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ORIGINAL  
FILE COPY

May 20, 1997

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. 970007-EI

Dear Ms. Bayo:

Enclosed for filing in the above docket, on behalf of Tampa Electric Company, are ten (10) copies of Prepared Direct Testimony and Exhibit (KAB-1) regarding environmental compliance activities for the period October 1996 through March 1997.

Please acknowledge receipt and filing of the above by stamping the duplicate copy of this letter and returning same to this writer.

Thank you for your assistance in connection with this matter.

Sincerely,

  
James D. Beasley

ACK \_\_\_\_\_

AFA 1

APP \_\_\_\_\_

CAF \_\_\_\_\_ JDB/pp

CMH \_\_\_\_\_ Enclosures

CTR \_\_\_\_\_ cc: All Parties of Record (w/enc.)

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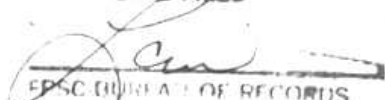
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FPSC BUREAU OF RECORDS

DOCUMENT NUMBER-DATE

05065 MAY 20 97

FPSC DEPT. OF RECORDS & REPORTING

Ms. Blanca S. Bayo  
May 20, 1997  
Page Two

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that a true copy of the foregoing testimony, filed on behalf of Tampa Electric Company, has been furnished by hand delivery (\*) or U. S. Mail on this 20<sup>th</sup> day of May, 1997 to the following:

Ms. Vicki D. Johnson\*  
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Division of Legal Services  
Florida Public Service Comm'n.  
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Pensacola, FL 32576

  
\_\_\_\_\_  
ATTORNEY

FILE COPY

TAMPA ELECTRIC COMPANY  
DOCKET NO. 970007-EI  
SUBMITTED FOR FILING 5/20/97

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BEFORE THE PUBLIC SERVICE COMMISSION  
PREPARED DIRECT TESTIMONY  
OF  
KAREN A. BRANICK

Q. Please state your name, address, occupation and employer.

A. My name is Karen A. Branick. My business address is 702 North Franklin Street, Tampa, Florida 33602. My position is Manager - Energy Issues in the Regulatory and Business Strategy Department of Tampa Electric Company ("Tampa Electric" or "the company").

Q. Have you previously testified in this docket?

A. Yes, I have.

Q. What is the purpose of your testimony?

A. The purpose of my testimony is to present, for Commission review and approval, the actual true-up amount and the calculations thereof associated with the environmental compliance activities for the period October 1996 through March 1997.

DOCUMENT NUMBER-DATE  
05065 MAY 20 97  
FPSC-RECORDS/REPORTING

- 1 Q. Do you wish to sponsor an exhibit in support of your  
2 testimony?  
3
- 4 A. Yes. My Exhibit No. \_\_\_\_\_ (KAB-1) consists of 8 forms which  
5 were prepared under my direction and supervision. Form 42-  
6 1A reflects the final true-up for the October 1996 - March  
7 1997 period to be carried forward to the October 1997 -  
8 March 1998 period; Form 42-2A consists of the final true-up  
9 calculation for the period; Form 42-3A consists of the  
10 calculation of the Interest Provision for the period; Form  
11 42-4A reflects the calculation of variances between actual  
12 and projected costs for O & M Activities; Form 42-5A  
13 presents a summary of actual monthly costs for the period  
14 for O & M Activities; Form 42-6A reflects the calculation  
15 of variances between actual and projected costs for Capital  
16 Investment Projects; Form 42-7A presents a summary of  
17 actual monthly costs for the period for Capital Investment  
18 Projects and Form 42-8A consists of the calculation of  
19 depreciation expense and return on capital investment.  
20
- 21 Q. What is the source of the data which you will present by  
22 way of testimony or exhibits in this processing?  
23
- 24 A. Unless otherwise indicated, the actual data is taken from  
25 the books and records of Tampa Electric Company. The books

1 and records are kept in the regular course of our business  
2 in accordance with generally accepted accounting principles  
3 and practices, and provisions of the Uniform System of  
4 Accounts as prescribed by this Commission.  
5

6 **Q.** What is the actual true-up amount which Tampa Electric is  
7 requesting for the six-month period October 1996 through  
8 March 1997?  
9

10 **A.** Tampa Electric has calculated and is requesting approval of  
11 an overrecovery of \$1,110,336 as the actual true-up amount  
12 for the six-month period.  
13

14 **Q.** What is the adjusted net true-up amount which Tampa  
15 Electric is requesting for the October 1996 through March  
16 1997 period which is to be carried over and refunded in  
17 the next projection period?  
18

19 **A.** Tampa Electric has calculated and is requesting approval of  
20 an overrecovery of \$156,449 as the adjusted net true-up  
21 amount for the six-month period. This adjusted net true-up  
22 amount is the difference between the actual overrecovery of  
23 \$1,110,336 for the period October 1996 through March 1997  
24 and the estimated/actual true-up for the same period of an  
25 overrecovery of \$953,887 approved in FPSC Order No. PSC-97-

1 0293-POF-EI. This is shown on form 42-1A.

2

3 Q. Is this true-up calculation consistent with the true-up  
4 methodology used for other cost recovery clauses?

5

6 A. Yes, it is. The calculation of the true-up amount follows  
7 the procedures established by this Commission as set forth  
8 on Commission Schedule A-2 "Calculation of True-Up and  
9 Interest Provisions" for the Fuel Cost Recovery Clause.

10

11 Q. Are all costs listed in Forms 42-4A through 42-8A  
12 attributable to Environmental Compliance projects approved  
13 by the Commission?

14

15 A. Yes, they are.

16

17 Q. How did actual expenditures for October 1996 through March  
18 1997 compare with Tampa Electric's estimated/actual  
19 projections as presented in previous testimony and exhibits

20

21 A. Overall costs were \$190,001 lower than estimated/actual  
22 projections. O & M Activities were \$191,565 lower and  
23 Capital Investment Projects were \$1,564 higher than  
24 estimated/actual projections. Set forth below are variance  
25 explanations for those O & M Activities. All variances are

1 provided in detail on Forms 42-2A through 42-8A.

2  
3 Significant variances by project were as follows:

4  
5 1. BIG BEND UNIT 3 FLUE GAS DESULFURIZATION INTEGRATION  
6 O & M Project expenditures were \$186,316 lower than  
7 projected primarily due to lower limestone and  
8 maintenance costs for January 1997 through March 1997  
9 because of a lower than projected use of the FGD  
10 system. Limestone costs and maintenance expenses are  
11 allocated between Big Bend Units 3 and 4 based on the  
12 ratio of the tons of SO2 removed from each unit to the  
13 sum of the tons of SO2 removed from both units. Unit  
14 3 was disengaged from the FGD system more than  
15 anticipated due to maintenance requirements for both  
16 units as well as capacity enhancements for Unit 4.

17  
18 2. FLUE GAS CONDITIONING - O & M Project expenditures  
19 were \$5,249 lower than projected due to lower than  
20 projected usage.

21  
22 Q. Does this conclude your testimony?

23  
24 A. Yes, it does.

25

EXHIBIT NO \_\_\_\_\_  
DOCKET NO. 970007-EI  
TAMPA ELECTRIC COMPANY  
(KAB-1)

**FINAL TRUE UP**

**ENVIRONMENTAL COST RECOVERY**

**COMMISSION FORMS 42-1A THROUGH 42-8A**

**OCTOBER 1996 - MARCH 1997**



EXHIBIT NO. \_\_\_\_\_  
DOCKET NO. 970007-EI  
TAMPA ELECTRIC COMPANY  
(KAB-1)

**FINAL TRUE UP**  
**ENVIRONMENTAL COST RECOVERY**  
**COMMISSION FORMS 42-1A THROUGH 42-8A**  
**OCTOBER 1996 - MARCH 1997**  
**INDEX**

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Tampa Electric Company  
 Environmental Cost Recovery Clause (ECRC)  
 Calculation of the Final True-Up Amount for the Period  
 October 1996 to March 1997

Line	Period Amount
1 End of Period Actual True-Up for the Period October 1996 to March 1997 (Form 42-2A, Lines 5 + 6 +10)	\$1,110,336
2 Estimated/Actual True-Up Amount approved for the Period October 1996 to March 1997 (Order No. PSC-97-0293-FOF-EI)	953,687
3 Final True-Up Amount to be refunded/(recovered) in the projection period October 1997 to March 1998 (Lines 1 - 2)	\$156,449

( ) Reflects Underrecovery

**Tampa Electric Company**  
**Environmental Cost Recovery Clause (ECRC)**  
**Calculation of the Final True-Up Amount for the Period**  
**October 1996 to March 1997**

Form 42-2A

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

Line	October 96	November 96	December 96	January 97	February 97	March 97	End of Period Total
1 ECRC Revenues (net of Revenue Taxes)	\$501,583	\$454,100	\$446,347	\$487,406	\$442,619	\$456,236	\$2,788,291
2 True-Up Provision	0	0	0	0	0	0	0
3 ECRC Revenues Applicable to Period (Lines 1 + 2)	501,583	454,100	446,347	487,406	442,619	456,236	2,788,291
4 Jurisdictional ECRC Costs							
a O & M Activities (Form 42-5A, Line 9)	101,213	143,450	124,327	120,694	143,195	106,602	739,681
b Capital Investment Projects (Form 42-7A, Line 9)	154,557	152,605	152,237	153,045	155,079	153,691	921,214
c Total Jurisdictional ECRC Costs	255,770	296,055	276,564	273,739	298,274	260,293	1,660,895
5 Over/Under Recovery (Line 3 - Line 4c)	245,813	158,045	169,783	213,667	144,345	195,743	1,127,396
6 Interest Provision (Form 42-3A, Line 10)	(4,827)	(3,938)	(3,388)	(2,493)	(1,578)	(836)	(17,060)
7 Beginning Balance True-Up & Interest Provision							
a Deferred True-Up from June 1996 to September 1996 (Order No. PSC-97-0293-FOF-EI)	(1,193,181)	(952,195)	(798,088)	(631,693)	(420,519)	(277,752)	(1,193,181)
8 True-Up Collected/(Refunded) (see Line 2)	0	0	0	0	0	0	0
9 End of Period Total True-Up (Lines 5+6+7+8)	(952,195)	(798,088)	(631,693)	(420,519)	(277,752)	(82,845)	(82,845)
10 Adjustments to Period Total True-Up Including Interest	0	0	0	0	0	0	0
11 End of Period Total True-Up (Lines 9 + 10)	(\$952,195)	(\$798,088)	(\$631,693)	(\$420,519)	(\$277,752)	(\$82,845)	(\$82,845)

2

EXHIBIT NO. \_\_\_\_\_  
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TAMPA ELECTRIC COMPANY  
(KAB-1)  
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**Tampa Electric Company**  
 Environmental Cost Recovery Clause (ECRC)  
 Calculation of the Final True-Up Amount for the Period  
 October 1996 to March 1997

Interest Provision  
 (in Dollars)

Line	October 96	November 96	December 96	January 97	February 97	March 97	End of Period Total
1 Beginning True-Up Amount (Form 42-2A, Line 7 + 10)	(\$1,193,181)	(\$952,195)	(\$798,088)	(\$631,693)	(\$420,519)	(\$277,752)	
2 Ending True-Up Amount Before Interest (Line 1 + Form 42-2A, Lines 5 + 8)	(947,368)	(794,150)	(628,305)	(418,026)	(278,174)	(82,009)	
3 Total of Beginning & Ending True-Up (Lines 1 + 2)	(2,140,549)	(1,746,345)	(1,426,393)	(1,049,719)	(698,693)	(359,761)	
4 Average True-Up Amount (Line 3 x 1/2)	(1,070,275)	(873,173)	(713,197)	(524,860)	(348,347)	(179,881)	
5 Interest Rate (First Day of Reporting Business Month)	5.44%	5.36%	5.45%	5.95%	5.45%	5.43%	
6 Interest Rate (First Day of Subsequent Business Month)	5.38%	5.45%	5.95%	5.45%	5.43%	5.74%	
7 Total of Beginning & Ending Interest Rates (Lines 5 + 6)	10.82%	10.83%	11.40%	11.40%	10.88%	11.17%	
8 Average Interest Rate (Line 7 x 1/2)	5.410%	5.415%	5.700%	5.700%	5.440%	5.565%	
9 Monthly Average Interest Rate (Line 8 x 1/12)	0.451%	0.451%	0.475%	0.475%	0.453%	0.465%	
10 Interest Provision for the Month (Line 4 x Line 9)	(\$4,827)	(\$3,939)	(\$3,368)	(\$2,493)	(\$1,578)	(\$838)	(\$17,060)

**Tampa Electric Company**  
 Environmental Cost Recovery Clause (ECRC)  
 Calculation of the Final True-Up Amount for the Period  
 October 1996 to March 1997

Form 42-4A

Variance Report of O&M Activities  
 (in Dollars)

Line	(1)	(2)	(3)		(4)
	Actual	Estimated Actual	Amount	Variance	Percent
1 Description of O&M Activities					
1 Big Bend Unit 3 Flue Gas Desulfurization Integration	\$754,917	\$941,233	(\$186,316)		-19.8%
2 Big Bend Units 1 & 2 Flue Gas Conditioning	22,340	27,569	(5,249)		-19.0%
3 Big Bend Unit 4 Continuous Emissions Monitors	0	0	0		0
2 Total O&M Activities	\$777,257	\$968,822	(\$191,565)		-19.8%
3 Recoverable Costs Allocated to Energy	\$777,257				
4 Recoverable Costs Allocated to Demand	\$0				

Notes

Column(1) is the End of Period Totals on Form 42-5A

Column(2) is the approved Estimated/Actual amount in accordance with

FPSC Order No. PSC-97-0293-FOF-EI

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

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

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 TAMPA ELECTRIC COMPANY  
 (KAB-1)  
 DOCUMENT NO. 4  
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Tampa Electric Company  
 Environmental Cost Recovery Clause (ECRC)  
 Calculation of the Actual Period Amount  
 October 1996 to March 1997

O&M Activities  
 (in Dollars)

Line	October 96	November 96	December 96	January 97	February 97	March 97	End of Period Total
1 Description of O&M Activities							
1a Big Bend Unit 3 Flue Gas Desulfurization Integration	\$102,901	\$149,160	\$125,369	\$125,560	\$145,406	\$106,521	\$754,917
1b Big Bend Units 1 and 2 Flue Gas Conditioning	3,115	2,703	6,293	1,563	3,418	5,248	22,340
1c Big Bend Unit 4 Continuous Emissions Monitors	0	0	0	0	0	0	
2 Total Investment Projects - Recoverable Costs	106,016	151,863	131,662	127,123	148,824	111,769	777,257
3 Recoverable Costs Allocated to Energy	106,016	151,863	131,662	127,123	148,824	111,769	777,257
4 Recoverable Costs Allocated to Demand	0	0	0	0	0	0	0
5 Retail Energy Jurisdictional Factor	0.9546945	0.9446045	0.9442889	0.9494282	0.9621781	0.9555642	
6 Retail Demand Jurisdictional Factor	N/A	N/A	N/A	N/A	N/A	N/A	
7 Jurisdictional Energy Recoverable Costs (A)	101,213	143,450	124,327	120,694	143,195	106,802	739,681
8 Jurisdictional Demand Recoverable Costs (B)	0	0	0	0	0	0	0
9 Total Jurisdictional Recoverable Costs for O&M Activities (Lines 7 + 8)	\$101,213	\$143,450	\$124,327	\$120,694	\$143,195	\$106,802	\$739,681

Notes

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

Tampa Electric Company  
 Environmental Cost Recovery Clause  
 Calculation of the Final True-Up Amount for the Period  
 October 1996 to March 1997

Form 42-6A

Variance Report of Capital Investment Projects - Recoverable Costs  
 (in Dollars)

Line	(1)	(2)	(3) Variance	
	Actual	Estimated Actual	Amount	Percent
1 Description of investment Projects				
1 Big Bend Unit 3 Flue Gas Desulfurization Integration	\$573,319	\$571,755	\$1,564	0.3%
2 Big Bend Units 1 & 2 Flue Gas Conditioning	349,698	349,698	0	0.0%
3 Big Bend Unit 4 Continuous Emissions Monitors	44,858	44,858	0	0.0%
2 Total Investment Projects - Recoverable Costs	\$967,875	\$966,311	\$1,564	0.2%
3 Recoverable Costs Allocated to Energy	\$967,875			
4 Recoverable Costs Allocated to Demand	\$0			

Notes:  
 Column(1) is the End of Period Totals on Form 42-7A  
 Column(2) is the approved Estimated/Actual amount in accordance with  
 FPSC Order No. PSC-97-0293-FOF-EI  
 Column(3) = Column(1) - Column(2)  
 Column(4) = Column(3) / Column(2)

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

Capital Investment Projects-Recoverable Costs  
 (in Dollars)

Line	October 96	November 96	December 96	January 97	February 97	March 97	End of Period Total
1 Description of Investment Projects (A)							
1a Big Bend Unit 3 Flue Gas Desulfurization Integration	\$65,756	\$65,570	\$65,385	\$95,513	\$65,641	\$95,454	\$573,319
1b Big Bend Units 1 and 2 Flue Gas Conditioning	58,613	58,481	58,349	58,217	58,085	57,953	349,698
1c Big Bend Unit 4 Continuous Emissions Monitors	7,522	7,504	7,485	7,467	7,449	7,431	44,856
2 Total Investment Projects - Recoverable Costs	181,891	181,555	181,219	181,197	181,175	180,838	967,875
3 Recoverable Costs Allocated to Energy	181,891	181,555	181,219	181,197	181,175	180,838	967,875
4 Recoverable Costs Allocated to Demand	0	0	0	0	0	0	0
5 Retail Energy Jurisdictional Factor	0.9546945	0.9446045	0.9442889	0.9494282	0.9621781	0.9555642	
6 Retail Demand Jurisdictional Factor	N/A	N/A	N/A	N/A	N/A	N/A	
7 Jurisdictional Energy Recoverable Costs (B)	154,557	152,605	152,237	153,045	155,079	153,691	921,214
8 Jurisdictional Demand Recoverable Costs (C)	0	0	0	0	0	0	0
9 Total Jurisdictional Recoverable Costs for investment Projects (Lines 7 + 8)	\$154,557	\$152,605	\$152,237	\$153,045	\$155,079	\$153,691	\$921,214

Notes

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



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

Form 42-8A  
 Page 1 of 3

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

Line	Description	Beginning of Period Amount	October 96	November 96	December 96	January 97	February 97	March 97	End of Period Total
1	Investments								
a	Expenditures/Additions		\$0	\$0	\$0	\$52,074	\$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	\$8,187,584	8,187,584	8,187,584	8,187,584	8,239,658	8,239,658	8,239,658	
3	Less: Accumulated Depreciation	(278,374)	(297,478)	(316,582)	(335,688)	(354,851)	(374,077)	(383,303)	
4	CWIP - Non-Interest Bearing	0	0	0	0	0	0	0	
5	Net Investment (Lines 2 + 3 + 4)	\$7,909,210	7,890,106	7,871,002	7,851,896	7,884,807	7,865,581	7,846,355	
6	Average Net Investment		7,899,858	7,880,554	7,861,450	7,868,353	7,875,194	7,855,968	
7	Return on Average Net Investment								
a	Equity Component Grossed Up For Taxes (A)		58,088	57,947	57,807	57,857	57,908	57,786	\$347,373
b	Debt Component (Line 6 x 2.82% x 1/12)		18,564	18,519	18,474	18,491	18,507	18,462	111,017
8	Investment Expenses								
a	Depreciation		19,104	19,104	19,104	19,165	19,226	19,226	114,929
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 + 8)		95,756	95,570	95,385	95,513	95,641	95,454	573,319
a	Recoverable Costs Allocated to Energy		95,756	95,570	95,385	95,513	95,641	95,454	573,319
b	Recoverable Costs Allocated to Demand		0	0	0	0	0	0	0
10	Energy Jurisdictional Factor		0.9546845	0.9446045	0.9442889	0.9494262	0.9621781	0.9555642	
11	Demand Jurisdictional Factor		N/A	N/A	N/A	N/A	N/A	N/A	
12	Retail Energy-Related Recoverable Costs (B)		91,418	90,278	90,071	90,683	92,024	91,212	545,684
13	Retail Demand-Related Recoverable Costs (C)		0	0	0	0	0	0	0
14	Total Jurisdictional Recoverable Costs (Lines 12 + 13)		\$91,418	\$90,278	\$90,071	\$90,683	\$92,024	\$91,212	\$545,684

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 9b x Line 11

EXHIBIT NO. \_\_\_\_\_  
 DOCKET NO. 970007-EI  
 TAMPA ELECTRIC COMPANY  
 (KAB-1)  
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Tampa Electric Company  
Environmental Cost Recovery Clause (ECRC)  
Calculation of the Actual Period Amount  
October 1996 to March 1997

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

Line	Description	Beginning of Period Amount	October 96	November 96	December 96	January 97	February 97	March 97	End of Period Total
1	Investments								
a	Expenditures/Additions		\$0	\$0	\$0	\$0	\$0	\$0	\$0
b	Clearings to Plain		0	0	0	0	0	0	0
c	Retirements		0	0	0	0	0	0	0
d	Other		0	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	5,017,734
3	Less: Accumulated Depreciation	(372,366)	(385,800)	(399,594)	(413,196)	(426,802)	(440,406)	(454,010)	(454,010)
4	CWIP - Non-Interest Bearing	0	0	0	0	0	0	0	0
5	Net Investment (Lines 2 + 3 + 4)	\$4,645,368	4,631,744	4,618,140	4,604,538	4,590,932	4,577,328	4,563,724	4,563,724
6	Average Net Investment	4,638,548	4,624,942	4,611,306	4,597,734	4,584,130	4,570,528	4,556,926	4,556,926
7	Return on Average Net Investment								
a	Equity Component Grossed Up For Taxes (A)		34,108	34,008	33,908	33,808	33,708	33,608	33,608
b	Debt Component (Line 6 x 2.82% x 1/12)		10,801	10,869	10,837	10,805	10,773	10,741	10,741
8	Investment Expenses								
a	Depreciation		13,604	13,604	13,604	13,604	13,604	13,604	13,604
b	Amortization		0	0	0	0	0	0	0
c	Disarmament		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 + 8)		58,613	58,481	58,349	58,217	58,085	57,953	57,953
a	Recoverable Costs Allocated to Energy		58,613	58,481	58,349	58,217	58,085	57,953	57,953
b	Recoverable Costs Allocated to Demand		0	0	0	0	0	0	0
10	Energy Jurisdictional Factor		0.9546945	0.9446045	0.9442869	0.9439682	0.9436496	0.9433310	0.9430124
11	Demand Jurisdictional Factor		N/A	N/A	N/A	N/A	N/A	N/A	N/A
12	Retail Energy-Related Recoverable Costs (B)		55,956	55,241	55,098	55,273	55,868	55,378	55,378
13	Retail Demand-Related Recoverable Costs (C)		0	0	0	0	0	0	0
14	Total Jurisdictional Recoverable Costs (Lines 12 + 13)		\$55,956	\$55,241	\$55,098	\$55,273	\$55,868	\$55,378	\$55,378

Notes:  
(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) Line 9a x Line 10  
(C) Line 9b x Line 11

Tampa Electric Company  
Environmental Cost Recovery Clause (ECRC)  
Calculation of the Projected Period Amount  
October 1996 to March 1997

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

Line	Description	Beginning of Period Amount	October 96	November 96	December 96	January 97	February 97	March 97	End of Period Total
1	Investments								
a	Expenditures/Additions		\$0	\$0	\$0	\$0	\$0	\$0	\$0
b	Clearings to Plant		0	0	0	0	0	0	0
c	Retirements		0	0	0	0	0	0	0
d	Other		0	0	0	0	0	0	0
2	Plant-in-Service/Depreciation Base	\$866,211	866,211	866,211	866,211	866,211	866,211	866,211	866,211
3	Less - Accumulated Depreciation	(47,102)	(48,979)	(50,856)	(52,733)	(54,610)	(56,487)	(58,364)	(58,364)
4	Other (A)	(238,408)	(238,408)	(238,408)	(238,408)	(238,408)	(238,408)	(238,408)	(238,408)
5	Net Investment (Lines 2 + 3 + 4)	\$580,701	580,824	578,947	577,070	575,193	573,316	571,439	571,439
6	Average Net Investment		581,763	579,888	578,008	576,132	574,255	572,378	572,378
7	Return on Average Net Investment								
a	Equity Component Grossed Up For Taxes (B)		4,278	4,264	4,250	4,236	4,223	4,209	4,209
b	Debt Component (Line 6 x 2.82% x 1/12)		1,367	1,363	1,358	1,354	1,349	1,345	1,345
8	Investment Expenses								
a	Depreciation		1,877	1,877	1,877	1,877	1,877	1,877	11,202
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 (D)		0	0	0	0	0	0	0
9	Total System Recoverable Expenses (Lines 7 + 8)		7,522	7,504	7,485	7,467	7,449	7,431	44,858
a	Recoverable Costs Allocated to Energy		7,522	7,504	7,485	7,467	7,449	7,431	44,858
b	Recoverable Costs Allocated to Demand		0	0	0	0	0	0	0
10	Energy Jurisdictional Factor		0.9546945	0.9448045	0.9442889	0.9494282	0.9521781	0.9555642	0
11	Demand Jurisdictional Factor		N/A	N/A	N/A	N/A	N/A	N/A	0
12	Retail Energy-Related Recoverable Costs (C)		7,181	7,068	7,068	7,089	7,167	7,101	42,884
13	Retail Demand-Related Recoverable Costs (D)		0	0	0	0	0	0	0
14	Total Jurisdictional Recoverable Costs (Lines 12 + 13)		\$7,181	\$7,068	\$7,068	\$7,089	\$7,167	\$7,101	\$42,884

Notes:  
(A) Represents the Net Book Value of the replaced Big Bend Unit 4 CEIMs which is 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 1.828002)  
(C) Line 9a x Line 10  
(D) Line 9b x Line 11