238)
9	End of Period Total True-Up (Lines 5+6+7+7a+8)	_	\$2,483,535	2,176,225	2,482,659	1,973,963	1,891,556	2,225,199	2,190,451	2,173,491	1,956,097	1,801,582	1,772,492	1,698,006	\$1,698,006
10	Adjustments to Period Total True-Up Including Interest	_	0	0	0	0	0	0	0	0	0	0	0	0	0
11	End of Period Total True-Up (Over/(Under) (Lines 9 + 10)	_	\$2,483,535	\$2,176,225	\$2,482,659	\$1,973,963	\$1,891,556	\$2,225,199	2,190,451	\$2,173,491	\$1,956,097	\$1,801,582	\$1,772,492	\$1,698,006	\$1,698,006

Form 42-2E

Docket No. 20220007-EI Duke Energy Florida Witness: G. P. Dean Exh. No. __ (GPD-3) Page 3 of 18

Clause	
Amount	
022	

Interest Provision (in Dollars)

Line	Description	Actual Jan-22	Actual Feb-22	Actual Mar-22	Actual Apr-22	Actual May-22	Actual Jun-22	Estimated Jul-22	Estimated Aug-22	Estimated Sep-22	Estimated Oct-22	Estimated Nov-22	Estimated Dec-22	End of Period Total
1	Beginning True-Up Amount (Form 42-2E, Lines 7 + 7a + 10)	\$2,275,391	\$2,483,535	\$2,176,225	\$2,482,659	\$1,973,963	\$1,891,556	\$2,225,199	\$2,190,451	\$2,173,491	\$1,956,097	\$1,801,582	\$1,772,492	
2	Ending True-Up Amount Before Interest (Line 1 + Form 42-2E, Lines 5 + 8)	2,483,321	2,175,852	2,481,960	1,973,027	1,890,242	2,222,730	2,187,208	2,170,286	1,953,064	1,798,822	1,769,867	1,695,457	
3	Total of Beginning & Ending True-Up (Lines 1 + 2)	4,758,712	4,659,387	4,658,185	4,455,686	3,864,205	4,114,286	4,412,407	4,360,736	4,126,554	3,754,918	3,571,449	3,467,950	
4	Average True-Up Amount (Line 3 x 1/2)	2,379,356	2,329,694	2,329,093	2,227,843	1,932,103	2,057,143	2,206,204	2,180,368	2,063,277	1,877,459	1,785,725	1,733,975	
5	Interest Rate (Last Business Day of Prior Month)	0.08%	0.14%	0.24%	0.49%	0.52%	1.12%	1.76%	1.76%	1.76%	1.76%	1.76%	1.76%	
6	Interest Rate (Last Business Day of Current Month)	0.14%	0.24%	0.49%	0.52%	1.12%	1.76%	1.76%	1.76%	1.76%	1.76%	1.76%	1.76%	
7	Total of Beginning & Ending Interest Rates (Lines 5 + 6)	0.22%	0.38%	0.73%	1.01%	1.64%	2.88%	3.52%	3.52%	3.52%	3.52%	3.52%	3.52%	
8	Average Interest Rate (Line 7 x 1/2)	0.110%	0.190%	0.365%	0.505%	0.820%	1.440%	1.760%	1.760%	1.760%	1.760%	1.760%	1.760%	
9	Monthly Average Interest Rate (Line 8 x 1/12)	0.009%	0.016%	0.030%	0.042%	0.068%	0.120%	0.147%	0.147%	0.147%	0.147%	0.147%	0.147%	
10	Interest Provision for the Month (Line 4 x Line 9)	\$214	\$373	\$699	\$936	\$1,314	\$2,469	\$3,243	\$3,205	\$3,033	\$2,760	\$2,625	\$2,549	23,420

Form 42-3E

Form 42-4E	DUKE ENERGY FLORIDA
	Environmental Cost Recovery Clause
Docket No. 20220007-EI	Calculation of Actual / Estimated Amount
Duke Energy Florida	January 2022 - December 2022
Witness: G. P. Dean	
Exh. No (GPD-3)	Variance Report of O&M Activities
Page 5 of 18	(In Dollars)

			(1) Actual /	(2) Projection	(3) Varia	(4) ace
Line		Description	Estimated	Filing	Amount	Percent
1		O&M Activities - System				
	1	Transmission Substation Environmental Investigation, Remediation and Pollution Prevention	\$0	\$0	\$0	0%
	1a	Distribution Substation Environmental Investigation, Remediation and Pollution Prevention	0	0	0	0%
	2	Distribution System Environmental Investigation, Remediation and Pollution Prevention	0	0	0	0%
	3	Pipeline Integrity Management - Bartow /Anclote Pipeline - Intm	0	0	0	0%
	4	Above Ground Tank Secondary Containment	0	0	0	0%
	5	SO2/NOx Emissions Allowances - Energy	3,751	14,134	(10,383)	-73%
	6	Phase II Cooling Water Intake 316(b) - Base	144,393	20,000	124,393	622%
	6.a	Phase II Cooling Water Intake 316(b) - Intm	41,666	260,000	(218,334)	-84%
	7.2	CAIR/CAMR - Peaking	0	0	0	0%
	7.4	CAIR/CAMR Crystal River - Base	0	0	0	0%
	7.4	CAIR/CAMR Crystal River - Energy	6,929,623	7,560,224	(630,601)	-8%
	7.4	CAIR/CAMR Crystal River - A&G	0	0	0	0%
	7.4	CAIR/CAMR Crystal River - Conditions of Certification - Energy	0	0	0	0%
	7.5	Best Available Retrofit Technology (BART) - Energy	0	0	0	0%
	7.6	National Emission Standards for Hazardous Air Pollutants (NESHAP) - Base	170,448	0	170,448	100%
	8	Arsenic Groundwater Standard - Base	47,370	74,401	(27,031)	-36%
	9	Sea Turtle - Coastal Street Lighting - Distrib	0	0	0	0%
	11	Modular Cooling Towers - Base	0	0	0	0%
	12	Greenhouse Gas Inventory and Reporting - Energy	0	0	0	0%
	13	Mercury Total Daily Maximum Loads Monitoring - Energy	0	0	0	0%
	14	Hazardous Air Pollutants (HAPs) ICR Program - Energy	0	0	0	0%
	15	Effluent Limitation Guidelines ICR Program - Energy	0	0	0	0%
	15.1	Effluent Limitation Guidelines Program CRN - Energy	0	0	0	0%
	16	National Pollutant Discharge Elimination System (NPDES) - Energy	37,607	31,400	6,207	20%
	17	Mercury & Air Toxic Standards (MATS) CR4 & CR5 - Energy	215,822	191,182	24,641	13%
	17.1	Mercury & Air Toxic Standards (MATS) Anclote Gas Conversion - Energy	0	0	0	0%
	17.2	Mercury & Air Toxic Standards (MATS) CR1 & CR2 - Energy	0	0	0	0%
	18	Coal Combustion Residual (CCR) Rule - Energy	403,171	342,830	60,340	18%
2	Total	O&M Activities - Recoverable Costs	\$7,993,851	\$8,494,170	(\$500,319)	-6%
3	Recov	verable Costs Allocated to Energy	7,589,974	8,139,770	(549,795)	-7%
4	Recov	verable Costs Allocated to Demand	\$403,877	\$354,401	\$49,476	14%

Notes:

Column (1) End of Period Totals on Form 42-5E Column (2) 2022 Projection Filing Form 42-2P Column (3) = Column (1) - Column (2) Column (4) = Column (3) / Column (2)

O&M Activities (in Dollars)

Line	Description	Actual Jan-22	Actual Feb-22	Actual Mar-22	Actual Apr-22	Actual May-22	Actual Jun-22	Estimated Jul-22	Estimated Aug-22	Estimated Sep-22	Estimated Oct-22	Estimated Nov-22	Estimated Dec-22	End of Period Total
1	O&M Activities - System													
	 Transmission Substation Environmental Investigation, Remediation, and Pollution Prevention Distribution Substation Environmental Investigation, Remediation, and Pollution Prevention Distribution System Environmental Investigation, Remediation, and Pollution Prevention 	\$0 0 0	\$0 0 0	\$0 0 0	\$0 0 0	\$0 0 0	\$0 0 0	\$0 0 0						
	3 Pipeline Integrity Management - Bartow/Anclote Pipeline - Intm	0	0	0	0	0	0	0	0	0	0	0	0	0
	4 Above Ground Tank Secondary Containment - Peaking	0	0	0	0	0 1 220	0	0 156	0 120	0 145	0	0	0	0
	6 Phase II Cooling Water Intake 316(b) - Base	0	0	1,515	13.009	26.737	(15.353)	20.000	20.000	20.000	20.000	20.000	240	144.393
	6a Phase II Cooling Water Intake 316(b) - Intm	0	0	0	0	0	(,)	0	0	0	0	20,833	20,833	41,666
	7.2 CAIR/CAMR - Peaking	0	0	0	0	0	0	0	0	0	0	0	0	0
	7.4 CAIR/CAMR Crystal River - Base	0	0	0	0	0	0	0	0	0	0	0	0	0
	7.4 CAIR/CAMR Crystal River - Energy	321,724	780,688	61,390 0	922,869	597,326	384,364	815,837	753,333	803,022	679,116	366,077	443,876	6,929,623
	7.4 CAIR/CAMR Crystal River - A&G 7.4 CAIR/CAMR Crystal River - Conditions of Certification - Energy	0	0	0	0	0	0	0	0	0	0	0	0	0
	7.5 Best Available Retrofit Technology (BART) - Energy	0	0	0	0	0	0	0	0	0	0	0	0	0
	7.6 National Emission Standards for Hazardous Air Pollutants (NESHAP) - Base	0	0	0	0	0	60,266	5,182	0	80,000	25,000	0	0	170,448
	8 Arsenic Groundwater Standard - Base	2,228	3,121	5,719	5,497	900	4,234	1,176	3,980	2,480	3,235	9,000	5,800	47,370
	9 Sea Turtle - Coastal Street Lighting - Distrib	0	0	0	0	0	0	0	0	0	0	0	0	0
	12 Greenhouse Gas Inventory and Reporting - Energy	0	0	0	0	0	0	0	0	0	0	0	0	0
	13 Mercury Total Daily Maximum Loads Monitoring - Energy	0	0	0	0	0	0	0	0	0	0	0	0	0
	14 Hazardous Air Pollutants (HAPs) ICR Program - Energy	0	0	0	0	0	0	0	0	0	0	0	0	0
	15 Effluent Limitation Guidelines ICR Program - Energy	0	0	0	0	0	0	0	0	0	0	0	0	0
	15.1 Effluent Limitation Guidelines Program CRN - Energy 16 National Pollutant Discharge Elimination System (NPDES) - Energy	0	0	0	0 6 115	0 6 629	0	0	0	U 11 023	0 6 641	U 7 199	0	0 37 607
	17 Mercury & Air Toxic Standards (MATS) CR4 & CR5 - Energy	1,908	18,254	130,935	29,871	25,183	580	0	0	0	9,091	0	0	215,822
	17.1 Mercury & Air Toxic Standards (MATS) Anclote Gas Conversion - Energy	0	0	0	0	0	0	0	0	0	0	0	0	0
	17.2 Mercury & Air Toxic Standards (MATS) CR1 & CR2 - Energy	0	0	0	0	0	0	0	0	0	0	0	0	0
	18 Coal Combustion Residual (CCR) Rule - Energy	34,930	30,381	21,929	31,797	40,515	(1,497)	25,636	30,636	25,636	25,636	49,136	88,436	403,171
2	Total O&M Activities - Recoverable Costs	\$360,878	\$832,445	\$221,287	\$1,009,158	\$698,519	\$432,594	\$867,987	\$808,088	\$942,306	\$768,817	\$472,588	\$579,185	\$7,993,851
3	Recoverable Costs Allocated to Energy	358,650	829,324	215,568	990,652	670,883	383,447	841,629	784,108	839,826	720,582	422,755	532,552	7,589,974
4	Recoverable Costs Allocated to Demand - Transm	0	0	0	0	0	0	0	0	0	0	0	0	0
	Recoverable Costs Allocated to Demand - Distrib	0	0	0	0	0	0	0	0	0	0	0	0	0
	Recoverable Costs Allocated to Demand - Prod-Base	2,228	3,121	5,719	18,506	27,637	49,147	26,358	23,980	102,480	48,235	29,000	25,800	362,211
	Recoverable Costs Allocated to Demand - Prod-Peaking	0	0	0	0	0	0	0	0	0	0	20,833	20,833	41,000
	Recoverable Costs Allocated to Demand - A&G	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Retail Energy Jurisdictional Factor	0.92760	0.94600	0.94580	0.93710	0.88620	0.85240	0.90023	0.90279	0.90883	0.88886	0.94919	0.92876	
6	Retail Transmission Demand Jurisdictional Factor	0.71994	0.71994	0.71994	0.71994	0.71994	0.71994	0.71994	0.71994	0.71994	0.71994	0.71994	0.71994	
	Retail Distribution Demand Jurisdictional Factor	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	
	Retail Production Demand Jurisdictional Factor - Base	0.92865	0.92865	0.92865	0.92865	0.92865	0.92865	0.92865	0.92865	0.92865	0.92865	0.92865	0.92865	
	Retail Production Demand Jurisdictional Factor - Intm Retail Production Demand Jurisdictional Factor - Peaking	0.88321	0.88321	0.88321	0.88321	0.88321	0.88321	0.88321	0.88321	0.88321	0.88321	0.88321	0.88321	
	Retail Production Demand Jurisdictional Factor - A&G	0.95415	0.95415	0.95078	0.95415	0.95415	0.95415	0.95415	0.95415	0.95415	0.95415	0.95415	0.95415	
7	Jurisdictional Energy Recoverable Costs (A)	332,684	784,540	203,884	928,340	594,536	326,851	757,657	707,885	763,259	640,495	401,275	494,611	6,936,017
0	lurisdictional Demand Recoverable Costs - Transm (P)	0	۰ <u>د ب</u>		,			0	0	0	0	0		_,,,,
õ	Jurisdictional Demand Recoverable Costs - Distrib (B)	0	0	0	0	0	0	0	0	0	0	0	0	0
	Jurisdictional Demand Recoverable Costs - Prod-Base (B)	2,069	2,899	5,311	17,186	25,665	45,640	24,477	22,269	95,168	44,793	26,931	23,959	336,367
	Jurisdictional Demand Recoverable Costs - Prod-Intm (B)	0	0	0	0	0	0	0	0	0	0	18,400	18,400	36,800
	Jurisdictional Demand Recoverable Costs - Prod-Peaking (B)	0	0	0	0	0	0	0	0	0	0	0	0	0
	Jurisdictional Demand Recoverable Costs - A&G (B)	0	0	0	0	0	0	0	0	0	0	0	0	0
9	Total Jurisdictional Recoverable Costs - O&M Activities (Lines 7 + 8)	\$334,753	\$787,439	\$209,195	\$945,526	\$620,201	\$372,491	\$782,134	\$730,154	\$858,427	\$685,288	\$446,606	\$536,970	\$7,309,184
NI - I -														

Notes:

Form 42-5E

Docket No. 20220007-EI Duke Energy Florida Witness: G. P. Dean Exh. No. __ (GPD-3) Page 6 of 18

⁽A) Line 3 x Line 5(B) Line 4 x Line 6

DUKE ENERGY FLORIDA Environmental Cost Recovery Clause Calculation of Actual / Estimated Amount

January 2022 - December 2022

Variance Report of Capital Investment Activities

(in Dollars)

Docket No. 20220007-EI Duke Energy Florida Witness: G. P. Dean Exh. No. __ (GPD-3)

Page 7 of 18

			(1)	(2)	(3)	(4)
			Actual /	Projection	Varian	ce
Line	_	Description	Estimated	Filing	Amount	Percent
1		Capital Investment Activities - System				
	3.1	Pipeline Integrity Management - Bartow/Anclote Pipeline	\$0	\$0	\$0	0%
	4.x	Above Ground Tank Secondary Containment	0	0	0	0%
	5	SO2/NOx Emissions Allowances	241,519	242,867	(1,348)	-1%
	6	Phase II Cooling Water Intake 316(b)	1,346,896	1,455,931	(109,035)	-7%
	7.x	CAIR/CAMR	317,744	231,778	85 <i>,</i> 966	37%
	9	Sea Turtle - Coastal Street Lighting	0	0	0	0%
	10.x	Underground Storage Tanks	0	0	0	0%
	11	Modular Cooling Towers	0	0	0	0%
	11.1	Crystal River Thermal Discharge Compliance Project	0	0	0	0%
	15.1	Effluent Limitation Guidelines CRN (ELG)	315,160	316,715	(1,555)	0%
	16	National Pollutant Discharge Elimination System (NPDES)	1,236,832	1,250,955	(14,123)	-1%
	17x	Mercury & Air Toxics Standards (MATS)	418,053	420,023	(1,970)	0%
	18	Coal Combustion Residual (CCR) Rule	528,281	530,878	(2,597)	0%
2	Total	Capital Investment Activities - Recoverable Costs	\$4,404,485	\$4,449,147	(\$44,662)	-1%
3	Recov	erable Costs Allocated to Energy	\$977.316	\$894.668	\$82.648	9%
~				, ,	, - · -	
4	Recov	erable Costs Allocated to Demand	\$3,427,169	\$3,554,479	(\$127,310)	-4%

Notes:

Column (1) End of Period Totals on Form 42-7E Column (2) 2022 Projection Filing Form 42-3P Column (3) = Column (1) - Column (2) Column (4) = Column (3) / Column (2) Form 42-6E

Capital Investment Projects-Recoverable Costs (in Dollars)

Line	Description	Actual Jan-22	Actual Feb-22	Actual Mar-22	Actual Apr-22	Actual May-22	Actual Jun-22	Estimated Jul-22	Estimated Aug-22	Estimated Sep-22	Estimated Oct-22	Estimated Nov-22	Estimated Dec-22	End of Period Total
1	Investment Projects - System (A)													
	3.1 Pipeline Integrity Management - Bartow/Anclote Pipeline - Intermediate	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	4.1 Above Ground Tank Secondary Containment - Peaking	0	0	0	0	0	0	0	0	0	0	0	0	0
	4.2 Above Ground Tank Secondary Containment - Base	0	0	0	0	0	0	0	0	0	0	0	0	0
	4.3 Above Ground Tank Secondary Containment - Intermediate	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 SO2/NOX Emissions Allowances - Energy	20,140	20,140	20,135	20,131	20,127	20,123	20,123	20,122	20,121	20,121	20,119	20,117	241,519
	6 Phase II Cooling Water Intake 316(b) - Base	80,832	80,781	80,716	121,983	121,833	121,727	122,316	123,164	123,333	123,183	122,961	122,701	1,345,530
	6.1 Phase II Cooling Water Intake 316(b) - Base - Bartow	, 0	, 0	0	0	0	0	0	, 0	, 0	152	455	759	1,366
	6.2 Phase II Cooling Water Intake 316(b) - Intermediate - Anclote	0	0	0	0	0	0	0	0	0	0	0	0	0
	7.1 CAIR/CAMR Anclote- Intermediate	0	0	0	0	0	0	0	0	0	0	0	0	0
	7.2 CAIR/CAMR - Peaking	0	0	0	0	0	0	0	0	0	0	0	0	0
	7.3 CAMR Crystal River - Base	0	0	0	0	0	0	0	0	0	0	0	0	0
	7.4 CAIR/CAMR Crystal River AFUDC - Base	0	0	0	0	0	0	0	0	0	0	0	0	0
	7.4 CAIR/CAMR Crystal River AFUDC - Energy	23,867	24,219	25,555	26,192	27,420	29,332	28,254	26,581	26,581	26,581	26,581	26,581	317,744
	7.5 Best Available Retrofit Technology (BART) - Energy	0	0	0	0	0	0	0	0	0	0	0	0	0
	9 Sea Turtle - Coastal Street Lighting -Distribution	0	0	0	0	0	0	0	0	0	0	0	0	0
	10.1 Underground Storage Tanks - Base	0	0	0	0	0	0	0	0	0	0	0	0	0
	10.2 Underground Storage Tanks - Intermediate	0	0	0	0	0	0	0	0	0	0	0	0	0
	11 Modular Cooling Towers - Base	0	0	0	0	0	0	0	0	0	0	0	0	0
	11.1 Crystal River Thermal Discharge Compliance Project - Base (Post 2012)	0	0	0	0	0	0	0	0	0	0	0	0	0
	11.1 Crystal River Thermal Discharge Compliance Project - Base (2012)	0	0	0	0	0	0	0	0	0	0	0	0	0
	15.1 Effluent Limitation Guidelines CRN (ELG) - Base	26,636	26,569	26,501	26,433	26,365	26,297	26,229	26,162	26,094	26,026	25,958	25,890	315,160
	16 National Pollutant Discharge Elimination System (NPDES) - Intermediate	104,265	104,048	103,830	103,613	103,395	103,178	102,961	102,743	102,526	102,308	102,091	101,874	1,236,832
	17 Mercury & Air Toxic Standards (MATS) CR4 & CR5 - Energy	35,365	35,269	35,173	35,078	34,982	34,885	34,789	34,694	34,598	34,502	34,407	34,311	418,053
	17.1 Mercury & Air Toxic Standards (MATS) Anclote Gas Conversion - Energy	0	0	0	0	0	0	0	0	0	0	0	0	0
	17.2 Mercury & Air Toxic Standards (MATS) CR1 & CR2 - Energy	0	0	0	0	0	0	0	0	0	0	0	0	0
	18 Coal Combustion Residual (CCR) Rule - Base	44,044	44,586	44,470	44,358	44,246	44,133	44,021	43,909	43,797	43,685	43,572	43,460	528,281
2	Total Investment Projects - Recoverable Costs	\$335,149	\$335,612	\$336,380	\$377,788	\$378,368	\$379,675	\$378,693	\$377,375	\$377,050	\$376,558	\$376,144	\$375,693	\$4,404,485
3	Recoverable Costs Allocated to Energy	79.372	79.628	80,863	81,401	82,529	84.340	83,166	81,397	81,300	81,204	81,107	81.009	977.316
5	Recoverable Costs Allocated to Distribution Demand	0	0	0	0	0	0	0	0	0	0	0	01,005	0
4	Recoverable Costs Allocated to Demand - Production - Base	151 512	151 936	151 687	192 774	192 444	192 157	192 566	193 235	193 224	193 046	192 946	192 810	2 190 337
•	Recoverable Costs Allocated to Demand - Production - Intermediate	104 265	104 048	103 830	103 613	103 395	103 178	102 961	102 743	102 526	102 308	102 091	101 874	1 236 832
	Recoverable Costs Allocated to Demand - Production - Peaking	0	10 1,0 10	100,000	0	100,000	0	102,501	0	102,520	0	102,031	0	1,200,002
		Ū	C C	C C	Ū	C C	0	Ū	C C	C C	C C	Ũ	Ũ	C C
5	Retail Energy Jurisdictional Factor	0.92760	0.94600	0.94580	0.93710	0.88620	0.85240	0.90023	0.90279	0.90883	0.88886	0.94919	0.92876	
	Retail Distribution Demand Jurisdictional Factor	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	
6	Retail Demand Jurisdictional Factor - Production - Base	0.92865	0.92865	0.92865	0.92865	0.92865	0.92865	0.92865	0.92865	0.92865	0.92865	0.92865	0.92865	
Ū	Retail Demand Jurisdictional Factor - Production - Intermediate	0.88321	0.88321	0.88321	0.88321	0.88321	0.88321	0.88321	0.88321	0.88321	0.88321	0.88321	0.88321	
	Retail Demand Jurisdictional Factor - Production - Peaking	0.90678	0.90678	0.90678	0.90678	0.90678	0.90678	0.90678	0.90678	0.90678	0.90678	0.90678	0.90678	
		0.00070	0.00070	0100070	0.00070	0.00070	0.50070	0100070	0.00070	0.00070	0.00070	0100070	0100070	
7	Jurisdictional Energy Recoverable Costs (B)	73,625	75,328	76,480	76,281	73,137	71,892	74,869	73,484	73,888	72,179	76,986	75,238	893,386
	Jurisdictional Demand Recoverable Costs - Distribution (B)	0	0	0	0	0	0	0	0	0	0	0	0	0
o	Jurisdictional Domand Recoverable Casts Production Pass (C)	140 700	1/1 005	110 061	170 020	170 710	170 //7	170 076	170 440	170 /27	170 272	170 170	170 050	
٥	Jurisdictional Demand Recoverable Costs - FTOUULLIOII - Dase (C)	140,702 02.000	01 00C	140,004 01 704	1/9,020 01 E10	1/0,/13	1/0,44/ 01 100	1/0,020	1/3,440 00 742	1/3,43/ 00 EE 2	1/3,2/2	113,113	20 07C	2,U34,U30 1 AB3 20A
	Jurisdictional Demand Recoverable Costs - Froduction - Intermediate (C)	92,088 N	0 050'TE	91,704 N	51,512	U AT'2TA	۵ ع1,179	90,930 A	90,743 A	30,352 N	90,359 A	0,106 201,06	0/5,50 N	1,052,580 N
	Sansaletional Demana Recoverable costs - Froduction - Feaking (C)	0	0	0	0	0	0	0	0	0	0	0	0	0
9	Total Jurisdictional Recoverable Costs - Investment Projects (Lines 7 + 8)	\$306,414	\$308,320	\$309,048	\$346,812	\$343,169	\$341,466	\$344,631	\$343,676	\$343,877	\$341,810	\$346,333	\$344,267	\$4,019,823

Notes:

(A) Each project's Total System Recoverable Expenses on Form 42-8E, Line 9; Form 42-8E, Line 5 for Projects 5 - Emission Allowances and Project 7. 4 - Reagents.
 (B) Line 3 x Line 5
 (C) Line 4 x Line 6

Form 42-7E

Docket No. 20220007-EI Duke Energy Florida Witness: G. P. Dean Exh. No. __ (GPD-3) Page 8 of 18

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

Line	Description		Beginning of	Actual	Actual	Actual	Actual	Actual	Actual	Estimated	Estimated	Estimated	Estimated	Estimated	Estimated	End of Period
Line	Description		Period Amount	Jan-22	Feb-22	iviar-22	Apr-22	May-22	Jun-22	Jui-22	Aug-22	Sep-22	Oct-22	NOV-22	Dec-22	Total
1	Working Capital Dr (Cr)															
	a. 0158150 SO ₂ Emission Allowance Inventory		\$3,212,783	\$3,212,696	\$3,212,696	\$3,211,382	\$3,211,382	\$3,210,153	\$3,210,153	\$3,209,997	\$3,209,858	\$3,209,714	\$3,209,615	\$3,209,272	\$3,209,032	\$3,209,032
	b. 0254020 Auctioned SO ₂ Allowance		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	c. 0158170 NOx Emission Allowance Inventory		0	0	0	0	0	0	0	0	0	0	0	0	0	0
	d. Other (A)		0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	Total Working Capital		\$3,212,783	\$3,212,696	\$3,212,696	\$3,211,382	\$3,211,382	\$3,210,153	\$3,210,153	\$3,209,997	\$3,209,858	\$3,209,714	\$3,209,615	\$3,209,272	\$3,209,032	\$3,209,032
3	Average Net Investment			\$3,212,739	\$3,212,696	\$3,212,039	\$3,211,382	\$3,210,768	\$3,210,153	\$3,210,075	\$3,209,928	\$3,209,786	\$3,209,665	\$3,209,444	\$3,209,152	
4	Return on Average Net Working Capital Balance (B)															
	a. Debt Component	1.62%		4,348	4,348	4,347	4,346	4,345	4,344	4,344	4,344	4,344	4,344	4,343	4,343	52,140
	b. Equity Component Grossed Up For Taxes	5.90%	-	15,792	15,792	15,788	15,785	15,782	15,779	15,779	15,778	15,777	15,777	15,776	15,774	189,379
5	Total Return Component (C)		=	\$20,140	\$20,140	\$20,135	\$20,131	\$20,127	\$20,123	\$20,123	\$20,122	\$20,121	\$20,121	\$20,119	\$20,117	241,519
6	Expense Dr (Cr) a. 0509030 SO ₂ Allowance Expense			\$87	\$0	\$1,313	\$0	\$1,229	\$0	\$156	\$139	\$145	\$98	\$343	\$240	3,751
	b. 0407426 Amortization Expense			, e, r 0	0 0	0	0	¢1,223	0 0	0	0	0 0	0 0	0	0	0,751
	c. 0509212 NOx Allowance Expense			0	0	0	0	0	0	0	0	0	0	0	0	0
	d. Other			0	0	0	0	0	0	0	0	0	0	0	0	0
7	Net Expense (D)		-	87	0	1,313	0	1,229	0	156	139	145	98	343	240	3,751
8	Total System Recoverable Expenses (Lines 5 + 7)			\$20,227 20,227	\$20,140 20,140	\$21,448 21 448	\$20,131 20,131	\$21,356 21,356	\$20,123 20,123	\$20,279 20,279	\$20,261 20,261	\$20,266 20,266	\$20,219 20,219	\$20,462 20,462	\$20,357 20,357	245,270 245,270
	b. Recoverable Costs Allocated to Demand			0	0	0	0	0	0	0	0	0	0	0	0	0
Q	Energy Jurisdictional Factor			0 92760	0 94600	0 94580	0 93710	0 88620	0 85240	0 90023	0 90279	0 90883	0 88886	0 9/919	0 92876	
10	Demand Jurisdictional Factor			0.52700 N/A	0.54000 N/A	0.94986 N/A	0.55710 N/A	0.00020 N/A	0.05240 N/A	0.50025 N/A	0.502/5 N/A	0.50005 N/A	0.00000 N/A	0.54515 N/A	0.520/0 N/A	
				,	- ,		,	,	.,	,						
11	Retail Energy-Related Recoverable Costs (E)			\$18,763	\$19,052	\$20,286	\$18 <i>,</i> 865	\$18,926	\$17,153	\$18,255	\$18,291	\$18,418	\$17,972	\$19,422	\$18,907	224,311
12	Retail Demand-Related Recoverable Costs (F)		-	0	0	0	0	0	0	0	0	0	0	0	0	0
13	Total Jurisdictional Recoverable Costs (Lines 11 + 12)		-	\$ 18.763	\$ 19.052	\$ 20.286	\$ 18.865	\$ 18.926	\$ 17.153	\$ 18.255	\$ 18.291	\$ 18.418	\$ 17.972	\$ 19.422	\$ 18.907	\$ 224.311
			=					,-=•	, _, _, _, _, _, _, _, _, _, _, _, _, _,	,,				,,		,

Notes:

(A) N/A

(B) Line 3 x 7.52% x 1/12. Based on ROE of 9.85%, weighted cost of equity component of capital structure of 4.34% and statutory tax rate of 25.345% (inc tax multiplier = 1.3394950).

(C) Line 5 is reported on Capital Schedule

(D) Line 7 is reported on O&M Schedule

(E) Line 8a x Line 9

(F) Line 8b x Line 10

Form 42-8E Page 1 of 9

Docket No. 20220007-EI Duke Energy Florida Witness: G. P. Dean Exh. No. ___ (GPD-3) Page 9 of 18

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

Line	Description	Beginning of Period Amount	Actual Jan-22	Actual Feb-22	Actual Mar-22	Actual Apr-22	Actual May-22	Actual Jun-22	Estimated Jul-22	Estimated Aug-22	Estimated Sep-22	Estimated Oct-22	Estimated Nov-22	Estimated Dec-22	End of Period Total
1	Investments														
	a. Expenditures/Additions		(\$8 <i>,</i> 028)	(\$8 <i>,</i> 422)	(\$12,268)	\$17,825	\$17,047	\$31,889	\$238,983	\$114,000	\$23 <i>,</i> 000	\$11,798	\$0	\$0	\$425 <i>,</i> 824
	b. Clearings to Plant		0	0	12,869,957	0	0	0	0	0	0	0	0	0	
	c. Retirements		0	0	0	0	0	0	0	0	0	0	0	0	
	d. Other (A)		0	0	0	0	0	0	0	0	0	0	0	0	
2	Plant-in-Service/Depreciation Base	\$0	0	0	12,869,957	12,869,957	12,869,957	12,869,957	12,869,957	12,869,957	12,869,957	12,869,957	12,869,957	12,869,957	
3	Less: Accumulated Depreciation	\$0	0	0	0	(41,379)	(82,758)	(124,137)	(165,516)	(206,895)	(248,274)	(289,653)	(331,032)	(372,411)	
4	CWIP - Non-Interest Bearing	\$12,898,675	12,890,647	12,882,225	0	17,825	34,872	66,761	305,744	419,744	442,744	454,542	454,542	454,542	
5	Net Investment (Lines 2 + 3 + 4)	\$12,898,675	\$12,890,647	\$12,882,225	\$12,869,957	\$12,846,403	\$12,822,071	\$12,812,581	\$13,010,185	\$13,082,806	\$13,064,427	\$13,034,846	\$12,993,467	\$12,952,088	
6	Average Net Investment		\$12,894,661	\$12,886,436	\$12,876,091	\$12,858,180	\$12,834,237	\$12,817,326	\$12,911,383	\$13,046,495	\$13,073,616	\$13,049,636	\$13,014,156	\$12,972,777	
7	Return on Average Net Investment (B)														
	a. Debt Component 1.62%		17,450	17,439	17,425	17,401	17,369	17,346	17,473	17,656	17,692	17,660	17,612	17,556	210,079
	b. Equity Component Grossed Up For Taxes 5.90%		63 <i>,</i> 382	63,342	63,291	63,203	63,085	63,002	63,464	64,129	64,262	64,144	63,970	63,766	763 <i>,</i> 040
	c. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
8	Investment Expenses														
	a. Depreciation (C) 3.8582%		0	0	0	41,379	41,379	41,379	41,379	41,379	41,379	41,379	41,379	41,379	372,411
	b. Amortization		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Dismantlement		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	d. Property Taxes (D) 0.000497		0	0	0	0	0	0	0	0	0	0	0	0	0
	e. Other	_	0	0	0	0	0	0	0	0	0	0	0	0	0
9	Total System Recoverable Expenses (Lines 7 + 8)		\$80,832	\$80,781	\$80,716	\$121,983	\$121,833	\$121,727	\$122,316	\$123,164	\$123,333	\$123,183	\$122,961	\$122,701	1,345,530
	a. Recoverable Costs Allocated to Energy		0	0	0	0	0	0	0	0	0	0	0	0	0
	b. Recoverable Costs Allocated to Demand		\$80,832	\$80,781	\$80,716	\$121,983	\$121,833	\$121,727	\$122,316	\$123,164	\$123,333	\$123,183	\$122,961	\$122,701	1,345,530
10	Energy Jurisdictional Factor		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
11	Demand Jurisdictional Factor - Production (Base)		0.92865	0.92865	0.92865	0.92865	0.92865	0.92865	0.92865	0.92865	0.92865	0.92865	0.92865	0.92865	
12	Retail Energy-Related Recoverable Costs (E)		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
13	Retail Demand-Related Recoverable Costs (F)		75,065	75,017	74,957	113,280	113,140	113,042	113,589	114,376	114,533	114,394	114,188	113,946	1,249,526
14	Total Jurisdictional Recoverable Costs (Lines 12 + 13)		\$75,065	\$75,017	\$74,957	\$113,280	\$113,140	\$113,042	\$113,589	\$114,376	\$114,533	\$114,394	\$114,188	\$113,946	\$1,249,526

<u>Notes:</u> (A) N/A

(B) Line 6 x 7.52% x 1/12. Based on ROE of 9.85%, weighted cost of equity component of capital structure of 4.34% and statutory tax rate of 25.345% (inc tax multiplier = 1.3394950). (C) Line 2 x rate x 1/12. Depreciation rate based on approved rates in Order PSC-2021-0202-AS-EI.

(D) Line 2 x rate x 1/12. Based on 2021 Effective Tax Rate on original cost.

(E) Line 9a x Line 10

(F) Line 9b x Line 11

Form 42 8E Page 2 of 9

Docket No. 20220007-EI Duke Energy Florida Witness: G. P. Dean Exh. No. ___ (GPD-3) Page 10 of 18

Return on Capital Investments, Depreciation and Taxes For Project: Phase II Cooling Water Intake 316(b) - Base - Bartow (Project 6.1) (in Dollars)

1 Investments a. Expenditures/Additions \$0<	End of ted Estimated Estimated Period 2 Nov-22 Dec-22 Total
a. Expenditures/Additions \$0	
b. Clearings to Plant 0	8,425 \$48,426 \$48,426 \$145,27 ⁻
c. Retirements 0	0 0 0
d. Other (A) 0 <t< td=""><td>0 0 0</td></t<>	0 0 0
2 Plant-in-Service/Depreciation Base \$0 0	0 0 0
3 Less: Accumulated Depreciation 0 48,42 5 Net Investment (Lines 2 + 3 + 4) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$48,42	0 0 0
4 CWIP - Non-Interest Bearing 0 0 0 0 0 0 48,4 5 Net Investment (Lines 2 + 3 + 4) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$48,4	0 0 0
5 Net Investment (Lines 2 + 3 + 4) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	,425 96,851 145,277
	3,425 \$96,851 \$145,277
6 Average Net Investment \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$24,2	4,213 \$72,638 \$121,064
7 Return on Average Net Investment (B)	
a. Debt Component 1.62% 0 0 0 0 0 0 0 0 0 0 0	33 98 164 29!
b. Equity Component Grossed Up For Taxes 5.90% 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1	119 357 595 1,07 [.]
c. Other 0 0 0 0 0 0 0 0 0 0	0 0 0 0
8 Investment Expenses	
a. Depreciation (C) 3.8582% 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0
b. Amortization 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0
c. Dismantlement N/A	N/A N/A N/A N/A
d. Property Taxes (D) 0.000497 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0
e. Other 0 0 0 0 0 0 0 0 0 0	0 0 0 0
9 Total System Recoverable Expenses (Lines 7 + 8) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1	\$152 \$455 \$759 1,36
a. Recoverable Costs Allocated to Energy 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0
b. Recoverable Costs Allocated to Demand \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1	\$152 \$455 \$759 1,366
10 Energy Jurisdictional Factor N/A	N/A N/A N/A
11 Demand Jurisdictional Factor - Production (Base) 0.92865 0.9286	2865 0.92865 0.92865
12 Retail Energy-Related Recoverable Costs (E) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$ ^r
13 Retail Demand-Related Recoverable Costs (F) 0 0 0 0 0 0 0 0 0 1	141 423 705 1,269
14 Total Jurisdictional Recoverable Costs (Lines 12 + 13) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1	\$141 \$423 \$705 \$1,269

<u>Notes:</u> (A) N/A

(B) Line 6 x 7.52% x 1/12. Based on ROE of 9.85%, weighted cost of equity component of capital structure of 4.34% and statutory tax rate of 25.345% (inc tax multiplier = 1.3394950). (C) Line 2 x rate x 1/12. Depreciation rate based on approved rates in Order PSC-2021-0202-AS-EI.

(D) Line 2 x rate x 1/12. Based on 2021 Effective Tax Rate on original cost.

(E) Line 9a x Line 10

(F) Line 9b x Line 11

Form 42 8E Page 3 of 9

Docket No. 20220007-EI Duke Energy Florida Witness: G. P. Dean Exh. No. ___ (GPD-3) Page 11 of 18

DUKE ENERGY FLORIDA **Environmental Cost Recovery Clause** Calculation of Actual / Estimated Amount

January 2022 - December 2022

Return on Capital Investments, Depreciation and Taxes For Project: Phase II Cooling Water Intake 316(b) - Intermediate - Anclote (Project 6.2) (in Dollars)

Line	Description	Beginning of Period Amount	Actual Jan-22	Actual Feb-22	Actual Mar-22	Actual Apr-22	Actual May-22	Actual Jun-22	Estimated Jul-22	Estimated Aug-22	Estimated Sep-22	Estimated Oct-22	Estimated Nov-22	Estimated Dec-22	End of Period Total
1	Investments														
	a. Expenditures/Additions		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	b. Clearings to Plant		0	0	0	0	0	0	0	0	0	0	0	0	
	c. Retirements		0	0	0	0	0	0	0	0	0	0	0	0	
	d. Other (A)		0	0	0	0	0	0	0	0	0	0	0	0	
2	Plant-in-Service/Depreciation Base	\$0	0	0	0	0	0	0	0	0	0	0	0	0	
3	Less: Accumulated Depreciation	0	0	0	0	0	0	0	0	0	0	0	0	0	
4	CWIP - Non-Interest Bearing	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	Net Investment (Lines 2+ 3 + 4)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
6	Average Net Investment		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
7	Return on Average Net Investment (B)														
	a. Debt Component 1.62%		0	0	0	0	0	0	0	0	0	0	0	0	C
	b. Equity Component Grossed Up For Taxes 5.90%		0	0	0	0	0	0	0	0	0	0	0	0	C
	c. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
8	Investment Expenses														
	a. Depreciation (C) 10.37%		0	0	0	0	0	0	0	0	0	0	0	0	0
	b. Amortization		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Dismantlement		N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	d. Property Taxes (D) 0.005630		0	0	0	0	0	0	0	0	0	0	0	0	0
	e. Other	_	0	0	0	0	0	0	0	0	0	0	0	0	0
9	Total System Recoverable Expenses (Lines 7 + 8)		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	C
	a. Recoverable Costs Allocated to Energy		0	0	0	0	0	0	0	0	0	0	0	0	C
	b. Recoverable Costs Allocated to Demand		0	0	0	0	0	0	0	0	0	0	0	0	0
10	Energy Jurisdictional Factor		N/A	N/A	N/A	N/A	N/A	N/A							
11	Demand Jurisdictional Factor - Production (Intermediate)		0.88321	0.88321	0.88321	0.88321	0.88321	0.88321	0.88321	0.88321	0.88321	0.88321	0.88321	0.88321	
12	Retail Energy-Related Recoverable Costs (E)		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
13	Retail Demand-Related Recoverable Costs (F)		0	0	0	0	0	0	0	0	0	0	0	0	0
14	Total Jurisdictional Recoverable Costs (Lines 12 + 13)	—	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

Notes:

(A) N/A

(B) Line 6 x 7.52% x 1/12. Based on ROE of 9.85%, weighted cost of equity component of capital structure of 4.34% and statutory tax rate of 25.345% (inc tax multiplier = 1.3394950).

(C) Line 2 x rate x 1/12. Depreciation rate based on approved rates in Order PSC-2021-0202-AS-EI.

(D) Line 2 x rate x 1/12. Based on 2021 Effective Tax Rate on original cost.

(E) Line 9a x Line 10

(F) Line 9b x Line 11

Docket No. 20220007-EI Duke Energy Florida Witness: G. P. Dean Exh. No. __ (GPD-3) Page 12 of 18

Schedule of Amortization and Return For Project: CAIR/CAMR - Energy (Project 7.4 - Reagents and By-Products) (in Dollars)

															End of
		Beginning of	Actual	Actual	Actual	Actual	Actual	Actual	Estimated	Estimated	Estimated	Estimated	Estimated	Estimated	Period
Line	Description	Period Amount	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Total
1	Working Capital Dr (Cr)	62 20C 425	¢2 200 5 45	¢2.464.640	¢2 526 022		¢2,000,000	¢2.040.000	60 C 44 C 40	62 C 44 C 42		60 C 4 4 C 4 0	60 C 4 4 C 4 0	¢2 C11 C12	¢2.644.642
	a. 0154401 Ammonia inventory	\$2,286,125	\$2,289,545	\$2,461,640	\$2,526,032	\$2,622,687	\$2,899,988	\$3,049,960	\$2,641,642	\$2,641,642	\$2,641,642	\$2,641,642	\$2,641,642	\$2,641,642	\$2,641,642
2	D. 0154200 Limestone inventory	\$1,562,225	1,476,629	1,499,262	1,666,254	1,541,367	1,684,136	1,724,226	1,598,646	1,598,646	1,598,646	1,598,646	1,598,646	1,598,646	1,598,646
Z	Total working Capital	\$3,848,350	\$3,766,174	\$3,960,902	\$4,192,286	\$4,164,054	\$4,584,124	\$4,774,186	\$4,240,288	\$4,240,288	\$4,240,288	\$4,240,288	\$4,240,288	\$4,240,288	4,240,288
3	Average Net Investment		3,807,262	3,863,538	4,076,594	4,178,170	4,374,089	4,679,155	4,507,237	4,240,288	4,240,288	4,240,288	4,240,288	4,240,288	
4	Return on Average Net Working Capital Balance (A)														
	a. Debt Component	1.62%	5.152	5.229	5.517	5.654	5.919	6.332	6.100	5.738	5.738	5.738	5.738	5.738	\$68.595
	b. Equity Component Grossed Up For Taxes	5.90%	18,714	18,991	20,038	20,537	21,500	23,000	22,155	20,843	20,843	20,843	20,843	20,843	249,149
5	Total Return Component (B)		23,867	24,219	25,555	26,192	27,420	29,332	28,254	26,581	26,581	26,581	26,581	26,581	317,744
6	Expense Dr (Cr)														
	a. 0502030 Ammonia Expense		71,809	193 <i>,</i> 334	76,587	219,063	265,077	250,091	370,700	385 <i>,</i> 800	371,300	351,900	182,600	225,900	2,964,161
	b. 0502040 Limestone Expense		181,456	391,300	166,777	464,301	499 <i>,</i> 365	505 <i>,</i> 486	178,735	152 <i>,</i> 362	153,751	103,021	355 <i>,</i> 804	249,312	3,401,670
	c. 0502050 Dibasic Acid Expense		0	0	0	0	0	0	0	0	0	0	0	0	0
	d. 0502070 Gypsum Disposal/Sale		(38 <i>,</i> 579)	(124,024)	(349 <i>,</i> 725)	0	(474 <i>,</i> 235)	(693,001)	(154,160)	(137 <i>,</i> 329)	(143,091)	(97 <i>,</i> 405)	(339,427)	(237,836)	(2,788,812)
	e. 0502040 Hydrated Lime Expense		107,038	238,071	85 <i>,</i> 890	239,505	224,965	239 <i>,</i> 635	338,700	352,500	339,200	321,600	167,100	206,500	2,860,704
	f. 0502300 Caustic Expense		0	82,008	81,862	0	82,153	82,153	81,862	0	81,862	0	0	0	491,899
7	Net Expense (C)		321,724	780,688	61,390	922,869	597,326	384,364	815,837	753,333	803,022	679,116	366,077	443,876	6,929,623
8	Total System Recoverable Expenses (Lines 5 + 7)		\$3/15 501	5804 908	\$86 945	\$949 060	5621 716	\$113 697	\$811 001	\$779 91 <i>1</i>	\$820 603	\$705 697	\$302 658	\$170 157	7 247 367
0	a Recoverable Costs Allocated to Energy		345 591	2004,500 804 908	200,945 86 945	949 060	624,746	413 697	\$844 091	779 914	829 603	705 697	392,658	470 457	7 247 367
	b. Recoverable Costs Allocated to Demand		0	0	00,545	0,000	024,740	,0 <i>5,</i> 0	0	,,, <u>,,</u> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	025,005	0	0	4,0,45, 0	0
			-	-	-	-	-	-	-	-	-	-	-	-	C
9	Energy Jurisdictional Factor		0.92760	0.94600	0.94580	0.93710	0.88620	0.85240	0.90023	0.90279	0.90883	0.88886	0.94919	0.92876	
10	Demand Jurisdictional Factor		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
11	Retail Energy-Related Recoverable Costs (D)		320,570	761,443	82,233	889,365	553 <i>,</i> 650	352 <i>,</i> 635	759,874	704,099	753 <i>,</i> 969	627,264	372,708	436,940	6,614,748
12	Retail Demand-Related Recoverable Costs (E)		0	0	0	0	0	0	0	0	0	0	0	0	0
13	Total Jurisdictional Recoverable Costs (Lines 11 + 12)		\$ 320.570	\$ 761.443	\$ 82.233	\$ 889.365	\$ 553.650	\$ 352.635	\$ 759.874	\$ 704.099	\$ 753.969	\$ 627.264	\$ 372.708	\$ 436.940 \$	6.614.748
			,	,,	,,0	, 230,000	,,	,			,	,,	,,	······································	-,,

Notes:

(A) Line 3 x 7.52% x 1/12. Based on ROE of 9.85%, weighted cost of equity component of capital structure of 4.34% and statutory tax rate of 25.345% (inc tax multiplier = 1.3394950). (B) Line 5 is reported on Capital Schedule

(C) Line 7 is reported on O&M Schedule

(D) Line 8a x Line 9

(E) Line 8b x Line 10

Form 42-8E Page 5 of 9

Docket No. 20220007-EI Duke Energy Florida Witness: G. P. Dean Exh. No. __ (GPD-3) Page 13 of 18

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

		Beginning of	Actual	Actual	Actual	Actual	Actual	Actual	Estimated	Estimated	Estimated	Estimated	Estimated	Estimated	End of Period
Line	Description	Period Amount	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Total
1	Investments														
_	a. Expenditures/Additions		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	b. Clearings to Plant		0	0	0	0	0	0	0	0	0	0	0	0	
	c. Retirements		0	0	0	0	0	0	0	0	0	0	0	0	
	d. Other (A)		0	0	0	0	0	0	0	0	0	0	0	0	
2	Plant-in-Service/Depreciation Base	\$2,612,979	2,612,979	2,612,979	2,612,979	2,612,979	2,612,979	2,612,979	2,612,979	2,612,979	2,612,979	2,612,979	2,612,979	2,612,979	
3	Less: Accumulated Depreciation	(102,323)	(113,147)	(123,971)	(134,795)	(145,619)	(156,443)	(167,267)	(178,091)	(188,915)	(199,739)	(210,563)	(221,387)	(232,211)	
4	CWIP - Non-Interest Bearing	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	Net Investment (Lines 2 + 3 + 4)	\$2,510,656	\$2,499,832	\$2,489,008	\$2,478,184	\$2,467,360	\$2,456,536	\$2,445,712	\$2,434,888	\$2,424,064	\$2,413,240	\$2,402,416	\$2,391,592	\$2,380,768	
6	Average Net Investment		\$2,505,244	\$2,494,420	\$2,483,596	\$2,472,772	\$2,461,948	\$2,451,124	\$2,440,300	\$2,429,476	\$2,418,652	\$2,407,828	\$2,397,004	\$2,386,180	
7	Return on Average Net Investment (B)														
	a. Debt Component 1	.62%	3,390	3,376	3,361	3,346	3,332	3,317	3,302	3,288	3,273	3,259	3,244	3,229	39,717
	b. Equity Component Grossed Up For Taxes 5	.90%	12,314	12,261	12,208	12,155	12,101	12,048	11,995	11,942	11,889	11,835	11,782	11,729	144,259
	c. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
8	Investment Expenses														
	a. Depreciation (C) 4.9707%		10,824	10,824	10,824	10,824	10,824	10,824	10,824	10,824	10,824	10,824	10,824	10,824	129,888
	b. Amortization		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Dismantlement		N/A	N/A	N/A										
	d. Property Taxes (D) 0.000497		108	108	108	108	108	108	108	108	108	108	108	108	1,296
	e. Other	-	0	0	0	0	0	0	0	0	0	0	0	0	0
9	Total System Recoverable Expenses (Lines 7 + 8)		\$26,636	\$26,569	\$26,501	\$26,433	\$26,365	\$26,297	\$26,229	\$26,162	\$26,094	\$26,026	\$25,958	\$25,890	315,160
	a. Recoverable Costs Allocated to Energy		0	0	0	0	0	0	0	0	0	0	0	0	0
	b. Recoverable Costs Allocated to Demand		\$26,636	\$26,569	\$26,501	\$26,433	\$26,365	\$26,297	\$26,229	\$26,162	\$26,094	\$26,026	\$25 <i>,</i> 958	\$25,890	315,160
10	Energy Jurisdictional Factor		N/A	N/A											
11	Demand Jurisdictional Factor - Production (Base)		0.92865	0.92865	0.92865	0.92865	0.92865	0.92865	0.92865	0.92865	0.92865	0.92865	0.92865	0.92865	
12	Retail Energy-Related Recoverable Costs (E)		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
13	Retail Demand-Related Recoverable Costs (F)		\$24,736	\$24,673	\$24,610	\$24,547	\$24,484	\$24,421	\$24,358	\$24,295	\$24,232	\$24,169	\$24,106	\$24,043	292,674
14	Total Jurisdictional Recoverable Costs (Lines 12 + 13)	-	\$24,736	\$24,673	\$24,610	\$24,547	\$24,484	\$24,421	\$24,358	\$24,295	\$24,232	\$24,169	\$24,106	\$24,043	\$292,674

Notes:

(A) N/A (B) Line 6 x 7.52% x 1/12. Based on ROE of 9.85%, weighted cost of equity component of capital structure of 4.34% and statutory tax rate of 25.345% (inc tax multiplier = 1.3394950). (C) Line 2 x rate x 1/12. Depreciation rate based on approved rates in Order PSC-2021-0202-AS-EI.

(D) Line 2 x rate x 1/12. Based on 2021 Effective Tax Rate on original cost.

(E) Line 9a x Line 10

(F) Line 9b x Line 11

Docket No. 20220007-EI Duke Energy Florida Witness: G. P. Dean Exh. No. __ (GPD-3) Page 14 of 18

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

		Beginning of	Actual	Actual	Actual	Actual	Actual	Actual	Estimated	Estimated	Estimated	Estimated	Estimated	Estimated	End of Period
Line	Description	Period Amount	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Total
1	Investments														
	a. Expenditures/Additions		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	b. Clearings to Plant		0	0	0	0	0	0	0	0	0	0	0	0	
	c. Retirements		0	0	0	0	0	0	0	0	0	0	0	0	
	d. Other (A)		0	0	0	0	0	0	0	0	0	0	0	0	
2	Plant-in-Service/Depreciation Base	\$12,841,870	12,841,870	12,841,870	12,841,870	12,841,870	12,841,870	12,841,870	12,841,870	12,841,870	12,841,870	12,841,870	12,841,870	12,841,870	
3	Less: Accumulated Depreciation	(3,000,702)	(3,035,369)	(3,070,036)	(3,104,703)	(3,139,370)	(3,174,037)	(3,208,704)	(3,243,371)	(3,278,038)	(3,312,705)	(3,347,372)	(3,382,039)	(3,416,706)	
4	CWIP - Non-Interest Bearing	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	Net Investment (Lines 2 + 3 + 4)	\$9,841,168	\$9,806,501	\$9,771,834	\$9,737,167	\$9,702,500	\$9,667,833	\$9,633,166	\$9,598,499	\$9,563,832	\$9,529,165	\$9,494,498	\$9,459,831	\$9,425,164	
6	Average Net Investment		\$9,823,835	\$9,789,168	\$9,754,501	\$9,719,834	\$9,685,167	\$9 <i>,</i> 650,500	\$9,615,833	\$9,581,166	\$9,546,499	\$9,511,832	\$9,477,165	\$9,442,498	
7	Return on Average Net Investment (B)														
	a. Debt Component 1.62%		13,295	13,248	13,201	13,154	13,107	13,060	13,013	12,966	12,919	12,872	12,825	12,778	156,438
	b. Equity Component Grossed Up For Taxes 5.90%		48,288	48,118	47,947	47,777	47,606	47,436	47,266	47,095	46,925	46,754	46 <i>,</i> 584	46,414	568,210
	c. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
8	Investment Expenses														
	a. Depreciation (C) 3.2394%		34,667	34,667	34,667	34,667	34,667	34,667	34,667	34,667	34,667	34,667	34,667	34,667	416,004
	b. Amortization		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Dismantlement		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	d. Property Taxes (D) 0.007490		8,015	8,015	8,015	8,015	8,015	8,015	8,015	8,015	8,015	8,015	8,015	8,015	96,180
	e. Other	—	0	0	0	0	0	0	0	0	0	0	0	0	0
9	Total System Recoverable Expenses (Lines 7 + 8)		\$104,265	\$104,048	\$103,830	\$103,613	\$103,395	\$103,178	\$102,961	\$102,743	\$102,526	\$102,308	\$102,091	\$101,874	1,236,832
	a. Recoverable Costs Allocated to Energy		0	0	0	0	0	0	0	0	0	0	0	0	0
	b. Recoverable Costs Allocated to Demand		\$104,265	\$104,048	\$103,830	\$103,613	\$103 <i>,</i> 395	\$103 <i>,</i> 178	\$102,961	\$102,743	\$102,526	\$102,308	\$102,091	\$101,874	1,236,832
10	Energy Jurisdictional Factor		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
11	Demand Jurisdictional Factor - Production (Intermediate)		0.88321	0.88321	0.88321	0.88321	0.88321	0.88321	0.88321	0.88321	0.88321	0.88321	0.88321	0.88321	
12	Retail Energy-Related Recoverable Costs (E)		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
13	Retail Demand-Related Recoverable Costs (F)		92,088	91,896	91,70 <u>4</u>	91,512	91,319	91,128	90,936	90,743	90,552	90,359	90,168	89,976	1,092,380
14	Total Jurisdictional Recoverable Costs (Lines 12 + 13)	_	\$92 <i>,</i> 088	\$91,896	\$91,704	\$91,512	\$91,319	\$91,128	\$90,936	\$90,743	\$90,552	\$90,359	\$90,168	\$89,976	\$1,092,380

<u>Notes:</u> (A) N/A (B) ' (B) Line 6 x 7.52% x 1/12. Based on ROE of 9.85%, weighted cost of equity component of capital structure of 4.34% and statutory tax rate of 25.345% (inc tax multiplier = 1.3394950). (C) Line 2 x rate x 1/12. Depreciation rate based on approved rates in Order PSC-2021-0202-AS-EI.

(D) Line 2 x rate x 1/12. Based on 2021 Effective Tax Rate on original cost.

(E) Line 9a x Line 10

(F) Line 9b x Line 11

Form 42 8E Page 7 of 9

Docket No. 20220007-EI Duke Energy Florida Witness: G. P. Dean Exh. No. ___ (GPD-3) Page 15 of 18

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

Line	Description		Beginning of Period Amount	Actual Jan-22	Actual Feb-22	Actual Mar-22
1	Investments					
	a. Expenditures/Additions			\$0	\$0	\$0
	b. Clearings to Plant			0	0	0
	c. Retirements			0	0	0
	d. Other (A)			0	0	0
2	Plant-in-Service/Depreciation Base		\$3,690,187	3,690,187	3,690,187	3,690,187
3	Less: Accumulated Depreciation		(503,933)	(519,219)	(534,505)	(549,791)
4	CWIP - Non-Interest Bearing		0	0	0	0
5	Net Investment (Lines 2 + 3 + 4)		\$3,186,254	\$3,170,968	\$3,155,682	\$3,140,396
6	Average Net Investment			\$3,178,611	\$3,163,325	\$3,148,039
7	Return on Average Net Investment (B)					
	a. Debt Component 1	L.62%		4,302	4,281	4,260
	b. Equity Component Grossed Up For Taxes	5.90%		15,624	15,549	15,474
	c. Other			0	0	0
8	Investment Expenses					
	a. Depreciation (C) 4.9707%			15,286	15,286	15,286
	b. Amortization			0	0	0
	c. Dismantlement			N/A	N/A	N/A
	d. Property Taxes (D) 0.000497			153	153	153
	e. Other		_	0	0	0
9	Total System Recoverable Expenses (Lines 7 + 8)			\$35 <i>,</i> 365	\$35,269	\$35,173
	a. Recoverable Costs Allocated to Energy			35,365	35,269	35,173
	b. Recoverable Costs Allocated to Demand			\$0	\$0	\$0
10	Energy Jurisdictional Factor			0.92760	0.94600	0.94580
11	Demand Jurisdictional Factor			N/A	N/A	N/A
12	Retail Energy-Related Recoverable Costs (F)			\$32,805	\$33,364	\$33,267
13	Retail Demand-Related Recoverable Costs (F)			0	0	0
14	Total Jurisdictional Recoverable Costs (Lines 12 + 13)			\$32,805	\$33,364	\$33,267
				. , -	. ,	. ,

Notes:

(A) N/A (B) Line 6 x 7.52% x 1/12. Based on ROE of 9.85%, weighted cost of equity component of capital structure of 4.34% and statutory tax rate of 25.345% (inc tax multiplier = 1.3394950).

(C) Line 2 x rate x 1/12. Depreciation rate based on approved rates in Order PSC-2021-0202-AS-EI.

(D) Line 2 x rate x 1/12. Based on 2021 Effective Tax Rate on original cost.

(E) Line 9a x Line 10

(F) Line 9b x Line 11

Actual Apr-22

\$0

0

0

0

0

4,240

0

0

N/A 153

0

\$35,078

35*,*078

0.93710

\$32*,*872

\$32,872

N/A

0

\$0

0

\$0

\$34,982

34,982

0.88620

\$31,001

\$31,001

N/A

0

0

\$0

\$34,885

34*,*885

0.85240

\$29*,*736

\$29*,*736

N/A

0

0

\$34,789

34,789

0.90023

\$31,318

\$31,318

N/A

0

\$0

0

\$0

N/A

0

\$34*,*694

34,694

0.90279

\$31*,*321

\$31,321

15,399

15,286

3,690,187

(565,077)

\$3,125,110

\$3,132,753

								Page 16 of 18
Actual May-22	Actual Jun-22	Estimated Jul-22	Estimated Aug-22	Estimated Sep-22	Estimated Oct-22	Estimated Nov-22	Estimated Dec-22	End of Period Total
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Ç0 0	Ç0 0	Ç0 0	0 0	,0 0	Ç0 0	,0 0	ÇÇ O	φo
0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	
Ū	0	Ū	0	Ū	0	0	0	
3,690,187	3,690,187	3,690,187	3,690,187	3,690,187	3,690,187	3,690,187	3,690,187	
(580,363)	(595,649)	(610,935)	(626,221)	(641,507)	(656,793)	(672,079)	(687,365)	
0	0	0	0	0	0	0	0	
\$3,109,824	\$3,094,538	\$3,079,252	\$3,063,966	\$3,048,680	\$3,033,394	\$3,018,108	\$3,002,822	
\$3,117,467	\$3,102,181	\$3,086,895	\$3,071,609	\$3,056,323	\$3,041,037	\$3 <i>,</i> 025,751	\$3,010,465	
4,219	4,198	4,177	4,157	4,136	4,115	4,095	4.074	50.254
15.324	15.248	15.173	15.098	15.023	14.948	14.873	14.798	182.531
0	0	0	0	0	0	0	0	0
-	-	-	-	· ·	·	-	-	-
15,286	15,286	15,286	15,286	15,286	15,286	15,286	15,286	183,432
0	0	0	0	0	0	0	0	0
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
153	153	153	153	153	153	153	153	1,836

0

\$0

\$34,598

34*,*598

0.90883

\$31,444

\$31*,*444

N/A

0

0

\$0

N/A

0

\$34,502

34,502

0.88886

\$30,667

\$30,667

0

\$0

\$34,407

0.94919

\$32*,*659

\$32*,*659

N/A

0

34,407

0

\$0

\$34,311

34,311

0.92876

\$31*,*867

\$31,867

N/A

0

0

0

0

418,053

418,053

\$382,321

\$382,321

Form 42 8E Page 8 of 9

Docket No. 20220007-EI Duke Energy Florida Witness: G. P. Dean

Exh. No. __ (GPD-3)

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

Line	Description	Beginning of Period Amount	Actual Jan-22	Actual Feb-22	Actual Mar-22	Actual Apr-22	Actual May-22	Actual Jun-22	Estimated Jul-22	Estimated Aug-22	Estimated Sep-22	Estimated Oct-22	Estimated Nov-22	Estimated Dec-22	End of Period Total
1	Investments														
	a. Expenditures/Additions		\$507	(\$507)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	b. Clearings to Plant		507	(507)	0	0	0	0	0	0	0	0	0	0	
	c. Retirements		0	0	0	0	0	0	0	0	0	0	0	0	
	d. Other (A)		0	0	0	0	0	0	0	0	0	0	0	0	
2	Plant-in-Service/Depreciation Base	\$4,321,533	4,322,040	4,321,533	4,321,533	4,321,533	4,321,533	4,321,533	4,321,533	4,321,533	4,321,533	4,321,533	4,321,533	4,321,533	
3	Less: Accumulated Depreciation	(66,960)	(84,861)	(102,764)	(120,665)	(138,566)	(156,467)	(174,368)	(192,269)	(210,170)	(228,071)	(245,972)	(263,873)	(281,774)	
4	CWIP - Non-Interest Bearing	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	Net Investment (Lines 2 + 3 + 4)	\$4,254,573	\$4,237,179	\$4,218,769	\$4,200,868	\$4,182,967	\$4,165,066	\$4,147,165	\$4,129,264	\$4,111,363	\$4,093,462	\$4,075,561	\$4,057,660	\$4,039,759	
6	Average Net Investment		\$4,245,876	\$4,227,974	\$4,209,818	\$4,191,917	\$4,174,016	\$4,156,115	\$4,138,214	\$4,120,313	\$4,102,412	\$4,084,511	\$4,066,610	\$4,048,709	
7	Return on Average Net Investment (B)														
	a. Debt Component 1.62%		5,746	5,722	5,697	5,673	5,649	5,624	5,600	5,576	5,552	5,528	5,503	5,479	67,349
	b. Equity Component Grossed Up For Taxes 5.90%		20,870	20,782	20,693	20,605	20,517	20,429	20,341	20,253	20,165	20,077	19,989	19,901	244,622
	c. Other		0	0	0	0	0	0	0	0	0	0	0	0	0
8	Investment Expenses														
	a. Depreciation (C) 4.9707%		17,901	17,903	17,901	17,901	17,901	17,901	17,901	17,901	17,901	17,901	17,901	17,901	214,814
	b. Amortization		0	0	0	0	0	0	0	0	0	0	0	0	0
	c. Dismantlement		N/A	N/A	N/A	N/A	N/A	N/A	N/A						
	d. Property Taxes (D) 0.000497		(473)	179	179	179	179	179	179	179	179	179	179	179	1,496
	e. Other	-	0	0	0	0	0	0	0	0	0	0	0	0	0
9	Total System Recoverable Expenses (Lines 7 + 8)		\$44,044	\$44,586	\$44,470	\$44,358	\$44,246	\$44,133	\$44,021	\$43,909	\$43,797	\$43,685	\$43,572	\$43 <i>,</i> 460	528,281
	a. Recoverable Costs Allocated to Energy		0	0	0	0	0	0	0	0	0	0	0	0	0
	b. Recoverable Costs Allocated to Demand		44,044	44,586	44,470	44,358	44,246	44,133	44,021	43,909	43,797	43,685	43,572	43,460	528,281
10	Energy Jurisdictional Factor		N/A	N/A	N/A	N/A	N/A	N/A							
11	Demand Jurisdictional Factor - Production (Base)		0.92865	0.92865	0.92865	0.92865	0.92865	0.92865	0.92865	0.92865	0.92865	0.92865	0.92865	0.92865	
12	Retail Energy-Related Recoverable Costs (E)		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
13	Retail Demand-Related Recoverable Costs (F)	_	40,901	41,405	41,297	41,193	41,089	40,984	40,880	40,776	40,672	40,568	40,463	40,359	490,587
14	Total Jurisdictional Recoverable Costs (Lines 12 + 13)	_	\$40,901	\$41,405	\$41,297	\$41,193	\$41,089	\$40,984	\$40,880	\$40,776	\$40,672	\$40,568	\$40,463	\$40,35 <mark>9</mark>	\$490,587

Notes:

(A) N/A

(B) Line 6 x 7.52% x 1/12. Based on ROE of 9.85%, weighted cost of equity component of capital structure of 4.34% and statutory tax rate of 25.345% (inc tax multiplier = 1.3394950).

(C) Line 2 x rate x 1/12. Depreciation rate based on approved rates in Order PSC-2021-0202-AS-EI.

(D) Line 2 x rate x 1/12. Based on 2021 Effective Tax Rate on original cost. January includes a \$652 credit to reflect a 2021 adjustment based on the January 2021 Plant-In-Service. (E) Line 9a x Line 10

(F) Line 9b x Line 11

Form 42 8E Page 9 of 9

Docket No. 20220007-EI Duke Energy Florida Witness: G. P. Dean Exh. No. __ (GPD-3) Page 17 of 18

Capital Structure and Cost Rates

Docket No. 20220007-EI Duke Energy Florida Witness: G. P. Dean Exh. No. __ (GPD-3) Page 18 of 18

			(1)	(2)	(3)	(4)	(5)	(6)
		Ju	risdictional					Monthly
			Rate Base				Revenue	Revenue
			Adjusted	Сар	Cost	Weighted	Requirement	Requirement
		Re	tail (\$000s)	Ratio	Rate	Cost	Rate	Rate
1	Common Equity	\$	7,191,027	44.08%	9.85%	4.34%	5.81%	0.4842%
2	Long Term Debt		6,202,596	38.02%	4.14%	1.57%	1.57%	0.1308%
3	Short Term Debt		173,823	1.07%	0.45%	0.00%	0.00%	0.0000%
4	Cust Dep Active		166,911	1.02%	2.47%	0.03%	0.03%	0.0025%
5	Cust Dep Inactive		1,519	0.01%			0.00%	0.0000%
6	Invest Tax Cr		200,576	1.23%	7.21%	0.09%	0.11%	0.0092%
7	Deferred Inc Tax		2,376,787	14.57%			0.00%	0.0000%
8	3 Total		16,313,240	100.00%		6.03%	7.52%	0.6267%

				Cost					
	ITC split between Deb	ot and Equity**:	Ratio	Rate	Ratio	Ratio	Deferred Inc Tax	Weighted ITC	After Gross-up
9	Common Equity	7,191,027	54%	9.85%	5.29%	73.4%	0.09%	0.066%	0.088%
10	Preferred Equity	-	0%				0.09%	0.000%	0.000%
11	Long Term Debt	6,202,596	46%	4.14%	1.92%	26.6%	0.09%	0.024%	0.024%
12		13,393,624	100%		7.21%			0.090%	0.112%

	Breakdown of Revenue Requirement Rate of Return between Debt and Equity:			
13	Total Equity Component (Lines 1 and 9)	5.898%		
14	Total Debt Component (Lines 2, 3, 4, and 11)	1.624%		
15	Total Revenue Requirement Rate of Return	7.522%		

Notes:

Effective Tax Rate: 25.345%

Column:

- (1) Per Order No. PSC-2020-0165-PAA-EU, issued May 20, 2020, approving amended joint motion modifying WACC methodology
- (2) Column (1) / Total Column (1)
- (3) Per Order No. PSC-2020-0165-PAA-EU, issued May 20, 2020, approving amended joint motion modifying WACC methodology Line 6 and Line 12, the cost rate of ITC's is determined under Treasury Regulation section 1.46-6(b)(3)(ii).
- (4) Column (2) x Column (3)
- (5) For equity components: Column (4) / (1-effective income tax rate/100)
- * For debt components: Column (4)
- ** Line 6 is the pre-tax ITC components from Lines 9 and 11
- (6) Column (5) / 12

Form 42 9E

1		BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION
2		DIRECT TESTIMONY OF
3		REGINALD ANDERSON
4		ON BEHALF OF
5		DUKE ENERGY FLORIDA, LLC
6		DOCKET NO. 20220007-EI
7		July 29, 2022
8		
9	Q.	Please state your name and business address.
10	A.	My name is Reginald Anderson. My business address is 299 First Avenue North,
11		St. Petersburg, FL 33701.
12		
13	Q.	By whom are you employed and in what capacity?
14	A.	I am employed by Duke Energy Florida, LLC ("DEF" or the "Company") as
15		Vice President – Regulated & Renewable Energy Florida.
16		
17	Q.	Have you previously filed testimony before this Commission in Docket No.
18		20220007-EI?
19	A.	Yes, I provided direct testimony on April 1, 2022.
20		
21	Q.	Has your job description, education, background, and professional
22		experience changed since that time?
23	A.	No.
24		

1 Q. What is the purpose of your testimony?

2	A.	The purpose of my testimony is to explain material variances between 2022					
3		actual/estimated cost projections and original 2022 cost projections for					
4		environmental compliance costs associated with FPSC-approved environmental					
5		programs under my responsibility. These programs include the CAIR/CAMR					
6		Crystal River ("CR") Program (Project 7.4), and Mercury & Air Toxics Standards					
7		(MATS) – Crystal River 1&2 Program (Project 17.2).					
8							
9	Q.	Please explain the variance between actual/estimated O&M expenditures					
10		and the original projections for O&M expenditures for the CAIR/CAMR					
11		CR-Energy (Reagents) Program (Project 7.4) for the period January 2022					
12		through December 2022?					
13	А.	O&M expenditures for the CAIR/CAMR CR-Energy (Reagents) Program are					
14		forecasted to be \$630,601, or 8% lower than originally forecasted.					
15		This variance is attributable to a forecasted \$901k decrease in Ammonia expense,					
16		a \$2.52M decrease in Limestone expense, a \$38k decrease in Dibasic Acid					
17		expense, and a \$671k decrease in Hydrated Lime expense. These were partially					
18		offset by a \$3M decrease in the projected credit for Gypsum Sales and a \$492k					
19		increase in Caustic expense.					
20							
21	Q.	Does this conclude your testimony?					
22	A.	Yes.					
23							

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

DIRECT TESTIMONY OF

ERIC SZKOLNYJ

ON BEHALF OF

DUKE ENERGY FLORIDA, LLC

DOCKET NO. 20220007-EI

July 29, 2022

1	Q.	Please state your name and business address.
2	A.	My name is Eric Szkolnyj. My business address is 526 South Church Street, Charlotte, NC
3		28202.
4		
5	Q.	By whom are you employed?
6	A.	I am employed by Duke Energy Corporation ("Duke Energy") as General Manager for the
7		Coal Combustion Products ("CCP") Group - Operations & Maintenance. Duke Energy
8		Florida, LLC ("DEF" or the "Company") is a fully owned subsidiary of Duke Energy.
9		
10	Q.	Have you previously filed testimony before this Commission in Docket No. 20220007-
11		E1?
12	A.	Yes, I provided direct testimony on April 1, 2022.
13		
14	Q.	Has your job description, education, background, and professional experience changed
15		since that time?
16	A.	No.

2	Q.	What is the purpose of your testimony?
3	A.	The purpose of my testimony is to explain material variances between 2022 actual/estimated
4		cost projections and original 2022 cost projections for environmental compliance costs
5		associated with DEF's Coal Combustion Residual ("CCR") Rule compliance project.
6		
7	Q.	Please explain the O&M variance between actual/estimated project expenditures and
8		original projections for CCR (Project 18) O&M for the period January 2022 through
9		December 2022.
10	A.	O&M expenditures for CCR are expected to be \$60,340, or 18% higher than projected. This
11		is primarily due to two additional rounds of groundwater samples being collected than
12		originally forecasted, and landfill permit fees.
13		
14	Q.	Does this conclude your testimony?
15	A.	Yes.
16		
17		
18		
19		
20		

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

DIRECT TESTIMONY OF

KIM SPENCE McDANIEL

ON BEHALF OF

DUKE ENERGY FLORIDA, LLC

DOCKET NO. 20220007-EI

July 29, 2022

1	Q.	Please state your name and business address.
2	А.	My name is Kim S. McDaniel. My business address is 299 First Avenue North,
3		St. Petersburg, FL 33701.
4		
5	Q.	By whom are you employed and in what capacity?
6	А.	I am employed by Duke Energy Florida, LLC ("DEF" or the "Company") as
7		Manager of Environmental Services.
8		
9	Q.	Have you previously filed testimony before this Commission in Docket No.
10		20220007-EI?
11	А.	Yes, I provided direct testimony on April 1, 2022.
12		
13	Q.	Has your job description, education, background and professional
14		experience changed since that time?
15	A.	No.
16		

1

Q.

What is the purpose of your testimony?

The purpose of my testimony is to explain material variances between 2022 2 A. 3 actual/estimated cost projections and original 2022 cost projections for 4 environmental compliance costs associated with FPSC-approved programs under 5 my responsibility. These programs include the Substation Environmental 6 Investigation, Remediation and Pollution Prevention Program (Project 1 & 1a), 7 Distribution System Environmental Investigation, Remediation and Pollution 8 Prevention Program (Project 2), Pipeline Integrity Management (PIM) (Project 9 3), Above Ground Secondary Containment (Project 4), Phase II Cooling Water 10 Intake – 316(b) (Project 6), CAIR/CAMR - Peaking (Project 7.2), Best Available Retrofit Technology (BART) (Project 7.5), Arsenic Groundwater Standard 11 12 (Project 8), Sea Turtle Coastal Street Lighting Program (Project 9), Underground 13 Storage Tanks (Project 10), Modular Cooling Towers (Project 11), Thermal 14 Discharge Permanent Cooling Tower (Project 11.1), Greenhouse Gas Inventory 15 and Reporting (Project 12), Mercury Total Daily Maximum Loads Monitoring 16 (Project 13), Hazardous Air Pollutants Information Collection Request (ICR) 17 Program (Project 14), Effluent Limitation Guidelines Program (Project 15.1), 18 National Pollutant Discharge Elimination System (NPDES) (Project 16), and 19 Mercury and Air Toxics Standards (MATS) – Crystal River (CR) 4&5 (Project 20 17), for the period January 2022 through December 2022.

21

Q. Please explain the variance between actual/estimated O&M project
expenditures and original projections for Phase II Cooling Water Intake

- 316(b) (Projects 6 & 6a) for the period January 2022 through December
 2022.
- 3 A. O&M expenditures for Phase II Cooling Water Intake 316(b) are expected to be
 \$93,941 (34%) lower than originally forecasted.
- Project 6, 316(b) Base, is forecasted to be \$124k higher than forecasted. This
 variance is due to the fact that O&M expenditures for the Crystal River 316(b)
 compliant screens were not included in previous projections. These O&M
 expenditures are required for the periodic removal and cleaning of the screens to
 ensure they continue functioning properly as designed.
- 10 Project 6a, 316(b) – Intermediate, is forecasted to be \$218k, or 84% lower than 11 originally forecasted. This variance is primarily due to the continued delay in 12 permit issuance from the Florida Department of Environmental Protection 13 ("FDEP"). While it is unclear when the FDEP will issue the National Pollutant 14 Discharge Elimination System ("NPDES") permit renewal, permit issuance could 15 occur during the fourth quarter of 2022, in which case DEF currently proposes to 16 initiate development of a study plan to verify that impingement meets the 17 mortality standard in the 316(b) rule with a 24-month field monitoring effort to begin during 2023 after FDEP approval of the study plan. 18
- 19

Q. Please explain the variance between actual/estimated Capital project
expenditures and original projections for Phase II Cooling Water Intake
316(b) - Base (Project 6) for the period January 2022 through December
2022.

3

1	А.	Capital expenditures for Phase II Cooling Water Intake 316(b) Base are expected
2		to be \$425,824. This updated forecast is due to expenses associated with
3		constructing a steel structure to properly hold and store the newly installed 316(b)
4		compliant screens during cleaning. Unlike prior screens, the materials from which
5		these screens are constructed require construction of a steel structure to hold the
6		screens in the upright position to prevent damage to the screens during cleaning.
7		
8	Q.	Please explain the variance between actual/estimated Capital project
9		expenditures and original projections for Phase II Cooling Water Intake
10		316(b) – Base, (Project 6.1) for the period January 2022 through December
11		2022.
12	А.	Capital expenditures for Phase II Cooling Water Intake 316(b) Base – Bartow, are
13		expected to be \$920,901 or 86% lower than originally forecasted. This variance
14		is primarily due to the continued delay in permit issuance from the FDEP. While
15		it is unclear when the FDEP will issue the NPDES permit renewal, permit
16		issuance could occur during the fourth quarter of 2022 in which case replacement
17		of travelling screens could commence by the end of 2022.
18		
19	Q.	Please explain the variance between actual/estimated O&M project
20		expenditures and original projections for National Emission Standards for
21		Hazardous Air Pollutants ("NESHAP") - Base (Project 7.6) for the period
22		January 2022 through December 2022.
23	A.	O&M expenditures for NESHAP are expected to be \$170,448. This project was
24		not originally forecasted for 2022.

2

3

Q. Please provide an update on National Emission Standards for Hazardous Air Pollutants ("NESHAP") project (Project 7.6).

- 4 As referenced in the April 1, 2022 testimony of Kim McDaniel, Docket No.
- 5 20220007-EI, DEF's Bartow Combined Cycle, Hines Energy Complex, and
- 6 Citrus Combined Cycle, units are subject to NESHAP for stationary combustion
- turbines ("CTs") that are located at major sources of hazardous air pollutants
 ("HAPs").

9 <u>Bartow Combined Cycle Station ("BCC") and Hines Energy Complex</u> 10 ("HEC")

As previously stated in Ms. McDaniel's April 1, 2022 testimony, applications requesting reclassification of HEC and BCC as an Area Source were sent to FDEP for review on March 15, 2022 and March 23, 2022, respectively. Title V permit revisions reclassifying HEC and BCC as Area Sources were issued May 4th and June 8th respectively. HEC and BCC are no longer subject to NESHAPS for stationary combustion turbines ("CTs") subpart YYYY.

17 Citrus Combined Cycle Station ("CCC")

During the week of May 16th, engineering testing was initiated at the CCC units to collect data that is supporting the development of an Alternate Monitoring Plan (AMP) that identifies the operating limitation(s) that will be used to ensure continuous compliance with the formaldehyde emissions limitation. DEF will also be exploring, through emissions testing of the Crystal River North coal units, the potential for reclassifying the Citrus Combined Cycle/Crystal River Site as an Area Source. Since the Crystal River North coal units and the Citrus Combined

1		Cycle units are contiguous and therefore share a Title V permit, emissions from
2		both sites factor into the Area Source determination. Should DEF be successful
3		in reclassifying the Citrus Combined Cycle/Crystal River site as an Area Source,
4		the site will no longer be subject to the NESHAP for stationary CTs, subpart
5		YYYY, and the AMP will not be necessary. DEF will provide the Commission
6		an update on the status of the NESHAP strategy in the next available ECRC filing.
7		
8	Q.	Please explain the variance between actual/estimated O&M project
9		expenditures and original projections for Arsenic Groundwater Standard -
10		Base (Project 8) for the period January 2022 through December 2022.
11	A.	O&M expenditures for Arsenic Groundwater Standard - Base are expected to be
12		\$27,031 or 36% lower than forecasted, due to the timing of the final site
13		rehabilitation report moving to 2023. The FDEP is requiring additional
14		groundwater monitoring and assessment before a final site rehabilitation report
15		and a No Further Action ("NFA") request can be developed and submitted. This
16		will now occur in 2023.
17		
18	Q.	Please explain the variance between actual/estimated O&M project
19		expenditures and original projections for National Pollutant Discharge
20		Elimination System ("NPDES") (Project 16) for the period January 2022
21		through December 2022.
22	А.	O&M expenditures for NPDES are expected to be \$6,207 (20%) higher than
23		forecasted. This is primarily due to two supply chain related price increases from
24		contract laboratories that occurred in January and in June 2022.

2

3

4

5

Q. Please explain the variance between actual/estimated O&M project expenditures and original projections for Mercury & Air Toxic Standards ("MATS") CR4 & CR5 - Energy (Project 17) for the period January 2022 through December 2022.

A. O&M expenditures for NPDES are expected to be \$24,641 (13%) higher than
forecasted. The original budget was for one unit only, however, Crystal River
performed outages on both units, allowing for MATS testing to be completed on
both units during the first half of this year.

10

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

12 A. The 316(b) rule became effective October 15, 2014, to minimize impingement 13 and entrainment of fish and aquatic life drawn into cooling systems at power 14 plants and factories. There are seven pre-approved impingement options. Entrainment compliance is site-specific (mesh screen or closed-cycle cooling). 15 16 Legal challenges to the 316(b) rule have so far been unsuccessful. The U.S. Court 17 of Appeals for the Second Circuit issued an opinion on the consolidated 18 challenges to the 316(b) Rule for Existing Facilities. The court upheld the Rule, 19 the National Marine Fisheries Service and the U.S. Fish and Wildlife Service 20 biological opinions, and the incidental take statement, concluding that each action 21 was based on reasonable interpretations of the applicable statutes and sufficiently 22 supported by the adequate record. The court also found the Environmental 23 Protection Agency ("EPA") complied with applicable procedures, including by 24 giving adequate notice of the final rule's provisions to the public.

1 The regulation primarily applies to facilities that commenced construction on or 2 before January 17, 2002, and to new units at existing facilities that are built to 3 increase the generating capacity of the facility. All facilities that withdraw greater 4 than 2 million gallons per day from waters of the U.S. and where twenty-five 5 percent (25%) of the withdrawn water is used for cooling purposes are subject to 6 the regulation.

7 Per the final rule, required 316(b) studies and information submittals will be tied 8 to NPDES permit renewals. For permits that expire within 45 months of the 9 effective date of the final rule, certain information must be submitted with the 10 renewal application. Other information, including field study results, are required 11 to be submitted pursuant to a schedule included in the re-issued NPDES permit. 12 Both the Anclote and Bartow stations are within this schedule and the NPDES 13 permit renewal applications, including the studies and information required under 14 40 CFR 122.21(r)(2-13) as required by the 316(b) rule of the Clean Water Act, 15 were submitted to FDEP for Anclote and Bartow in July and August 2020 16 respectively. A 316(b) Compliance Plan for Crystal River Units 4&5 utilizing the 17 cooling water blowdown from the Citrus Combined Cycle Station as the source 18 of make-up water for Crystal River Units 4&5 is being implemented as part of the 19 current permit renewal for those units.

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

The Bartow Station will require modifications to comply with the 316(b) Rule.
DEF is proposing that the Anclote station can meet 316(b) requirements with

existing infrastructure, but additional studies to demonstrate compliance will
likely be required by the permit. DEF has been conducting 316(b) studies at the
Anclote and Bartow stations, and study results along with proposed compliance
strategies were filed with the FDEP in July and August 2020, respectively as part
of the NPDES renewal process. Proposed compliance strategies for both are being
evaluated by FDEP as part of the NPDES permit renewal.

7 The full extent of compliance activities and associated expenditures cannot be 8 determined until review of the proposed options by FDEP has been completed and 9 the NPDES permit renewal issued with new compliance requirements and 10 schedules. While unlikely, it is possible preliminary studies could begin as early 11 as the fourth quarter of 2022 if the final NPDES renewal is issued by FDEP by 12 early fourth quarter of this year. Due to the complexity of the 316(b) studies and 13 proposals under review by the agency, it is difficult to assess the timing or the 14 outcome of the final NPDES permit renewal. DEF will provide the Commission 15 an update on the status of the 316(b) Rule compliance strategies for the Anclote 16 and Bartow stations in the next available ECRC filing following issuance of the 17 NPDES permit renewal.

18

19 Q. Please provide an update on the Waters of the United States ("WOTUS") 20 Rule.

A. On June 29, 2015 the EPA and the Army Corps of Engineers ("Corps") published
the final Clean Water Rule that significantly expanded the definition of the Waters
of the United States ("WOTUS"). On October 9, 2015 the U.S. Court of Appeals
for the Sixth Circuit granted a nationwide stay of the rule effective through the

1 conclusion of the judicial review process. On February 22, 2016 the Sixth Circuit 2 issued an opinion that it has jurisdiction and is the appropriate venue to hear the 3 merits of legal challenges to the rule; however, that decision was contested, and 4 on January 22, 2018, the U.S. Supreme Court issued its decision stating federal 5 district courts, instead of federal appellate courts, have jurisdiction over 6 challenges to the rule defining waters of the United States Consistent with the 7 U.S. Supreme Court decision, the U.S. Court of Appeals for the Sixth Circuit 8 lifted its nationwide stay on February 28, 2018. The stay issued by the North 9 Dakota District Court remains in effect, but only within the thirteen states within 10 the North Dakota District. On February 28, 2017, President Trump signed an 11 executive order laying out a new policy direction for how "Waters of the United 12 States" should be defined and directing the EPA and the Corps to initiate a 13 rulemaking to either rescind or revise the 2015 Clean Water Rule developed by 14 the Obama administration. Subsequently, the EPA Administrator signed a pre-15 publication notice reflecting the intent to move forward with rulemaking in 16 response to this directive. In addition, the executive order seeks to have the 17 Department of Justice determine the path forward on the Clean Water Rule 18 litigation in light of the new policy direction.

19On January 31, 2018, the EPA and Corps announced a final rule adding20an applicability date to the 2015 rule defining "waters of the United States,"21thereby deferring implementation of the 2015 WOTUS Rule until early 2020.22This rule has no immediate impact to Duke Energy, and the agencies will23continue to apply the pre-existing WOTUS definition in place prior to the 201524rule until 2020.

		11
24	Q.	Does this conclude your testimony?
23		
22		changes to ascertain any further compliance steps that may be required.
21		DEF will continue to monitor the status of the rule and any proposed
20		2022.
19		February 7, 2022. The EPA currently plans to publish a final rule in August
18		WOTUS rule. The public comment period for this proposed rule closed on
17		proposed rule to officially repeal the NWPR Rule and replace it with the 1986
16		NWPR Rule had ceased and on December 7, 2021, the EPA published a
15		and Corps announced on September 3, 2021 that efforts to implement the
14		August 30, 2021, which vacated and remanded the rule nationwide. The EPA
13		Court for the District of Arizona vacated and remanded the NWPR Rule on
12		directed the EPA and the Corps to review the NWPR Rule. The US District
11		On January 20, 2021, through Executive Order 13990, the Biden Administration
10		with respect to the operation of our existing generation facilities.
9		rule and determined there are no impacts associated with the 2020 WOTUS Rule
8		definition of the WOTUS in the Federal Register. DEF has reviewed the final
7		(NWPR Rule). On April 21, 2020, the EPA and Corps published the modified
6		Navigable Waters Protection Rule: Definition of "Waters of the United States."
5		January 23, 2020, the EPA and Corps released a pre-publication version of <i>The</i>
4		the 2015 definition adopted by the Obama Administration (Proposed Rule). On
3		proposed to narrow the extent of Clean Water Act jurisdiction as compared to
2		Register, the "Revised Definition of 'Waters of the United States," which
1		On February 14, 2019, the EPA and Corps published in the Federal

1	A.	Yes.	
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