AUSLEY & MCMULLEN

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ORIGINAL

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February 18, 1998

HAND DELIVERED

Ms. Blanca S. Bayo, Director Division of Records and Reporting Florida Public Service Commission 101 East Gaines Street Tallahassee, Florida 32399-0850

> Re: Environmental Cost Recovery Clause FPSC Docket No. 980007-EI

Dear Ms. Bayo:

On November 17, 1997 Tampa Electric Company submitted the Prepared Direct Testimony and Exhibit of Karen C. Zwolak regarding the Environmental Cost Recovery final true-ups for the period April through September 1997. On January 14, 1998 the company submitted the Prepared Direct Testimony and Exhibit of Karen O. Zwolak regarding Environmental Cost Recovery projections. Subsequently, revisions were made to both the November filing and the January filing. At Staff's suggestion and to facilitate reference to Ms. Zwolak's testimonies and exhibits, the company has prepared consolidated versions of both the true-up and projection testimonies and exhibits which include all of the previously made revisions.

Enclosed for filing in the above docket are the original and

ACKfifteen (15) copies each of Ms. Zwola	ak's true-up testimony and
AFA Modwaxhibit and projection testimony and ex	hibit, both marked "Revised
February 18, 1998." We request that the substituted in place of those previous	ously filed.
CAF	ing of the should by stamping
CMU — the duplicate copy of this letter ar	nd returning same to this
CTRwriter.	L C
EAG ten Thank you for your assistance in co	onnection with this matter.
LEG	. 5
LIN 3YMA Sincerely	, i
OPC	and the second s
RCH Sames D.	Beasley
SEC -	DOCUMENT NUMBER-DATE
WASJDB/pp Enclosures	Deediten Horisek-DATE
OTH	C2363 FEB 18 R
cc: All Parties of Record (w/encls.)	FPSC-RECORDS/REPORTING

FPSC-RECORDS/REPORTIN

ORIGINAL DOCKET NO. 980007-EI

DOCKET NO. 980007-EI FILED 01/14/1998 REVISED 02/18/1998

1	1	BEFORE THE PUBLIC SERVICE COMMISSION
2		PREPARED DIRECT TESTIMONY
3		OF
4		KAREN O. ZWOLAK
5		
6	Q.	Please state your name, address, occupation and employer.
7		
8	А.	My name is Karen O. Zwolak. My business address is 702
9		North Franklin Street, Tampa, Florida 33602. I am employed
10		by Tampa Electric Company in the position of Manager,
11		Energy Issues in the Electric Regulatory Affairs
12		Department.
13		
14	Q.	Please provide a brief outline of your educational
1.5	1	background and business experience.
16	4	
17	À.	I received a Bachelor of Arts Degree in Microbiology in
18		1977 and a Bachelor of Science degree in Chemical
19		Engineering in 1985 from the University of South Florida.
20		I began my engineering career in 1986 at the Florida
21		Department of Environmental Regulation and was employed as
22		a Permitting Engineer in the Industrial Wastewater Program.
23		In 1990, I joined Tampa Electric Company as an engineer in
4		the Environmental Planning Department and was responsible
25		for permitting and compliance issues relating to wastewater

DOCUMENT NUMBER-DATE

02363 FEB 188

Electric's Energy Supply Department and assumed the duties of the plant chemical engineer at the F. J. Gannon Station. In this position, I was responsible for boiler chemistry, water management, and maintenance of environmental equipment and general engineering support. In 1997, I was promoted to Manager, Energy Issues in the Electric Regulatory Affairs Department. My present responsibilities include the areas of fuel adjustment, capacity cost recovery, environmental filings and rate design.

Q. What is the purpose of your testimony in this proceeding?

A. The purpose of my testimony is to present, for Commission review and approval, both the calculation of the revenue requirements and the development of the environmental cost recovery factors for the billing period April 1998 through September 1998. My testimony also addresses the recovery of costs associated with the environmental compliance activities for this period as well as the actual/estimated costs for the October 1997 through March 1998 period. Finally, my testimony provides an explanation of significant project variances.

Q. Do you wish to sponsor exhibits in support of your

testimony?

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My Exhibit No. (KOZ-1) consisting of 38 documents, was prepared under my direction and supervision. Form 42-1P summarizes the costs being presented for recovery at this time; Form 42-2P reflects the total jurisdictional recoverable costs for O & M activities; Form 42-3P reflects the total jurisdictional recoverable costs for capital investment projects; Form 42-4P, pages 1 through 8, consists of the calculation of depreciation expense and return on capital investment for each project; Form 42-5P gives the description and progress of environmental compliance activities and projects to be recovered through the clause for the projected period; Form 42-6P reflects the calculation of the energy and demand allocation percentages by rate class and Form 42-7P reflects the calculation of the ECRC factors. In addition, Forms 42-1E through 42-8E reflect the true-up and variance calculation for the prior period.

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21

22

Q. What is the source of the data which you will present by way of testimony or exhibits in this proceeding?

23

24

25

A. Unless otherwise indicated, the actual data is taken from the books and records of Tampa Electric Company. The books

and records are kept in the regular course of our business in accordance with generally accepted accounting principles and practices, and provisions of the liform System of Accounts as prescribed by this Commission.

Q. What has Tampa Electric calculated as the total true-up to be applied in the period April 1998 through September 1998?

A. The total true-up for this period is an over / (under) recovery of \$137,563. This true-up consists of a final true-up over / (under) recovery of \$616,353 as revised to include interest provisions for the FMPA SO2 allowance credit, and a two month actual/four month estimated true-up over / (under) recovery of (\$478,790) for the October 1997 through March 1998 period. A detailed calculation supporting the estimated true-up is shown on Schedules 42-1E through 42-8E of my Exhibit.

Q. How do the actual/estimated project expenditures for October 1997 through March 1998 period compale with the original projection?

A. As shown on Form 42-4E, total 0 & M activities were \$549,855 greater than projected. Significant 0 & M project variances are explained below.

1. Big Bend Units 1 and 2 Flue Gas Conditioning Project Project expenditures were \$3,643 less than projected, a variance of -14.2%, as a result of the removal of payroll expense recovery from the ECRC (Commission Order No. PSC-97-1047-FOF-EI, Docket No. 970007-EI).

- 2. SO2 Emission Allowance Project Project expenditures were \$568,378 greater than projected, a variance of 40.2%. This variance is due to allowance purchases in the month of August, 1997 that were not included in the original projection; an increased SO2 allowance consumption for the period October 1997 to March 1998 and expenses incurred from reimbursing Qualifying Facilities for avoided SO2 allowance costs.
- Q. Have the projected incremental costs for SO2 emission allowances incurred by Tampa Electric's wholesale sale to the Florida Municipal Power Agency (FMPA) been identified and included in this projection filing?
- A. Yes, they have. As per Commission Order No. PSC-97-1273FOF-EU, Docket No. 970171-EU, the incremental SO2
 allowance costs projected to be incurred by the FMIA
 wholesale sale for the period April 1998 through September
 1998 have been identified and are included as a credit to

the retail ratepayers on line 1j of Schedule 42-2P of this 1 projection filing. 2 3 What are the projected incremental SO2 allowance costs for 4 0. the FMPA wholesale sale for the period April 1998 through 5 September 1998? 6 7 Based on the PROMOD analysis, Tampa Electric has projected 8 SO2 costs for the FMPA wholesale sale for the period April 9 1998 through September 1998 to be \$20,000. 10 11 How will be these costs be determined on an actual basis? 12 Q. 13 Tampa Electric will be able to determine the actual A. 14 incremental SO2 allowance costs incurred by FMPA on an 15 hourly, real time basis by using its' Dispatch quote. 16 incremental costs will be based upon the difference between 17 18 the Dispatch quote which will include incremental SO2 allowance costs and a production run that does not include 19 any SO2 allowance costs. 20 21 What environmental compliance costs is Tampa Electric 22 Q. requesting for recovery through the Environmental Cost 23

24

25

1998?

Recovery Clause for the period April 1998 through September

A. Tampa Electric is requesting recovery for a total of nine environmental compliance projects. Projected costs for theses projects are shown on Forms 42-1P through 42-7P.

Four of the nine projects were previously approved for cost recovery through the ECRC and are on-going compliance activities. The newly included five environmental compliance projects are the Gannon Ignition Oil Tank Upgrade, Big Bend Fuel Oil Tank Number 1 Upgrade, Big Bend Fuel Oil Tank Number 2 Upgrade, Phillips Tank Number 1 Upgrade and Phillips Tank Number 4 Upgrade for FDEP.

The costs associated with the tank upgrade projects occur as a result of compliance standards imposed by the Department of Environmental Protection (DEP) Rule 62-762, Aboveground Storage Tank Systems (AST) enacted on March 12, 1991, with a compliance deadline of December 31, 1999. The rule requires various modifications to affected storage tanks which include installation of spill and secondary containment, cathodic protection and completion of tank integrity inspections by December 31, 1999. A detailed list of modifications are provided in Form 42-5P, Project Descriptions, of my Exhibit.

Q. Are the costs associated with the five new environmental

compliance activities appropriate for recovery through the Environmental Cost Recovery Clause?

A. Yes, they are. As per the requirements established in Order No. PSC-94-0044-FOF-EI, these costs were incurred after April 13, 1993, were incurred on the basis of a legal requirement of the FDEP and are not currently being recovered through base rates or any other cost recovery mechanism.

A project entitled Gannon 1 - 5A Tank Underground Piping was included in Tampa Electric's last rate proceeding and was originally estimated to cost \$266,000. The project scope called for the existing piping system to be replaced with an above ground system. In order to eliminate the possibility of double recovery of the \$266,000 Tampa Electric will not include this amount in its current request for recovery.

Q. Please describe Form 42-1P.

A. Form 42-1P provides a summary of the costs being requested for recovery through the ECRC. Total recoverable revenue requirements associated with environmental activities, adjusted for taxes, are projected to be \$2,748,383 for the

period April 1998 through September 1998.

Please describe Forms 42-2P and 42-3P.

A. Form 42-2P presents the O & M activities to be recovered in the projected period along with the calculation of total jurisdictional recoverable costs for these activities, classified as energy or demand.

Form 42-3P presents the capital investment projects to be recovered in the projected period along with the calculation of total jurisdictional recoverable costs for these projects, classified as energy or demand.

Q. Please describe Form 42-6P.

A. Form 42-6P calculates the allocation factors for demand and energy at generation. The demand allocation factors are calculated by determining the percentage each rate class contributes to the monthly system peaks. The energy allocators are calculated by determining the percentage each rate class contributes to total kWh sales, as adjusted for losses, for each rate class.

Q. Please describe Form 42-7P.

1	A.	Form 42-7P presents the calculation of the proposed ECRC
2		factors by rate class.
3		
4	Q.	What is the total amount of projected recoverable costs
5		related to the period April 1998 through September 1998?
6		
7	A.	The total projected jurisdictional recoverable costs for
8		the period April 1998 through September 1998 are \$2,883,658
9		as shown on line 1c of Schedule 42-1P. This includes cost
10		related to 0 & M activities of \$1,943,566 and costs related
11		to capital projects of \$940,092 as shown on lines 10 and
12	iš.	1b of Schedule 42-1P.
13		A Light Section 1 - Section 200 and and a section 200 and and a section 200 and a se
14	Q.	What are the ECRC billing factor rates for which Tampa
15	TRE SEE	Electric is seeking approval?
16		
17	A.	The computation of the billing factors is shown on Form 42-

20	Rate Class	Factor (¢/kWh)
21	RS, RST	0.033
22	GS, GST, TS	0.033
23	GSD, GSDT	0.033
24	GSLD, GSLDT, SBF	0.032
25	IS1, IST1, SBI1,	

7P of my Exhibit. In summary, the billing factors are:

SBIT1, IS3, IST3, SBI3, SBIT3 0.031 SL, OL 0.032 When should the new environmental charges go into effect? They should go into effect commensurate with the first A. billing cycle in April 1998. Does this conclude your testimony? Yes, it does.

EXHIBIT NO._______
DOCKET NO. 980007-EI
TAMPA ELECTRIC COMPANY
(KOZ-1)
FILED: JANUARY 14, 1998
REVISED: FEBRUARY 18, 1998

ENVIRONMENTAL COST RECOVERY COMMISSION FORMS

42-1P THROUGH 42-7P APRIL 1998 THROUGH SEPTEMBER 1998

42-1E THROUGH 42-8E OCTOBER 1997 THROUGH MARCH 1998

EXHIBIT NO._____
DOCKET NO. 980007-EI
TAMPA ELECTRIC COMPANY
(KOZ-1)
FILED: JANUARY 14, 1998
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ENVIRONMENTAL COST RECOVERY COMMISSION FORMS

42-1P THROUGH 42-7P APRIL 1998 THROUGH SEPTEMBER 1998

42-1E THROUGH 42-8E OCTOBER 1997 THROUGH MARCH 1998

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Tampa Electric Company
Environmental Cost Recovery Clause (ECRC)
Total Jurisdictional Amount to Be Recovered

For the Projected Period April 1998 to September 1998

Line No.		Energy (\$)	Demand (5)	Total (8)
	 Total Jurisdiction! Pevenue Requirements for the projected period Projected OSM Activities (Form 42-2P, Lines 7, 8 & 9) Projected Capital Projects (Form 42-3P, Lines 7, 8 & 9) 	\$1,943,566	\$0	\$1,943,566
	c. Total Jurisdictional Revenue Requirements for the projected period (Lines 1a + 1b)	2,815,422	68,236	2,883,658
**	True-up for Estimated Over/(Under) Recovery for the current period October 1997 to March 1998 (Form 42-2E, Lins 5 + 6 + 10)	(077,570)	(1,220)	(478,790)
6.0	3. Final True-up for the period April 1997 to September 1997 (Form 42-1A, Lina 3)	616,353	٥	616,353
4	4. Total Jurisdictional Amount to Be Recovered/(Refunded) in the projection period April 1998 to September 1998 (Line 1 - Line 2 - Line 3)	2,676,639	69,456	69,456 2,746,095
W3	5. Total Projected Jurisdictional Amount Adjusted for Taxes (Line 4 x Revenue Tax Mutitiplier)	\$2,678,869	\$60,514	\$69,514 \$2,748,382

Allocation to energy and demand in each period are in proportion to the respective period split of costs indicated on Lines 7 and 8 of Forms 42-5 and 42-7 of the estimates and actuals.

EXHIBIT NO. DOCKET NO. 980007-EI TAMPA ELECTRIC COMPANY (KOZ-I)
FILED: JANUARY 14, 1998
DOCUMENT NO. 1
PAGE 1 OF 1
REVISED: FEBRUARY 18, 1998

FORM 42-1P

Environmental Cost Recovery Clause (ECRC) Calculation of the Projected Period Amount April 1998 to September 1998 Tampa Electric Company

O & M Activities (in Dollars)

ta Big Bend Unit 3 Flue Gas Desuffurtration inhegration to Big Bend Units 1 and 2 Flue Gas Conditioning 1c Big Bend Unit 4 Continuous Emissions Monitors 1d Garinon Ignition Oil Tank

1. Description of O&M Activities

Ė

te Big Bend Fuel Oil Tank #1 Upgrade 1f Big Bend Fuel Oil Tank \$2 Upgrade 1g Phillips Upgrade Tenk 31 for FDEP

th Philips Upgrade Tank #4 for FDEP ti SO2 Emissions Allowances

1 SO2 Credit - PuPA Total of O&M Activities

1,431,093 (20,000) \$2,080,086 16,500 Method of Classification Damand Energy (20,000) \$652,493 1,431,093 1,943,566 2,080,086 End of Period Total Projected September 98 0.9376315 253,512 432,110 432,110 405,160 \$175,848 (7,000) 276,097 \$137,637 609,484 0.9333671 Projected August 98 270,128 409,365 381,075 \$136,487 409,365 0.9308931 0.9195852 Projected July 98 \$121,689 246,721 0.9358334 0.9193269 347,344 Projected June 98 248,190 (9,000) 322,772 \$302,274 322,772 0.9364925 302,274 0.9127498 Projected May 98 (4,000) 135,195 \$125,514 0.9042212 125,514 0.9283895 Projected April 98

\$1,943,586 \$405,160 \$382,199 \$381,075 \$347,344

Motor:

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

EXHIBIT NO.

DOCKET NO. 980007-EI

TAMPA ELECTRIC COMPANY
(KOZ-1)

FILED: JANUARY 14, 1998
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REVISED: FEBRUARY 18, 1998 REVISED: FEBRUARY 18, 1998

FORM 42-2P

Jurisdictional Energy Recoverable Costs (A)
 7a. Add back FMPA Excess Emissions Allocation

Retail Demand Jurisdictional Factor Retail Energy Jurisdictional Factor

Recoverable Costs Allocated to Demand

Recoverable Costs Allocated to Energy

Total Jurisdictional Recoverable Costs for O&M Jurisdictional Demand Recoverable Conts (B)

Activities (Lines 7 + 8)

Environmental Cost Recovery Clause (ECRC) Calculation of the Projected Period Amount April 1998 to September 1998 Tampa Electric Company

Capital Investment Projects-Recoverable Costs (in Dollars)

0.9376315 Projected September 90 252,282 55,708 7,121 3,276 4,069 7,858 199 199 199 199 199 199 155,111 0.9333671 Projected August 98 592,469 55,840 7,140 3,291 3,894 7,477 0.9195852 5 23 14,971 70,420 155,449 Projected July 98 3,305 155,786 0.9358334 127 168,861 13,075 Projected June 98 3,720 1,329 4,296 124 156,122 9,227 0.9364925 0.9127498 Projected May 98 1,613 7,194 0.9042212 156,458 0.9283895 Projected April 98 1a Big Bend Unit 3 Plue Gas Desuffurtuation Integration 1b Big Bend Units 1 and 2 Plue Gas Conditioning 1c Big Bend Unit 4 Continuous Emissions Monitors 1d Gannon Ignition Oil Tank. nent Projects - Recoverable Conts Recoverable Costs Allocated to Demand 1f Big Bend Fuel Oil Tank #2 Upgrade 1g Phillips Upgrade Tank #1 for FDEP 1h Phillips Upgrade Tank #4 for FDEP to Big Bend Fuel Oil Tank \$1 Upgrade Recoverable Costs Allocated to Energy 1. Description of Investment Projects (A) Retail Demand Jurisdictional Factor Retail Energy Jurisdictional Factor Total Investr ன் ஏ e 4 음

335,436

Classification

Method of C

End of Period Total

\$933,701

933,701

154,775

15,876

170,853

68,236

871,856

145,122

14,242

144,778

13,768

12,020

8,421

145,254

\$940,092

\$159,726

\$159,018

\$158,475

\$157,810

\$154,628

\$150,435

1,041

\$19,789 16,807

335,436 42,892 19,789 16,807 36,341 1,041 1,041 1,045 0,008,002

3,262 4,066 7,676 388 485

(A) Each project's Total System Recoverable Expenses on Form 42-4P, Line 9

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

Notes:

TAMPA ELECTRIC COMPANY (KOZ-1) FILED: JANUARY 14, 1998 DOCUMENT NO. 3 PAGE 1 OF 1 REVISED: FEBRUARY 18, 1998

FORM 42-3P

Jurisdictional Dermand Recoverable Costs (C) Jurisdictional Energy Recoverable Costs (B)

Total Jurisdictional Recoverable Costs for

irrestment Projects (Lines 7 + 8)

Tampa Electric Company Environmental Cost Recovery Clause (ECRC) Calculation of the Projected Period Amount

April 1998 to September 1998

Return on Capital Investments, Depreciation and Taxes
For Project: Big Bend Unit 3 Flue Gas Desulfurization Integration
(in Dollars)

Form	42 -4P
Page	1 of 8

Line	Description	Beginning of Period Amount	Projected April 98	Projected May 98	Projected June 98	Projected July 98	Projected August 98	Projected September 98	End of Period Amount
1.	Investments								
	a. Expenditures/Additions		\$0	\$0	\$0	\$0	\$0	\$0	
	b. Clearings to Plant		0	0	0	0	0	0	
	c. Retirements		0	0	0	0	0	0	
	d. Other		0	0	0	0	0	0	
2.	Plant-in-Service/Depreciation Base	\$8,239,658	8,239,658	8,239,658	8,239,658	8,239,658	8,239,658	8,239,658	
	Less: Accumulated Depreciation	(624,015)	(643,241)	(682,467)	(681,693)	(700,919)	(720,145)		
4	CWIP - Non-Interest Bearing	0.	0	0	0	0	0	0	
5.	Net Investment (Lines 2 + 3 + 4)	\$7,615,643	7,596,417	7,577,191	7,557,965	7,538,739	7,519,513	7,500,287	
6.	Average Net Investment		7,606,030	7,586,804	7,567,578	7,548,352	7,529,126	7,509,900	
7.	Return on Average Net Investment								
	a. Equity Component Grossed Up For Taxes (A)		55,928	55,787	55,646	55,504	55,363	55,222	\$333,450
	b. Debt Component (Line 6 x 2.82% x1/12)		17,874	17,829	17,784	17,739	17,693	17,648	106,567
	Investment Expenses								
	a. Depreciation		19.226	19,226	19,226	19,226	19,226	40 000	115,358
	b. Amortization		0	18,220	18,226	19,220	19,226	19,226	115,356
	c. Dismantlement		0	0	0	0	0	0	0
	d. Property Taxes		0	0	0		0	0	0
	e. Other	_	0	o o	0		o o	0	ő
9.	Total Sytem Recoverable Expenses (Lines 7 + 8)		93,028	92,842	92,656	92,469	92,282	92,098	555,373
	a. Recovirable Costs Allocated to Energy		93,028	92,842	92,658	92,469	92,282	92,096	555,373
	b. Recoverable Costs Allocated to Demand		0	0	0	0	0	02,036	0
10.	Energy Jurisdictional Factor		0.9283895	0.9364925	0.9358334	0.9308931	0.9333671	0.9376315	
	Demand Jurisdictional Factor		0.9042212	0.9127498	0.9193269	0.9195852	0.9198899	0.9171904	
12.	Retail Energy-Related Recoverable Costs (B)		86,366	86,946	86,711	86,079	86,133	86,352	518,507
13.	Retail Demand-Related Recoverable Costs (C)		0	0	0	0	0	0	0
14.	Total Jurisdictional Recoverable Costs (Lines 12 + 13)		\$86,366	\$86,946	\$86,711	\$86,079	\$86,133	\$86,352	\$516,587

Notes

(A) Lines 6 x 8.8238% x 1/12. Based on ROE of 11.75% and weighted income tax rate of 38.575% (expansion factor of 1.628002)

(B) Line 9a x Line 10

(C) Line 8b x Line 11

EXHIBIT NO.__
DOCKET NO. 980007-EI
TAMPA ELECTRIC COMPANY
(KOZ-1)
FILED: JANUARY 14, 1998
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FORM 42-4P

Tampa Electric Company Environmental Cost Recovery Clause (ECRC) Calculation of the Projected Period Amount April 1998 to September 1998

Form 42 -4P Page 2 of 8

Return on Capital Investments, Depreciation and Taxes For Project: Big Bend Units 1 and 2 Flue Gas Conditioning (in Dollars)

Line	Description	Beginning of Period Amount	Projected April 98	Projected May 98	Projected June 98	Projected July 93	Projected August 98	Projected September 98	End of Period Amount
	1. Investments								
	a. Expenditure /Additions		\$0	\$0	\$0	\$0	\$0	\$0	
	b. Clearings to Plant		0	0	0	0	0	0	
	c. Retirements		. 0	0	0	0	0	0	
	d. Other		0	0	0	0	0	0	
	2. Plant-in-Service/Depreciation Base	\$5,017,734	5,017,734	5,017,734	5,017,734	5,017,734	5,017,734	5,017,734	
	3. Less: Accumulated Pepreciation	(\$617,258)	(630,862)	(644,466)	(658,070)	(671,674)	(885,278)	(608,882)	
	4. CWIP - Non-Interest Bearing	0	0	0	0	0	0	(000,002)	
	5. Net Investment (Lines 2 + 3 + 4)	\$4,400,476	4,386,872	4,373,268	4,359,664	4,346,080	4,332,450	4,318,852	
	6. Average Net Investment		4,393,674	4,380,070	4,368,466	4,352,862	4,339,258	4,325,654	
	7. Return on Average Net Investment								
	a. Equity Component Grossed Up For Taxes (A)		32,307	32,207	32,107	32,007	31,907	31,807	\$192,342
	b. Debt Component (Line 6 x 2.82% x1/12)		10,325	10,293	10,261	10,229	19,197	10,165	61,470
CT	8. Investment Expenses								
••	a. Depreciation		13,604	13,604	13,604	13,604	13,604	13,604	81,624
	b. Amortization .		0	0	0	0	0	0	0
	c. Dismantlement		0	0	0	0	0	0	0
	d. Property Taxes		0	0	0	0	0	0	0
	e. Other		0	0	. 0	0	0	0	0
	9. Total Sylem Recoverable Expenses (Lines 7 + 8)		56,236	58,104	55,972	55,840	55,708	55,576	335,438
	 Recoverable Costs Allocated to Energy 		56,236	56,104	55,972	55,840	55,708	55,576	335,436
	 Recoverable Costs Allocated to Demand 		0	0	0	0	0	0	0
	10. Energy Jurisdictional Factor		0.9283895	0.9364925	0.9358334	0.9308931	0.9333671	0.9376315	
	11. Demand Jurisdictional Factor		0.9042212	0.9127498	0.9193269	0.9195652	0.9198699	0.9171904	
	12. Retail Energy-Related Recoverable Costs (B)		52,209	52,541	52,380	51,981	51,996	52,110	313,217
	 Retail Demand-Related Recoverable Costs (C) 	92	0	0	0	0	0		0
	 Total Jurisdictional Recoverable Costs (Lines 12 + 13) 	06	\$52,209	\$52,541	\$52,380	\$51,981	\$51,996	\$52,110	\$313,217

Notes

- (A) Lines 6 x 8.8238% x 1/12. Based on ROE of 11.75% and weighted income tax rate c/ 38.575% (expansion factor of 1.628002)
- (B) Line 9a x Line 10
- (C) Line 95 x Line 11

EXHIBIT NO.
DOCKET NO. 980007-EI
TAMPA ELECTRIC COMPANY
(KOZ-1)
FILED: JANUARY 14, 1998
DOCUMENT NO.4
PAGE 2 OF 8
REVISED: FEBRUARY 18, 1998

FOPM 47-4P

Tampa Electric Company

Environmental Cost Recovery Clause (ECRC) Calculation of the Projected Period Amount April 1998 to September 1998

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Return on Capital Investments, Depreciation and Taxes For Project: Big Bend Unit 4 Continuous Emissions Monitors (in Dollars)

Line	Description	Beginning of Period Amount	Projected April 98	Projected May 98	Projected June 98	Projected July 98	Projected August 98	Projected September 98	End of Period Amount
	1 Investments								
	a. Expenditures/Additions		\$0	\$0	\$0	\$0	\$0	\$0	
	b. Clearings to Plant		0	0	0	0	0	0	
	c. Retirements		0	0	0	0	o o	0	
	d. Other		0	0	0	0	0	0	
	2. Plant-in-Service/Depreciation Base	\$868,211	866,211	866,211	866,211	866,211	866,211	866,211	
	3. Less: Accumulated Depreciation	(\$80,888)	(82,765)	(84,642)	(86,519)	(88,396)	(90,273)	(92,150)	
	4. Other (A)	(236,408)	(236,408)	(236,408)	(236,408)	(236,408)	(236,408)	(236,408)	
	5. Net Investment (Lines 2 + 3 + 4)	\$548,915	547,038	545,161	543,284	541,407	539,530	537,653	
	6. Average Not Investment		547,977	546,100	544,223	542,346	540,469	538,592	
	7. Return on Average Net Investment								
	a. Equity Component Grossed Up For Taxes (B)		4,029	4,016	4,002	3,988	3,974	3,960	\$23,969
	b. Debt Component (Line 6 x 2.82% x1/12)		1,288	1,283	1,279	1,275	1,270	1,266	7,661
מ	8. Investment Expenses								
	a. Depreciation		1,877	1,877	1,877	1,877	1,877	1,877	11,262
	b. Amortization		0	0	0	0	0	0	0
	c. Dismandement		0	0	0	0	0	0	0
	d. Property Taxes		0	0	0	0	6	0	0
	e. Other	-	0	0	0	0	0	0	0
	9. Total Sytem Recoverable Expenses (Lines 7 + 8)		7,194	7,176	7,158	7,140	7,121	7,103	42,892
	a. Recoverable Costs Allocated to Energy		7,194	7,176	7,158	7,140	7,121	7,103	42,892
	 Recoverable Costs Allocated to Demand 		0	0	0	0	0	0	0
	10. Energy Jurisdictional Factor		0.9283895	0.9364925	0.9358334	0.9308931	0.9333671	0.9378315	
	11. Demand Jurisdictional Factor		0.9042212	0.9127498	0.9193269	0.9195852	0.9198699	0.9171904	
	12. Retail Energy-Related Recoverable Costs (C)		6,679	6,720	6,690	6,647	8,847	6,880	40,052
	13. Retail Demand-Related Recoverable Costs (D)		0	0	. 0	0	. G	0	0
	 Total Jurisdictional Recoverable Costs (Lines 12 + 13) 		\$6,679	\$6,720	\$6,639	\$6,847	\$6,647	\$8,680	\$40,052

Motes

- (A) Represents the Net Book Value of the replaced Big Bend Unit 4 CEMs which in currently recovered through base rates.
- (B) Lines 6 x 8.8238% x 1/12. Based on ROE of 11.75% and weighted income tax rate of 38.575% (expansion factor of 1.628002)
- (C) Line 9a x Line 10
- (D) Line 95 x Line 11

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Tampa Electric Company Environmental Cost Recovery Clause (ECRC) Calculation of the Projected Period Amount April 1998 to September 1998

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Return on Capital Investments, Depreciation and Taxes For Project: Gannon Ignition Oil Tank (in Dollars)

Line	Description	Beginning of Period Amount	Projected April 98	Projected May 98	Projected June 98	Projected July 98	Projected August 98	Projected September 98	End of Period Amount
	1. Investments								
	a. Expenditure::/Additions		\$0	\$0	\$0	\$0	\$0	\$0	
	b. Clearings to Plant		0	0	0	0	0	0	
	c. Retirements		0	0	0	0	0	0	
	d. Other		0	0	0	0	0	0	
	2. Plant-in-Service/Depreciation Base	\$460,000	460,000	460,000	460,000	480,000	460,000	480,000	
	3. Less: Accumulated Depreciation	(\$3,672)	(5,167)	(6,862)	(8,157)	(9,652)	(11,147)	(12,642)	
	4. Other (A)	(266,000)	(266,000)	(266,000)	(266,000)	(266,000)	(266,000)	(266,000)	
	5. Net Investment (Lines 2 + 3 + 4)	\$190,328	188,833	187,338	185,843	184,348	182,853	181,358	
	6. Average Net Investment		189,581	188,086	186,591	185,096	183,601	182,106	
7	7. Return on Average Net Investment								
	a. Equity Component Grossed Up For Taxes (B)		1,394	1,383	1,372	1,361	1,350	1,339	\$8,199
	b. Debt Component (Line 6 x 2.82% x1/12)		443	442	438	435	431	428	2,620
	8. Investment Expenses								
J	a. Depreciation		1,495	1,495	1,495	1,495	1,495	1,495	8,970
	b. Amortization		0	0	0	0	0	0	0
	c. Dismandement		0	0	0	0	0	0	0
	d. Property Taxes		0	0	0	0	0	0	0
	e. Other	-	0	0	0	0	0	0	0
	9. Total Sytem Recoverable Expenses (Lines 7 + 8)		3,335	3,320	3,305	3,291	3,276	3,262	19,789
	 a. Recoverable Costs Allocated to Energy 		0	0	0	0	0	0	0
	 Recoverable Costs Allocated to Demand 		3,335	3,320	3,305	3,291	3,276	3,262	19,789
	10. Energy Jurisdictional Factor		0.9283895	0.9364925	0.9358334	0.9308931	0.9333671	0.9376315	
	11. Demand Jurisdictional Factor		0.9042212	0.9127498	0.9193269	0.9195852	0.9198699	0.9171904	
	12. Retail Energy-Related Recoverable Costs (C)		0	0	0	0	0	0	0
	13. Retail Demand-Related Recoverable Costs (D)	52	3,016	3,030	3,038	3,026	3,013	2,992	18,115
	14. Total Jurisdictional Recoverable Costs (Lines 12 + 13)		\$3,016	\$3,030	\$3,038	\$3,026	\$3,013	\$2,992	\$18,115

Notes:

(A) Represent: the Capital Costs of the Gannon Ignition Oil Tank currently recovered through base rates.

(B) Lines 6 x 8.8238% x 1/12. Based on ROE of 11.75% and weighted income tax rate of 38.575% (expansion factor of 1.628002)

(C) Line Ba x Line 10

(D) Line Sb x Line 11

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Tampa Electric Company Environmental Cost Recovery Clause (ECRC)

Calculation of the Projected Period Amount April 1998 to September 1998

Return on Capital Investments, Depreciation and Taxes For Project: Big Bend Fuel Oil Tank #1 Upgrade (in Dollars)

			in Dollars)							
Lin	Description	Beginning of Period Amount	Projected April 98	Projected May 98	Projected June 98	Projected July 98	Projected August 98	Projected September 98	End of Period Amount	
	1. Investments									
	a. Expenditures/Additions		\$14,798	\$135,698	\$179,811	\$33,317	\$762	\$603		
	b. Clearings to Plant		0	0	0	0	0	0		
	c. Retirements		0	0	0	0	0	0		
	d. Other		0	0	0	0	0	0		
	2. Plant-in-Service/Depreciation Base	\$0	0	0	0	0	0	0		
	3. Less: Accumulated Depreciation	0	0	0	0	0	0	0		
	4. CWIP- Non-Interest Bearing	54,295	69,093	204,789	384,600	417,917	418,679	419,282		
	5. Net Investment (Lines 2 + 3 + 4)	\$54,295	69,093	204,789	384,600	417,917	418,679	419,282		
	6. Average Net Investment		61,694	136,941	294,695	401,259	418,298	418,981		
	7. Return on Average Net Investment									
	a. Equity Component Grossed Up For Taxes (A)		454	1,007	2,167	2,951	3,076	3,081	\$12,736	
	b. Debt Component (Line 6 x 2.82% x1/12)		145	322	693	943	963	985	4,071	
	8. Investment Expenses									
20	a. Depreciation		0	0	0	0	. 0	0	0	
	b. Amortization		0	0	0	0)	0	0	
	c. Dismantlement		0	0	0	0	0	0	0	
	d. Property Taxes		0	0	0	0	0	0	0	
	e. Other		0	0	0	0	0	0	0	
	9. Total Sytem Recoverable Expenses (Lines 7 + 8)		599	1,329	2,860	3,894	4,059	4,088	16,807	
	 Recoverable Costs Allocated to Energy 		0	0	0	0	0	0	0	
	b. Recoverable Costs Allocated to Demand		599	1,329	2,860	3,894	4,059	4,088	16,807	
	10. Energy Jurisdictional Factor		0.9283895	0.9364925	0.9358334	0.9308931	0.9333671	0.9376315		
	11. Demand Jurisdictional Factor		0.9042212	0.9127498	0.9193269	0.9195852	0.9198699	0.9171904		

542

\$542

1,213

\$1,213

2,629

\$2,629

3,581

\$3,581

3,734

\$3,734

3,729

\$3,729

Notes

(A) Lines 6 x 8.8238% x 1/12. Based on ROE of 11.75% and weighted income tax rate of 38.575% (expansion factor of 1.628002)

(B) Line 9a x Line 10

12 Retail Energy-Related Recoverable Costs (B)
13. Retail Demand-Related Recoverable Costs (C)

14. Total Jurisdictional Recoverable Costs (Lines 12 + 13)

(C) Line 8b x Line 11

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15,428

\$15,428

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Tampa Electric Company

Environmental Cost Recovery Clause (ECRC)

alculat the Projected Period Amount

Apr. . . 98 to September 1998

Return on Capital Investments, Depreciation and Taxes For Project: Big Bend Fuel Oil Tank #2 Upgrade (in Dollars)

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Line	Description	Beginning of Period Amount	Projected April 98	Projected May 98	Projected June 98	Projected July 98	Projected August 98	Projected September 98	End of Period Amount
1	. Investments								
	a. Expenditures/Additions		\$216,156	\$337,123	\$141,799	\$34,705	\$2,188	\$2,013	
	b. Clearings to Plant		0	0	0	0	0	0.015	
	c. Retirements		0	0	0	0	0	0	
	d. Other		0	0	0	0	0	. 0	
2	Plant-in-Service/Depreciation Base	\$0	0	0	0	0	0	. 0	
	Less: Accumulated Depreciation	0	0	0	0	0	0	0	
- 4	CWIP- Non-Interest Bearing	58,169	274,325	611,448	753,247	787,952	790,140	792,153	
5	. Net Investment (Lines 2 + 3 + 4)	\$58,169	274,325	611,448	753,247	787,952	790,140	792,153	
6	. Average Net Investment		166,247	442,887	682,348	770,600	789,048	791,147	
7	. Return on Average Net Investment								
٥	a. Equity Component Grossed Up For Taxes (A)		1,222	3,257	5,017	5,666	5,802	5,817	\$26,781
	b. Debt Component (Line 6 x 2.82% x1/12)		391	1,041	1,604	1,811	1,854	1,859	8,560
8	Investment Expenses								
	a. Depreciation		0	0	0	0	0	0	
	b. Amortization		0	0	0	0	0	0	
	c. Dismantlement		0	0	0	0	0	0	
	d. Property Taxes		0	0	0	0	0	0	
	e. Other	-	0	0	0	0	0	0	
9	. Total Sylem Recoverable Expenses (Lines 7 + 8)		1,613	4,298	6,621	7,477	7,656	7,678	35,341
	a. Recoverable Costs Allocated to Energy		0	0	0	0	0	0	(
	b. Recoverable Costs Allocated to Demand		1,613	4,298	6,621	7,477	7,658	7,676	35,34
	. Energy Jurisdictional Factor		0.9283895	0.9364925	0.9358334	0.9308931	0.9333671	0.9376315	
11	. Demand Jurisdictional Factor		0.9042212	0.9127498	0.9193269	0.9195852	0.9198699	0.9171904	
	. Retail Energy-Related Recoverable Costs (B)		0	0	0	0	0	0	
	Retail Demand-Related Recoverable Co. is (C)	_	1,459	3,923	6,087	6,876	7,043	7,040	32,42
14	. Total Jurisdictional Recoverable Costs (Lines 12 + 13)	-	\$1,459	\$3,923	\$6,087	\$6,876	\$7,043	\$7,040	\$32,42

Notes

(A) Lines 6 x 8.8238% x 1/12. Based on ROE of 11.75% and weighted income tax rate of 38.575% (expension factor of 1.628002)

(B) Line 9a x Line 10

(C) Line 9b x Line 11

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Tampa Electric Company Environmental Cost Recovery Clause (ECRC) Calculation of the Projected Period Amount April 1998 to September 1998

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Return on Capital Investments, Depreciation and Taxes For Project: Phillips Upgrade Tank #1 for FDEP (in Dollars)

Line	Description	Beginning of Period Amount	Projected April 98	Projected May 98	Projected June 98	Projected July 98	Projected August 98	Projected September 98	End of Period Amount
	. Investments								
	a. Expenditures/Additions		\$9,945	\$391	\$313	\$313	\$13,937	\$24,937	
	b. Clearings to Plant		0	0	0	0	0	0	
	c. Retiruments		0	0	0	0	0	0	
	d. Other		0	0	0	0	0	0	
:	. Plant-in-Service/Depreciation Base	\$0	0	0	0	0	0	0	
	Less: Accumulated Depreciation	0	0	0	. 0	0	0	0	
	. CWIP- Non-Interest Bearing	2,588 '	12,533	12,924	13,237	13,550	27,487	52,424	
	Net Investment (Lines 2 + 3 + 4)	\$2,588	12,533	12,924	13,237	13,550	27,487	52,424	
	. Average Net Investment		7,561	12,729	13,081	13,394	20,519	39,956	
7	. Return on Average Net Investment								
	a. Equity Component Grossed Up For Taxes (A)		56	94	96	98	151	294	\$789
	b. Debt Component (Line 6 x 2.82% x1/12)		18	30	31	31	- 48	94	252
8	. Investment Expenses								
	a. Depreciation		0	0	0	0	0	0	0
	b. Amortization		0	0	0	0	0	0	ō
	c. Dismantlement		0	0	0	0	0	0	0
	d. Property Traces		0	0	0	0	. 0	0	0
	e. Other	-	0	0	0	0	0	0	0
5	. Total Sytem Recoverable Expenses (Lines 7 + 8)		74	124	127	129	199	388	1,041
	a. Recoverable Costs Allocated to Energy		0	0	0	0	0	0	0
	 Recoverable Costs Allocated to Demand 		74	124	127	129	199	388	1,041
	. Energy Jurisdictional Factor		0.9283895	0.9364925	0.9358334	0.9308931	0.9333671	0.9376315	
11	. Demand Jurisdictional Factor		0.11042212	0.9127498	0.9193269	0.9195852	0.9198699	0.9171904	
	. Retail Energy-Related Recoverable Costs (B)		0	0	0	0	0	0	0
	Retail Demand-Related Recoverable Costs (C)		67	113	117	119	183	356	955
14	Total Jurisdictional Recoverable Costs (Lines 12 + 13)		\$67	\$113	\$117	\$119	\$183	\$356	\$955

Notes

(A) Lines 6 x 8.8238% x 1/12. Besed on ROE of 11.75% and weighted income tax rate of 38.575% (expension factor of 1.628002)

(B) Line 9a x Line 10

(C) Line 9b x Line 11

FORM 42-4P

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Tampa Electric Company Environmental Cost Recovery Clause (ECRC) Calculation of the Projected Period Amount April 1998 to September 1998

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Return on Capital Investments, Depreciation and Taxes For Project: Phillips Upgrade Tank #4 for FDEP (in Dollars)

Line	Description	Beginning of Period Amount	Projected April 98	Projected May 98	Projected June 98	Projected July 98	Projected August 98	Projected September 98	End of Period Amount
1	. Investments	100							
	a. Expenditures/Additions		\$9,789	\$235	\$1,087	\$2,617	\$20,359	\$19,663	
	b. Clearings to Plant		0	0	0	0	0	0	
	c. Retirements		0	0	0	0	0	0	
	d. Other		0	0	0	0	0	0	
2	Plant-in-Service/Depreciation Base	\$0	0	0	0	0	0	0	
3	Less: Accumulated Depreciation	0	0	0	0	0	0	0	
4	. CWIP- Non-Interest Bearing	6,120	15,909	16,144	17,231	19,848	40,207	59,870	
5	Net Investment (Lines 2 + 3 + 4)	\$6,120	15,909	16,144	17,231	19,848	40,207	59,870	
6	Average Net Investment		11,015	16,027	16,688	18,540	30,028	50,039	
7	. Return on Average Net Investment								
	a. Equity Component Grossed Up For Taxes (A)		81	118	123	136	221	368	\$1,047
	b. Debt Component (Line 8 x 2.82% x1/12)		26	38	39	44	71	118	338
8	. Investment Expenses								
	a. Depreciation		0	0	0	0	9	0	0
	b. Amortization		0	0	0	0	0	0	0
	c. Dismantlement		0	0	0	0	0	0	0
	d. Property Taxes		0	0	0	0	0	0	0
	e. Other		0	0	0	0	0	0	0
9	. Total Sytem Recoverable Expenses (Lines 7 + 8)		107	156	1€2	180	292	486	1,383
	a. Recoverable Costs Allocated to Energy		0	0	0	0	0	0	0
	b. Recoverable Costs Allocated to Demand		107	156	162	180	292	486	1,383
	Energy Jurisdictional Factor		0.9283895	0.9364925	0.9358334	0.9308931	0.9333671	0.9376315	
11	Demand Jurisdictional Factor		0.9042212	0.9127498	0.9193269	0.9195852	0.9198690	0.9171904	
	Retail Energy-Related Recoverable Costs (B)		0	0	0	0	0	0	0
	Retail Demand-Related Recoverable Costs (C)		97	142	149	166	269	446	1,269
14	Total Jurisdictional Recoverable Costs (Lines 12 + 13)		\$97	\$142	\$149	\$166	\$269	\$446	\$1,269

Notes:

(A) Lines 6 x 8.8238% x 1/12. Based on ROE of 11.75% and weighted income tax rate of 38.575% (expansion factor of 1.628002)

(8) Line 9a x Line 10

(C) Line 9b x Line 11

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(KOZ-I)

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Tampa Electric Company Environmental Cost Recovery Clause (ECRC) April 1998 Through September 1998 Description and Progress Report for Environmental Compliance Activities and Projects

EXHIBIT NO.
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TAMPA ELECTRIC COMPANY
(KOZ-1)
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PAGE 1 OF 10
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FORM 42-5P

Project Title: Big Bend Unit 3 Flue Gas Desulfurization Integration

Project Description:

The existing FGD system on Big Bend Unit 4 was tested and found to be capable of cleaning the flue gases from Unit 3 at a fraction of the cost of adding a new FGD system for this purpose.

This project involved the integration of Big Bend Unit 3 flue gases into the Big Bend Unit 4 FGD system. The integration was accomplished by installing interconnecting ductwork between Unit 3 precipitator outlet ducts and the Unit 4 FGD inlet duct. The Unit 4 FGD outlet duct was interconnected with the Unit 3 chimney via new ductwork and a new stack breaching. New ductwork linings, isolation dampers, support steel, and stack annulus pressurization fans were procured and installed. Modifications to the materials handling systems and controls were also necessary.

Project Accomplishments:

The system is complete and in compliance.

Project Fiscal Expenditures: The actual/estimated depreciation plus return for the period October 1997

through March 1998 was \$562,090 compared to the original projection of

\$562,090.

The actual/estimated O&M expense for the period October 1997 through

March 1998 was \$915,690 compared to the original projection of

\$862,380.

Project Progress Summary: The project is in service.

Project Projections: Estimated project expenditures for depreciation plus return for the period

April 1998 through September 1998 are expected to be \$555,373. Estimated O&M costs are \$652,493 for the period April 1998 to

September 1998.

Tampa Electric Company

Environmental Cost Recovery Clause (ECRC)
April 1998 Through September 1998
Description and Progress Report for
Environmental Compliance Activities and Projects

EXHIBIT NO.

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TAMPA ELECTRIC COMPANY
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REVISED: FEBRUARY 18, 1998

FORM 42-5P

Project Title: Big Bend Unit 4 Continuous Emissions Monitors

Project Description:

Continuous emissions monitors (CEMs) were installed on the flue gas inlet and outlet of Big Bend Unit 4 monitor compliance with the CAAA requirements. The monitors are capable of measuring, recording and electronically reporting SO2, Nox and volumetric gas flow out of the stack. The project consisted of monitors, a CEM building, the CEMs control and power cables to supply a complete system.

40 CFR Part 75 includes the general requirements for the installation, certification, operation and maintenance of CEMs and specific requirements for the monitoring of pollutants, opacity and volumetric flow. These regulations are very comprehensive and specific as to the requirements for CEMs, and in essence, they define the components needed and their configuration.

Project Accomplishment:

Project Fiscal Expenditures:

The system is complete and in compliance.

The actual/estimated depreciation plus return for the period October

1997 through March 1998 was \$43,547 compared to the original

projection of \$43,547.

The actual/estimated O&M for the period October 1997 through March

1998 was \$0 compared to the original projection of \$0.

Project Progress Summary: The p

The project is in service

Project Projections:

Estimated project expenditures for depreciation plus return for the period

April 1998 through September 1998 are expected to be \$42,892. There

are no estimated O&M costs for the period April 998 through

September 1998.

EXHIBIT 140.

DOCKET NO. \$10007-EI

TAMPA ELECTRIC COMPANY
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FORM 42-5P

Tampa Electric Company Environmental Cost Recovery Clause (ECRC) April 1998 through September 1998 Description and Progress Report for Environmental Compliance Activities and Projects

Project Title: SO2 Emission Allowances

Project Desc tion:

The acid rain control title of the Clean Air Act Amendments (CAAA) of 1990 sets forth a comprehensive regulatory mechanism designed to control acid rain by limiting sulfur dioxide emissions by electric utilities. The CAAA require reductions in sulfur dioxide emissions in two phases. hase I began on January 1, 1995, and applies to 110 mostly coal-fired utility plants containing about 260 generating units. These plants are owned by about 40 jurisdictional utility systems that are expected to reduce annual sulfur dioxide emissions by as much as 4.5 million tons. Phase II begins on January 1, 2000, and applies to virtually all existing steam-electric generating utility units with capacity exce. Jing 25 megawatts and to new generating utility units of any size. The Environmentally Protecton Agency (EPA) issues to the owners of generating units allowances (defined as an authorization to emit, during or after a specified calendar year, one ton of sulfur dioxide) equal to the number of tons of sulfur dioxide emissions authorized by the CAAA. EPA does not assess a charge for the allowances it awards.

Project Accomplishments:

SO2 Emission Allowances are being used by Tampa Electric to meet compliance standards for Phase I of the CAAA.

Project Fiscal Expenditures: The actual/estimated depreciation plus return for the period October

1997 through March 1998 is \$0, compared to the original projection of

\$0.

The actual/estimated O&M for the period October 1997 through March 1998 is \$1,980,956 compared to the original projection of \$1,412,578; a 40.2% variance due to increased SO2 allowance consumption.

Progress Summary: The project is in service.

Project Projections: Estimated O&M costs for the period April 1998 through September 1998

are \$1,431,093.

FORM 42-5P

Tampa Electric Company Environmental Cost Recovery Clause (ECRC) April 1998 through September 1998 Description and Progress Report for Environmental Compliance Activities and Projects

Project Title: Big Bend Units 1 and 2 Flue Gas Conditioning

Project Description:

The existing electrostatic precipitators were not designed for the range of fuels needed for compliance with the CAAA. Flue gas conditioning was required to assure operation of the generating units in accordance with applicable permits and regulations.

The project involved the addition of liquid sulfur unloading, storage and conveying to sulfur burners and catalytic converters where SO2 is converted to SO3. The control and injection system then injects this into the ductwork ahead of the electrostatic precipitators.

Project Accomplishments:

The system is complete and in compliance.

Project Fiscal Expenditures: The actual/estimated depreciation plus return for the period October 1997 through March 1998 was \$340,192 compared to the original

projection of \$340,192.

The actual/estimated O&M for the period October 1997 through March 1998 was \$21,956 compared to the original projection of \$25,599.

Project Progress Summary:

The project is in service

Project Projections:

Estimated project expenditures for depreciation plus return for the period

April 1998 through September 1998 are expected to be \$335,436. Estimated project expenditures for O&M for the period April 1998

through September 1998 are expected to be \$16,500.

Tampa Electric Company Environmental Cost Recovery Clause (ECRC) April 1998 through September 1998 Description and Progress Report for Environmental Compliance Activities and Projects

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FORM 42-5P

Project Title: Gannon Ignition Oil Tank Upgrade

Project Description:

The Gannon Ignition Oil Storage Tank is a 300,000 gallon field erected fuel storage tank that is required to meet the requirements of DEP Rule 62-762 as an existing field erected above ground storage tank containing a regulated pollutant (diesel fuel). The rule requires various modifications and a complete internal inspection by the end of 1999.

Present scope of work for this project includes:

- Cleaning and inspecting the tank in accordance with API 653 specifications
- Applying a coating to the internal floor and 30 inches up the tank wall. Installing an "El Segundo" bottom to the tank, including installing a leak detection system.
- Installing a spill containment for piping fittings and valves surrounding the tank.
- Installing a new truck unloading facility and spill containment for the truck unloading facility.
- Installing level instrumentation for overfill protection.
- Installing secondary containment for below ground piping or reroute to above ground.
- Conducting a tank closure assessment.

Project Accomplishments:

This project is in the construction stage.

Project Fiscal Expenditures: The actual/estimated depreciation plus return for the period October

1997 through March 1998 was \$9,390 compared to an original

projection of \$0.

There were no O & M costs for the October 1997 through March 1998

period.

Project Progress Summary: In service as of December 1997.

Project Projections: Estimated project expenditures for depreciation plus return for the period

April 1998 through September 1998 are expected to be \$19,789.

Estimated O & M expenditures are expected to be \$0 for the April 1998

Tampa Electric Company Environmental Cost Recovery Clause (ECRC) April 1998 through September 1998 Description and Progress Report for Environmental Compliance Activities and Projects

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FORM 42-5P

Project Title: Big Bend Fuel Oil Tank No. 1 Upgrade

Project Description:

The Big Bend Oil Storage Tank No. 1 is a 500,000 gallon field erected fuel storage tank that is required to meet the requirements of DEP Rule 62-762 as an existing field erected above ground storage tank containing a regulated pollutant (diesel fuel). The rule requires various modifications and a complete internal inspection by the end of 1999.

Present scope of work for this project includes:

- Cleaning and inspecting the tank in accordance with API 653 specifications
- Applying a coating to the internal floor and 30 inches up the tank wall. Installing an "El Segundo" bottom to the tank, including installing a leak detection system.
- Installing a spill containment for piping fittings and valves surrounding the tank.
- Installing a new truck unloading facility and spill containment for the truck unloading facility.
- Installing level instrumentation for overfill protection.
- Installing secondary containment for below ground piping or reroute to above ground.
- Conducting a tank closure assessment.

Project Accomplishments:

This project is in the planning stage. The engineering work will begin in February of 1998.

Project Fiscal Expenditures: The actual/estimated depreciation plus return for the period October

1997 through March 1998 was \$411 compared to an original projection

of \$0.

There were no O & M costs for the October 1997 through March 1998

period.

Project Progress Summary: The project began in January 1998.

Project Projections: Estimated project expenditures for depreciation plus return for the period

April 1998 through September 1998 are expected to be \$16,807.

Estimated O & M expenditures are expected to be \$0 for the April 1998

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FORM 42-5P

Tampa Electric Company Environmental Cost Recovery Clause (ECRC) April 1998 through September 1998 Description and Progress Report for Environmental Compliance Activities and Projects

Project Title: Big Bend Fuel Oil Tank No. 2 Upgrade

Project Description:

The Big Bend Oil Storage Tank No. 2 is a 4,200,000 gallon field erected fuel storage tank that is required to meet the requirements of DEP Rule 62-762 as an existing field erected above ground storage tank containing a regulated pollutant (diesel fuel). The rule requires various modifications and a complete internal inspection by the end of 1999.

Present scope of work for this project includes:

- Cleaning and inspecting the tank in accordance with API 653 specifications
- Applying a coating to the internal floor and 30 inches up the tank wall. Installing an "El Segundo" bottom to the tank, including installing a leak detection system.
- Installing a spill containment for piping fittings and valves surrounding the tank.
- Installing a new truck unloading facility and spill containment for the truck unloading facility.
- Installing level instrumentation for overfill protection.
- Installing secondary containment for below ground piping or reroute to above ground.
- Conducting a tank closure assessment.

Project Accomplishments:

This project is in the planning stage. The engineering work will begin in February of 1998.

Project Fiscal Expenditures: The actual/estimated depreciation plus return for the period October

1997 through March 1998 was \$454 compared to an original projection

of \$0.

There were no O & M costs for the October 1997 through March 1998

period.

Project Progress Summary: The project began in January 1998.

Project Projections: Estimated project expenditures for depreciation plus return for the period

April 1998 through September 1998 are expected to be \$35,341.

Estimated O & M expenditures are expected to be \$0 for the April 1998

FORM 42-5P

Tampa Electric Company Environmental Cost Recovery Clause (ECRC) April 1998 through September 1998 Description and Progress Report for Environmental Compliance Activities and Projects

Project Title: Phillips Oil Tank No. 4 Upgrade

Project Description:

The Phillips Oil Storage Tank No. 4 is a 57,000 gallon field erected fuel storage tank that is required to meet the requirements of DEP Rule 62-762 as an existing field erected above ground storage tank containing a regulated pollutant (diesel fuel). The rule requires various modifications and a complete internal inspection by the end of 1999.

Present scope of work for this project includes:

- Cleaning and inspecting the tank in accordance with API 653 specifications
- Applying a coating to the internal floor and 30 inches up the tank wall.
- Installing a spill containment for piping fittings and valves surrounding the tank.
- Installing level instrumentation for overfill protection.
- Installing secondary containment for below ground piping or reroute to above ground.
- Conducting a tank closure assessment.

Project Accomplishments:

This project is in the planning stage. The engineering work will begin in February of 1998.

Project Fiscal Expenditures: The actual/estimated depreciation plus return for the period October

1997 through March 1998 was \$60 compared to an original projection of

\$0.

There were no O & M costs for the October 1997 through March 1998

period.

Project Progress Summary: The project began in January 1998.

Project Projections: Estimated project expenditures for depreciation plus return for the period

April 1998 through September 1998 are expected to be \$1,383.

Estimated O & M expenditures are expected to be \$0 for the April 1998

Tampa Electric Company Environmental Cost Recovery Clause (ECRC) April 1998 through September 1998 Description and Progress Report for Environmental Compliance Activities and Projects

FORM #2-5P

Project Title: Phillips Oil Tank No. 1 Upgrade

Project Description:

The Phillips Oil Storage Tank No. 1 is a 1,300,000 gallon field erected fuel storage tank that is required to meet the requirements of DEP Rule 62-762 as an existing field erected above ground storage tank containing a regulated pollutant (diesel fuel). The rule requires various modifications and a complete internal inspection by the end of 1999.

Present scope of work for this project includes:

- Cleaning and inspecting the tank in accordance with API 653 specifications
- Applying a coating to the internal floor and 30 inches up the tank wall.
- Installing a spill containment for piping fittings and valves surrounding the tank.
- Installing level instrumentation for overfill protection.
- Installing secondary containment for below ground piping or reroute to above ground.
- Conducting a tank closure assessment.

Project Accomplishments:

This project is in the planning stage. The engineering work will begin in February of 1998.

Project Fiscal Expenditures: The actual/estimated depreciation plus return for the period October

1997 through March 1998 was \$28 compared to an original projection of

\$0.

There were no O & M costs for the October 1997 through March 1998

period.

Project Progress Summary: The project began in January 1998.

Project Projections: Estimated project expenditures for depreciation plus return for the period

April 1998 through September 1998 are expected to be \$1,041.

Estimated O & M expenditures are expected to be \$0 for the April 1998

TAMPA ELECTRIC TANK UPGRADE PROJECTS (April 1998 Through September 1998 Projection Period)

TANK	TANK SIZE (GALLONS)	HEIGHT (FEET)	DIAMETER (FEET)	CONTENTS	ORIGINAL INSERVICE DATE	UPGRADE BEGAN	UPGRADE END	POST. SECRABE IN-SERVICE DATE	es i Matri Post
Gannon Ignition Oil Tank	300,930	32	40	No. 2 Fuel Oil	1968	October 1997	December 1997	December 1997	\$500,000
Big Bend Fuel Oil Tank#1	507,024	32	52	No. 2 Fuel Oil	1968	1998	1998	1998	\$450,000
Big Bend Fuel Oil Tank #2	4,188,324	30	160	No. 2 Fuel Oil	1974	1998	1998	1998	\$850,000
Phillips Tank #1	1,300,000	48	68	No. 6 Fuel Oil	1983	1998	1998	1998	\$55,000
Phillips Tank #4	57,000	24	20	No. 2 Fuel Oil	1983	1998	1998	1998	\$100,000
Phillips Tank #6	10,000	15.75	19.50	No. 6 Fuel Oil	1983	1998	1998	1998	\$24,000
TOTAL				1					\$1,979,000

Environmental Cost Recovery Clause (ECRC)
Calculation of the Energy & Demand Allocation % By Rate Class
April 1998 to September 1998 Tampa Electric Company

	€	(2)	(3)	(F)	<u>©</u>	(9)	6	©	6	(10)	
Rate Class	Average 12 CP Load Factor at Meter (%)	Projected Sales at Meter (kWh)	Projected Avg 12 CP at Meter (kW)	Demand Loss Expansion Factor	Energy Loss Expansion Factor	Projected Sales at Generation (WWh)	Projected Avg 12 CP at Generation (kW)	Percentage of kWh Sales at Generation (%)	Percentage of 12 CP Demand at Generation (%)	12 CP & 1/13 Allecation Factor (%)	
RS, RST	53.57736% 3,81	3,816,779,000	813,226	1.066114	1.059519	4,043,949,869	866,992	45.54%	58.75%	57.74%	
GS, GST, TS	55.78012%	55.78012% \$01,827,000	102,700	1.065889	1.059519	531,695,241	109,467	5.89%	7.42%	7.31%	
GSD, GSDT	74.11021%	74.11021% 2,233,786,000	344,080	1.064600	1.058388	2,364,212,297	366,306	28.62%	24.62%	24.95%	
GSLD, GSLDT, SBF, SBFT	82.89976%	82.89976% 912,618,000	125,670	1.048214	1.042045	950,989,024	131,729	10.71%	8.83%	9.07%	
151, 1571, 5811, 153, 1537, 5813	87,33992%	890,945,000	0	1.022142	1.020002	903,765,682	0	10.23%	%0000	0.79%	
SUOL	819.04490%	819.04490% 76,560,000	1,067	1,055556	1,059521	81,116,928	1,126	. 0.91%	0.08%	0.14%	
TOTAL		8,432,515,000	1,386,743		I s	8,880,729,041	1,475,622	100.00%	100.00%	100.00%	

Notes:

(1) Average 12 CP load factor based on actual 1995 load research data
(2) Projected MVh sales for the period April 1998 to September 1998
(3) Calculidad: (Column 2) / (8,780 hours X Column 1)
(4) Based on projected 1996 demand losses
(5) Based on projected 1996 energy losses
(5) Column 2 X Column 4
(7) Column 3 X Column 6
(8) Column 7 / Total Column 6
(9) Column 7 / Total Column 7
(10) Column 8 X 1/13 + Column 7

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FORM 42-6P

Tampa Electric Company
Environmental Cost Recovery Clause (ECRC)
Calculation of the Energy & Demand Allocation % By Rate Class April 1998 to September 1998

	(£)	(2)	6	•	3	(9)	E	
Rate Class	Percentage of AWh Sales at Generation (%)	12 CP & 1/13 Allocation Factor (%)	Energy- Related Costs (\$)	Demand- Related Costs (\$)	Total Environmental Costs (\$)	Projected Sales at Meter (MWh)	Environmental Cost Recovery Factors (#MMh)	
RS, RST	45.54%	57.74%	1,230,075	40,138	1,270,213	3,816,779,000	0.033	
GS, GST, TS	5.99%	7.31%	161,795	5,061	166,876	501,827,000	0.033	
GSD, GSDT	26.62%	24.95%	719,029	17,344	738,373	2,233,788,000	0.033	
GSLD, GSLDT, SBF, SBFT	10,71%	9.07%	289,288	6,305	285,591	912,618,000	0.032	
151, 1571, 5811, 153, 1537, 5813	10.23%	0.79%	276,321	548	276,870	890,845,000	0.031	
SUOL	0.91%	0.14%	24,580	26	24,677	76,560,000	0.032	
TOTAL	100,00%	100.00%	2,701,087	69,514	- 1	2,770,601 8,432,515,000		

(1) From Form 42-6P, Column 8
(2) From Form 42-6P, Column 10
(3) Column 1 x Total Jurisdictional Energy Dollars from Form 42-1P, line 5
(4) Column 2 x Total Jurisdictional Demand Dollars from Form 42-1P, line 5
(5) Column 3 + Column 4
(5) Projected KWH sales for the period April 1996 to September 1998
(7) Column 5 / Column 6 x 100

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FORM 42-7P

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TAMPA ELECTRIC COMPANY
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FORM 42-1E

Tampa, Electric Company Environmental Cost Recovery Clause (ECRC)	Calculation of the Current (Actual/Estimated) Period True-Up October 1997 to March 1998	

(in Dollars)

ı				1
Line	1. Over(Under) Recovery for the current period (Form 42-2E, Line 5)	2 Interest Provision (Form 42-2E, Line 6)	 Sum of Current Period Adjustments (Form 42-2E, Line 10) 	 Current Period True-Up Amount to be refunded/(recovered) in the projection period April 1998 to September 1998 (Lines 1 + 2 + 3)

<u>Tampa Electric Company</u> Environmental Cost Recovery Clause (ECRC) Calcutation of the Actual/Estimated Period True-Up Amount October 1997 to March 1998

Current Period True-Up Amount

	Actual October 97	Actual November 97	Estimated December 97	Estimated January 98	Estimated February 98	Estimated March 98	200
i. ECRC Revenues (net of Revenue Taxes) 2. True-Up Provision	\$710,245	\$593,826 (114,516)	\$613,326	\$680,906	\$614,448	\$592,301	56
3. ECRC Revenues Applicable to Porlod (Lines 1 + 2)	595,729	П	498,810	548,392	499,932	477,784	T I
4. Jurisdictional ECRC Costs a. O & M. Activities (Form 42-5E, Line 9)	535,786	475,529	457,125	365,288	473,358	383,166	18
b. Capital Investment Projects (Form 42-7E, Line 9)	147,338	146,686	147,790	148,003	149,170	147,638	92
c. Total Juradictional ECRC Costs	683,124	622,195	604,915	513,281	622,529	530,804	-
5. Over/Under Recovery (Line 3 - Line 4c)	(87,385)	(142,885)	(108,105)	33,101	(122,587)	(53,020)	6
6. Interest Provision (Form 42-3E, Line 10)	(264)	(692)	(330)	13	300	123	
7. Beginning Balance True-Up & Interest Provision a Deferred True-In from Ordeber 1008 to March 1007	(687,087)	(660,240)	(663,678)	(550,797)	(533,133)	(540,818)	-
(Order No. PSC-87-scor-FOF-EI)	616,353	616,353	616,353	616,353	616,353	616,353	
8. True-Up Collected/(Refunded) (see Lins 2)	114,516	114,516	114,516	114,516	114,516	114,517	
9. End of Period Total True-Up (Lines 5 + 6 + 7 +7a + 8)	(43,887)	(22,525)	(54,444)	83,220	75,535	137,563	
10. Adjustment to Period True-Up Including Interest	0	0	0	0	0	0	

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FORM 42-2E

\$137,563

\$137,563

\$75,535

\$83,220

(\$64,444)

(\$72,575)

(\$43,887)

11. End of Period Total Net True-Up (Lines 9 + 10)

Tampa Electric Company
Environmental Cost Recovery Clinuse (ECRC)
Calculation of the Actual/Estimated Period True-Up
October 1997 to March 1998

Interest Provision (in Dollars)

	Actual October 97	Actual November 97	Estimated December 97	Estimated January 93	Estimated February 98	Estimated March 98	Period Amount	
1. Bentinnicu Balance True-Un Amezant (Form 47.3F 1 Ina 7 47a + 10)	0420 7440	CSACT MATE	602 (29)	CELL AAD	681 220	278.698		91-
2. Ending True-Up Amount Before Interest	(43 623)			82173	75 130	CAD 25.1		
3. Total of Bagianing & Ending Trae-Up (Lines 1 & 2)	(114,367)	(116,143)		18,729	158,359	212.567		
4. Average Trus-Up Amount (Line 3 x 1/2)	(57.184)	-	1	9,365	79,180	106,284		
5. Interest Rate (First Day of Reporting Business Month)	5.53%		5.60%	8.00%	6.00%	6.00%		
S. Interest Rate (First Day of Subsequent Business Month)	8.53%	5.60%	6.00%	8.00%	6.00%	6.00%		
7. Total of Beginning & Ending Interest Rates (Lines 5 & 6)	11.06%	11.13%	11.60%	12.00%	12.00%	12.00%		
8. Average Interest Rate (Line 7 x 1/2)	5.53%	5.57%	5.80%	6.00%	6.00%	6.00%		
9. Monthly Average Interest Rate (Line 8 x 1/12)	0.461%	0.464%	0.483%	0.500%	0.500%	0.500%		
10. Interest Provision for the Month () ine 4 x I ine 5)	03630	(B)CS/	(trium	55	1000	-		

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FORM 42-3E

Tampa Electric Company
Environmental Cost Recovery Classe (ECRC)
Calculation of the Current Period Actual/Estimated Amount
October 1997 to March 1998

Variance Report of O & M Activities

	Actual	Original Original	(3) Variance	()	
	Estimated	Projection	Amount	Percent	
Description of Investment Projects					
1a Big Bend Unit 3 Plue Gas Desulfurization Integration	\$915,690	\$862,380	\$53,310	6.2%	
1b Big Bend Units 1 and 2 Flue Gas Conditioning	21,956	25,599	(3,643)	-14.2%	
1c Big Bend Unit 4 Continuous Emissions Monitors	0	0	0	960'0	
1d Gannon Ignition Off Tenk	0	0	0	0.0%	
1e Big Bend Fuel Oil Tank #1 Upgrade	0	0	0	0.0%	
1f Big Bend Fusi Oil Tank #2 Upgrade	•	0	0	0.0%	
1g Phillips Upgrade Tank #1 for FDEP	0	0	0	%0.0	
th Phillips Upgrade Tank #4 for FDEP	0	0	0	0.0%	
11 SO2 Emissions Allowences	1,980,956	1,412,576	568,378	40.2%	
1) SO2 Credit - FMPA/LMd	(68,190)	0	(68,190)	9,00	
Total Investment Projects - Recoverable Costs	2,850,412	2,300,557	549,855	23.9%	
Recoverable Costs Allocated to Energy Bacourable Costs Allocated to Carnesed	2,650,412	2,300,557	549,855	23.9%	
Parameter of Parameter and Parameter of Para	2	3	2	800	

Notes:
Column (1) is the End of Period Totals on Form 42-5E
Column (2) is the approved Projected amount in accordance with FPSC Order No. PSC 97 1047-FOF-E1
Column (3) = Column (3) / Column (2)
Column (4) = Column (3) / Column (2)

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FORM 42-4E

Tampa Electric Company
Environmental Cost Recovery Clause (ECRC)
Calcutation of the Current Period Actual/Estimated Amount October 1997 to March 1996

O&M Activities (in Dollars)

Line

		fammon in)	-				End of		
	Actual October 97	Actual November 97	Estimated December 97	Entimated January 98	Estimated February 98	Estimated March 98	Period	Method of Classification Demand Energy	sselfcation Energy
1. Description of O&M Activities					17				
1a Big Bend Unit 3 Flue Gas Desulfurization Integration	\$155,614	\$106,776	\$106,795	\$121,037	\$260,864	\$164,604	\$915,690		\$915,690
1b Big Bend Units 1 and 2 Flue Gas Conditioning	8,431	2,525	2,750	2,750	2,750	2,750	21,956		21,958
1c Big Bend Unit 4 Continuous Emissions Monitors	0	0	0	0	0	0	0		0
1d Gunnon Ignition Oil Tank	0	0	0	0	0	0	0	08	
1e Big Bend Fuel Oil Tunk #1 Upgrade	0	0	0	0	0	0	0	0	
1f Big Bend Fuel Oil Tenk #2 Upgrade	0	0	0	0	0	0	0	0	
1g Phillips Upgrade Tank #1 for FDEP	0	0	0	0	•	0	0	0	
1h Phillips Upgrade Tank #4 for FDEP	0	0	0	0	0	0	0	0	
11 SO2 Emissions Allowances	416,043	410,351	379,459	274,158	249,397	251,548	1,960,958		1,980,956
1) SO2 Credit - FMPAUM	(11,566)	(15,624)	(7,000)	(12,000)	(12,000)	(10,000)	(68,190)		(68,190)
2. Total of OSM Activities	568,522	504,028	482,004	385,945	110,102	408,902	2,850,412	Si	\$2,850,412
3. Recoverable Costs Allocated to Energy	568,522	504,028	482,004	385,945	501,011	408,902	2,850,412		
4. Recoverable Costs Allocated to Demand	0	0	0	0	•	•	0		
5. Retail Energy Jurisdictional Factor 6. Retail Demand Jurisdictional Factor	0.9296935	0.8274252	0.9330315	0.9273021	0.8300383	0.9189633			
7. Jurisdictional Energy Recoverable Costs (A)	528,551	467,448	449,725	357,888	465,959	375,788	2,645,337		
7a. Add back FlüPAUMd Excess Emissions Allocation 8. Jurisdictional Demand Recoverable Costs (B)	7,235	6,061	7,400	7,400	7,400	7,400	44,916		
Total Jurisdictional Recoverable Costs for O&M Activities (Lines 7 + 8)	\$535,786	\$475,529	\$457,125	\$365,288	\$473,359	\$383,168	\$2,690,253		

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FORM 42-5E

Notes:

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

Environmental Cost Recovery Clause (ECRC) Calculation of the Current Period Actual/Estimated Amount October 1997 to March 1998 Tampa Electric Company

Variance Report of Capital Investment Projects - Recoverable Costs

(In Dollars)

	Actual	(Z) Original	(3) Variance	(4) moe	
	Estimated		Amount	Percent	
1. Description of Investment Projects					
1a Big Bend Unit 3 Flue Gas Desulfurization Integra	stion \$562,090	\$562,090	\$0	960'0	
1b Big Bend Units 1 and 2 Flue Gas Conditioning	340,192		0	9600	
1c Big Bend Unit 4 Continuous Emissions Monitors	43,547		0	9600	
1d Gannon Ignition Oil Tank	060'6	0	9,390	9600	
1e Big Bend Fuel Oil Tank #1 Upgrade	114	0	411	9400	
. If Big Bend Fuel Oil Tank #2 Upgrade	3	0	454	9400	
1g Phillips Upgrade Tank #1 for FDEP	28	0	28	960'0	
1h Phillips Upgrade Tank #4 for FDEP	8	0	98	9000	
2. Total Investment Projects - Recoverable Costs	556,172	945,829	10,343	1.1%	
3. Recoverable Costs Allocated to Energy 4. Recoverable Costs Allocated to Demand	916,829	945,829	\$10.343	200	

Column (2) is the approved Projected amount in accordance with FPSC Order No. PSC 97-1047-FOF-EI Notes: Column (1) is the End of Period Totals on Form 42-7E

Column (3) = Column (1) - Column (2) Column (4) = Column (3) / Column (2)

EXHIBIT NO. DOCKET NO. 980007-EI
TAMPA ELECTRIC COMPANY
(KOZ-1)
FILED: JANUARY 14, 1998
DOCUMENT NO.13
PAGE 1 OF 1
REVISED: FEBRUARY 18, 1998

FORM 42-6E

Calculation of the Current Period Actual/Estimated Amount Tampa Electric Company Environmental Cost Recovery Clause (ECRC) October 1997 to March 1999

Cupital Investment Projects-Recoverable Costs

Line

	Actual	Actual	Estimated	Estimated	Estimated	Estimated	End of Period	Method of C	assilication
1	October 97	November 97	December 97	January 98	February 98	March 98	Total	Demand Energy	Energy
1. Description of investment Projects (A)									
1a Big Bend Unit 3 Flue Gas Desulfurization Integration	\$94,148	\$93,961	\$77,08\$	\$33,589	\$93,402	\$93,215	\$582,090		\$562,090
th Big Bend Units 1 and 2 Plue Gas Conditioning	57,029	56,897	56,765	56,633	56,500	56,368	340,192		340,192
to. Big Bend Unit 4 Continuous Emissions Monitors	7,303	7,285	7,267	7,249	7,231	7,212	43,547		43,547
1d Garmon Ignition Oil Tank	0	0	929	2,214	3,233	3,317	9,390	\$9,390	
1e Big Bend Fuel Oil Tank #1 Upgrade	0	0	0	=	74	326	411	411	
1f Big Bend Fuel Oil Tank #2 Upgrade	0	0	0	12	99	356	454	454	
1g Phillips Upgrade Tank 81 for FDEP	0	0	0	-	60	19	28	28	
1h Phillips Upgrade Tank \$4 for FDEP	0	0	0	-	15	2	90	99	
Total Investment Projects - Recoverable Costs	158,480	158,143	158,433	159,710	160,549	160,857	858,172	\$10,343	\$945,829
3. Recoverable Costs Allocated to Energy	158,480	158,143	157,807	157,471	157,133	158,795	945,829		
 Recoverable Costs Allocated to Demand 	0	0	628	2,238	3,418	4,062	10,343		
5. Retail Energy Jurisdictional Factor 6. Retail Dernand Jurisdictional Factor	0.9296935	0.8274252	0.9330315	0.9273021	0.8300363	0.8189633			
7. Jurisdictional Energy Recoverable Costs (B) 8. Jurisdictional Demand Recoverable Costs (C)	147,338	146,666	147,239	146,023	146,139	144,089	9,111		
 Total Jurisdictional Recoverable Costs for Investment Projects (Lines 7 + 8) 	\$147,338	\$146,666	\$147,790	\$148,003	\$149,170	\$147,638	\$886,605		

(A) Each project's Total System Recoverable Expenses on Form 42-8E. Line 9 (B) Line 3 x Line 5 (C) Line 4 x Line 6 (C) Line 4 x Line 6

EXHIBIT NO.

DOCKET NO. 980007-EI

TAMPA ELECTRIC COMPANY
(KOZ-I)

FILED: JANUARY 14, 1998

DOCUMENT NO.14

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REVISED: FEBRUARY 18, 1998

FORM 42-7E

51,800	6,628	690
		4
52,547	6,725	146,139
52,519	6,722	146,023
52,964	6,780	147,239
52,768	8,758	148,665
53,019	6,790	147,338
	52,768 52,964 52,519	53,019 52,768 52,964 52,519 52,547 6,725 6,725

FORM 42-8E

Environmental Cort Recovery Clause (ECRC)
Calculation of the Actual/Estimated Amount for the Period
October 1997 to March 1998 Tampa Electric Company

Form 42 - 8E Page 1 of 8

> Return on Capital Investments, Depreciation and Taxes For Project: Big Bend Unit 3 Flue Gas Desulfurization integration (in Dollars)

Line	Beginning of Period Amount	Actual October 97	Actual November 97	Estimated December 97	Estimated January 98	Estimated February 96	Estimated March 98	End of Period Amount
1. Investments								
a. Expenditures/Additions		8	30	\$	8	\$	8	
b. Clearings to Plant		0	0	0	0	0	0	
c. Retirements		0	0	0	0	0	0	
d. Other		0	0	0	•	0	0	
2. Plant-in-Service/Depreciation Base	\$8,239,658	8.239,658	8.239.658	8.239.658	8.239.658	8.239.658	8 239 658	
3. Less: Accumulated Deprecision	(508,659)	(527,885)	(547,111)	(568,337)	(585,563)	(804,789)	(624,015)	
4. CWIP - Non-Interest Bearing	0	0	0	0	0	0	0	
5. Net Investment (Lines 2 + 3 + 4)	\$7,730,999	7,711,773	7,692,547	7,673,321	7,654,095	7,634,869	7,615,643	
6. Average Net Investment		7,721,386	7,702,160	7,682,934	7,563,708	7,644,482	7,625,256	
7. Return on Average Net Investment a. Equity Compound Gressed Up For Tayes (A)		777.98	56.635	56.494	596.395	20,211	AR 070	078 8448
b. Debt Component (Line 6 x 2.82% x1/12)		18,145		18,055	18,010	17,965	17,919	108,194
8. Investment Expenses								
a. Depreciation		19,226	19,226	19,228	19,226	19,226	19,226	115,356
b. Amortization		0	0	0	0	0	0	0
c. Dismantlement		0	0	0	0	0	0	0
d. Property Taxes		0	0	0	0	0	0	0
a. Other		0	0	0	0	0	0	0
9. Total Sytem Recoverable Expenses (Lines 7 +5)		94,148	93,961	80,775	93,589	83,402	93,215	562,090
 Recoverable Costs Allocated to Energy 		94,148	93,961	83,775	93,589	93,402	83,215	562,090
b. Recoverable Costs Allocated to Demand		0	0	0	0	0	0	0
10. Energy Jurisdictional Factor		0.9296835	0.9274252	0.9330315	0.9273021	0.9300383	0.9189633	
11. Demand Jurisdictional Factor		0.9015009		0.8794068	0.8841608	0.8874502	0.8736430	
12. Retail Energy-Related Recoverable Costs (B)		87,529	87,142	87,495	86,785	88,867	85,651	521,479
13. Retail Demand-Related Recoverable Costs (C)		0			0	0	٥	
14. Total Jurisdictional Recoverable Costs (Lines 12 + 13)	+ 13)	\$87,529	\$87,142	\$87,495	\$86,785	\$80,867	\$85,661	\$521,479

(A) Lines 6 x 8.8239% x 1/12. Based on ROE of 11.75% and weighted incomo tax rate of 38.575% (expansion factor <: 1.628002) (B) Line 9s x Line 10 (C) Line 9b x Line 11

Form 42 - 8E Page 2 of 8

Tampa Electric Company
Environmental Cost Recovery Clause (ECRC)
Calculation of the Actual/Estimated Amount for the Period October 1997 to March 1998 Return on Capital Investments, Depreciation and Taxes For Project: Big Bend Units 1 and 2 Flue Gas Conditioning (in Dollars)

	ا،	Description	Beginning of Period Amount	Actual October 97	Actual November 97	Estimated December 97	Estimated January 98	Estimated February 98	Estimated March 98	End of Period Amount
	Investments Expenditure Clearings to	investments a. Expendiures/Additions b. Clearings to Tank		g o	800	800	800	800	80	
	d. Other			00	00	00	00	00	00	
	2. Plant-in-Ser 3. Less: Accu 4. CWIP - Nor 5. Net Investm	Plant-in-Service/Depreciation Base Less: Accumulated Depreciation CWIP - Mon-Interest Bearing Net Investment (Lines 2 + 3 + 4)	\$5,017,734 (535,634) 0 54,462,100	5,017,734 (548,238) 0 0 4,458,496	5,017,734 (562,842) 0 4,454,882	5,017,734 (576,446) 0 4,441,288	5,017,734 (580,050) 0 0 4,427,684	5,017,734 (603,654) 0 4,414,080	5,017,734 (617,258) 0 0,400,476	
	6. Average Not Investment	f Investment		4,475,298	4,461,694	4,448,090	4,434,488	4,420,882	4,407,278	
	7. Return on A a. Equity C b. Debt Col	7. Return on Average Net Investment a. Equity Component Grossed Up For Taxes (A) b. Debt Component (Line 6 x 2.82% x1/12)		32,908	32,808	32,708	32,608	10,369	72,407	\$195,946 62,622
		Expenses		13,604	13,604	13,604	13,604	13,604	13,604	81,624
	Amortization C. Dismantlement Property Taxes	Bon Bernent Tanes		000	000	000	000	000	000	000
	e. Other			0	0	0	0	0	0	0
	9. Total Sytem a. Recover b. Recover	S. Total Sylem Recoverable Expenses (Lines 7 +8) Recoverable Costs Allocated to Energy Recoverable Costs Allocated to Demand		57,029 57,029 0	56,887 0	287,982 287,982 0	56,633 56,633 0	58,500 0 0	56,368	340,192 340,192
	10. Energy Juri 11. Demand Ju	 Energy Jurisdictional Factor Demand Jurisdictional Factor 		0.9296935	0.8274252	0.8794068	0.8841608	0.9300363	0.9189633	
	12. Retail Ener 13. Retail Dem	12. Retail Energy-Related Recoverable Costs (B) 13. Retail Demand-Related Recoverable Costs (C)		83,019	52,768		52,516	52,547	51,800	315,614
	14. Trital Juriso	 7. Trital Jurisdictional Recoverable Costs (Lines 12 + 13) 		\$53,019	\$52,768	\$52,964	\$52,516	\$52,547	\$51,800	\$315,614
•									1	

(A) Lines 8 x 8.8238% x 1/12. Based on ROE of 11,75% and weighted income tax rate of 38.575% (argumeter of 1 628002) (B) Line 8e x Line 10 (C) Line 3b x Line 11

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Environmental Cost Recovery Clause (ECRC) Calculation of the Actual/Estimated Amount for the Period October 1997 to March 1998 Tampa Electric Company

For Project: Big Bend Unit 4 Continuous Emissions Monitors Return on Capital Investments, Depreciation and Taxes (in Dollars)

Cine	Description	Beginning of Period Amount	Actual October 97	Actual November 97	Estimated December 97	Estimated January 98	Estimated February 98	Estimulad March 98	End of Period Amount
	1. Investments								
	a. Expenditures/Additions		S	9	0\$	8	\$	\$0	
	b. Clearings to Plant		0	0	0	0	0	0	
	c. Retirements		0	0	0	0	0	0	
	d. Other		0	0	0	0	0	0	a I
	2. Plant-in-Sawlos/Depreciation Base	\$866,211	886,211	866,211	886,211	866,211	886,211	866,211	
	3. Less: Accumulated Depreciation	(929'69)	(71,503)	(73,380)	(75,257)	(77.134)	(79,011)	(80,885)	
	4. Other (A)	(238,408)	(236,408)	(236,406)	(238,408)	(236,408)	(236,406)	(236,408)	
	5. Net Investment (Lines 2 + 3 + 4)	\$560,177	558,300	556,423	554,546	552,669	550,792	548,915	
	6. Average Met Investment		559,239	557,362	555,485	563,605	157,131	549,854	
	7. Return on Average Net Investment								
	a. Equity Component Grossed Up For Taxes (B)	(B)	4,112	4,098	4,085	4,071	4,057	4,043	\$24,486
	b. Debt Component (Line 6 x 2.82% x1/12)		1,314	1,310	1,305	1,301	1,297	1,292	7,619
	8. Investment Expenses								
	a. Depreciation		1,877	1,877	1,877	1,877	1,877	1,877	11,262
	b. Arriortization		0	0	0	0	0	0	0
	c. Dismantlement		0	0	0	0	0	0	0
	d. Property Taxes		0	0	0	0	0	0	0
	e. Other		٥	٥	0	0	0	0	0
	9. Total Sytem Recoverable Expenses (Lines 7 +8)	+8)	7,303	7,205	7,267	7,249	7,231	7,212	43,547
	a. Recoverable Costs Allocated to Energy		7,303	7,285	7,267	7,249	7,231	7,212	43,547
	b. Recoverable Costs Allocated to Demand		0	0	0	0	0	0	0
	10. Energy Jurisdictional Factor		0.9296935	0.9274252	0.9330315	0.9273021	0.9300383	0.9189633	
	11. Demand Jurisdictional Factor		0.9015009	0.8875445	0.8794068	0.8841608	0.8874502	0.8738430	
	12. Retail Energy-Related Recoverable Costs (C)		6.790	6,756	6,780	6,722	6,725	6,628	40,401
	13. Retail Demand-Related Recoverable Costs (D)	í o	0	0	0	0	0	0	0
	14. Total Jurisdictional Recoverable Costs (Lines 12 + 13)	12+13)	\$8,790	\$6,756	\$6,780	\$8,722	86,725	\$6,628	\$40,401

(A) Represents the Net Book Value of the replaced Big Bend Unit 4 CEMs which is currently recovered through base rates.
(B) Lines 6 x 8.8238% x 1/12. Bread on ROE of 11.75% and weighted income 'ax rate of 36.575% (expansion factor of 1.628002)
(C) Line 9a x Line 10
(D) Line 9b x Line 11

Calculation of the Actual/Estimated Amount for the Period Tampa Electric Company
Environmental Cost Recovery Clause (ECRC) October 1997 to March 1998

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Return on Capital Investments, Depreciation and Taxes

For Project: Gannon Ignition Oil Tank (in Dollars)

			-							
5	Bescription	Beginning of Period Amount	Actual October 97	Actual November 97	Estimated December 97	Estimated January 98	Estimated February 98	Estimated March 98	End of Period Amount	
	1. Investments									
	a. Expanditures/Additions		\$0	0\$	\$395,000	\$50,000	\$10,000	\$5,000		
	b. Clearings to Plant		0	0	0	0	0	0		
			0	0	0	0	0	0		
	d. Other		0	0	0	0	0	0		
	2. Plant-in-Service/Depreciation Base	08	0	0	0	445,000	455 000	260 000		
	3. Less: Accumulated Depreciation	0	0	0	0	(723)	(2,185)	(3.672)		
	4. CWIP - Non-interest Bearing	0	0	0	395,000	0	0	0		
	4a. Other (A)	0	0	0	(266,000)	(266,000)	(268,000)	(266,000)		
	5. Not investment (Lines 2 + 3 + 4)	8	0	0	129,000	178,277	186,815	190,328		
	6. Average Net Investment		0	0	64,500	153,639	162,546	188,572		
	Return on Average Net Investment									
	a. Equity Component Grossed Up For Taxes (B)		0	0	474	1,130	1,342	1,387	\$4,333	
	b. Debt Component (Line 6 x 2.82% x1/12)		0	0	152	361	429	463	1,385	
	8. Investment Expenses									
	a. Depreciation		0	0	0	723	1,462	1,487	3,672	
	b. Amortization		0	0	0	0	0	0	0	
	c. Dismantlement		0	0	0	0	0	0	0	
	d. Property Taxes		0	0	0	0	0	0	0	
	e. Other	'	0	0	0	0	0	0	0	
	9. Total System Recoverable Expenses (Lines 7 + 5)		0	0	929	2,214	3,233	3,317	9,380	
			0	0	0	0	0	0	9,390	
	 Becoverable Costs Allocated to Demand 		0	0	626	2,214	3,233	3,317	0	
	10. Envigy Juris dictional Factor		0.9296935	0.9274252	0.9330315	0.9273021	0.9300383	0.9189633		
	11. Demand Jur adictional Factor		0.9015009	0.8875445	0.8794068	0.8841608	0.8874502	0.8738430		
	12. Retail Energy-Related Recoverable Costs (C)		0	0	0	0	0	0	0	FC
	13. Retail Demand-Related Recoverable Costs (D)		0	0	351	1,958	2,869	2,898	8,276	R
	 Total Jurisdictional Recoverable Costs (Lines 12 + 13) 	•	0\$	90\$	\$551	\$1,358	\$2,869	\$2,696	\$8,278	M 4

(A) Represents the Capital Costs of the Garnnon Ignition OS Tank currently recovered through base rates.
(B) Lines 6 x 8.6238% x 1/12. Fased on ROE of 11,75% and weighted income tax rate of 38.575% (expansion factor of 1.628002)
(C) Line 9e x Line 10

mpe Electric Company	tal Cost Recovery Clause (ECRC)	Actual/Estimated Amount for the Period	ober 1997 to March 1998
Tampe	Environmental Co	Calculation of the Actua	

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> Return on Capital Investments, Depreciation and Taxes For Project: Big Bend Fuel Oil Tank #1 Upgrade

Description	Beginning of Period Amount	Actual October 97	Actual November 97	Estimated December 97	Estimated January 98	Estimated February 98	Estimated March 98	End of Period Amount	
1. Investments a Expenditures/Additions		S	S	s	20,53	810 676	. 128		
b. Clearings to Plant		0	0	. •	0	0	0		
c. Retirements		0	0	•	0	0	0		
d. Other		0	0	0	0	0	0		
2. Plant-in-Service/Depreciation Base	0	•	0	0	0	0	0		
3. Less: Accumulated Depreciation	0	0	0	0	0	0	0		
4. CWIP - Non-interest Bearing	0	0	0	0	2,262	12,900	54,295		
5. Not Investment (Lines 2 + 3 + 4)	0\$	0	0	0	2,262	12,900	54,295		
6. Average Net Investment		0	0	0	1,131	7,581	33,598		
7. Return on Average Nat Investment		•	c		•	5	250	į	
b. Debt Component (Line 6 x 2.82% x1/12)		0	0		0 10	8 5	2		
8. Investment Expenses									
a. Dopreclation		0	0	0	0	0	0	0	
b. Amortization		0	0	0	0	0	0	0	
c. Dismantlement		0	0	0	0	0	0	0	
d. Property Taxes		0	0	0	0	0	3	0	
a. Other		0	0	0	0	0	0	0	
9. Total Sytem Recoverable Expenses (Lines 7 +6)		0	0	0	=	74	326	411	
a. Recoverable Costs Allocated to Energy		0	0	0	0	0	0	0	
b. Recoverable Costs Allocated to Demand		0	0	0	Ξ	74	328	411	
10. Energy Jurisdictional Factor		0.9296935	0.9274252	0.9330315	0.9273021	0.8300313	0.9189633		
11. Demand Jurisdictional Factor		0.9015009	0.8875445	0.8794068	0.8841608	0.8874502	0.8736430	2	
12. Retail Energy-Related Recoverable Costs (B)		0	0	0	0	0	0	0	1
13. Retail Demand-Related Recoverable Costs (C)		0	0		10	99	285		1
14. Total Jurisdictional Recoverable Costs (Lines 12 + 13)	6	\$0	0\$	\$0	\$10	266	\$282	\$360	FOR
									t

Notes:

⁽A) Lines 6 x 8.8716% x 1/12. Besed on ROE of 11,75% and weighted income tax rate of 38.575% (expension factor of 1.628002)

[3] Line 8a x Line 10

[5] Line 8b x Line 11

Calculation of the Actual/Estimated Amount for the Period Environmental Cost Recovery Clause (ECRC) October 1997 to March 1998 Tampa Electric Company

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Return on Capital Investments, Depreciation and Taxes For Project: Big Bend Fuel Oil Tank #2 Upgrade (in Dollars)

Line

Description	Beginning of Period Amount	Actual October 97	Actual November 97	Estimated December 97	Estimated January 98	Estimated February 98	Estimated March 98	End of Period Amount
Investments Expenditures/Additions		8	8	8	\$2,535	\$12,612	\$40,022	
b. Clearings to Plant		0	0	0	0	0	0	
c. Retirements		0	0	0	0	0	0	
d. Other		0	0	0	•	0	•	
2. Plant-in-Service/Depreciation Base	8	•	0	0	0	0	0	
3. Less: Accumulated Depreciation	0	•	0	0	0	0	0	
4. CMIP - Non-Interest Bearing	0	0	0	0	2,535	15,147	58,169	
5. Net trivestrient (Lines 2 + 3 + 4)	80	0	0	0	2,535	15,147	58,169	
6. Average Net Investment		0	0	0	1,268	8,841	36,658	
7. Return on Average Net Investment a. Enable Commenced Comment In Exp Tenne (2)			•	•	٠			
b. Debt Component (Line 6 x 2.62% x1/12)		0	0	0		21.5	18	
8. Investment Expenses								
a. Depreciation		0	0	0	0	0	0	
b. Amortization		0	0	0	0	0	0	
c. Dismantlement		0	0	0	0	0	0	
d. Property Taxes		0	0	0	0	0	0	
e. Other		0	0	0	0	0	0	
9. Total Sytem Recoverable Expenses (Lines 7 +8)		0	0	0	12	88	356	
 Recoverable Costs Allocated to Energy 		0	0	0	0	0	0	
 Recoverable Costs Allocated to Demand 		0	0	0	12	28	35	
 Energy Jurisdictional Factor Demand Jurisdictional Factor 		0.9296835	0.9274252	0.8330315	0.9273021	0.8300383	0.9189633	
12. Retail Energy-Related Recoverable Costs (B)		0	0	0	0	٥	0	
13. Retail Damand-Ralated Recoverable Costs (C)		0	0	0	=	76	311	
14. Total Jurisdictional Recoverable Costs (Unes 12 + 13)		S	0\$	\$0	\$11	\$78	\$311	

(A) Lines 5 x 6.823816 x 1/12. Based on ROE of 11.75% and weighted income tax rate of 38.575% (expansion factor of 1.628002)
(B) Line 9s x Line 10
(C) Line 9b x Line 11

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Calculation of the Actual/Estimated Amount for the Period Environmental Cost Recovery Clause (ECRC) October 1997 to March 1998 Tampa Electric Company

Return on Capital Investments, Depreciation and Taxes For Project. Phillips Upgrade Tank #1 for FDEP (in Dollars)

\$0	Une Description	Beginning of Period Amount	Actual October 97	Actual November 97	Estimated December 97	Estimated January 98	Estimated February 98	Estimated March 98	End of Period Amount
80 80 80 80 80 80 80 80 80 80 80 80 80 8	1. Investments								
80 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	a. Expenditures Additions b. Cleanings to Plant		8 0	2 0	8 0	\$313	\$945	\$1,330	
\$0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	c. Retirements		0	0	0	00			
\$0 0 0 0 0 0 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 0 128 90 0 0 0 319 1.28 1.25 1.25 0 0 0 0 157 77 0	2. Plant-in-Service/Depreciation Base	0\$	0	0	0	٥	0	0	
90 0 0 0 128 128 128 0 0 0 0 157 78 0	3. Less: Accumulated Depreciation	•	0	0	0	•	0	0	
90 0 0 157 78 0 0 0 0 157 78 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4. CWIP - Non-Interest Bearing	0	0	0	0	313	1,258	2,588	
0 0 0 157 778 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5. Net investment (Lines 2 + 3 + 4)	8	0	0	0	313	1,258	2,588	
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6. Average Net Investment		0	0	0	157	786	1,923	
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7. Return on Average Net Investment								i
0 0	b. Debt Component (Line 6 x 2.82% x1/12)		00	00	00	- 0	9 70	5 5	2 -
0 0	8. Investment Expenses								
9) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	a. Depreciation		0	0	0	0	0	0	0
0 0			0	0	0	0	0	0	0
9) 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 1 0 0 0 0			0	0	0	0	0	0	0
9) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	d. Property Taxes		0	0	0	0	0	0	0
0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 1 0.8274252 0.8330315 0.8273021 0.890038 0.9015009 0.8675445 0.8794088 0.8641608 0.887450	e. Other		0	0	0	0	0	0	0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9. Total Sytem Recoverable Expenses (Lines 7 +5)		0	0	0	-	60	19	28
0 0 0 0 1 0.9274252 0.9330315 0.9273021 0.990038 0.9015009 0.8875445 0.8794068 0.8841908 0.887450	 Recoverable Custs Allocated to Energy 		0	0	0	0	0	0	0
0.9796935 0.9274252 0.9330315 0.9273021 0.930039 0.9015009 0.8875445 0.8794068 0.8841908 0.887450	 Recoverable Cests Allocated to Demand 		0	0	0	-	60	19	28
0.9015009 0.8575445 0.8794068 0.8841906 0.887450	10. Energy Jurisdictional Factor		0.9796935	0.9274252	0.9330315	0.9273021	0.9300363	0.9189633	
	 Demand Jurisdictional Factor 		0.9015009	0.8875445	0.8794068	0.8841608	0.8874502	0.8738430	
0 0 0	12. Retail Energy-Related Recoverable Costs (B)		0	0	0	0	0	0	0
0 0 0	13. Retail Demand-Related Recoverable Costs (C)	•	0	0	0	-	7	17	10
\$1	14. Total Jurisdictional Recoverable Costs (Lines 12 + 13)	•	\$0	\$0	8	\$1	\$7	\$17	\$25

(A) Lines 6 x 8.8239% x 1/12. Exast on ROE of 11.75% and weighted income tax rate of 36.575% (expansion factor of 1.628002)(B) Line 8a x Line 10(C) Line 8b x Line 11

Calculation of the Actual/Estimated Amount for the Period Environmental Cost Recovery Clause (ECRC) October 1997 to March 1998 Tampa Electric Company

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Return on Capital Investments, Depreciation and Taxes For Project: Phillips Upgrade Tank 84 for FDEP (in Dollars)

Equalization of the control of	Tine	Description	Beginning of Period Amount	Actual October 97	Actual November 97	Estimated December 97	Estimated January 98	Estimated February 98	Estimated March 98	End of Pariod Amount
\$0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Investments a. Expenditures/Additions		g	8	S	2382	20 780	27.72	
\$0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		b. Clearings to Plant		0	•	0	0	0	0	
\$0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				0	0	0	0	0	0	
\$0 0 0 0 0 0 0 0				0	•	•	0	0	•	
90 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2	Plant-in-Service/Depreciation Base	08	0	0	0	0	•	0	
90 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Less: Accumulated Depreciation	0	•	•	0	0	0	0	
90 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	•	CW/P - Non-Interest Bearing	0	0	0	0	157	2,946	6,120	
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6	Not Investment (Lines 2 + 3 + 4)	8	0	0	0	157	2,946	6,120	
0 0		Average Not Investment		0	0	0	æ	1,582	4,533	
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7	1		•		•	•		1	
0 0		b. Debt Component (Line 6 x 2.82% x1/12)			00	00	- 0	*	3 =	\$ £
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	45	Investment Expenses								
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				0	0	0	0	0	0	0
0 0 0 0 0 0 0 0 80 80 80				0	0	0	0	0	0	0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				0	0	0	0	0	0	0
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		d. Property Taxes		0	0	0	0	0	0	0
0 0 0 0 0 0 0 0 80 80		e. Other		0	0	0	0	0	0	0
0 0 0 0 0 0 0 0 0.9226835 0.9274252 0.9330315 0.9015009 0.8375445 0.8794068 0 0 0 0 9 0 0 0 80 80	6	Total Sytem Recoverable Expenses (Lines 7 +8)		0	0	0	-	\$1	4	8
0.92298935 0.9274252 0.9330315 0.9015009 0.8872445 0.8794088 0 0 0 0 80 80 80		a. Recoverable Costs Allocated to Energy		0	0	0	0	0	0	0
0.92296935 0.927,1252 0.9330315 0.9015009 0.8375445 0.8794068 0 0 0 0 9 0 0 0 \$0 \$0		 Recoverable Costs Allocated to Demand 		0	0	0	-	15	4	09
0.9015009 0.8375445 0.8794068 0 0 0 0 \$0 \$0 \$0	10	Energy Jurisdictional Faster		0.9296935	0.927-4252	0.9330315	0.9273021	0.8300383	0.9189633	
0 0 0	=	C smand Jurisdictional Factor		0.9015009	0.8875445	0.8794068	0.8841608	0.8874502	0.8736433	
08 08	12.	Retail Energy-Related Recoverable Costs (B)		0	0	0	0	0	0	٥
80 \$0	13	Retail Demand-Related Recoverable Costs (C)		0	0	0	-	13	36	
	14	Total Jurisdictional Recoverable Costs (Lines 12 + 1	6	\$0	0\$	\$0	\$1	\$13	\$38	OR SS\$

(A) Lines 6 x 8.8236% x 1/12. Based on ROE of 11.75% and weighted income tax rate of 38.575% (expansion factor of 1.628002) (B) Lin 38 x Line 10 (C) Line 8b x Line 11