# **AUSLEY & MCMULLEN**

ATTORNEYS AND COUNSELORS AT LAW

227 SOUTH CALHOUN STREET P.O. BOX 391 (ZIP 32302) TALLAHASSEE, FLORIDA 33301 (850) 224-9115 FAX (850) 222-7560

November 12, 1998

# HAND DELIVERED

Ms. Blanca S. Bayo, Director Division of Records and Reporting Florida Public Service Commission 2540 Shumard Oak Boulevard Tallahassee, Florida 32399-0850

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

Dear Ms. Bayo:

Enclosed for filing on behalf of Tampa Electric Company are the original and ten (10) copies of the Prepared Direct Testimony of Karen O. Zwolak dated revised November 12, 1998 requested by Staff during Ms. Zwolak's deposition.

We would appreciate your substituting the enclosed testimony originally filed on October 5, 1998.

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

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2 - Vandur Thank you for your assistance in connection with this matter. AFA APP CAF CMU 1 LLW/pp 3 Hou Enclosures OPC All Parties of Record (w/enc.) CC-RCH SEC WAS ..... OTH \_\_\_\_\_

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TAMPA ELECTRIC COMPANY DOCKET NO. 980007-EI FILED 10/05/1998 REVISED 11/12/1998

1 I		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	Α.	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	Piero de la	Department.
13		
14	Q.~	Please provide a brief outline of your educational
15		background and business experience.
16		
17	Α.	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	1	I began my engineering career in 1986 at the Florida
21		Department of Environmental Regulation and was employed as
22	1	a Permitting Engineer in the Industrial Wastewater Program.
23		In 1990, I joined Tampa Electric Company as an engineer in

1

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ı		the Environmental Planning Department and was responsible
2		for permitting and compliance issues relating to wastewater
3		treatment and disposal. In 1995, I transferred to Tampa
4		Electric's Energy Supply Department and assumed the duties
5		of the plant chemical engineer at the F. J. Gannon Station.
6		In 1997, I was promoted to Manager, Energy Issues in the
7		Electric Regulatory Affairs Department. My present
8		responsibilities include the areas of fuel adjustment,
9		capacity cost recovery, environmental filings and rate
10		design.
11		
12	Q.	What is the purpose of your testimony in this proceeding?
13	100	
14	А.	The purpose of my testimony is to present, for Commission
15		review and approval, both the calculation of the revenue
16		requirements and the estimation of the environmental cost
17		recovery factors for the billing period January 1999
18		through December 1999. My testimony also addresses the
19		recovery of O & M costs associated with the environmental
20		compliance activities for the period January 1, 1999
21		through December 31, 1999 as well as the actual/estimated
22		costs for the April 1998 through December 1998 period.
23		

1	Q.	Have you provided any exhibits which show the determination
2		of the recoverable environmental cost for the period of
3	2	January 1, 1999 through December 31, 1999?
4		
5	А.	Yes. Exhibit No (KOZ-1) includes Forms 42-1P through
6		42-7P, prepared under my direction and supervision
7		calculate and summarize the capital and 0 & M costs, and
8		develop the environmental cost recovery factors for 1999
9	1.5	which are being presented for recovery at this time. Forms
10		42-1E through 42-8E, also prepared under my direction and
11	- 7	supervision, calculate the current period true-up amount to
12	1.13	be refunded for 1999 and are provided in Exhibit No
13		(KOZ-1).
14		
15	۵.	What has Tampa Electric calculated as the total true-up to
16		be applied in the period January 1999 through December
17	11.58	1999?
18		
19	A.	The total true-up applicable for this period is an
20		overrecovery of \$1,476,853. This true-up consists of a
21	1.55	final true-up overrecovery of \$135,850 approved in
22		Commission Order No. PSC-98-1224-FOF-EI and a five-month
23		actual/one month estimated true-up overrecovery of \$386,745

1		for the April 1998 through September 1998 period plus an
2		estimated true-up overrecovery of \$954,258 for the period
3		October 1998 through December 1998. A detailed calculation
4		supporting the estimated true-up is shown on Schedules 42-
5		1E through 42-8E of Exhibit No (KOZ-1).
6		
7	Q.	How do the actual/estimated project O&M expenses for April
8		1998 through December 1998 period compare with the original
9	A REE	projection?
10		
11	<b>A</b> .	As shown on Form 42-4E, total O&M activities were
12		\$1,302,574 or 43.7% lower than projected costs. This
13	$\gamma = 6$	variance is primarily attributable two projects.
14		
15		1) In June 1998 Tampa Electric received approval from the
16	1.8	Federal Energy Regulatory Commission to collect SO2
17		allowance costs from incremental sales. (The $SO_2$
18		costs charged to interchange sales are based on the
19		projected replacement cost of SO <sub>2</sub> allowances.) Since
20		this time, Tampa Electric has been collecting revenues
21		including $SO_2$ allowance costs and crediting back the
22		jurisdictional retail customers. This credit is now
23		reflected in the costs passed through the ECRC.

Overall, retail customers are projected to realize 1 credits totaling \$508,157 for October, November and 2 December of 1998 based on the impact of estimated 3 economy sales. 4 5 The FMPA SO, credit resulted in a decreased credit to 2) 6 Tampa Electric's jurisdictional retail customers due 7 to differences in actual unit generation and allowance 8 costs. 9 Are there any new O & M activities and associated expenses 10 Q. for which Tampa Electric is seeking cost recovery? 11 12 Yes. Schedule 42-2P itemizes 13 projects in which O & M 13 costs are to be recovered. Of these 13 O & M compliance 14 activities, the only O & M project and associated expenses 15 which have not yet been reviewed by the Commission relate 16 to the National Pollutant Discharge Elimination System 17 (NPDES) Annual Surveillance Fee. 18 19 Nelson states in his testimony, the Florida 20 As Mr. Department of Environmental Protectica (FDEP), in 1995, 21 enacted a rule requiring payment of annual surveillance 22 fees for the administration of the NPDES program. Tampa 23

1		Electric Company is seeking, prospectively, recovery of
2		these costs in this projection filing. Because this is a
3		new rule that had not been anticipated at the time of Tampa
4		Electric's rate case and the costs were incurred after
5		April 13, 1993, these costs are appropriate for recovery
6		through the clause.
7		
8	Q.	Has Tampa Electric Company included any capital project
9		costs for recovery through the Environmental Cost Recovery
10		Clause?
11		
12	А.	Yes. Tampa Electric has included fifteen capital projects
13		for recovery through the Environmental Cost Recovery
14		Clause. Of these fifteen projects, seven new projects have
15		been included. As Mr. Nelson points out in his prepared
16		testimony, five of these projects are projects required to
17		meet the NOx emission requirements of Title IV of the Clean
18		Air Act Amendments of 1990. These projects include Big
19	12	Bend Units 1 and 2 classifier Replacements, Gannon Units 5
20		and 6 Classifier replacements, and Gannon coal crushers.
21		Additionally, Tampa Electric Company will be extending the
22		stacks at Gannon Units 5 and 6 to meet Title V permitting
23		requirements.

1		
2	Q.	Are there currently any new capital projects already in
3		service for which Tampa Electric is seeking recovery?
4		
5	A.	Yes. The Gannon Unit 5 Classifier replacement was in
6		service as of December 1997 and the Big Bend Unit 2
7		classifier replacement went into service in May 1998.
8		These projects are being considered together as the basis
9		of Tampa Electric's NOx compliance plan. Capital
10		expenditures for these in-service project are being
11		recovered on a prospective basis and no construction
12		carrying costs are included.
13	-	
14	۵.	Do you have any exhibits showing the calculation of the
15		recoverable capital project costs for 1999?
16		
17	А.	Yes. Schedule 42-3P summarizes all the cost estimates
18		projected for these projects and Schedules 42-4P pages 1
19	11.5	through 8, which were prepared under my direction and
20		supervision, show the calculations of these costs.
21		
22	۵.	Do you have an exhibit which shows the description and
23		progress reports for environmental compliance activities

- 1		
1		and projects?
2		
3	А.	Yes. Project descriptions, as well as the projected
4		recoverable cost estimates, are provided in Schedules 42-
5		5P, pages 1 through 17.
6		
7	Q.	What are the total projected jurisdictional costs estimated
8		for environmental compliance in the year 1999?
9		
10	Α.	Based on cost estimates for the O & M and capital projects
11		summarized on Schedules 42-3P and 42-4P, the total
12		jurisdictional amount to be recovered through the
13		Environmental Cost Recovery Clause calculated on Schedule
14		42-1P, is \$6,127,114.
15		
16	۵.	How were environmental cost recovery factors calculated?
17		
18	Α.	The environmental cost recovery factors were calculated as
19		shown on Schedules 42-6P and 42-7P. The demand allocation
20		factors are calculated by determining the percentage cach
21		rate class contributes to the monthly system peaks. This
22	1.5	information is obtained from Tampa Electric's 1997 load
23		data study and is provided in Exhibit No. (KOZ-1). The

1	energy allocation factors are determined by the percentage
2	each rate class contributes to total kWh sales, as adjusted
3	for losses, for each rate class. Form 42-7P presents the
4	calculation of the proposed Environmental Cost Recovery
5	Clause factors by rate class.
6	
7	Q. Are the costs Tampa Electric is requesting for recovery
8	through the Environmental Cost Recovery Clause for the
9	period January 1999 through December 1999 consistent with
10	criteria established for environmental cost recovery in
11	PSC-94-0044-FOF-EI?
12	
13	A. Yes, they are. The costs identified for recovery through
14	the Environmental Cost Recovery Clause are costs that:
15	
16	1. have been prudently incurred or will be incurred after
17	April 13, 1993;
18	2. the activities are legally required to comply with a
19	governmentally imposed environmental regulation which
20	was enacted, became effective or whose effect was
21	triggered after the company's last test year upon
22	which rates are based; and
22	

1		3. such costs are not recovered through some other cost
2		recovery mechanism or through base rates.
3		
4	Q.	What are the Environmental Cost Recovery clause billing
5		factor rates for which you are seeking approved new
6		factors?
7		
8	А.	The computation of the billing factors is shown on Form 42-
9		7P of my exhibit. In summary, the billing factors are:
10		
11		Rate Class Factor (¢/kWh)
12		RS, RST 0.030
13		GS, GST, TS 0.029
14		GSD, GSDT 0.029
15		GSLD, GSLDT, SBF 0.029
16		IS1, IST1, SBI1,
17		SBIT1, IS3, IST3,
18		SBI3, SBIT3 0.027
19		SL, OL 0.028
20		
21	Q.	When does Tampa Electric propose to collect these
22		environmental cost recovery charges?
23		

Α.	They should go into effect concurrent with the first
	billing cycle in January 1999.
Q.	Does this conclude your testimony?
Α.	Yes, it does.
~	

EXHIBIT NO. \_\_\_\_\_ DOCKET NO. 980007-EI TAMPA ELECTRIC COMPANY (KOZ-1) REVISED: NOVEMBER 12, 1998

# ENVIRONMENTAL COST RECOVERY COMMISSION FORMS

# 42-1P THROUGH 42-7P JANUARY 1999 THROUGH DECEMBER 1999

42-1E THROUGH 42-8E APRIL 1998 THROUGH DECEMBER 1998

EXHIBIT NO. \_\_\_\_\_ DOCKET NO. 980007-E1 TAMPA ELECTRIC COMPANY (KOZ-1) REVISED: NOVEMBER 12, 1998

# ENVIRONMENTAL COST RECOVERY COMMISSION FORMS

# 42-1P THROUGH 42-7P JANUARY 1999 THROUGH DECEMBER 1999

# 42-1E THROUGH 42-8E APRIL 1998 THROUGH DECEMBER 1998

1 Forms 42-1P 2 Forms 42-2P	2	1 2 3
2 Forms 42-2P	1	2 3
2 Forms 42-3P	1	3
5 FOUND 44-51		4
4 Forms 42-4P		
5 Forms 42-5P		19
6 Forms 42-6P		36
7 Forms 42-7P		37
8 – Forms 42-1E		38
9 Forms 42-2E		39
10 Forms 42-3E		40
11 Forms 42-4E		41
12 Forms 42-5E		42
13 Forms 42-6E		43
14 Forms 42-7E		44
15 Forms 42-8E		45

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For the Projected Period January 1999 to December 1999

	Eacryy (3)	(S)	Total (5)
<ol> <li>Total Jurisdictional Revenue Requirements for the projected period a. Projected O&amp;M Activities (Form 42-2P, Lines 7, 8 &amp; 9)</li></ol>	5,00,020	231,957	53,081,137
b. Projected Capital Projects (Form 4-5-1), class 7, 6 or 9) c. Total Jarvalictional Revenue Requirements for the projected period (Lines La 1 1b)	5,845,254	281,860	6,127,114
<ol> <li>True-up for Estimated Over(Hinder) Recovery for the current period Aguil 1998 to September 1998 (Fours 42-21, Line 5 + 6 + 10)</li> </ol>	629,288	4316	512,245
[2] Less estimated Over(Usaler) Recovery for April 1998. September 1998 already being collected in the current period (October - December 1998) (Approved in Order No. PSC '98-1224-FOF-E3)	(582,91)	(447)	(40,007)
<ol> <li>Trac-up for Estimated Overit/Under) Recovery for the period Octoher 1998 to December 1998.</li> <li>(Fourn 42-2E, Line 5 + 6 + 10)</li> </ol>	952,268	88,729	857756
<ol> <li>Final Trac-up for the period October 1997 to March 1998 (Form 42-1A, Line 3) (Approved in Order No. PSC-98-1224-FOF-EI)</li> </ol>	512,271	SRA	175,859
<ol> <li>Tetal Juriadictional Amount to the Recovered/(Refunded) in the projection period January 1999 to December 1999 (Line 1 - Line 2a - Line 2b - Line 3)</li> </ol>	4,461,584	188,678	4,650,261
<ol> <li>Total Projected Jurielictional Amount Adjusted for Taxes (Line 4 a Revenue Tax Multiplier)</li> </ol>	54,465,300	\$188,835	\$4,654,135

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

EXHIBIT NO. \_\_\_\_\_ DOCKET NO. 980007-E1 TAMPA ELECTRIC COMPANY (KOZ-1) FILED: OCTOBER 5, 1998 DOCUMENT NO. 1 PAGE 1 of 1

FORM 42-1P REVISED: NOVEMBER 12, 1998

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EXHIBIT NO. \_\_\_\_\_ DOCKET NO. 980007-EI TAMPA ELECTRIC COMPANY (KOZ-1) FILED: OCTOBER 5, 1998 **DOCUMENT NO. 2** PAGE 1 of 1

FORM 42-2P REVISED: NOVEMBER 12, 1998

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EXHIBIT NO. \_\_\_\_\_ DOCKET NO. 980007-EI TAMPA ELECTRIC COMPANY (KOZ-1) FILED: OCTOBER 5, 1998 DOCUMENT NO. 3 PAGE 1 of 1

FORM 42-3P **REVISED: NOVEMBER 12, 1998** 

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EXHIBIT NO. \_\_\_\_\_ DOCKET NO. 980007-EI TAMPA ELECTRIC COMPANY (KOZ-1) FILED: OCTOBER 5, 1998 DOCUMENT NO. 4 PAGE 1 of 15

FORM 42-4P REVISED: NOVEMBEP 11 1998

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6. Average Net Investment		WEHLY	4,057,634	0107457	423/0/279	1214123	117/077	4,199,44	4,176,010	4,342,406	4.146,002	4,135,198	4011194	
2. Retnuts on Average Net Investment				5	114 11	11 003	104-002	10,807	101,04	30,607	10,907	10,407	704,947	1220,254
a. Econity Companients Generated Up For Taxers (A)		200"15	100'16	and the	100	110.0	0.2.0	0.545	9,814	9,782	4,750	9,718	1,144	116,341
<ol> <li>Ebebs Component (Liner &amp; x 2.82% n 1/12)</li> </ol>		10,017	500'04	CIATA	Ļ		5							
<ol> <li>Invertingue Expenses</li> </ol>						111404	11404	13.404	13,404	13,404	13,404	13,404	11,404	8143.248
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. Burnardah Casa Allacand to Burner		15,048	34,916	24,794	54,843	1000		in the second	ł			1	•	•
b. Recoversible Costs Allocated to Demand		•	0	•	a	0	•		•	-				
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Cri 10. Exercic Juriedictional Factor 11. Demand Juriedictional Factor		0.9040411	0,9065425	590559870	0,9011748	0.9051240	0.9164773	6,914,7414	0*20916'0	0.4213212	0,001	0,9031,252	NET COOM D	
		107.13	0130	53.062	52,384	41.00	44,830	50,084	413,95	105,04	145,14	141,124	11115	Sala,057
12. Retail Energy-Related Recovershie Conta (11)		and a	-			•	•	•	•	•			•	
13. Regel Denuark-Related Recoverable Control(C)		100113	287.622	\$\$2,002	100.022	544,499	549,830	590,064	544,836	510,101	111,541	\$55,724	111111	2414,052
14. Total Jernalcheest Recordsons Lans (Lans 14 - 17)														

EXHIBIT NO. DOCKET NO. 980007-EI TAMPA ELECTRIC COMPANY (KOZ-1) FILED: OCTOBER 5, 1998 DOCUMENT NO. 4 PAGE 2 of 15

FORM 42-4P REVISED: NOVEMBER 12, 1998

Notes: (A) Lisers to A EX2NEA A 1/12. Manuel on ECIE of 11.75% and wrighted in (A) Liser Sha Lines 19 (C) Liser Sha Lines 11

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$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	<ol> <li>Plane as Service Reperculation Plane</li> </ol>	41%C 2M	PPPA ALA	1141,4041	63945,4123	that you	1007,1041	1100/w011	(110,420)	(112, 797)	(1)-4(1)	(111 mill)	factor with	time the	
Control         <	A. Lens. Accumulated Department	CHOR 49.21	(Z14, 4183)	(214,405)	(2 %, 40%)	(17%,400)	(214,408)	(714,40%)	(234,400)	(mer 41)	face with	fame (m/)	100 MA	The set	
1         0	4. Other (A)	\$10.022	\$30,145	S2R.764	194,962	524,544	\$22,433	08.95	318,083	117,006	11/12	MUM	ELC'HC		
• Anorgh for lineared	5. Net lise transport (1, sect 2 * 5 * 4)		111 001	000.005	17.140	121,651	455'526	521,6999	514,012	596215	514,068	141,542	\$42,914	510,457	
1 Run un Array for Instance.         1 Run un Array for Instance. <th< td=""><td>4. As exage Net Investiment</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	4. As exage Net Investiment														
• Equip Francement Control Up for Exact (0)         •	2. Return on Average Net Investored				100	1.844	1,850	1.13%	1,022	409°Y	31,745	N7H	Lac.X	1,759	545,951
• Like Component (Larce 1.17% L12)       • L27       L177       L17	a. Equity Components Commed Up For Taves (II)					1.944	1,210	1.236	1,222	123	117	長 1		90,1	111100
I homomet lyneme         1,17	<ol> <li>Dolds Components (Line 6 x 2.82% x 1/12)</li> </ol>		. 134	5	1										
	<ol> <li>Investment Expenses</li> </ol>						1011	1.877	1051	1001	11811	1/1/1	1111	1,573	122.53
Numerican         A matricina         Numerican	<ul> <li>Expectation</li> </ul>		1111	11811	1			•	•	•	•	•	•	•	
Commentant         Comment	b. Americation		•		•			•		•	•	ø	•		•
4         Pageny Loca         0 <td< td=""><td>c Dismandlement</td><td></td><td>•</td><td></td><td>•</td><td></td><td></td><td></td><td></td><td>0</td><td>•</td><td>•</td><td>•</td><td>•</td><td></td></td<>	c Dismandlement		•		•					0	•	•	•	•	
c         Other           c         Class         2,002         2,002         2,002         2,002         2,002         2,003         2,013         4,003         4,013         4,003         4,013	d. Property Laws				• •	• •		0	•	0	•		•	•	
• Total System Recovered & Equences (Line 1 • 1)       1,000       2,012       0,04       0,07       0,01	e. Oke						1		148.7	100.7	100	100	6.543	607.9	33,164
A Recorded Can Allocate being     A Recorded Can Allocate being     A Recorded Can Allocate browd     A	a Total Content Beconsuble Expenses (Lines 7 + 8)		1,030	7,812	a a	2				A 403	101	0.044	54	4,110	13,344
It Reservicies Creat Afforcard in Dimension     A team of the second of the secon	. Beconservice Contr. Allocated to Entry		2,050	1,012	***	1.23	10.1		1	•	•	•		•	
One is the production of factor         Control of the isotropy of the isotrop	b. Racovership Costs Allocated to Demond		•	•	a	•	•								
(a. Energy Industriand Factor 11. Density Industriand Factor 11. Density Industriand Factor 11. Density Industriand Factor 12. Backy Edited Recoveredde Carsi(C) 6.331 6,381 6,468 6,468 6,318 6,318 6,318 6,318 6,458 6,468 6,310 6,318 6,458 6,458 6,310 6,3			14 PE 14 PE 14	A 0 2014004	0.01000	Sogaale o	C 1002500 0	0.9161713	0.4227257	0.4203942	0.935,9884	1005995410	0 40.56 110	0.94.71294	
11 Lances Active ALST ALSE ALST ALST ALST ALST ALST ALST ALSO ALST ALSO ALST ALSO ALST ALSO ALST ALST ALSO ALST	10. Energy heritefectured Factor		0.9040421	0.9045423	Safetera.a	0.9011745	0.9051240	0.9194773	0.91a/bit4	0.9960240	0.9213222	ULKLEIN B	CH21604 B	a11200a D	
11 Barran' Education (C) (2011								410		4,350	440	230	6,992	-	astacs.
	12. Retail Energy-Related Recoverable Costs (C)		1079	1007	5	١.	•	•	•		0	•	•	•	
11. Becad Demonsk Proteine Received & Cost 01 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	13. Recall Domand Refated Recentrable Custs (D)		CARL	SA.BOI	Same	SA.Alla	50,314	54.157	54.584	54.154	56,440	025 MS	54°545	NAME.	2/4/10

EXHIBIT NO. \_\_\_\_\_\_ DOCKET NO. 980007-EI TAMPA ELECTRIC COMPANY (KOZ-I) FILED: OCTOBER 5, 1998 DOCUMENT NO. 4 PAGE 3 of 15

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Notes: (A) Represents de No: Boad Value of the replaced Dig Boad Unit 4 CEMA which is convertly recovered domugh hour saw. (A) Liebes to A 1217N v 1712. Based on RCU of 11.23% and weighted income tax rate of 38.337% (expansion factor of 1.A.2002) (A) Liebes to A 1218 v 11.2 (B) Liebes to A 1218 v 11.2

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	pr Researches	Projected	Projected	Property	Party of	Present of	Property in	1	1111	The state	Projected (3+ 9+	Projected Num 70	Presed	Teles
I ar	Percel Assessed	the st	2											
1 Inconser				1		3	5	3	3	8	2	3	3	
<ul> <li>I varndmarry/Additions</li> </ul>		972,578	\$10,450	9	g •	1	4			•	•	0	¥	
h. Channes to Plant		0	0		•	<b>5</b> 04				•	•	•	4	
- Beinemeth		8	0	•		•						•	•	
d. Other		•	•	•	•	9			ł		5			
				1000 1000 100	11,275,500	11 479 100	000 N/P 75	51,474,500	906,974,122	51,474,900	51,474,300	51,479,500	\$1,47%,NGD	
<ol> <li>Plane on Service Dependitions Have</li> </ol>	01.V.144.31	21,444,834	00% 'L' 10	All and a second	10.0014	123 1944	1711	(WYL) IN	(14, 567)	(14,175)	1111/201	1111,101	(MI IN)	
<ol> <li>Levis Accumulated Depressions</li> </ol>	(1.14.71)	(mar)	inter al				•	e			•	0	•	
4. C'UTP- Num-Interest fleating	(15(345))	1,463,094	1,46/(,401	1,445,113	1,441,245	1.453,140	1,651,129	1,449,064,1	1,444,993	1,440,425	1,434,857	1,432,799	1428.221	
3. Post norcessors (Lower 4 - 7 - 7)		1.428,961	1,444,701	1.46.1.46.3	1,441,748	112,995,1	1,015,163	1441,005	120,544,3	6/4/2 <sup>*</sup> 8/8 <sup>*</sup> 1	INCOMP.1	130,021	1,419,755	
								10.00	Con a set of the	10.410	where a	10.110	10.51	0071215
7. Renue on Average ret sectorem		10.488	10.781	10,790	10,740	10,730	10,700	NAMP I						an etc
<ul> <li>Equity Component Grooned Up For Facts (A)</li> <li>b. Debt Component (Lint 6 x 2.87% x 1/12)</li> </ul>		280.4	1,446	3,448	3,439	1,429	3,429	3,410	Y.401	10.7	18070	250		
1. Increased functions							1000	101	100	1001	Cont	(04	1003	548,846
. Demeciation		1,435	4,003	4,064	5	1	•		•	•	0	ø	•	•
A Association		•	•					•	•			•	•	•
c. Discustement		e	•					0		•	•	•	•	0
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e Obie		•	•								-		13.61	101.04
		\$17.13	14.240	11.304	1000	(22,81	10,100	10.143	18.100	and and			130121	201.02
<ol> <li>Total System Recoverable Expenses (Lasts 7 + 1)</li> </ol>		144.41	11.790	11.101	19731	122.81	26,150	10,148	18,109	11,00.0	10,01	DMA <sup>211</sup>	102'21	
<ul> <li>Recencedde Costs Allocated to Energy</li> <li>Beconcedde Costs Allocated to Demond</li> </ul>		0	•	•	•	•	•	•	•	•	•	•		
			and the second s	A WANTER	0 0154205	0.0078817	0,9161713	0.9227257	2452004/0	0.4353386	0.956/903	08050798-0	0.46.72394	
VII. Energy beneficional Factor		1210006-0	12750050	5455548.0	0.9011748	0.9051240	0.9964773	\$192934 B	0.9160240	212(124.0	4,441717	0,401121	0,9007189	
					12 600	11.11	LAMAN .	14,746	14,674	14,942	25721	815,61	17,942	ELCARCE .
12. Retail Energy-Related Reconceptier Conto (11)		10701	1.000	1				•	•		•	•	0	
13. Reput Demand Related Recoverable Control (C)		0 00	61.744	517.906	517.500	Stasset	514.443	\$14,745	SI4,674	\$16,902	247215	\$11,149	204,512	EUNIX
[4] Youd heinfectional Recentrable Cash (Lines 12 * 13)														

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out les Renarios Capital Increments, Depreciation and Ease For Project: Hig Head Duit 2 Chandra Replocement

SUALS B 100722 110/111 The second SULUA dest/made 186,112 411,724 1110 11,31 11.777 1407184 NUCLEAR INCOME. 10011 140,043 3 Particular I Hart("hard SIGN'STARS きたちまい 0.0011292 11,342 511.342 441.716 945,4,75 ----111 3 2.4.7 The second \$2305'01.1 \$275'1385 0.9569203 211,315 0.0 100011 511.318 30 940, 963 161, 194 110.0 2417 Prepared Ont-99 0(0'\\30\) Cam.a 100 3 4213212 11,018 11,008 3 949,610 178 814 14153884 124.1 Tan-see 10,459 112,8519 3 1107 142029-0 510 939 OCULTARY OF 111114 EW1 11,000 11,880 1 114024 112.219 15 0 4227257 RCO'VIN') \$194 D 0.0 0.9147614 10,985 3 14812 10 11,405 110,905 054,864 24.2 Particular I NEW YEAR 10,930 0.9361713 0.9164773 510.450 3000 1111 1.47 11,930 019,11 952,498 Pick Box a star 1(14-34) 01001200-0 9000 10,855 511 Day 101,432 10012 11.9% 1 10.115 Trank I 1VJJ.211 1003409 1,9011748 11,485 P(10,1-3P CB6'11 511,485 2 Sale and 462, 345 2,427 Parada I (mga) m) 100'1011 11,410 \$11,410 1.144 2.4.77 ۰ . . 12,0021 19503089 0.8915745 30 221.24 ALL NO Parents 0.9702429 1129/013 11,675 3 0 SVEV DAYS 00,011 11.17 1771 12,015 11.075 100.00 11 1111111 11,713 BUNGHAND 0.4040421 \$11,317 あいのでのの 33 12,058 3 011,940 2.6.2 Teres of 00033865 Period Amount 117,179 overable Conts (C) able Conts (Lines 12 + 13) aud System Ro. metable Expenses (Lines 7 + 8) Recoverable Conts Allineated to Energy Recoverable Conts Allineated to Denucul a. Equity Component Commed Ely For Even (A) b. Edds Component (Line 5 x 2.8.7% x 1/12) uble Costs (B) Desription ment (Lines 2 + 3 + 4) Reul Emerg-Belated Record 11. Reual Densaria Related Record 14. Tatal Instalictional Records Betars on Average Net Inve-Non-Interest Drawn burisdictional Factor per l'and l'and 1 ( hange to Plant Investment P spense Flats as Service Fly Property Leves Total System Rev As rage Net had Irus Arres C speeds Ĩ į 1 March In Design Other k Cuth. **Net lane** ... 8 1

EXHIBIT NO. \_\_\_\_\_ DOCKET NO. 980007-EI TAMPA ELECTRIC COMPANY (KOZ-1) FILED: OCTOBER 5, 1998 DOCUMENT NO. 4 PAGE 5 of 15

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factors of 1.A28002) one tax cate of M.S.P.S. (repassion Notes (1) Laser to A 11.21/10, s. 1/12. Raned on 1005 of 11.27% and (1) Laser So A Line 10 (1) Line % a Line 11

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0 0 President and NAME . 1080'W SALARS. (100"1821) (100"1821 15,948 9 213,455 11072 101 0.9671274 15007199 115,941 100,812,1 3 Property 1180(101) 00275780 14.531 15,914 515,914 1411191 11 3 257,098 ITLANCI ğ Parada L 1777, July 1177 TES'NI #58°51 515,858 3 214,415 147.8 100949561 1785119.0 195.755 3 Projected Clear fre 0110728J 0.9213212 110.7 10,014 IK31 515.541 3 19153586 L'ANL IS 100.000 Sup of \$1,199,040 (B41,147) 14,457 0.5160247 11(1)11 1447 3 100 270.871 1.223.0021 Payred P 11.1194,040 TALTUN D 1,002 14.041 0.9167614 No. \$13,406 2 275,175 UCULI I 20 Participation of the second £121914'0 11,117 (145,147) 16,748 69C/W 5 12411421 1,424 11111 NA. W. L 3 11 (12.151) 0.9051209.0 11.2% 9 . . 14,792 CIRECON T \$15.2% 100 1,783,783 1295,495,1 3 Property of law man 101 (154/BE) (154/BE) 19011348 1011 9584805 14,125 3 0 129021 510°X \$14,125 ğ Val Da 1 The second trime on Capital Investments, Dep For Proper, Gammen V Classifi-In Difference 1000014-0 111-0.049 10,027 5 51,359,040 and a In Bud 145,54 (HCHAC) 3 536,021 1: þ 122,3451 1012406 3.0 . 6 0.9045425 10,401 11,159,040 YAM, MY 1052 100 10,402 16,407 14.404 THE BY 1.1 040,072,12 3000 0.9717435 33 14,945 12101041 20 510.400 1001 999 REVECT Paperson Paperson 11, N94,040 President of 1.404,401 dde Com (Lines 12 + 13) Tatal System Becoverable Expenses (Lines 7 + 8) a. Recoverable Const Allocand to Energy sensest Gaussed Fip For Taxes (A) must [Line 6 x 2.82% x 1/12] stable Costs (II) sendole Costs (C) Percipana enable Costs Allocated to De (Lines 2 + 5 + 4) Ectoes on Average Net Invest of Factor Retail Encorp. Related Record Retail Denned Related Record Total Interdictional Record coal Facto d-Rahard Ray ddA/var Champ, & Plan Plane in Service De Incoment Faces 10. Energy Incident 11. Denned Incided Average Net Inv Equily Comp Debt Compare CWIF-Need Lundaug 1 8 1 ž â 11 ž 4.4 221 EXHIBIT NO. DOCKET NO. 980007-EI TAMPA ELI TRIC COMPANY (KOZ-1) FILED: OCTOBER 5, 1998 DOCUMENT NO. 4 PAGE 6 of 15

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factor of 1 A268023 NLNIN's Icopum 1 5 Manes (A) Laser to A.X.20196-A. V.12. Noved on HUN of 11.70-4. (A) Laser to A.X.100-10 (C) Laser to A.Line 10

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1 ł Return on Capital In-

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	licguang of	Projected	Projected	Particular	The second	Projected	Particular	Projected Jul 99	Projected Aug. 70	Preparate	Projected Out-m	Projected New 00	Projected	Print Ameri
Last Decreption	Period Astronom	las VI	144	N. M.	t al									
1. Investigation					111111	114 124 124	111 246	100.428	000,152	8	2	2	2	
a Expenditures/Additions		213,000	211,900	10.014	CICCUS .	0	0		0	•	0	•	•	
A. Character to Plant		•	•				0	•	•	•	a	0	0	
c Reservents		• •		· · ·				0	ø	0	0	0	0	
	5	5	5	3	3	2	111,582,12	SHC, FML.12	\$1,735,043	\$10,215,645	\$1,735,945	51,735,045	11,733,045	
2. Plane do Service/Depretiation Rate 1. 1	ξ °	2 0	. •	•	•	•	(14(7)	(1:m1)	(11.21)	0 (17,421)	(NLA.11) 6	0	0 (MARK)	
4. CWIP- Num Interest Bearing	43,235	195.65	141 10	HIN .	194 (A	110011	1 COLETA	1.400.477	1,722,326	211,422	1,712,417	1,307,212	1, 702,007	
5. Nen Investments (Lines 2 + 3 + 4)	1000	N/M	64,141	84,173		a state of the sta								
a. Average Net Investment		44,738	141,28	841,96	2146 (20)	045'114	HI'SH'1	1,592,786	1,708,712	1,790,125	111,020	11,100,012	019/102/1	
<ol> <li>Returns on Average Net Investment</li> </ol>			-			4117	107.	11,349	12,550	12,649	12,611	12,575	12,534	4257105
<ul> <li>Equally Components Gammad Hig For Taves (A)</li> <li>Ibdia Components (Line 6 x 2.82% + 1/12)</li> </ul>		1 =	6 <b>4</b>	l E	12	1'en	A.Int	854.9	1877	101	4.019	4,018	8	111762
										-	100.0	C MAG	100.1	\$33,494
<ol> <li>Investment Expenses</li> </ol>			•	•	•	•	1927	1001	erc .	00**		-		
<ul> <li>Depreciation</li> </ul>				•	•	•	•	•	•	•				
h. Assofication			•	0	•	•	•	•	•	•				-0
e. Dissuadencest						•	•	•	•		•	•		
4. Property Laws						0	0		0	•	0		•	-
4. Obte					1	14.1	16.01	110%	21.710	21,497	21,946	21,796	21,745	193,681
a. Total System Econocoble Expression (Lines 7 + 8)		-	8		1	-	11 11	20.MI	21.710	21,997	21,544	21,796	21,745	165.031
a. Reconclude frame: Allocated in Franky		9 °	§ °		•			•	•	•	•		•	0
A Revenues to an Amazon in the second						C. Sandara	A 11111	CA22259-0	19(10(3)	40153684	0.9564201	0429295	Q.962712940	
On tray indicating		12000020	SCHEMIN D	Q.BYSSTAS	Section 5	0,9051240	CT144173	0.9107014	0.9160240	0.9213212	0.6417377	0,9931282	44100040	
II. LANSAGE AND ADDRESS AND ADDRESS AD			State No	1	-	1410	14.00%	10(11	casa'at	240,482	20,9405	130.02	21,012	5144,416
12. Betall f nergy Related Recoverable ('nut-(H)		*			•		•				•		•	•
1.1. Baraid Dressend-Related Recoverable Costs (C)	A PLANSING AND A		1181	COD	5549	21,412	514,029	518,741	514,990	\$20,482	\$20,9475	130,001	21/8/1	Pletain

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1 de la la contraction de la c		and a	Participation of the local division of the l		Property in	and a	Projected July 99	Properties	the state	Con the	Properties	Traperted	Period Amount
1. Investments         2400           5. Expendiments: Additions         240           6. Expendiments: Additions         0           6. Expendiments: Additional Rate         20           7. Plane in: Expensions Rate         0													
Repreditional Activities     A Charange to Plant     Catalogy			***	61.470	12 100	51,580	2 mag	3	9	540	2	510	
k. Charange to Plant     c. Reterings to Plant     c. Reterements     d. Obler     d. Obler     d. Obler     d. A. Obler     d. Ob	Della C	and a	4			0	0	•	•	•	•	•	
c Reciencesos d Cobier 2. Plana in Service Depressiones Mare 5. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						•	0	0	0	•	a	•	
1. Plant in ServiceTopervision Bare     50     50     5			•	a	0		0	0	ø	ø	•	e	
2. Plant-in-ServiceTopprevations Date: 20 0	5	\$	5	3	3	3	x	8	2	2	8	111,010	
The Association Presentation	1	1 9	•	0	0	•	•	0	•		ø	(Sol)	
V LEAN ACT WITH ALL AND A LEAN ALL AND A		24 640	27.030	28.450	014/06	11.530	33,490	33,490	11,440	95576	11,570	•	
4. CWIP-New Interest Rearing 4. June 2. June 4. June 4	1,800	79,640	27,030	28,450	6(4)0	12,530	33,440	33,490	11,490	19,579	01530	11,600	
A very first investment	8173	012.45	34,845	27,740	001.92	081,110	11,010	33,690	069'11	945716	01210	33,545	
7. Return on Average Net Investment		1	-	-		114	100	100	492	247	06	111	52,708
a. Equity Component Granted Up For Taxes (A) [17]	<u> </u>	2 3	2 3	5	2	2	7	£	£	R	R	£	3
b. Them Component (Liner big 2.54 - 5.74 - 5													
3. Investment Experiment				e	4	•	•	0	•	•	•	9	220
a Depreciation							•	•	•	0	•	•	•
h. Americation							•		•	•	•	•	•
c Dismanderment	0									•	•	•	•
4. Property Taxes		• •	• •				•	•			0	•	0
r. Ober				,		5	101	HR.	115	-	134	338	245
<ol> <li>Total System Renoveshie Expenses (Lines 2 + 8)</li> </ol>	201	1	8 1	1		3	101	HI I	315	101	326	376	1476
Ressueship Costs Allocated to Energy     Al	2 *	-		•	•	•	•	•	•		•	•	
A Recoverable Costs Allocated to Demand		1000							A ALCONG	in second	0.00110100	0.9671894	Ī
All Tarry Intidictional Factor / 0 4917415 0 4910415	117435	0.97024079 0.9045425	5%L 5548*0	0.9911748	0.9051240	0.9964775	0.9187614	0+20916'0	0.8213212	11511160	0,9031282	0.9002189	
						08	£	52	×	312	314	X	20,034
12. Besult Escrept-Related Reconcechie Costs (B)		•	•		•			0	0	•	•	0	•
(). Recal Densed Reland Resource/de Conta (C)	(140	1943	1943	224	1475	5362	5246	\$299	1003	\$115	5914	5364	31.424

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tion factor of 1.h.20023 Noise: (A) Lare to a \$250% a 1/12. Raned on \$10% of 11.75% and weighted servere tax rate of 98.575% (expan (A) Lare %a t lose 10 (C) Lare %a t lose 11

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Return on Capital Investments, Departurism and Leven For Project Gamma Unit & Soch Extension

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EXHIBIT NO. DOCKET NO. 980007-EI TAMPA ELECTRIC COMPANY (KOZ-1) FILED: OCTOBER 5, 1998 **DOCUMENT NO. 4** PAGE 9 of 15

FORM 42-4P **REVISED: NOVEMBER 12, 1998** 

Notes: (A) East a 1.123195, a 1/12. Raned on ROE of 11.75%. (R) Line %a Line 10 (f) Line %a Line 11

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EXHIBIT NO. \_\_\_\_\_ DOCKET NO. 980007-EI TAMPA ELECTRIC COMPANY (KOZ-1) FILED: OCTOBER 5, 1998 DOCUMENT NO. 4 PAGE 10 of 15

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Notes: Motors: (A) Line that £23.97% if 1/12. Based on R(2E of 11.73% and weighted income to rate of 35.37% (expansion factor of 1.450002) (A) Line that Line 10 (C) Line that Line 11

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<ol><li>Plane un Service Organication Rand</li></ol>	and the second	101110	125, 2491	127,164.0	(190,973)	1000/107	(\$2,947)	143.41	(147,043)	(3444,82)	(400,000)	(206727)	(a10're)	
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<ol> <li>New Investment (Lines 2 * 1 * 4)</li> </ol>				111 144	11111	11( 166	244,794	118,995	247,440	CHOLANZ	294.15%	142,244	240,045	
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it. Investment Papemen					1.417	1.417	1.917	1,917	1,447	1,917	1,912	1,947	1,947	121,064
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<ol> <li>Total Systems Recoverable Expension (Lines 2 + 8)</li> </ol>		4,541	1123	105	a, '	ŝ				0	•	•		a
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Photo: Retail Energy-Related Recoverable Costs (C)				CON F	4111	4.035	4,112	4,116	4,115	4,121	4,761	3	417	1441
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EXHIBIT NO. \_\_\_\_\_ DOCKET NO. 980007-EI TAMPA ELECTRIC COMPANY (KOZ-1) FILED: OCTOBER 5, 1998 DOCUMENT NO. 4 PAGE 11 of 15

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11. Revel freemed Report Reversable Cons (7) 5, 70 5,	12. Retail Energy-Related Recoverable Costs (8)		1	1740	4714	4794	1.76.7	1107	4,810	CUT A	4,817	4,713	ANT.	1977	WP24
	13. Receil Drenand-Related Reconcepting Control (C)		BALTS	247.242	SATIS	54,754	54,747	54,858	54,810	141.145	54,217	14.141	100.15	NIMI	107:55

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FORM 42-4P REVISED: NOVEMBER 12, 1998

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EXHIBIT NO. \_\_\_\_\_ DOCKET NO. 980007-EI TAMPA ELECTRIC COMPANY (KOZ-1) FILED: OCTOBER 5, 1998 DOCUMENT NO. 4 PAGE 13 of 15

FORM 42-4P **REVISED: NOVEMBER 12, 1998** 

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EXHIBIT NO. DOCKET NO. 980007-EI TAMPA ELECTRIC COMPANY (KOZ-1) FILED: OCTOBER 5, 1998 DOCUMENT NO. 4 PAGE 14 of 15

FORM 42-4P **REVISED: NOVEMBER 12, 1998** 

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FORM 42-4P **REVISED: NOVEMBER 12, 1998** 

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Form 42-5P Page 1 of 17

# Tampa Electric Company Environmental Cost Recovery Clause (ECRC) January 1999 Through December 1999 Description and Progress Report for Environmental Compliance Activities and Projects

EXHIBIT NO. DOCKET NO. 980007-EI TAMPA ELECTRIC COMPANY (KOZ-1) FILED: OCTOBER 5, 1998 DOCUMENT NO. 5 PAGE 1 of 17

FORM 42-5P REVISED: NOVEMBER 12, 1998

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.

The project is complete and in service.

# **Project Accomplishments:**

Project Fiscal Expenditures:

The actual/estimated depreciation plus return for the period April 1998 through September 1998 was \$555,373 compared to the original projection of \$555,373, representing a variance of 0%.

The actual/estimated O & M expense for the period April 1998 through September 1998 was \$571,608 compared to the original projection of \$652,493, representing a variance of 12.39%.

Project Progress Summary:

**Project Projections:** 

Estimated depreciation plus return for the period October 1998 through December 1998 is expected to be \$275,168. Estimated O & M costs for the period October 1998 to December 1998 are projected to be \$420,017.

Estimated depreciation plus return for the period January 1999 through December 1999 is expected to be \$1,083,883. Estimated O & M costs for the period January 1999 through December 1999 are projected to be \$1,429,470.

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> Tampa Electric Company Environmental Cost Recovery Clause (ECRC) January 1999 Through December 1999 Description and Progress Report for Environmental Compliance Activities and Projects

EXHIBIT NO. \_\_\_\_\_ DOCKET NO. 980007-EI TAMPA ELECTRIC COMPANY (KOZ-1) FILED: OCTOBER 5, 1998 DOCUMENT NO. 5 PAGE 2 of 17

FORM 42-5P REVISED: NOVEMBER 12, 1998

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

\$41.376.

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 SO<sub>2</sub> is converted to SO<sub>3</sub>. The control and injection system then injects this into the ductwork ahead of the electrostatic precipitators.

# **Project Accomplishments:**

Project Fiscal Expenditures:	The actual/estimated depreciation plus return for the period April 1998 through September 1998 was \$335,436 compared to the original projection of \$335,436, representing a variance of 0%.
	The actual/estimated O & M for the period April 1998 through September 1998 was \$14,874 compared to the original projection of \$16,500, representing a variance of (9.85%).
Project Progress Summary:	The project is complete and in service
Project Projections:	Estimated depreciation plus return for the period October 1998 through December 1998 is projected to be \$165,936. Estimated O & M costs for the period October 1998 through December 1998 are projected to be \$9,345.
	Estimated depreciation plus return for the period January 1999 through December 1999 is projected to be \$651,873. Estimated O & M costs for the period January 1999 through December 1999 are projected to be

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# Tampa Electric Company Environmental Cost Recovery Clause (ECRC) January 1999 Through December 1999 Description and Progress Report for Environmental Compliance Activities and Projects

EXHIBIT NO. DOCKET NO. 980007-EI TAMPA ELECTRIC COMPANY (KOZ-1) FILED: OCTOBER 5, 1998 DOCUMENT NO. 5 PAGE 3 of 17

FORM 42-5P REVISED: NOVEMBER 12, 199:

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 SO<sub>2</sub>, NO<sub>x</sub> 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 actual/estimated depreciation plus return for the period April 1998 through September 1998 was \$42,892 compared to the original projection of \$42,892, representing a variance of 0%.
	The actual/estimated O & M expense for the period April 1998 through September 1998 was \$0 compared to the original projection of \$0, representing a variance of 0%.
Project Progress Summary:	The project is complete and in service
Project Projections:	Estimated depreciation plus return for the period October 1998 through December 1998 is projected to be \$21,200. Estimated O & M costs for the period October 1998 through December 1998 are projected to be \$0.
	Estimated depreciation plus return for the period January 1999 through

Estimated depreciation plus return for the period January 1999 through December 1999 is projected to be \$109,539. Estimated O & M costs for the period January 1999 through December 1999 are projected to be \$0. Form 42-5P Page 4 of 17

> Tampa Electric Company Environmental Cost Recovery Clause (ECRC) January 1999 Through December 1999 Description and Progress Report for Environmental Compliance Activities and Projects

EXHIBIT NO. DOCKET NO. 980007-EI TAMPA ELECTRIC COMPANY (KOZ-1) FILED: OCTOBER 5, 1998 DOCUMENT NO. 5 PAGE 4 of 17

FORM 42-5P REVISED: NOVEMBER 12, 1998

# Project Title: SO<sub>2</sub> Emission Allowances

# **Project Description:**

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. Phase 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 exceeding 25 megawatts and to new generating utility units of any size. The Environmentally Protection 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:**

Project Fiscal Expenditures:	The actual/estimated depreciation plus return for the period April 1998 through September 1998 is \$0, compared to the original projection of \$0, representing a variance of 0%.
	The actual/estimated O & M for the period April 1998 through September 1998 is \$1,183,763 compared to the original projection of \$1,431,093, representing a variance of (17.28%).
	The SO2 emission allowance credit from the Florida Municipal Power Agency (FMPA) wholesale sale was \$15,759 for the period April 1998 through September 1998 compared to the original projection of \$20,000, representing a variance of (21.2%).
Project Summary:	SO <sub>2</sub> Emission Allowances are being used by Tampa Electric to meet compliance standards for Phase I of the CAAA.
Project Projections:	Estimated O & M costs for the period October 1998 through December 1998 are projected to be (\$531,857).
	Estimated O & M costs for the period January 1999 through December 1999 are projected to be \$1,760,766.

EXHIBIT NO. DOCKET NO. 980007-EI TAMPA ELECTRIC COMPANY (KOZ-1) FILED: OCTOBER 5, 1998 DOCUMENT NO. 5 PAGE 5 of 17

FORM 42-5P REVISED: NOVEMBER 12, 1998

Project Title: Big Bend Unit 1 Classifier Replacement

### Project Description:

The boiler modifications at Big Bend Unit 1 are part of Tampa Electric's Nitrous Oxide  $(NO_x)$  compliance strategy for Phase II of the Clean Air Act Amendments of 1990 (CAAA). The classifier replacements will optimize coal fineness by providing a more uniform particle size. This finer classification, combined with the equalized distribution of coal to outlet pipes and furnaces, will enable a uniform, staged combustion. As a result, firing systems will operate at lower NO<sub>x</sub> values.

# Project Accomplishments:

Project Fiscal Expenditures: N/A.

Progress Summary:	The Big Bend Unit 1 Classifier Replacement will be used by Tampa Electric to meet NO <sub>x</sub> compliance standards for Phase II of the CAAA. Big Bend Unit 1 Classifier Replacement is scheduled to go into service in December 1998.
Project Projections:	Estimated depreciation plus return for the period January 1999 through December 1999 is projected to be \$217,337.
	Estimated O & M costs for the period January 1999 through December 1999 are projected to be \$0.

Form 42-5P Page 6 of 17

> Tampa Electric Company Environmental Cost Recovery Clause (ECRC) January 1999 Through December 1999 Description and Progress Report for Environmental Compliance Activities and Projects

EXHIBIT NO. \_\_\_\_\_ DOCKET NO. 980007-EI TAMPA ELECTRIC COMPANY (KOZ-1) FILED: OCTOBER 5, 1998 DOCUMENT NO. 5 PAGE 6 of 17

FORM 42-5P REVISED: NOVEMBER 12, 1998

Project Title: Big Bend Unit 2 Classifier Replacement

Project Description:

The boiler modifications at Big Bend Unit 2 are part of Tampa Electric's Nitrous Oxide ( $NO_x$ ) compliance strategy for Phase II of the Clean Air Act Amendments of 1990 (CAAA). The classifier replacements will optimize coal fineness by providing a more uniform particle size. This finer classification, combined with the equalized distribution of coal to outlet pipes and furnaces, will enable a uniform, staged combustion. As a result, firing systems will operate at lower  $NO_x$  values.

# Project Accomplishments:

Project Fiscal Expenditures: N/A.

Progress Summary:

The Big Bend Unit 2 Classifier Replacement will be used by Tampa Electric to meet  $NO_x$  compliance standards for Phase II of the CAAA. The Big Bend Unit 2 Classifier Project is complete and in service as of May 1998.

Project Projections:

Estimated depreciation plus return for the period January 1999 through December 1999 is projected to be \$143,013.

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FORM 42-5P REVISED: NOVEMBER 12, 1998

Project Title: Gannon Unit 5 Classifier Replacement

# Project Description:

The boiler modifications at Gannon Unit 5 are part of Tampa Electric's Nitrous Oxide  $(NO_x)$  compliance strategy for Phase II of the Clean Air Act Amendments of 1990 (CAAA). The classifier replacements will optimize coal fineness by providing a more uniform particle size. This finer classification, combined with the equalized distribution of coal to outlet pipes and furnaces, will enable a uniform, staged combustion. As a result, firing systems will operate at lower NO<sub>x</sub> values.

# Project Accomplishments:

Project Fiscal Expenditures: N/A.

- Progress Summary: The Gannon Unit 5 Classifier Replacement will be used by Tampa Electric to meet NO<sub>x</sub> compliance standards for Phase II of the CAAA. The Gannon Unit 5 Classifier Project is complete and in service as of December 1997.
- Project Projections: Estimated depreciation plus return for the period January 1999 through December 1999 is projected to be \$200,626.

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FORM 42-5P REVISED: NOVEMBER 12, 1998

Project Title: Gannon Unit 6 Classifier Replacement

# Project Description:

The boiler modifications at Gannon Unit 6 are part of Tampa Electric's Nitrous Oxide  $(NO_x)$  compliance strategy for Phase II of the Clean Air Act Amendments of 1990 (CAAA). The classifier replacements will optimize coal fineness by providing a more uniform particle size. This finer classification, combined with the equalized distribution of coal to outlet pipes and furnaces, will enable a uniform, staged combustion. As a result, firing systems will operate at lower NO<sub>x</sub> values.

### Project Accomplishments:

Project Fiscal Expenditures: N/A.

Progress Summary: The Gannon Unit 6 Classifier Replacement will be used by Tampa Electric to meet NO<sub>x</sub> compliance standards for Phase II of the CAAA. The project is scheduled to go in service in June 1999.

Project Projections: Estimated depreciation plus return for the period January 1999 through December 1999 is projected to be \$153,551.

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> Tampa Electric Company Environmental Cost Recovery Clause (ECRC) January 1999 Through December 1999 Description and Progress Report for Environmental Compliance Activities and Projects

EXHIBIT NO. DOCKET NO. 980007-EI TAMPA ELECTRIC COMPANY (KOZ-1) FILED: OCTOBER 5, 1998 DOCUMENT NO. 5 PAGE 9 of 17

FORM 42-5P REVISED: NOVEMBER 12, 1998

Project Title: Gannon Coal Crushers

Project Description:

Two Gannon Coal Crushers will be used in conjunction with the boiler modifications at Gannon as part of Tampa Electric's Nitrous Oxide ( $NO_x$ ) compliance strategy for Phase II of the Clean Air Act Amendments of 1990 (CAAA). The coal crushers will assist in achieving compliance by providing a more uniform particle size. The finer coal particles, combined with the equalized distribution of coal to outlet pipes and furnaces, will enable a uniform, staged combustion. As a result, firing systems will operate at lower  $NO_x$  values.

#### **Project Accomplishments:**

Project Fiscal Expenditures: N/A.

Progress Summary:

The Gannon Coal Crushers will be used by Tampa Electric to meet  $NO_x$  compliance standards for Phase II of the CAAA. The Gannon Coal Crusher Project is scheduled to go into service July 1999.

**Project Projections:** 

Estimated depreciation plus return for the period January 1999 through December 1999 is projected to be \$425,835.

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**REVISED: NOVEMBER 12, 19** 

FORM 42-5P

Project Title: Gannon Unit 5 Stack Extension

# Project Description:

In accordance with the CAAA, Tampa Electric is pursuing a Title V Operation Permit for Gannon Station. During the permitting process it was determined by FDEP that our current station cap of 2.4 lbs. of SO<sub>2</sub>/MMBtu results in modeled exceedances of the National Ambient Air Quality Standards (NAAQS) for SO<sub>2</sub>. As such, Tampa Electric would be required to reduce SO<sub>2</sub> emissions at Gannon Station by approximately 50% in the new Title V permit.

Alternatively, Tampa Electric has completed revised dispersion modeling for Gannon Station under many different scenarios using more updated meteorological data, increased stack heights, and various SO<sub>2</sub> emission sets, (e.g., various sulfur content fuels consistent with the overall Acid Rain fuel strategy). It was determined that by increasing Gannon Unit 5 stack to 110 meters and limiting the Station to an SO<sub>2</sub> cap of 1.9 lb./MMBtu, the Station can demonstrate compliance with the air dispersion modeling.

# Project Accomplishments:

Project Fiscal Expenditures: N/A.

Progress Summary:	The Gannon Unit 5 Stack Extension will also be used by Tampa Electric to meet SO <sub>2</sub> compliance standards for Phase II of the CAAA. The Gannon Unit 5 Stack Extension Project is scheduled to go into service December 1999.
Project Projections:	Estimated depreciation plus return for the period January 1999 through December 1999 is projected to be \$3,424.
	Estimated O & M costs for the period January 1999 through December 1999 are

Estimated O & M costs for the period January 1999 through December 1999 are projected to be S0.

EXHIBIT NO. DOCKET NO. 980007-EI TAMPA ELECTRIC COMPANY (KOZ-1) FILED: OCTOBER 5, 1998 DOCUMENT NO. 5 PAGE 11 of 17

FORM 42-5P REVISED: NOVEMBER 12, 1998

Project Title: Gannon Unit 6 Stack Extension

# Project Description:

In accordance with the CAAA Tampa Electric is pursuing a Title V Operation Permit for Gannon Station. During the permitting process it was determined by FDEP that our current station cap of 2.4 lbs. of SO<sub>2</sub>/MMBtu results in modeled exceedances of the National Ambient Air Quality Standards (NAAQS) for SO<sub>2</sub>. As such, Tampa Electric would be required to reduce SO<sub>2</sub> emissions at Gannon Station by approximately 50% in the new Title V permit.

Alternatively, Tampa Electric has completed revised dispersion modeling for Gannon Station under many different scenarios using more updated meteorological data, increased stack heights, and various SO, emission sets, (e.g., various sulfur content fuels consistent with the overall Acid Rain fuel strategy). It was determined that by increasing Gannon Unit 6 stack to 110 meters and limiting the Station to an SO<sub>2</sub> cap of 1.9 lb./MMBtu, the Station can demonstrate compliance with the air discretion modeling.

#### Project Accomplishments:

Project Fiscal Expenditures: N/A.

Progress Summary:	The Gannon Unit 6 Stack Extension will be used by Tampa Electric to meet SO <sub>2</sub> compliance standards for Phase II of the CAAA. The Gannon Unit 6 Stack Extension Project is scheduled to go into service December 2000.
Project Projections:	Estimated depreciation plus return for the period January 1999 through December 1999 is projected to be \$15,710.
	Estimated O & M costs for the period January 1999 through December 1999 are projected to be \$0.

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FORM 42-5P REVISED: NOVEMBER 12, 1998

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:

Project Fiscal Expenditures:	The actual/estimated depreciation plus return for the period April 1998 through September 1998 was \$928 compared to an original projection of \$16,807, representing a variance of (94%).
Project Progress Summary:	The project is scheduled to go into service December 1998.
Project Projections:	Estimated depreciation plus return for the period October 1998 through December 1998 is projected to be \$11,150. Estimated O & M costs for the period October 1998 through December 1998 are projected to be \$0.
	Estimated depreciation plus return for the period January 1999 through December 1999 is projected to be \$63,027. Estimated O & M costs for the

period January 1999 through December 1999 are projected to be S0.

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EXHIBIT NO. \_\_\_\_\_ DOCKET NO. 980007-EI TAMPA ELECTRIC COMPANY (KOZ-1) FILED: OCTOBER 5, 1998 DOCUMENT NO. 5 PAGE 13 of 17

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

FORM 42-5P REVISED: NOVEMBER 12, 1998

# 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:

Project Fiscal Expenditures:The actual/estimated depreciation plus return for the period April 1998<br/>through September 1998 was \$616 compared to an original projection of<br/>\$35,341, representing a variance of (98%).Project Progress Summary:The project is complete and in service as of January 1998.Project Projections:Estimated depreciation plus return for the period October 1998 through<br/>December 1998 is projected to be \$14,682. Estimated O & M costs for<br/>the period October 1998 through<br/>December 1998 through December 1998 are projected to be \$0.

Estimated depreciation plus return for the period January 1999 through December 1999 is projected to be \$116,710. Estimated O & M costs for the period January 1999 through December 1999 are projected to be \$0.

EXHIBIT NO. \_\_\_\_\_ DOCKET NO. 980007-E1 TAMPA ELECTRIC COMPANY (KOZ-1) FILED: OCTOBER 5, 1998 DOCUMENT NO. 5 PAGE 14 of 17

**REVISED: NOVEMBER 12, 1998** 

FORM 42-5P

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:

Project Fiscal Expenditures:	The actual/estimated depreciation plus return for the period April 1998 through September 1998 was \$145 compared to an original projection of \$1,041, representing a variance of (86%).
Project Progress Summary:	The project is complete and in service as of January 1998.
Project Projections:	Estimated depreciation plus return for the period October 1998 through December 1998 is projected to be \$623. Estimated O & M costs for the period October 1998 through December 1998 are projected to be \$0.
	Estimated depreciation plus return for the period January 1999 through December 1999 is projected to be \$5,556. Estimated O & M costs for the period January 1999 through December 1999 are projected to be \$0.

Form 42-5P Page 15 of 17

Project Title: Phillips Oil Tank No. 4 Upgrade

EXHIBIT NO. DOCKET NO. 980007-EI TAMPA ELECTRIC COMPANY (KOZ-1) FILED: OCTOBER 5, 1998 DOCUMENT NO. 5 PAGE 15 of 17

FORM 42-5P REVISED: NOVEMBER 12, 1998

# 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:** 

Project Fiscal Expenditures:	The actual/estimated depreciation plus return for the period April 1998 through September 1998 was \$69 compared to an original projection of \$1383, representing a variance of (95%).
Project Progress Summary:	The project is complete and in service as of January 1998.
Project Projections:	Estimated depreciation plus return for the period October 1998 through December 1998 is projected to be \$1,022. Estimated O & M costs for the period October 1998 through December 1998 are projected to be \$0.
	Estimated depreciation plus return for the period January 1999 through December 1999 is projected to be \$13,290. Estimated O & M costs for the

period October 1998 through December 1998 are projected to be \$0.

Form 42-5P Page 16 of 17

> Tampa Electric Company Environmental Cost Recovery Clause (ECRC) January 1999 Through December 1999 Description and Progress Report for Environmental Compliance Activities and Projects

EXHIBIT NO. DOCKET NO. 980007-EI TAMPA ELECTRIC COMPANY (KOZ-1) FILED: OCTOBER 5, 1998 DOCUMENT NO. 5 PAGE 16 of 17

FORM 42-5P REVISED: NOVEMBER 12, 1998

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 April 1993 through September 1998 was S29,276 compared to an original projection of \$19,789, representing a variance of 48%.
Project Progress Summary:	The project is complete and in service as of December 1997.
Project Projections:	Estimated depreciation plus return for the period October 1998 through December 1998 is projected to be \$14,635. Estimated O & M costs for the period October 1998 through December 1998 are projected to be \$0.
	Estimated depreciation plus return for the period January 1999 through December 1999 is projected to be \$56,869. Estimated O & M costs for the period January 1999 through December 1999 are projected to be \$0.

EXHIBIT NO. \_\_\_\_\_ DOCKET NO. 980007-EI TAMPA ELECTRIC COMPANY (KOZ-1) FILED: OCTOBER 5, 1998 DOCUMENT NO 5 PAGE 17 of 17

FORM 42-5P REVISED: NOVEMBER 12, 1998

Project Title: National Pollutant Discharge Elimination System (NPDES) Annual Surveillance Fees

# **Project Description:**

Chapter 62-4.052, Florida Administrative Code (F. A. C.), implements the annual regulatory program and surveillance fees (annual fees) for wastewater permits. These fees are in addition to the application fees described in Rule 62-4.050, F. A. C. Tampa Electric's Big Bend, Gannon, Hookers Point and Sebring Stations are affected by this rule.

# Project Accomplishments:

Project Fiscal Expenditures: N/A.

Project Summary:

NPDES Surveillance fees are paid annually for the prior year.

Project Projections:

Estimated depreciation plus return for the period January 1999 through December 1999 is projected to be \$0. Estimated O & M costs for the period January 1999 through December 1999 are projected to be \$55,200.

Calculation of the Energy & Demand Allocation % By Rate Class Environmental Cost Recovery Clause (Ed. NC) January 1999 to December 1999 Lampa P.lectale Company

0.66% 9.21% 0.81% 24.67% 0.28% XC 32 100.00% 12 CP & U13 Allocation Factor Z EL.S 9.00% 0.00% 0.22% 24.47% 59.53% 100.00% Percentage of 12 CP Demand at Generation Z 44.34% 5.99% 27.06% 11.02% 10.54% 1.05% 100.00% Percentage of at Generation k Wh Sales Ê 0 6,108 665,753 182,993 2,721,124 Avg 12 CP at 1,619,793 246,477 Generation Projected (W) 7.485.648.965 4.566.839.398 1,859,703,592 079,930,946 176,906,111 16,879,682,443 1,010,653,431 Sales at Generation Project ied (kWh) 1.045213 1.021211 1.062295 1.062297 061240 1.062297 Expansion Lactgy Factor Loss 3 1.045147 1.061896 001090.1 1.020766 1.058824 1.061623 Demand Expansion Factor LOSS £ 5,769 0 172.327 2.567.562 1.525.763 627.873 235,830 Avg 12 CP Projected al Meter (WW) 5 1.742.961.000 15,990,104,000 1.779.258,000 166.532,000 7,046,663,000 951,285,000 4,303,305,000 at Meter (kWh) Phylected Sales 3 52.72205% X#73957% 86.12625% 101.56414% 329.52368% Average 12 CP 63.02283% Load Factor at Meter 2 Ξ IS1, IST1, SB(1, SB(T), IS3, IST3, SB(3,SB(T) GSLD, GSLDT, SBF, SBFT GS. GST. TS GSD, GSDT Rate Class RS, RST TOTAL SLAOL.

 Projected hWh sales for the period January 1999 to December 1999
 Calculated: (Column 2) / (8.760 hours X Column 1) (1) Average 12 CP load factor based on actual 1997 load research data

(4) Based on actual 1997 load research data
 (5) Based on actual 1997 load research data
 (6) Column 2 X Column 5

(7) Column 3 X Column 4
(8) Column 6/ Total Column 6
(9) Column 7 / Total Column 7
(10) Column 8 X 1/13 + Column 9 X 12/13

EXHIBIT NO. \_\_\_\_\_ DOCKET NO. 980007-EI TAMPA ELECTRIC COMPANY (KOZ-1) FILED: OCTOBER 5, 1998 DOCUMENT NO. 6 PAGE 1 of 1

FORM 42-6P **REVISED: NOVEMBER 12, 1998** 

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Notes:

Form 42-7P

#### Tampa Electric Company Environmental Cost Recovery Clause (ECRC) Calculation of the Energy & Demand Allocation % By Rate Class January 1999 to D}cember 1999

	(1)	(2)	(3)	(4)	(5)	(0)	C* .
Rate Class	Percentage of kWh Sales at Generation (%)	12 CP & 1/13 Allocation Factor (%)	Energy- Related Costs (\$)	Demand- Related Costs (\$)	Total Environmental Costs (\$)	Projected Sales at Meter (kWh)	Environmental Cost Recovery Factors (¢/kWh)
RS, RST	44.34%	58.37%	1,979,914	110,223	2,090,137	7,046,663,000	. 0.030
GS, GST, TS	5.99%	6.66%	267,471	12,576	280,047	951,385,000	0.029
GSD, GSDT ,	27.06%	24.67%	1,208,310	46,586	1,254,896	4,303,305,000	0.029
GSLD, GSLDT, SBF, SBFT	11.02%	9.21%	492,076	17,392	509,468	1,779,258,000	0.029
ISI, ISTI, SBI1, IS3, IST3, SBI3	10.54%	0.81%	470,643	1,530	472,173	1,742,961,000	0.027
SLIOL	1.05%	0.28%	46,886	529	47,415	166,532,000	0.028
TOTAL	100.00%	100.00%	4,465,300	188,835	4,654,135	15,990,104,000	<u>-</u>

Notes:

(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

(6) Projected KWH sales for the period January 1999 to December 1999

(7) Column 5 / Column 6 x 100

EXHIBIT NO. DOCKET NO. 980007-EI TAMPA ELECTRIC COMPANY (KOZ-1) FILED: OCTOBER 5, 1998 DOCUMENT NO. 7 PAGE 1 of 1

FORM 42-7P REVISED: NOVEMBER 12, 1998 1. 1. mm 1

Fampa Flectet Company Environmental Cost Recovery Chara (FCRC) Calculation of the Current (Actual/Estimated) Period True-Up Acets 1998 (A Decomber 1998

Oct-98 - Dec-98 15,418 0 \$954,258 \$938,840 Period Amount Apr-98 - Sep-98 14,842 0 \$386,745 \$371,903 Amount Period 4. Current Period True-Up Amount to be refunded(recovered) in the projection period January 1999 to December 1999 April 1998 to December 1998 (in Dollars) 1. Over/(Under) Recovery for the current period 2. Interest Provision (Form 42-2E, Linc 6) 3. Sum of Current Period Adjustments (Form 42-2E, Line 10) (Form 42-2E, Line 5) (Lines 1 + 2 + 3)

Linc

EXHIBIT NO. \_\_\_\_\_ DOCKET NO. 980007-EI TAMPA ELECTRIC COMPANY (KOZ-1) FILED: OCTOBER 5, 1998 DOCUMENT NO. 8 PAGE 1 of 1

FORM 42-1E REVISED: NOVEMBER 12, 1998

t isk ulatoos of the Actual/Patassied Period Tree 11p Amount I as accessive solid and Receivery \* Lores (1 \* P\* ) I number b loo to be a sumpoor

April 1998 to Decreaher 1998

Current Period True-Up Amount

(let-98 - Dec-98 (72,793) 135,850 483,254 15,418 105375(1) 078,432,1 0/8/955/12 \$1.213,455 1.34%,005 410,465 918,840 738,462 I and of Period 45,284 (180.819) (17,157) (1427/574) c 6,173 043,540 450,964 1.145,017 0 OCILARCO I 51.556,870 122,8802 111,000 E.stimated Dec-98 (152733) 45,233 c 161.573 162,919 1.145,017 \$1,145,017 5,0877 110,0888 427,4% 123,592 101,902 110,130,1 Estimated Nov-91 672,121 (45,283) c \$42,725 104,012 4,158 0 110,180,1 110,180,12 381,974 738,462 400,006 Estimated Oct-98 Apr-98 - Nep-98 1.649,023 902,942 2,551,965 351,717 (137,563) • 137,543 171,903 14,842 105,761 5733.462 733,462 \$2,786,305 2.923 MAK Period (22,928) ¢ 197,015 351,717 738,462 22.928 P49,819 1,017 PTLAUS \$738,462 \$497,148 170.257 529.026 Sep-98 (729,25) \$4%,174 298,158 0 185,144 \$19,101 447,532 695'12 2.593 351,717 558,096 \$588,096 Actual Aug-98 (729,22) 129.22 ٥ 111.121 154,189 42,647 2,419 142,985 02.2441 536,861 5536,361 0111202 S4A, NIM 1241.02 Actual Jul-98 (in Dollars) (729,237) ė 902,152 148,730 17,189 2,316 136,207 351,717 22.927 514,702 \$514,702 517,658 5494,731 470.24/ Actual June '98 (729,22) ۰ 22.927 151,125 23,034 078,821 5487,924 2.222 351.717 437,924 5794,676 417,623 238,462 189,587 Actual May-98 (22.927) 729,177 351,717 ٥ 152,428 940'161 12,005 137,563 480.593 2480.593 401,104 238,671 2235 Acteal Apr 98

EXHIBIT NO. \_\_\_\_\_ DOCKET NO. 980007-E1 TAMPA ELECTRIC COMPANY (KOZ-1) FILED: OCTOBER 5, 1998 DOCUMENT NO. 9 PAGE 1 of 1

**FORM 42-2E REVISED: NOVEMBER 12, 1998** 

1. ECRC Revenues (net of Revenue Taxes)

-

2. True-Up Provesson

E. R. Revenuers Applicable to Period (Lines 1 + 2).

4. Jurisdictional ECRC Costs

a. O & M. Activities (Form 42-SE, Line 9)

h. Capital Investment Projects (Feeto 42-7F., Line 9) Total Jurisdictional ECRC Costs

5. Over/Chader Recovery (Line 3 - Line 4c)

Interest Provision (Form 42-3E, Line 10)

a. Deferred True-Up from Octoher 1997 to March 1998 Beginning Balance True-Up & Interest Provision (Order No. PSC-98-0408-FOF-EI) and

True-Up Collected/Refunded) (see Line 2)

9. End of Period Total True-Up (Lines 5 + 6 + 7 + 7a + 8)

39

10. Adjustment to Period True-Up Including Interest

0

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

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(c: Dollars)

Oct-98 - Dec-91 Ead of Persod Amount \$15,418 11.00% 56,173 5.50% S.Son. 5 500% 0.458% \$1.145,017 1.550,697 2,695,714 1,347,857 Estimated Dev-98 S SUN 5 50% 11.00% 5.500% 0.458% \$5,087 111,180,12 2,221,341 1,119,940 1,110,621 Estimated Nor-91 5 50% 5.500% 0.458% 54,158 \$738,462 \$ 50% 11.00% 121,151 1,3115,615 808,104 Estimated Ch-1-9% Apr-98 - Sep-98 End of Period Amount \$14,842 222 11.02% 5,510% 0.459% \$1,017 715,425 125121.1 552 661,761 5333,0766 **Stymated** Np 4N 5.54/54 5.57 192.521 1,122,464 561,182 11.08% S 540% 0.462% 108.00.02 105,232 Actual Ang. 93 Sun 5.60% 11.16% S.SSON. 0.465% \$2,439 \$514,702 514,427 049.124 524.562 Actual Jul-98 11.10% S 150% 10015 0.463% \$2,316 512, 184 SUBS 5487,924 000.110 500,155 Actual June 78 11.03% 5,515% 0.460% \$155 5.50% \$2.222 485,702 1480.593 242,648 483,148 Actual May-98 11.08% 0.462% \$.35% 5.51% \$2.235 S.540% 741.7, A.1X 479,154 **918,EX4** 5489,230 Actual Apv-98

EXHIBIT NO. DOCKET NO. 980007-EI TAMPA ELECTRIC COMPANY (KOZ-1) FILED: OCTOBER 5, 1998 DOCUMENT NO. 10 PAGE 1 of 1

FORM 42-3E REVISED: NOVEMBER 12, 1998

Regimming Ralance True Usy Annuali (Form 42:2E, Line 7 + 2a + 10).

2. Faulang True-Up Amount Helione Interval

. Total of Beginning & Ending True-Up (Lance L & 2)

Average True-Up Amonoi (Line 3 x 1/2)

5. Interest Rate (First Day of Reporting Basiness Month)

6. Insered Rate (First Day of Subsequent Dusiness Month)

7. Testai of Ikegiuning & Euding Interest Rates (Lines 5 & 0)

R. Average Interest Rate (Line 7 a 1/2)

9. Monthly Average Interest Rate (Line & a 1/12)

10. Interest Provision for the Month (Line 4 x Line 9)

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Calculation of the Current Period Actual/Estimated Amount

April 1998 to December 1998

#### Variance Report of O & M Activities

(In Dollars)

		(1)	(2)	(3)	(4)
Line		Actual	Original _	Amount	Percent
No.	1	CStimated	Projection	Allouin	rescent
	1 Description of Investment Projects				
	ta Big Bend Unit 3 Flue Gas Desulfurization Integration	\$991,625	\$971,599	\$20,026	2.1%
	1b Big Bend Units 1 and 2 Flue Gas Conditioning	24,219	24,750	(\$531)	-2.1%
	Le Big Bend Unit 4 Continuous Emissions Monitors	0	0	0	0.0%
	Id Gannon Ignition Oil Tank	0	0	0	0.0%
	Le Big Bend Fuel Oil Tank #1 Unerade	0	0	0	0.0%
	16 Big Bend Fuel Oil Tank #2 Ungrade	0	0	0	0.0%
	Le Philling Llograde Tank #1 for FDFP	0	0	0	0.0%
	the Philling Upgrade Tank #4 for FDFP	0	0	0	0.0%
	1: SO2 Emissions Allowances	683,306	2,001,134	(\$1,317,828)	-65.9%
	1j SO2 Credit - FMPA	(15,759)	(20,000)	(4,241)	21.2%
	2. Total Investment Projects - Recoverable Costs	\$1,683,391	\$2,977,483	(\$1,302,574)	-43.7%
	3. Recoverable Costs Allocated to Energy	\$1,683,391	\$2,977,483	(\$1,302,574)	-43.7%
	4. Recoverable Costs Allocated to Demand	\$0	\$0	\$0	0.0%

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#### Notes:

2

Column (1) is the End of Period Totals on Form 42-5E (sum Apr-98-Sep-98 and Oct-98-Dec-98) Column (2) is the approved Projected amount in accordance with FPSC Order No. PSC-98-0408-FOF-EI and Order No. PSC-98-1224-FOF-EI (sum Apr-98-Sep-98 and Oct-98-Dec-98)

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

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

FORM 42-4E REVISED: NOVEMBER 12, 1998

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EXHIBIT NO. \_\_\_\_\_ DOCKET NO. 980007-EI TAMPA ELECTRIC COMPANY (KOZ-1) FILED: OCTOBER 5, 1998 DOCUMENT NO. 12 PAGE 1 of 1

**FORM 42-5E REVISED: NOVEMBER 12, 1998** 

Descriptions of O&M Activation -1

La Ping Bend Used 3 Fine Gan Dreadfurications Integrat Bing Rened User 1 and 2 Fine Gan Conditionnerg E Ping Rened Users 1 and 2 Fine Gan Conditionnerg Gameon Sprinten OJ Tank Le Big Bened Ford OM Tank #1 Upgrade If Big Rened Ford OM Tank #2 Upgrade If Big Rened Ford OM Tank #2 Upgrade If Big Rened Ford OM Tank #1 Upgrade If Big Rened Ford M Tank #1 Upgrade If Big Rened Ford I Ford #1 Integrade If Big Rened Ford I Ford #1 Integrade I Ford #1 Upgrade I Ford #1 Integrade I Ford #1 Int Tead of O&M Activities

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Resonerable Custs Allocated to Deman Reconstable Conts Allocated to Eacity --

Retail Demand Jurisdictional Factor Recall Energy Jurisdictional Factor 4 ÷

Jurisdictional Finergy Recoverable Costs (A) 7a: Add back FMPA/LAK Excess Emissions Allocation A lareadictional libration Recoverable ("out (13) \*

tional Recoverable Costs for O&M inics (Lines 7 + 83 Total Menter Ì 2

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

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Form 42 6F

#### Tampa Electric Company

# Envnonmental Cost Recovery Clause (ECRC)

# Calculation of the Current Period Actual/Estimated Amount

April 1998 to December 1998

# Variance Report of Capital Investment Projects - Recoverable Costs

(In Dollars)

			(1)	(2)	(3)	(4)
inc			Actual/	Projection	Amount	Percent
No.		1	Estimated	riojection	/110.0011	- cream
	1. Description of Investment Projects			10000		
	ta Rie Bend Unit 3 Flue Gas Desulfurization Integration		\$830,541	\$830,541	\$0	0.0%
	the Dia Board Units 1 and 2 Flue Gas Conditioning		\$501,372	501,372	\$0	0.0%
	To Dig Dead Unit 4 Continuous Emissions Monitors		\$64,092	64,092	\$0	0.0%
	Ic Big Bend Chin 4 Commons Emissions monitors		\$43,911	35,308	\$8,603	24.4%
	Id Gannon Ignition Oil Tank		\$12.078	26,601	(\$14,523)	-54.6%
	le Big Bend Fuel Oil Tank #1 Opgrade		\$15,298	50,559	(\$35,261)	-69.7%
	If Big Bend Fuel Oil Tank #2 Upgrade		\$768	2 538	(\$1,770)	-69.7%
	Ig Phillips Upgrade Tank #1 for FDEP		\$1.001	2 007	(\$1,906)	-63.6%
	1h Phillips Upgrade Tank #4 for FDEP		31,071	6.771	(411/500)	
	2. Total Investment Projects - Recoverable Costs		1,469,151	1,514,008	(44,857)	-3.0%
	3. Recoverable Costs Allocated to Energy		1,396,005	1,396,005	0	0.0%
5	4. Recoverable Costs Allocated to Demand		\$73,146	\$118,003	(\$44,857)	-38.0%

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Notes:

Column (1) is the End of Period Totals on Form 42-7E

Column (2) is the approved Projected amount in accordance with FPSC Order No. PSC-98-0408-FOF-EI

and Order No. PSC-98-1224-FOF-EI

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

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

EXHIBIT NO. DOCKET NO. 980007-EI TAMPA ELECTRIC COMPANY (KOZ-1) FILED: OCTOBER 5, 1998 DOCUMENT NO. 13 PAGE 1 of 1

FORM 42-6E REVISED: NOVENIBER 12, 1998

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				5	0		Ead of		Provend I	Present of	Find of	Method of Cla	nuclecation.
	Actual Apr 98	New York	Actual In the	Actual Jul VII	Actual Aug-98	Sep-41	Total	Oct of a	Nor-98	Dec. 96	Total	Demand	Lacry
for the second state and a state of the second			-						114 114	100.000	111 111 1110		C174 148
1. But Road Linis 1 films Cas, Develfarination Interstance	\$93,028	\$92,842	のうちの	342,469	247,242	242,096	120355	606'165	171'142	arc'ist	BUL/LINE		
the start frame based to a street case in the street of th	54.236	30,104	55,472	55,840	55,708	55,576	\$135,436	55,444	210,82	53,000	3163,936		OCA'CHI
Commentation a state of a state o	2 194	2136	7.158	7.140	1.121	2,103	542,892	7,085	7,00,7	7,048	00/10		21,200
ic Big Rend Unit 4 Continuous constants provident	and a	104	5,340	\$101	4,935	4.915	872,828	11474	4,878	4,060	514,915	\$14,405	
1d Connors ignitions Oil Fank	; =	2	5		1	580	1705	1,26/9	4,012	5,209	\$11,150	051,11	
te Ihg Hend Fuel Oil Tank #1 Upprade	: :	. ,	1	F	511	194	\$616	64(2')	4,744	8,1%	\$14,082	14,402	
11 ling licked Fuel Oil Tank #2 Upprade	3 .	•	: :	2	9	3	5143	1	10	159	1242	170	
ig Phullips Upprade Tank #1 for FDEF	• •		: *	•		8	s	19	219	202	1,022	1,922	
1h Phillips Upgrade Tank #4 for FUELP Total Investment Projects - Recoverable Costs	100,001	160,840	161,168	110,743	160,379	160,704	964,735	141,092	168,131	173,193	304,416	211(24	5462,704
	104.400	111 111	144 784	155,449	111751	154,775	10C'TTS	154,633	154,102	153,784	462,504		
<ol> <li>Recoverable Costs Allocated to Energy</li> <li>Recoverable Costs Allocated to Domand</li> </ol>	(HA)	4,718	CIUC'S	3,294	BALLS.	629,8	10,16	8,654	14,029	629'61	42,112		
<ol> <li>Retail Energy Jariafictional Factor</li> <li>Retail Departed buildictional Factor</li> </ol>	\$0647906-0 3105396-0	0.9405529	468E3426-0	06904829-0 06904829-0	0.9516706	0.9121030		0.9440670	000555060	24C2056-0			
<ol> <li>Introductional Energy Recoverable Costs (B)</li> <li>E. Jurisdictional Densing Recoverable Costs (C)</li> </ol>	109,884	146,341 4254	141,753 4,977	144,961 (02),	14(5)2 4,862	146,589	19479E	140,14	000,21	146,112	445,092		
<ol> <li>Tetal Jurisductional Recoverable Costs for lowerstaneos Projects (Linex 7 + 8)</li> </ol>	107/0315	81,125	1148,730	867,9412	101,134	\$152,015	\$902,942	\$157,579	\$162,019	\$10,1460	84,084		

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**FORM 42-7E REVISED: NOVEMBER 12, 1998** 

Form 42-8E, Line 9 8 녂 G (A) Each project (B) Line 3 x Li (C) Line 4 x Li

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Locuson Lives Lives in a company Locusonscend is not Recovery ("Lance (11 Ric) ("Acudation of the Actualifications and Announce for the Period April 1973 to December 1993.

Returns on Capital Investments, Depreciation and Tates to Propert Big Besel than U-blan tan Devallancean Inter-

				et m)	(same							
		Jo Senseday	Actual	Your	Actual	Acres 1	Actual	Emmand Con 08	Estimated Oct-00	Essenated Nov. 98	Estimated Dec. 98	Foried Amount
I	Description	Period Amount	Apr - UK	May-98	par of	80.04	I ANY					
	1 Investments		5	3	3	3	3	Ŗ	3	3	2	
	<ul> <li>U.spendinares/Addinens</li> </ul>		1	1			0	0	0	a	0	
	b Character to Plant		0			0	0	0	0	8	a	
	<ul> <li>Retractions</li> <li>d Other</li> </ul>		•	0	0	0	0	•	9	0	•	
		0. 1 40 1 (G	a 1 10 4.54	# 7 to A C	8,2 M A 18	B24942.B	B_279.A59	8,239,658	864,942,8	825942.8	8.239,658	
	2 Plant as ServiceThepertratives flow 1 free Accessibility Detectations	(c)4(012)	(195709)	([.44.].44)	(11/4 (1398))	(hto'und)	(720,145)	(125-662)	(194,967)	(V28(TT))	(190)(102)	
	A DEST DEST DEST DEST DEST DEST DEST DEST	•	•	•	0		•					
	<ol> <li>CWIF - Near-IMMERI DOMPS</li> <li>Mar Investment (Lines 2 + 3 + 4)</li> </ol>	\$7,615,043	7,940,417	1.577,191	7,557,965	7,518,799	1,549.513	1,900,087	7,431,061	7,464,815	7,442,009	
	5. Average Net Investment		1,000,050	7_586,804	825,502,5	220,316,17	7,529,126	1,509,900	7,490,674	31471.0	1,452,223	
	7 Renura on Average Net Investment			1.1		** 104	14133	55.222	55,080	54,939	LIN'NS	5492.366
	a Equity Companent Grossed Up For Taves (A) Is Delts Companent (Line 6.4.2.8.7% s. U12)		17,024	na vic	132.(1)	66.21	10/6/11	X3+4/L1	17,401	117,558	11,513	150,941
	R. Investment Expenses					A11 04	47.01	19.236	19.226	422,91	62.61	173,034
	a Deperciation		10.10	arra.	arris a	0	0	•	0	•	•	0
	b Americation							•	•	•	0	0
	e. Diseandenent								•	•	0	0
4	d Property Taxes					•	0		0	0	0	0
5				LTR LP	21 A 14	PARK CO	00,202	92,096	605'15	91,723	91,536	830,541
	9 Total System Recoverable Expenses (Lines 7 +6)		11/1/1A	112.10	10110	07.440	92.282	42,0%	606'16	94,725	41.534	115,003
	<ul> <li>Recoverable Costs Allocated to Energy by Recoverable Costs Allocated to Demond</li> </ul>		0	•	•	•	•	0	0	•	0	0
	10 Energy Investicional Factor 11 Demond Artisfictional Factor		8105395 0 ·	0.94025299 0.90764010	0.92236229	0490(925-0 50005925-0	0.9316706	0.9471090	0.9690679	0 9052525	5100505 D	
					11 100	1010	0(513	212.53	29,006	87.8.28	130,441	785,060
	12 Brial Energy-Related Recoverable Costs (B)		102,000				•	0	0	0	0	0
	<ol> <li>Recail Demand-Related Recoverable Costs (C) 14 Vision Laborational Becomerable Costs (Lines 12 + 1)</li> </ol>		112,842	strus.	\$55,499	112,282	\$15,976	222,788	\$29,066	538.876	100'001	5785,060
	and the second s				Contra the second							

EXHIBIT NO. DOCKET NO. 980007-EI TAMPA ELECTRIC COMPANY (KOZ-1) FILED: OCTOBER 5, 1998 DOCUMENT NO. 15 PAGE 1 of 8

FORM 42-8E REVISED: NOVEMBER 12, 1998

Notes: (A) Lines 0 x #22855 x 1/12 Based on #OE of 11 25% and weighted income tax rate of 35 57% (expansion factor of 1 6,3002) (B) Line 0 x Line 10 (C) Line 0 x Line 11

Langu Elinteix Campten) Easseemend C tol Recovery Clanc (H. R. ) Calculation of the Actual/Estimated Annous for the Period Aged 1998 to December 1998

Return on Capital Investments, Depreciation and Taxes

	For Propert Big	g Rend Unit 4.1 continued (in Didlory)	un L'annauras bhon									
		Degunned of	Actual V	Acres 1	1	And Mark	Actual Aug. 92	Sep-98	Farmand Oct-98	Extended Nov-VE	Estimated Dec-49	French Associate
1	[And parts	PUTA Amount	n alv									
1	Inversionments.		1	1	1	5	3	3	8	2	2	
	a Lapendourty/Addisons		2	a •	1		•		0	0	•	
	b Cherneys to Plant					•	6		0	0	•	
	c Reterements		. 0				e	0	•	•	0	
	d Olive									114, 114	114.748	
ĺ	1 Beam in Constar Democration Base	112,440	866,211	Bits.211	112,008	112,004	864.211	112,000	Cont Part	Part appen	117 101	
	Less Accumulated Depreciation	(183"1987)	(82,765)	(34,642)	(912, 66)	(964, 358)	(612'0a)	INCI'ZA)	(1710'Pac)	(2)6.40K3	(Z)6.4082	
	Coher (A)	(236,408)	(2)M,40K)	(214,408)	(236,405)	(230,405) Set 403	6005'045	11,053	515,778	511,899	532,022	
	5 Nets Inversionent (Lunes 2 = 5 + 4)	1948,915	241/130	20,101	and the second							
Ĩ	<ul> <li>Average Net Investment</li> </ul>		110,122	546,100	555,223	957.255	540,48/9	290,802	516,005	534,836	149,202	
	P. Returns on Average "lief Investment			1.000	1001	1 988	1,674	3,940	3,947	1,911	3,929	115,748
	<ul> <li>Family Computed Ground Up For Tants (B)</li> </ul>		4,012	4107				1.111	1 341	1 253	1202	11.431
	<ul> <li>Defas Component (Linue 6 x 2 82% x 1/12)</li> </ul>		97 <u>1</u>	8001	1,279	(IT)	AL 21	1	3			
	E Investment Expenses					11811	1121	1181	1111	1,007	1,877	16,093
	a Depreciation		1.8.1					0	•	•	•	0
	b. Amisch-cation		0				•	0	0	•	•	•
	c Dismantferment ,					•	0	0	0	•	•	a
	d Property Taxca					•	0	0	-	0	0	0
	e Other							1417	7 085	7,06.7	7,048	200.64
4	<ol> <li>Total System Recoverable Expenses (Lines 7 +8)</li> </ol>		101'2	2,176	10172	THEY'L	1414	7 101	7,0855	1,000,1	7,048	200,64
7	a Recoverable Costs Allocated to Energy b Recoverable Costs Allocated to Formed		441'Z	0	0	0		e	0	0	•	•
			a serio a	0 9233050	0.4227622	0.9227095	0.9316706	0.94710/0	0.96/90/90	0.9449580	54(7055.0	
1	<ol> <li>Energy Juristiccional Factor</li> <li>Demaed Juristiccional Factor</li> </ol>		0.900,9901	644905.0	042428-00	0.45955.0	1896229-0	1201210	0.9147815	0.942522	0.002001	
	Concernance of the		NCIA	64(19	\$0979	1044	6,634	121,0	0,866	0,845	199.4	135'04
	12 Retail Linergy Astalets Recoverance Control 1		0	0	0	0	0	0		0 000	10 YO YO Y	100 001
	<ol> <li>Retail Demand-Actaics Recoverance Costs (Lines 12 + 1).</li> </ol>	31	54,824	56,749	\$0,605	160,68	50,034	56,727	50,866	30,548	INGOR	190'rood
	The state and the state of the											

EXHIBIT NO. DOCKET NO. 980007-E1 TAMPA ELECTRIC COMPANY (KOZ-1) FILED: OCTOBER 5, 1998 DOCUMENT NO. 15 PAGE 3 of 8

FORM 42-8E REVISED: NOVEMBER 12, 1

Notes (A) Repress 41 the Nei, Rook Values of the replaced Big Bend Unit 4 (TSMs which is conversed through bane rates (B) Liner 9. & R.21974 a 1/12. Baned on ROE of 11 73%, and weighted incente tax rate of 3t 373%, (expansion factors of 1 6:26002) (C) Liner 9. a Liner 10 (D) Liner 9. a Liner 11

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Page Volt

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Temps Lhetric Constants Ex-reconnected Cost Ro.very Cost (ECIG) Colorizion of the Astrabilizations of Amounts for the Period April 1993 in December 1993

Return on Capital Investments, Depreciation and Teacs

		For Proj	oct Big Bend Fue (in Doll	f Chi Tanà 42 Ung ami	at.						
Law [Ducagene	Reparang of Period Annual	Actual Apr 48	- Acted May-08	Actual Jun-98	Actual Jul 98	11	Sep-01	Essenated Oct-98	Estimated New-08	Estimated Dec.98	End of Period Assume
1 Investments		0110	241	82.13	829.11	54,189	\$43,022	\$244,649	114,4112	\$141,799	
a Expendement/Address		0	•	0	0	0	0	0	0	¢	
b ( Acarongs to Fland		0		•	0	0	0	•	0	¢	
d Other		0	•0	0	0	0	9	0	0	a	
<ul> <li>Manual Constraints Reserved</li> </ul>	05	0	0	6	0	0	0	0	0	818,000	
<ol> <li>Figure on-AdvanceLagreecomment source</li> <li>Loss: Accommission Desucciations</li> </ol>		•	0	۰	0	0	0	0	0	(Incal	
a status attantemente representation	414	1,444	3,508	5,304	9,724	11,915	518 3	M01,544	15, 94.9	0	
<ol> <li>New Investment (Lance 2 + 1 + 4)</li> </ol>	1416	1.4th	1, 144	1,004	12.1	11411	110,011	191,184	676,701	817,046	
6. Average Net Investment		1311	2.727	4,6%	7,766	613(11	157'55	95.171	101,834	746,624	
7 Remain in Average Net Investment			,	,	5	(1	240	816.1	SHUT	5,440	678,012
<ul> <li>Expands Component Governant (Up For Tares (A)</li> <li>Delta Component (Lance 6 a. 2.82% x 1/12)</li> </ul>		-	•	=	1	л	8	17	1,149	1,735	474.(
R. Inservation Paperson 1		9				¢		2	0	P.s	3
a Ukpeccation		9 4	6 0						0	•	0
b Americation						•	0	0	0		0
c Destructioners				•	0	0	•	0	•	*	•
source fundament in the	,	9	9	0	0	0	0	0	0	0	•
A T Barrande Estimate I inter 7 (I)		1	2	57	2	115	343	1,739	4,744	B-1798	100 H
7 1058 System According and a concert of finance of the second		0	•	•	•	0	0	•	•	•	•
<ul> <li>Inconversion Costs Associates to Science of Sciences</li> <li>Reconversible Costs Allocated to Demand</li> </ul>		12	A	\$	2	115	141	1,739	104	86178	19751
to Frankrike Street		0.9485018	0.9405529	0 9223622	2000328-0	0.4316706	0.9474090	0.500/05.0	08568%6-0	0.9502345	
10. Longing surveyor second Factor 11. Donused further		0.906.3923	east stron o	0.02473/16	01/01/92/6-0	0.9229481	6541514-0	0.9147815	0 9852523	0.9012611	
in a set to set the set of the class (10)		•	0	•	•	0	e	0	•	•	0
12. Renaet Locally sconers scoregours to one (re-			2	4	s	104	314	105'1	1242	2,405	13,857
T. and Jurisdictional Reconceptie Contr (Lines 12 + 13)		111	10	142	teres.	2106	2114	165'15	5ALH	10,405	113,457
		14									

EXHIBIT NO. \_\_\_\_\_ DOCKET NO. 980007-EI TAMPA ELECTRIC COMPANY (KOZ-1) FILED: OCTOBER 5, 1098 DOCUMENT NO. 15 PAGE 6 of 8

FORM 42-8E REVISED: NOVEMBER 12, 1998

Nates: (A) Lines 6.5 £238% s 1/12. Based on ROE of 11 75% and weighted income tax rate of 3£ 575% (expansion factor of 1 &25002) (4) Line <sup>4</sup>0 x Line <sup>10</sup> (4) Line <sup>40</sup> x Line <sup>10</sup>

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Tanget Electric Comparts Environmental Cost Recovery Close (ECTC) Calculation of the Actual/Entimated Amount for the Period April 1994 to December 1995

Resum on Capital Investments, Depressions and Taxes For Propest Philips Upgrade Lank #1 for FDEP

$ \frac{1}{1000} \frac{1}{1000} \frac{1}{1000} \frac{1}{10000} \frac{1}{10000000000000000000000000000000000$				nor room	11							
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		Department of	Actual	Ached	Actual	Actual	Actual	Estimated	Estimated	Estimated	Estimated	Endof
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Line [http://www.	Person Annual	Apr-98	May 48	Aut-44	PM-68	Aug-14	No. 4	04148	SA-ADA	az. 10/1	NAMES OF TAXABLE A
• Expension         • Component Anticulation         • Componentitee         • Component <th< td=""><td>1 Investments</td><td></td><td>6(30</td><td>3</td><td>61015</td><td>612-3</td><td>51.06</td><td>1,000</td><td>11,000</td><td>515,000</td><td>510,836</td><td></td></th<>	1 Investments		6(30	3	61015	612-3	51.06	1,000	11,000	515,000	510,836	
C Common Comm	a Expenditures/Additions		0	10	0	0	0	0	0	•	0	
c         Contract         c	b. Clearings to Plant			18	•	0	0	0	G	•	0	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	c Returements d Other		a	° 0	0	0	0	0	0	•	0	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		3		e	¢	0	0	0	0	0	34,500	
1 tark Answind Depresent         0         300         300         1 and the contract of the contr	2. Plant-to-Service/Depreciation Bate	<b>a</b> <				0	0	0	0	9	(m)	
4 (Net)       Constraint (Last 2) + (1) $\frac{1}{200}$ $\frac{1}{$	A Less Accumulated Depreciation		100	205	6451	3,808	4,644	7,044	10,644	25,641	0	
A transment         233         330         1,033         2,040         4,236         6,144         18,144         11,013           1 figure (component figure (s + 3,25' + 1/13)         1         1         2         2         1         2         1         2         2         1         2         2         1         1         2         1         1         2         1         1         2         1         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         2         1         1         2         1         1         2         1         1         2         1         1         2         1         1         2         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1	4 CWTF - Num-Instructs Incaroug 5 Most "supersumersi (Liners 2 + 3 + 4)	2	570	570	1,589	3,808,6	4,644	7,644	10,644	25,044	36,442	
7       finance on Ancroger for Interconnect         6       Equanty Component (Line 6 ± 2.52% ± 1/13)         1 <t< td=""><td>b. Average Net lavestment</td><td></td><td>202</td><td>570</td><td>670,1</td><td>2,048</td><td>477.4</td><td>A,144</td><td>9,144</td><td>18,144</td><td>0011</td><td></td></t<>	b. Average Net lavestment		202	570	670,1	2,048	477.4	A,144	9,144	18,144	0011	
a Equary Component Contract (A)       a Equary Component Contract (A)       b Equary Component (Contract (A) is a 2.3.7.5.4 r (1.2))       b Equary Component (Contract (A) is a 2.3.7.5.4 r (1.2))       c Equary (A)	7 Returns on Average Net Investment		,	3		8	16	Ş	10	133	HC2	BCC2
1         Internant Lypenses         0	a. Expandy Companent Ground Up For Lanes (A) b. Debt Companent (Linc 6 a 2 82% a 1/12)			-	-		03	z	2	Ş	22	ŭ
3         Reproteine beneficient         0	8. Investment Expenses					0			0	0	y	*
b         Amentation         0	a likperrateau						0	•	•	0	0	
Communication         Communic	b Americation					0	0	0	a	0	•	e
4         Propert Tance         0         <	c Doumandlement				•	•	•	•	0	•	0	•
1         7 (and System Recording Express (Lines 7 • 6))         3         5         11         26         41         99         18         176         209           a Recording Express (Lines 7 • 6)         0 <td< td=""><td>d Proporty Laters e Other</td><td></td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>•</td><td>0</td><td>0</td></td<>	d Proporty Laters e Other		0	0	0	0	0	0	0	•	0	0
0         0						*	17	5	=	R	139	202
a Recoveration Control Advanced to in Advan	9. Total System Recoverance trapenace (Lines 4 m)			•	•	•	0	a	e	•	•	•
In Example bandwistored Packet         0.945501         0.9405329         0.9237022         0.9237025         0.9237005         0.9471000         0.9407500         0.9405301         0.9002195           11. Domand Anticlocand Packet         0.9015401         0.9015409         0.9015406         0.923540         0.9015231         0.9013031           11. Domand Anticlocand Packet         0.9015401         0.9015406         0.9015406         0.9117796         0.923541         0.911671         0.90132323         0.9013031           12. Actual Energy-Related Recoverable Cosh (1)         0<	<ul> <li>Recoversating Control Advector to Longing</li> <li>Recoversating Control Advector to Demand</li> </ul>		-	•	=	A	Ŧ	8	2	ą	151	R
1.1         Recard Recoverable Costs (1)         0         13 <td>10 Energy heriodictional Pacient</td> <td></td> <td>0 9483018</td> <td>6255096-0</td> <td>0.9247896</td> <td>240C829 0 0696029 0</td> <td>0.9316,706</td> <td>0.9471090</td> <td>01909/60</td> <td>0 %647580</td> <td>6102106-0</td> <td></td>	10 Energy heriodictional Pacient		0 9483018	6255096-0	0.9247896	240C829 0 0696029 0	0.9316,706	0.9471090	01909/60	0 %647580	6102106-0	
12 Retail Enorgy-Related Recoverable Control 19 9 5 10 24 38 54 81 159 124 13 Recal Recoverable Control 15 Recoverable Control 15 Recal Recoverable Control 15 Re				•	e	0	G	0	0	•	0	•
13 Read Demonstration (second and constraint) 11 11 11 11 11 11 11 11 11 11 11 11 11	12 Retail Energy-Related Recoverable ( tells (1)				9	12		2		159	124	10-70 E
Link hereichen Kront and h	<ol> <li>Renal Domand-Related Recoverable Costs (Lines 12 + 13)</li> <li>Total hemodicional Recoverable Costs (Lines 12 + 13)</li> </ol>		15	55	510	54	138	151	122	2130	101	1045

EXHIBIT NO. \_\_\_\_\_ DOCKET NO. 980007-EI TAMPA ELECTRIC COMPANY (KOZ-1) FILED: OCTOBER 5, 1998 DOCUMENT NO. 15 PAGE 7 of 8

FORM 42-8E REVISED: NOVEMBER 12, 1998

Notes (A) Lines to a 14238PG a 1/12. Rased on ROE of 11 75% and weighted income tax rate of 34 575% (expansion factor of 1 428002) (1) Line %a Line 10 (1) Line %a Line 11 • Estimated Expenditure

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Imme Electric Comparts Environmental Cost Recovery Classer (ECRC) Calculation of the Actual/Estimated Amount for the P April 1995 to December 1998

Return on Capital Investments, Deprecision and Taves

Image: product for the state of t			And and a	(in Doll	ŝ	ł						
Internet         Expension         Expension <thexpension< th="">         Expension         <thexpension< th=""> <thexpension< th=""> <thexp< th=""><th>Lase Drucoption</th><th>Regnament of Period Annount</th><th>Acted Apr-98</th><th>Actual May-98</th><th>Actual Jun-98</th><th>Actual NJ-98</th><th>Actual Ang-96</th><th>Estimated Sep-08</th><th>Estimated Oct-N</th><th>Estimated Nov-08</th><th>Extended Dec-98</th><th>Foried Amount</th></thexp<></thexpension<></thexpension<></thexpension<>	Lase Drucoption	Regnament of Period Annount	Acted Apr-98	Actual May-98	Actual Jun-98	Actual NJ-98	Actual Ang-96	Estimated Sep-08	Estimated Oct-N	Estimated Nov-08	Extended Dec-98	Foried Amount
	1 Investments			4	-	141	100	11000	\$1,000	(65,623	\$50,000	
$ \begin{array}{c} \mbox{ for ensemble} \$	<ul> <li>Expenditures/Address</li> </ul>		100	R 4		0		0	0		•	
c         Rements         0<	b (Teravags to Plant							•	0	•		
Previous (Previous) lister standard (Previous) liste	c Retergreents d Univer		00	~	0	0	•	•	0	0	•	
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1 Class Answinder Dipression         0         31         31         101         1007         400         73/40         17.400         0.3           5 Class Answinder Dipression         5 Class Answinder Dipression         50         31         31         300         1000         1000         12.600         17.400	2. Plast-in Service/Appreciation Place				0	•	0	•	۰	•	(8(1)	
	<ol> <li>Less Accumulated Depression</li> </ol>		10	6	100	11011	1,502	100	1001	32,400	0	
A transfer for line model         26         51         70         90         1,90         2,001         2,001         6,011         2,016         6,111           1 Reserved (second (sec	<ol> <li>C'UTP - Non-Interest Deswing</li> <li>Net Investment (Lines 2 + 3 + 4)</li> </ol>	20	571	311	848	1,011	1,007	4,807	1,001,1	37,400	242,03	
7         Renor on Average Not Increased.         2         4         5         7         10         7         6         105         10	6. Average Net Inventment		A	5	710	0(6	1,409	100.1	100,4	22,004	107.29	
a Figher Component Remoted By For Tarset (A)       a Figher Component (Exerced By For Tarset (A)       b Edder Component (Exerced By For Tarset (A)       b Edder Component (Exerced By For Tarset (A)       b Edder Component (Exerced By For Tarset (A)       c Edder       c Edder <td>7 Return on Average Net Investorent</td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td>01</td> <td>×</td> <td>\$</td> <td>991</td> <td>458</td> <td>2225</td>	7 Return on Average Net Investorent				-		01	×	\$	991	458	2225
Internation         0 <th< td=""><td><ul> <li>Expany Component Commental Lip For Exact (A)</li> <li>Excla Component (Line 6 x 2 R7% x 1/12)</li> </ul></td><td></td><td></td><td>-</td><td></td><td>~</td><td></td><td>-</td><td>2</td><td>8</td><td>4</td><td>62</td></th<>	<ul> <li>Expany Component Commental Lip For Exact (A)</li> <li>Excla Component (Line 6 x 2 R7% x 1/12)</li> </ul>			-		~		-	2	8	4	62
a Deprecision         a Deprec	8 Investment Expenses		•	•	•	a	•	•	ė	۰	101	114
b. Amentations         b. Amentations         c         b. Amentations         c         b. Amentations         c <thc< th="">         c         c</thc<>	a Depreciation									•	0	•
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A Property Face         0	c Damandorment					•		•	•	•	a	
• Total System Recorrective Expense (Lises 7 • 1)       3       5       7       9       13       12       61       219       742       1,001         • Recorrective Constraintie Expense (Lises 7 • 1)       3       5       7       9       13       23       0	d Property Taxes e Other	- 1-10 - 1			0	0	•	0	8	0	0	0
• Total System Resonable Exponent (Liner 7 • 1)         0						•		32	3	219	742	1001
a Recoverable Contr Allocated to Extended         1         3         7         9         13         32         61         219         742         1,011           b Recoverable Contr Allocated to Formand         0	<ol> <li>Total System Recoverable Expenses (Lines 7 • 8)</li> </ol>					•	•	•	0	•	•	•
10         Finangy Institutional Prace         0.94870(1)         0.9235/16 <td><ul> <li>Recoverable Costs Allocated to Energy</li> <li>Recoverable Costs Allocated to Demand</li> </ul></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td>0</td> <td>R</td> <td>10</td> <td>642</td> <td>742</td> <td>160'1</td>	<ul> <li>Recoverable Costs Allocated to Energy</li> <li>Recoverable Costs Allocated to Demand</li> </ul>		-				0	R	10	642	742	160'1
12 Recal Encryp Related Recoverable Count (B) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<ol> <li>Facety heisdictional Face</li> <li>Demand heisdictional Factor</li> </ol>		8105396 0 8105396 0	9255096 0 94499205 0	0.0214229-0	20092828-0 0092928-0	00(01(0)0	0.01216.0	010000000	0.946949	\$6(205A 0 \$10(2106 0	
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1) Recail Demond-Related Recordish Colors (C) 21 23 20 54 54 542 550 50 541 541 5670 541 1 Total Insulversidad Colors (C) 210 510 500 541	12 Retail Encryp-Related Recoverable Costs (B)							, <b>7</b> ,	2	364	679	185
	<ol> <li>Recall Demond-Related Recoverable Useds (U)</li> <li>Total Interface of Recoverable Contect Inter 12 + 13</li> </ol>		13	53	2	24	\$12	53	156	21/18	5670	Citer's

EXHIBIT NO. DOCKET NO. 980007-EI TAMPA ELECTRIC COMPANY (KOZ-1) FILED: OCTOBER 5, 1998 DOCUMENT NO. 15 PAGE 8 of 8

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Notes (A) Lines to a R.2.18%, a 1/12. Itaned on ROE of 11 29% and weighted income tax rate of 38.575% (expansion factor of 1.6.2002) (B) Lines % a Line 10 (C) Lines % a Line 11 \* 1 stanmand Expenditure