ORIGINAL TAMPA ELECTRIC COMPANY FILED 10/05/1998 REVISED 11/03/1998

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

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treatment and disposal. In 1995, I transferred to Tampa Electric's Energy Supply Department and assumed the duties of the plant chemical engineer at the F. J. Gannon Station. In 1997, I was promoted to Manager, Energy Issues in the Electric Regulatory Affairs Department. My present responsibilities include the areas of fuel adjustment, capacity cost recovery, environmental filings and rate design.

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

A. The purpose of my testimony is to present, for Commission review and approval, both the calculation of the revenue requirements and the estimation of the environmental cost recovery factors for the billing period January 1999 through December 1999. My testimony also addresses the recovery of 0 & M costs associated with the environmental compliance activities for the period January 1, 1999 through December 31, 1999 as well as the actual/estimated costs for the April 1998 through December 1998 period.

Q. Have you provided any exhibits which show the determination of the recoverable environmental cost for the period of

January 1, 1999 through December 31, 1999?

A. Yes. Exhibit No. \_\_\_ (KOZ-1) includes Forms 42-1P through 42-7P, prepared under my direction and supervision calculate and summarize the capital and 0 & M ccsts, and develop the environmental cost recovery factors for 1999 which are being presented for recovery at this time. Forms 42-1E through 42-8E, also prepared under my direction and supervision, calculate the current period true-up amount to be refunded for 1999 and are provided in Exhibit No. \_\_\_\_\_ (KOZ-1).

Q. What has Tampa Electric calculated as the total true-up to be applied in the period January 1999 through December 1999?

A. The total true-up applicable for this period is an overrecovery of \$1,611,209. This true-up consists of a final true-up overrecovery of \$351,717 and a five-month actual/one month estimated true-up overrecovery of \$386,745 for the April 1998 through September 1998 period plus an estimated true-up overrecovery of \$872,747 for the period October 1998 through December 1998. A detailed calculation supporting the estimated true-up is shown on Schedules 42-1E through 42-8E of Exhibit No. \_\_\_ (KOZ-1).

Q. How do the actual/estimated project O&M expenses for April

1998 through December 1998 period compare with the original projection?

A. As shown on Form 42-4E, total O&M activities were \$1,302,574 or 43.7% lower than projected costs. This variance is primarily attributable to two projects.

In June 1998 Tampa Electric received approval from the Federal Energy Regulatory Commission—to collect SO<sub>2</sub> allowance costs from incremental sales. (The SO<sub>2</sub> costs charged to interchange sales are based on the projected replacement cost of SO<sub>2</sub> allowances.) Since this time, Tampa Electric has been collecting revenues including SO<sub>2</sub> allowance costs and crediting back the jurisdictional retail customers. This credit is now reflected in the costs passed through the ECRC. Overall, retail customers are projected to realize credits totaling \$508,157 for October, November and December of 1998 based on the impact of estimated economy sales.

The FMPA SO<sub>2</sub> credit resulted in a decreased credit to Tampa Electric's jurisdictional retail customers due to differences in actual unit generation and allowance costs.

Q. Are there any new O & M activities and associated expenses for which Tampa Electric is seeking cost recovery?

A. Yes. Schedule 42-2P itemizes 13 projects in which 0 & M costs are to be recovered. Of these 13 0 & M compliance activities, the only 0 & M project and associated expenses which have not yet been reviewed by the Commission relate to the National Pollutant Discharge Elimination System (NPDES) Annual Surveillance Fee.

Department of Environmental Protection (FDEP), in 1995, enacted a rule requiring payment of annual surveillance fees for the administration of the NPDES program. Tampa Electric Company is seeking, prospectively, recovery of these costs in this projection filing. Because this is a new rule that had not been anticipated at the time of Tampa Electric's rate case and the costs were incurred after April 13, 1993, these costs are appropriate for recovery through the clause.

Q. Has Tampa Electric Company included any capital project costs for recovery through the Environmental Cost Recovery Clause?

A. Yes. Tampa Electric has included fifteen capital projects for recovery through the Environmental Cost Recovery Clause. Of these fifteen projects, seven new projects have been included. As Mr. Nelson points out in his prepared testimony, five of these projects are projects required to meet the NOx emission requirements of Title IV of the Clean Air Act Amendments of 1990. These projects include Big Bend Units 1 and 2 classifier Replacements, Gannon Units 5 and 6 Classifier replacements, and Gannon Coal crushers. Additionally, Tampa Electric Company will be extending the stacks at Gannon Units 5 and 6 to meet Title V permitting requirements.

Q.

Are there currently any new capital projects already in service for which Tampa Electric is seeking recovery?

A. Yes. The Gannon Unit 5 Classifier replacement was in service as of December 1997 and the Big Bend Unit 2 classifier replacement went into service in May 1998. These projects are being considered together as the basis of Tampa Electric's Nox compliance plan. Capital expenditures for these in-service project are being recovered on a prospective basis and no construction carrying costs are included.

1	Q.	Do you have any exhibits showing the calculation of the
2		recoverable capital project costs for 1999?
3		
4	<b>A.</b>	Yes. Schedule 42-3P summarizes all the cost estimates
5		projected for these projects and Schedules 42-4P pages 1
6		through 8, which were prepared under my direction and
7		supervision, show the calculations of these costs.
8	Ť.	
9	Q.	Do you have an exhibit which shows the description and
10		progress reports for environmental compliance activities
11		and projects?
12		
13	A.	Yes. Project descriptions, as well as the projected
14		recoverable cost estimates, are provided in Schedules 42-
15		5P, pages 1 through 17.
16		
17	Q.	What are the total projected jurisdictional costs estimated
18		for environmental compliance in the year 1999?
19		
20	A.	Based on cost estimates for the O & M and capital projects
21		summarized on Schedules 42-3P and 42-4P, the total
22		jurisdictional amount to be recovered through the
23		Environmental Cost Recovery Clause calculated on Schedule

42-1P, is \$6,128,265.

Q. How were environmental cost recovery factors calculated?

A. The environmental cost recovery factors were calculated as shown on Schedules 42-6P and 42-7P. The demand allocation factors are calculated by determining the percentage each rate class contributes to the monthly system peaks. This information is obtained from Tampa Electric's 1997 load data study and is provided in Exhibit No.\_\_\_ (KOZ-1). The energy allocation factors are determined by the percentage each rate class contributes to total kWh sales, as adjusted for losses, for each rate class. Form 42-7P presents the calculation of the proposed Environmental Cost Recovery Clause factors by rate class.

Q. Are the costs Tampa Electric is requesting for recovery through the Environmental Cost Recovery Clause for the period January 1999 through December 1999 consistent with criteria established for environmental cost recovery in PSC-94-0044-FOF-EI?

A. Yes, they are. The costs identified for recovery through the Environmental Cost Recovery Clause are costs that:

 have been prudently incurred or will be incurred after April 13, 1993;

	161	
1	2.	the activities are legally required to comply with a
2		governmentally imposed environmental regulation which
3		was enacted, became effective or whose effect was
4		triggered after the company's last test year upon
5		which rates are based; and
6		
7	3.	such costs are not recovered through some other cost

Q. What are the Environmental Cost Recovery clause billing factor rates for which you are seeking approved new factors?

recovery mechanism or through base rates.

A. The computation of the billing factors is shown on Form 42-7P of my exhibit. In summary, the billing factors are:

16		
17	Rate Class	Factor (¢/kWh)
18	RS, RST	0.029
19	GS, GST, TS	0.029
20	GSD, GSDT	0.028
21	GSLD, GSLDT, SBF	0.028
22	IS1, IST1, SBI1,	
23	SBIT1, IS3, IST3,	
24	SBI3, SBIT3	0.026
25	SL, OL	0.028

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Q. When does Tampa Electric propose to collect these environmental cost recovery charges?

A. They should go into effect concurrent with the first billing cycle in January 1999.

Q. Does this conclude your testimony?

N. Yes, it does.

EXHIBIT NO. \_\_\_\_\_ DOCKET NO. 980007-EI TAMPA ELECTRIC COMPANY (KOZ-1) REVISED: NOVEMBER 3, 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-EI TAMPA ELECTRIC COMPANY (KOZ-1) REVISED: NOVEMBER 3, 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

DOCUMENT NO.	TITLE	PAG	E NO.
1	Forms 42-1P		1
2	Forms 42-2P		2
3	Forms 42-3P	-1	3
4	Forms 42-4P		4
5	Forms 42-5P		19
6	Forms 42-6P		36
7	Forms 42-7P		37
8	Forms 42-1E		38
9	Forms 42-∠E		39
10	Forms 42-3E		40
11	Forms 42-4E		41
12	Forms 42-5E		42
13	Forms 42-6B		43
14	Forms 42-7E		44
15	Forms 42-8E		45

4. Total Jurisdictional Amount to Be Recovered/(Refunded)

in the projection period January 1999 to December 1999 (Line 1 - Line 2a - Line 2b- Line 3)

5. Total Projected Jurisdictional Amount Adjusted for Taxes

(Line 4 x Revenue Tax Multiplier)

7 and 8 of Forms 42-5 and 42-7 of the estimates and actual

Allocation to energy and demand in each period are in proportion to the respective period split of costs indicated on Lines

Final True-up for the period October 1997 to March 1998 (Form 42-1A, Line 3)

January 1999 to December 1999 For the Projected Period

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1. Total Jurisdictional Revenue Requirements for the projected period

s. Projected OstM Activities (Form 42-2P, Lines 7, 8 & 9) b. Projected Capital Projects (Form 42-3P, Lines 7, 8 & 9)

Total Jurisdictional Revenue Requirements for the projected period (Lines 1a + 1b)

	1	1			1	
\$4,325,430	4,321,130	350,549	791,597	387,429	5,846,405	2815.171
\$195,389	195,226	1,168	81,150	4,316	281,860	231,957
\$4,520,819	4,517,056	351,717	872,747	386,745	6,128,265	3,047,128

2h. True-up for Estimated Over/Under) Rocovery for the

(Form 42-2E, Line 5+6+10)

period October 1998 to December 1998 (Form 42-2E, Line 5 + 6 + 10)

2a. True-up for Estimated Over/(Under) Recovery for the

current period April 1998 to September 1998

\$4,325,430	4,321,130	350,549	791,597	302,429	5,846,405	2112171
\$195,389	195,226	1,163	81,150	4,316	281,860	\$49,903
\$4,520,819	4,517,056	351,717	872,747	386,745	6,128,265	3,081,137

REVISED: NOVEMBER 3, 1998 LOBW 47-IP

PAGE 1 of 1 DOCUMENT NO. 1 EXHIBIT NO. DOCKET NO. 980007-EI

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

Inner Electric Contrastr Endennessed Cost Barowery Clame (ECRC) Calculation of the Projected Period Amount January 13-2 to December 1999

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

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

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REVISED: NOVEMBER 3, 1998 FORM 42-4P

PAGE 1 of 15 DOCUMENT NO. 4 PLLED: OCTOBER 5, 1998 EXHIBIT NO. PROPOTET TAMPA ELECTRIC COMPANY

Face 41-49 Page 1 of 15

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Bacoverside Oses (8)		23,493	n.n	5,000	MCR.	60'00	egre-	3000	40,03	38,584	51,541	30,734	91,230	1614,817
d Recoverable Costs (C)		107133	262.238	232.062	\$52,784	\$49,499	549.839	239,054	368,836	\$50,904	\$31,544	\$51,734	\$51,830	\$516,037
ACCOUNTABLE COMPS (LABOR 12 * 1.2)		-						200	25 VIII C					

Notice:
(Litting & Extraction of 12.77% and on ROW of 12.77% and weighted become tax rate of 28.77% (expension factor of LAZ2003)
(D) Liber Starting to
(C) Liber Starting to

5

Engine Bridgit Citization
Engineers Cont Reservey Class (ECIC)
Calculation of the Projected Pathol Assorted
Jassary 1999 to December 1999

Nature on Capital Invasionates, Dependation and Terms for Project. Big Steni Uhit 4 Confinences Entiresions Mandons

10		beginning of	Projected	Projection	Property.	-	10mm 20	Jun. 59	30.00	Aug-09	Sup- 29	00-89	Maw-89	Dac-99	Period America
Part		Period Assessed	300-53	1000											
Compared Science   Compared Sc	1. broutontile			1	:	1	5	2	3	2	2	2	8		
Second   S	4		2	g	2	1 *	•			•	•	•	•		
Section   Sect	4		•		•	•	•	•	•	•	•	•	•		
Section   Sect	П		•	•	•	•	•	•	•				•		
Second Department   Seco	C. Nathwented		•	•	•	•	•	•	•	•	Þ	•	•		
Second   S	4. Contra										***********	100 7500	114 2014	112 2000	
Part		111 300 311	1117905	\$300,211	3864,231	1366,211	146,311	1386,211	\$806,111	3200,211	2000,111	2000	1	Out and	
Charles   Char	Ē	1381.400	CR5 400	(101,135)	CHARACTE	(105,389)	(187, 144)	(199,043)	(1398,950)	(112,797)	(114,674)	(118,301)	Creation of the last	Company of the last	
Automate	ł	Carried Control	CTRADE	CENTARED	C234,40E)	(236,410)	(234,493)	(136,400)	CEDA, 400E)	CDK-405	(T36,40E)	(234,408)	(236,400)	(108,499)	
### State		100 to	330,143	534,348	536,391	334,534	123,222	\$30,768	518,883	\$17,084	\$11,129	313,182	311,315	20,00	
State   Stat	Ī										-		-	-	
A sharegard benefits to the company of breathant (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c			331,004	329,287	527,330	325,425	\$12,576	521,639	219,812	317,943	314,942	314,191	HOH	MAN	
A by Composed Cheesed by For Tonne (9)  Loss Loss Loss Loss Loss Loss Loss Lo	6. Asserge Not Jerustham														
## Companied Cheesed Lip Pur Thomas (3)  Companied Cheesed Ribberts (12)  Companied	1 Datema on America Mc Invisional.			1776		-		700	182	3.000	3.795	3,781	200	3,750	\$45,951
Companied (Line 6 ± 1205 ± 172)  Companied (Line 6 ± 172)  Companied (	į		3,945	3,891	3,078	7,044	3,839	7970				1 4000	1 300	1 500	214.606
Companies (Julio F 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	a Departy Companion Language up vio Learn (v)		1.348	1.344	100	200	200	123	8		3	7	-	}	
LETT	b. Dath Compensant (Line 6 x 1.42% t 1/12)														
177   177								!	-				1882	1,807	101.03
1,000	The state of the s		1111	1,807	1,877	CEN.	1	181	-	1	•	•	•	•	•
1,000	a. Depression		•	•	•	•	•	•	•	•	•			•	
Column   C	b. Assertingion			•	•	•	•	•	•	•	•		•		
Part	c. Diseaschement		•		•	•	•	•	•	•	•	•	•	•	•
1,000   1,00	d. Property Taxes				•	•	•	•	•	•	•	•	•	•	•
1,000	t Other												-	-	5 4
1,000   1,00			7.638	7.012	1667	1007	4,957	6,839	(331	690	200	100	5		-
everable Cutte Allocated to Demand  Auriticas Agriculus 4.50000000 4.50000000000	lystem Respirentials Day		-	7.613	706.7	200	15679	6657	1259	6903	2002	6,866	2	9	EL IN
	Celtinop		1			•	•	•	•	•	•	•	•	•	
agg Juhikidised Puler  Appropria	b. Rasoverskie Costs Africated to Demand												-		
agg Juhakdone Pater 6,510704 6,510704 6,510704 6,510704 6,510704 6,510704 6,510704 6,510707 6,510704 6,510707			Author	0.8782889	6.5523023	6.9584205	6.5078417	6,916,713	6.STETEST	0.5101397	0.9343896	0.9569203	0.9030700	0.5671894	
	P		£.3046421	830CK25	6.2955745	0,9011740	6.9951248	6,5164773	MODIES	0.5160000	0.9213212	0.9117377	0.3931282	Contract	
	ı										***		4400	****	428 400
CH C			105	(30)	2007	1007	6316	CIE	5	5	1	5			1
	1		•	•	•	•		•	-	-	200	450 570	140 79	26.684	178 500
	ğ.	The second second	10775	\$4,913	24,646	24,036	36316	\$6.357	E S	100	34,440	100			

remeis die 18st Rook Vilkes of the replaced Dig Dead Unit 4 CDids which is currently recovered through bean refer. es 6 z £202086 z 1812. Desed on ROE of 11,79% and weighed became tax wis of 38,57796 (organism finiar of 1,6200 EXHIBIT NO. \_\_\_\_\_\_\_
DOCKET NO. 980007-EI
TAMPA ELECTRIC COMPANY
(KOZ-1)
FILED: OCTOBER 5, 1998
DOCUMENT NO. 4
PAGE 3 of 15

Environmental Cast Bactery Catter (DCDC)
Calculation of the Projected Period Amount
Jaccasey 1999 to December 1999

Ranson on Capital Investments, Dependation and Taxon For Project. Big Basel Utch I Chesifer Replacement

	Seginality of	Projected	Part of the last	Projected Lines	Projected Ass29	Projected	Perjacent	Projected Jul-29	Projected Ang-89	Projected Sep-29	Projected Oct-89	Prejected Mav-69	
Description	Period Assessing	-											
. Investments			***	1	2	8	8	2	2	2	2	2	
s. Expendiment/Additions		877.73	-	•	•	•	•	•	•	•	•	•	
b. Chardogs to Plant		•	•	•		•	•	•	•	•	•	•	
c. Rethermosis		• •	• •	•		•	•	•	•	•	•	•	
	-	-	***	61 AND WAS		11.479.300	\$1,479,300	11,03,380	11,479,300	51,479,300	\$1,479,300	\$1,479,300	
1. Mass-in-Service Depreciation them	SILDILAND O SUTI	A SAME	CRASS.	(11.967)	(18,635)	(22,143)	(34,171)	COLLEGE	(MONTH)	(20,375)	(42,443)	(4(5)1)	
A. Lane: Accomplished Deprisonation.	in or		•	•		•	•	-	•		-	-	1
L. CWIN-Machine Besting	1,109,717	1,463,004	1,449,401	1,465,333	1,461,363	1,457,197	1,453,129	1,443,562	1,444,993	1,448,925	LOGETY	1,402.70	1
A. Not have about (Lines 2 + 2 + 4)  6. Average Not Investment		1/00/301	1,466,383	1,467,507	1,463,299	148,331	1,485,163	1,451,895	1,443,807	SCD93	1438,81	TOTAL	
			1	90.91	18.769	10,730	10,700	10,670	10,640	10,610	34,586	11,550	
a. Equity Component Games (A) For Tenes (A) b. Date Component (Lies 6 x 1.12% x 1/12)		E ST	7	3,448	3,03	200	3,430	3/410	3,401	136	THC I	5	
2. Investores Expenses			-	-	4 000	4 948	4.00	4,000	507	867	95	468	
s. Degradbilen		1,523	463	1.	, •	1.	•	•	•	•	•	•	
b. Assaclandes			•	• •			•	•	•	•		•	
c. Dissaudonent		• •	• •		•	•	•	•	•	•	•	•	
d. Property Towns			•	•	•	•	•	•	•	•	•	•	1
			1	300.00	10.00	18.227	11.11	18,348	18,109	18,009	MASS	17,990	
<ol> <li>Tutal System Recoverable Expenses (Lines 7 + 8)</li> </ol>		1	1	10.00	18.307	18.227	12,188	38,342	14,109	12,049	1009	17,990	
s, Encountille Custe Allectied to Dangs  i. Bassemelde Custe Allectied to Demond			1.		•	•	•	•	•	•	•	•	
		-		A 8407009	0.0500055		6.5161713	120000	CONTRACT.	0.9353386	ELEGECTES.	0.5036720	
0. Steepy Jurisdictional Platter 1. Desuge Jorisdictional Platter		£3000C1	636665	0.005574	6,901.748	4.5951349	6,9164773	100000	0.5167349	0.9213112	estimu.	6.5601262	
13. Mand Bauery-Eddend Incoverable Costs (9)		mm .	11,734	11,386	11,509	1658	14,465	14,744	IK, SH	16,982	ntin .	8D1	194
Ct. Sand Denserd-Rated Recoverable Costs (C)		-	-	-	419 619	\$10,543	\$34.663	316,746	\$14,674	\$14,962	117,212	117,319	
a ward hard defend the coverable Court () but 12 + 13)		17,71	257,738	200,000								2000000	

HINDERS X VIII. Dassed on ROIS of 11,7794 and weighted bacoms tex rate of 78,5770 (expension factor of 1,678602)

Entransmit Cost Insufer Chains (ICE)C, Entransmit Cost Insurery Claims (ICE)C, Oderdatos of the Projectal Perfect Annual Januaries 1999 to December 1999 Rateurs on Capital Investments, Depreciation and Yamer For Project: Jilly Bresi Utek 2 Charafter Replacement

	Inglessing of	Projected	Projected	Projected	Projection of the last	Projected	Projected Inn.89	Projected Jul-89	Projected Asse-89	Projected Sep-89	Projected Oct-79	Prejected Nov-89	Projected Date-09	The of Period Asserted
Destription	Period Amount	Jan-99	740-19	1	View	and and							ı	
		1	1	2	1	2	3	2	2	2	2	8	2	
		2	2 '		*	•		•	•	•	•	•	•	
		•	• •	•			•	•	•	•		•	•	
		• •	• •		•		•	•	•	•	•	•	•	
				-		6004 878	2005 270	5981.679	200X 878	5365,070	1985,679	2565,870	2345,879	
n Jase	1961,670	2002,070		Can della		CALED	(22,579)	CM.2863	COLUM	(35,440)	CHEMITS	(40,734)	(daye)	
ingles	CHENT	(hearhe)		o o		•	•	•	•		•	۰	1	
	971.253	171.150 P78.636	947.999	943,372		940,118	952,491	954,864	152,237	949,610	946,963	MC38	941,739	
Ī		971,540		366,034		10,02	958,385	82738	913,551	958,924	543,397	MALES	943,043	
upper					7.009	1,600	7,059	7,651	2,613	693	65	3	105	20/105
and Up For Tunes (A) Ex 1,8256 x 1/13)		2.00	15	100	i i	118	130	230	1311	120	113	1,722	2,316	27,001
		6074	101	2,627	1,617	1,627	2,627	2,627	101	2,627	2,627	200	1,60	10,500
		-	1		•	•	•	•	•	•	•	•	•	•
		• •		•		•	•	•	•	•	•	•	•	•
		•	•			•	•	•	•	•	•	•		•
		• •	• •		•	•	٠	۰		•	•		•	•
		-	-		11 003	11.644	11.639	13.985	11,800	11,854	11,528	11,983	11,777	10,613
Department (Library 7 + 15)		12,658	14.60	13.000	11.962	11.956	11.930	11,905	11,500	11,854	10,030	11,983	11,777	10,013
Calcul to Dongs				•	•	•	•	•	•	•	•	•	•	•
			-		Astender	4 102017		6.9337257	nethers.	9,555,7884	6.9569203	8.3626788	0.3471894	
. 1		0.000M21	0.9043425	6.8953955	0.901750	6,5051349	0.9164773	4.512/614	910391679	6,9213217	4.9117377	0.9001362	62060189	
					10.000	3388	10.000	10.905	10,739	11,000	81011	100	11,391	\$23,133
everable Costs (3)		100	11,673		•	1.	•	•	•	•	•	•	0	•
conventills Cests (C)		111.717	111.675	\$11,410	\$11,483	\$16,855	\$10,503	\$10,965	110,939	\$11,063	11(3)18	111.362	\$11,391	103/139

ELECTRICA X UTIL. Thesed on ROIL of 11,270% and weighed income toronte of 28,3770% (onyweight factor of 1,670002).

8

Zinnas Zinnas Zintas Consussatz Zinchessessis Cast Lacovey Cleans (ECC.) Calculation of the Projected Public Assesses Jesusory 1999 to December 1999 Surans on Capial Investments, Departeision and Tuess For Project Genom 5 Chmiller Replacements

	Impleming of Projected	Projected	Project	Projected	Projected for the	Projected Man-09	Total I	Philipping Named of	Projected Aug-77	Projected Sep-89	Projected Oct-89	Projected Non-89	Prejected Dec-09	The of Period Amons
Description	Pedal Assum	788-23	1004											
		1	3	3	3	2	2	2	2	2	a	2	a	
Alberta		2 1		۰	۰	•	•	•	•	•	•	-	•	
		•	•			•	•	•	•	•	•	a	•	
			•		•	•	•	•	•	•	•	•	•	
	***************************************	61 249 240	41 349 949	11 119 000	11,359,049	\$1,758,640	\$1,359,849	11,319,940	\$1,329,640	51,359,840	\$1,359,040	11,329,840	11,339,040	
pendelim Dan Depredalim	(44,737)	CHENTS	(973)	(66,649)	(DR.953)	Care of	(78,361)	(03,043)	(10,169)	(92,473)	ocur)	(100° to (100)	(SMCYSOL)	
1 Beauty	1 100 103	1.308.900	1,396,685	1,292,391	1,388,687	(387,785)	1,279,479	1,778,175	1234271	1,384,947	1302303	1,257,959	1,253,435	
		ISITIBET	רשומו	13950	1,294,239	1,385,915	1,381,631	מניתנו	1,271,623	1,387.79	138(413	LORGIII	CENTRI	
Met broadment				***	are.	1,456	101	8,382	1363	8778	1,297	1300	9734	8117,890
nat Chemical Up For There (A) a (Lies 6 x 12794 x 1717)		190	1,652	3,80	3,652	760	3,612	3,002	2,982	1781	2,991	2361	7,951	X,080
		1		78.7	74.7	74.0	100	100	200	5	5	3	35	\$53,648
		5	5	3.	, •	•	•	•		•		•	•	•
			• •			•	•	•	•		•	•	•	•
		• •		•	•	•	•	•	•	•	•	•	•	•
		•	•			•	•		•	•	•	•	•	•
			14 400	10.000	14.603	KIN	96.36	16,698	14,657	16.614	14,572	16,511	16,039	200,000
versitie Enpanses (Linns 7 + 1)		1	2000	14 805	14831	16,782	14,740	16,656	16,657	14,634	14,572	16201	14,439	309/000
de Albestied to Energy ets Albested to Demond		1.		١.	•	•	•	•	•	•	•	•	•	•
		200000	4,970,000	0.9503009	6.959.0065	CASTERITY.	0.9141713	TETTETO	TRETTERS	9.9353884	4,7567253	630200	0.9673894	
of Pater		E.SORDEZI	0.9045425	0.2955745	0.5011742	4,9622340	0.91447TS	0.9167634	0.516200	6.92(33)	47111777	6,9051202	6,5007129	
		16.40	16,484	16,027	14,135	MAN	18,337	13,408	15,337	11,511	14,859	15314	11,942	1100,604
And the commentation of the Color of Colors of		•	•	•	•	•	•	•	-			01000	0 000	200 000
Passerumble Cotts (Lines 12 + 13)		\$14,449	\$14,404	\$14,627	316,125	115,236	\$18,337	\$13,400	115,007	MAN	313,838	PASSIN	-	-

ANDRESS A PAR. Damed on POSS of 11,73% and weighted become tax non of 38,573% (supunden factor of 1,62007)

Lyenna Lannas Amerika (1988) Ibri, menanda Carl Ractorry Chasa (DCRC) Calculation of the Projected Paries America January 1999 to December 1999 Return on Capital Investmenta, Department and Thins For Project: Gunnon 6 Chaelfor Replements An Publish

Inginating of Projection Puriod Assessed Assessed	Projects.	Parje nd	Projected Min-Pr	Projected Age-89	Projected May 89	Projected Jen-89	Projected Nd-89	Property Ang-89	Projected Sup-79	Projected Oct-09	Projected Non-79	Projected Dec-89	Paried Amount
	*******	611 800	216.034	513.573	\$1,007,623	1321,746	\$199,638	\$37,300	2	2	2	2	
	******				•	•	•	•	•	•	•	•	
	•	•	•			•	•	•	•	•	•	•	
	• •	• •	•	•	•	•	•	•	•	•	•	•	
				1		*********	***************************************	********	11 756 641	21 716 545	21 775.045	51,734,845	
2	2	22	2	a	2	21,387,117	51'M1''	Sale Assignment	-	The same	1200 000	AND AND	
•	•	•	•	•	•	(intro	(1,943)	(utan)	(17,423)	(real)	9	· ·	
43,235	34341	68,141	84.175	97,748	LIBRAIN	-	1000	BL# 646 1	1 717 623	1 252 417	1 190 112	1,901,607	
4733	18,341	68,141	BLTS	87,748	1,116,571	CHAIN	1,699,877	Links	1	1	1		
	48,738	R,S	74,138	94,96	611,589	HING	1,597,766	1,784,732	1,730,725	1,715,039	1,780,815	1,794,619	
	7		9	97	470	1001	11,389	11.59	17,689	13,611	11,103	12.50	201,336
	11	H	2	A	1,500	3,161	1,735	1107	400	4400	100	7007	n n
					•	230	CHI	510	128	3,205	2002	SEE	133,638
	• •	• •	• •	•	•	•	•	•	•	•	•	•	
	•		•	•		•	•	•	•	•	•	•	
		•	• •			•	•	•	•	•	•	•	
	• •	•	•	•	•	•	•	•	•	•	•	•	
	-	-	1		5427	15313	IICM.	11,719	20,007	21,846	21,796	21,745	153,551
	31	11	1	1 10	6.735	15.313	20,000	21,710	21,397	21,944	21,796	21,745	153,5
		1.		•	•	•	•	•	•	•	•	•	
	80000			0.0594885	0.9078817	GTERRES	1227225.0	4.9207397	SAUCE OF STREET	0.9567203	6363630	ASST2894	
	0.9940421	6,9965625	0.1955745	0.901748	6,9651,340	6.51607.3	0.9167614	80000000	Control			-	
	9	B	E.	H	3,622	KES	18,741	19,590	29/62	28,915	20,963	nen	3144,415
1	•		•	•	•	•	•	•	•	•	2	100	
			100.0	Part Charle	41773	\$34.029	518,741	319,590	230,482	\$20,905	120,903	221,602	3386.4

ZISSY, z 1/1.2. Based on RCE of 11,23% and weighted knows tax sate of 24,379% (expension factor of 1,43000)

) Line % x Line 10

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Themse illustrict Committees Endwarm: 3d Ond Receivery Chains (ICRC) Calendaries of the Projected Parisal Amount January 1999 to Devember 1999 Artum on Oughel terraceasts, Dept. citation and Tume For Project: Ourses Unit 5 Short Extension

Execution   Employing of Projected   Pro														
Description	o Reported	Phylodele	Projected	Projected Men-09	Projected Age-89	Projected Mary 10	Parison of the last	Projected Jul-79	Prejected Ang-99	Projected Sup-89	Prejected Oct-89	Projected Nov-89	Property Dec-29	Dad of Pariod Amount
State   Stat	Putan America													
State   Stat		-	1		0.70	23 300	81.580	2000	13,500	2100,000	1136370	1277,890	\$10,000	
Second Control Contr		31,060	27,000			•	•	•	•	•	•	•	*	
Second color   Seco		•	•	•			•	•	•	•	•	•	۰	
Activist Depocalision Barrers  a control Depocalision Barrers  b control Depocalision Barrers  a control Depocalision Barrers  a control Depocalision Barrers  b control Depocalision Barrers  a control Depocalision Barrers  b control Depocalision Barrers  a control Depocalision Barrers  b control Depocalision Barrers  a control Depocalision Barrers		• •	•	•		•	•	•	•	•	•	•	•	
A brengle Market		1	1		2	3	3	20	R	2	a	R	\$786,300	
Companies   Comp		2 *	4		•	•	•	•	•	•	•	•	(1361)	
Inchinate Bening  Leaves (John 2-5)+4;  At heredomic Transmist  At h	1		27 069	36.690	38,100	40,400	41,980	42,940	44,400	147,139	203,499	255,199	•	
A branch blue branch and blue blue blue blue blue blue blue blue	N N	1	27,040	N, GL	38,100	46,459	41,580	42,900	44,469	141,139	343/39	553,130	788,135	
A Average Not Environment  Confedered Cheese (Lips of There (A)  Single-base (Lips of There (A			M.58	31,479	31,380	38,230	41,198	603	44,718	14,730	211,385	419,335	678,138	
Consposent Cheese (1) For Thurs (A)  Consposent Chee & 2 27575 x 1773  Con		1	3	3		9	9	313	81	11	200	3,003	25	117,000
All processes distances to the control of the contr	3	8	E G	l t	a a	n	R	98	H	111	žį.	100	23	New York
Application			•	•	•	٠	٠		•	•	•	•	1363	11,345
Marketine State of the state of		•		•	•	• •			•	•	•	•	•	•
on Baserweigh Equators (Line 7+8) 247 257 259 343 341 449 and 6 control of co		•	•		• •	• •			•	•	•	•	•	•
ory Places compliance (Lines 7+4) compliance			•	•	•			•	•	•		•	•	•
tom Eurorentish Eugeness (Lines 7+4) 247 257 249 343 341 449 and 6-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0		• •	• •	•		•	•	•	•	•	•	•		•
Asset Macroscopida Eliquoses (Libera 7 + 5) 241 449 247 257 259 243 449 449 247 257 259 243 449 449 449 247 257 259 243 449 449 449 449 449 449 449 449 449 4		3		-	59.	IR	909	<b>#</b>	ō	82	2,000	857	1,748	11,647
wable Cost, Allected to Divery	11+10	3	1	and the same	2	301	807	413	0	828	2,000	4,540	7,74	17,647
PROPERTY AND PROPERTY OF AND PROPERTY		·	i°		•	•	•	•	•	•	•	•	•	•
CATTON ACTIONS CONTRACT CATTONS CATTONS CATTONS		6377703		4,030000	0.9584805	0.5078817	6.9141713	CATEGORY .	Testance a	SECTION A	0.9587203	0.000000	A.16071894	
ASSESSES AMERICA ASSESSES ASSESSES		6,5000421		0.0955745	0.9011748	6,9651308	6.316.TE	D. 187814	Chimical		1	-		
on and Washing Roomshift Cheen (St.) 245 246 246 246 246 246 249	8	248	R	K	38	386	M.	2 4	8 *	g.	1980°°	1916		136,510
tetal De	0	0 000	- 000	623	SOCI	1366	1963	8380	9000	SETR	\$1,999	13,916	17,484	\$18,910

A STORM x 1012. Throad on BCES of 11,25% and weighted become tax rate of 24,375% (organishm factor of 1,42000)

O Line Starline 10

EXHIBIT NO. \_\_\_\_\_\_
DOCKET NO. 980007-EI
TAMPA ELECTRIC COMPANY
(KOZ-1)
FILED: OCTOBER 5, 1998
DOCUMENT NO. 4
PAGE 8 of 15

Livebengment Cast Inscreey Clean (UCRC) Calculation of the Projected Period Assessed January 1999 to December 1999 Automs on Capital Investments, Deportatives and Tesse For Preject: Cameson Unit 6 Starit Edension On Delines

	Inchesing of	Projected	Prejected	Projected	Prejuded	Prejected	Projected	Projected	Projected	Projected	Projected	Projected Mon-99	Projected Dec-89	Paried Assessed
Description	Parish Assess	of America Joseph	F46-19	100-01	Apedia	Mary-19	100-01	A COLON	and the same				1	
			-	-	100	100	40 00	1949	8	2	200	2	8	
		2000	2300	8228	1,440				•	•	•	•	•	
		•	•			•						•	0	
		• •				•	•	•	•	•	•	•	•	
		•	•	•										
		5	3	2	2	2	a	2	a	2	R	a	8	
ion Dan	R *		•	•		•	•	•	•	•	•	•	•	
deton	- :	-	24 400	*****	22,430	30,950	32,530	13,499	11,699	33,499	NU.	33,578	33,630	
	20,000	20,200	24,440	27.639	91.16	30,930	32,530	33,499	23,499	33,490	23.539	33,570	33,630	
3+4)	N N	47,500			1									
		25,379	34,00	34,845	22,748	29,700	31,740	33,010	33,498	11,490	11.536	n sie	33,618	
regions		1	1	9	1		H	90	×	396	200	DR.	H	22,710
serve Up For Tense (A)		187	1	137		1	1		2	2	F		2	200
6 x 2,82% x 1/12)		8	8	9	3	t	2	•						
	*		94		*	•	•	•		•	•	•	•	A
		•	•		•	•	•	•		•	•	•	•	•
		•	•	•	•	•	•	• •	•			•	•	•
		•	•	•	•	•	•	•		• •	•		•	•
		•	•	•	•	•	•	•	•		• •	• •	• •	
		•	•	•	•	•	•	•	•	•	•	•	1	
				-	9	i	3	m	H	n	X	H	336	3,536
a Expension Calma 7 + 19		247	8	R	1	11	1		303	325	325	300	300	3,036
sented to Beary		247	R	R	R	1	1.		•		•	•	•	•
because to Demand		•	•	•	•	•		•						
		A desirate of	0.0787439	A SSETTING	6.9584905	C.SUTHELT?	0.9161713	CASTITUTE OF	<b>Q.SOMTSH?</b>	0.9353886	0.5549203	0.903070	0.9671894	
		0,00000	6.996525	0.0753765	8,501748	0.5051300	0.9164773	43167614	0.9168249	0.9213312	4.5117277	6,9651292	6,10007189	
Theory at the			1	1		96	8	70	ñ	300	200	314	315	23,275
conscible Onto (II)		300	R.	1			•	•	•		•			•
Lacovarable Cents (C)		•	1	-	200	1000	003	1000	1299	1304	202	1334	\$315	\$10.73
and the Courts of these 17th 175		2249	1367	2000	-		-							

Note: Colour Colo

12

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g,	E,

													* * *
a design	Impends, of Projected	Projected	Talenta i	Projected	Projected	Projected Jun-99	New	Projected Aug-77	Projected Sep-79	Projected One-89	Perspected Nov-09	Projected Dec-99	Period Assessed
Period Assessing	78-13	180											
		***************************************	****	819 2005	\$137,500.2	201.63	100,610	8	a	n	2	2	
	200,618	1					•	•	*	•	n	0	
			•			٠	•	•	•	•	•	•	
	• •		• •	•	•	•		•	•	•	•	•	
	1		3	3	95	8	54,064,002	54,064,002	94,864,902	34,064,902	34,864,002	34,064,002	
R *	g *	2 *	•			•	(1,000)	(19,812)	(007,000)	(46,239)	(39,436)	(72,644)	827
- 10		1 500 017	2 077 578	2.574.142	3,079,764	3,567,384	•	•	•			•	
17.50	1 864 794	1 580 912	2,077,530	2,574,148	3,879,746	3,567,384	4,657,398	4,544,190	4,808,162	4,817,774	4,004,568	3,591,338	
		133,483	LIEB/III	120,09	TRETAR	3,519,075	HCTHY	4,659,794	985'287	1000	441173	1,997,942	
			1976	17.162	28,734	34,406	38,603	20,786	23,489	28,812	29,485	29,388	23/2/02
These (A) L VITE)	198	YDE	E C	3,466	3	7,300	657	178	3,488	MIL	3/436	1,395	
		•	٠	•	٠	•	707	13,308	13,398	13,398	13,298	13,208	17,64
	•		•	•	•	•	•	•	•	•	•	•	•
	•	•			•	•	•	•	•	•	•	•	•
	•	• •			•	•	0	•	•	•	•	•	•
	•	•	•	•	•	•	•	•	•	-	•		0
	!	10011	17.948	10 10	10.71	32,306	20,384	250	58,285	20,257	20,00	33,001	CLUBS
m7+1)	2 :	11011	17.78	20 500	22,387	32,286	40.5%	11,513	53,315	22,257	22,129	52,661	
	,	•	-	•	•	•	•	•	•	•	•	•	
	*		A extenses	6 913,000	0.0070017	2011113	0.5027257	1927322.0	0.9353886	0.9500003	0.5428230	0.9671394	
	SOUTH TO STATE OF THE STATE OF	0.9005025	6,005003	0,901748	4,5051340	8.9164773	43004	4.5160349	6.P213212	4311377	0.5051292	0.500718	
	****	*******	14.00	1011	34.864	29,536	60,227	4333	49,900	30,004	28,115	59,295	
9	1	1	1	•	•	•	•		•	•	•		•
Courte (C)	The Co	\$12.546	\$14,868	10'113	134,864	\$29,506	\$40,327	\$48,352	\$49,660	130,000	158,165	\$58,795	1

H Desgrand

13

EXHIBIT NO. DOCKET NO. 980007-EI TAMPA ELECTRIC COMPANY FILED: OCTOBER 5, 1998 DOCUMENT NO. 4 PAGE 10 of 15 FORM 42-4P

**REVISED: NOVEMBER 3, 1998** 

Libra Description  1. Introducents  2. Description of Posts  3. Cheering to Fosts  4. Reformants	Period Amount	740-77	F80-57	40000	-				The second named in					
1111														
111		,	1	5	5	9	8	8	8	2	2	a	2	
11		g	2 '	1 *			۰			•	•	•	•	
c. Refrements		•	• •	•			•	•		•		•	•	
-		• •	• •		•	•		•	•	•	•	•	•	
and a								-	-	200	4488 943	500 300	510 753	
	C-188 713	\$189.752	\$100,752	\$500,752	5,729,752	\$388,732	1588,752	\$389,732	\$388,732	\$388,734	2000,124	1	****	
	C17 410	CHAND	(25,303)	022,140	CERTEN	(31,890)	(COCCO)	0000	(36,731)	(38,448)	(60,985)	CO MICH	(44,412)	
3. Lass: Accumulated Depreciation	Constraint	Cade 8000	C264.000	(364,860)	(384,999)	(366,860)	(364,690)	(284,000)	(364,000)	(284,900)	(384,900)	(204,000)	(386,050)	
_	200 700	300,439	258.363	294,584	201,689	21,220	299,835	214,918	287,001	287,004	200 167	38,250	279,333	
A. Not heverthest (Link 1+3+4)									Contraction.	-	-	-	****	
A Assessed the Incustrated		201,379	299,442	297,545	201,628	293,711	167.78E	218,817	217,969	286,903	20,130	H, 10	MILD'S	
d. Aprilia rea sermones														
7. Batters on Awarsge Not Investment			-	*	2 174	2.169	2.146	2133	2,117	2,103	2,000	2,075	2,061	125,603
a. Espairy Component Ground Up For Taxes (R)	93	200		ļ	400	900	700	633	423	E	89	9	629	E CHI
b. Delt Component (Lies 6 x 2.4296 x 1/2)		Ĕ	100	6	6	1								
f. becaused Direction								1 014	1963	1.917	1917	1917	UCI	123,004
. Demolsten		1317	1,517	1,917	100	3		•					•	•
1 terrelanden		•	•	•	•			• •		•			•	•
D. Address		•	•	•	•	•	•	•	•	•		•	•	•
C. Districtionnell.			•	•	•	•	•	•	•	9	•	9	•	• •
d. Property Taxes				•	•	•	•	•	•	•		•	•	•
1					1	5	****	7 100	7.21	787	101	537	4607	36,000
1. 1. Tool Sydem Becoverible Equators Class 7+19	+ 20	400	9	5	5	,	1				•	•	•	•
		•	•	•	•			7.700	114.7	4.002	1631	103	103	56,90
A Paceworks Costs Allocated to Distant		4,041		Š		3	-	1				i o		
		**********	A 4700 A000	4.000000	0.9736305	0.9072817	6.9161713	Variation o	0.5007397	6,9353996	6,550000	0.5428790	6.9471894	
10. Dowgy Judedictions Parter		0.9040421	6,7945425	0.8955765	6.301T/dl	8,305(2)19	6.9164773	0.9167634	6,5162919	6,5112012	WELLING.	6,9601202	6.5007189	
11, Daniel Actoritions Pass							•	•		•	•	•	•	2
es then Passers-Related Sacretarible Outs (C)		•	•					7447	4.205	4333	4.301	4204	4177	50,007
11. Rand Decamb Rahmed Recoverable Costs (D.		4336	600	5	OC I	1117	54.352	24.334	SCH	SUM	34,361	54,394	14177	151,617
14. Total Surfadinished Recoverable Costs (Linus 12+13)	10+10	8038	KOR	2										

Notice:
(A. Representation Capital Casts of the Chances, Ignifices Coll Trust of
(B) Lines & S.E.E.E.M. M.D. Brand on ROS of 11.79% and weight
(C) Lines be a Line 19
(C) Lines be a Line 19
(C) Lines be a Line 11

FILED: OCTOBER 5, 1998 DOCUMENT NO. 4 PAGE 11 of 15

Tanne Birniak Sampton.
Environment Cest Recevery Chass (ECVL).
Calculation of the Projected Parish's Assessed Jaconsery 1999 to December 1999

Rener, on Oughel terrestrants, Depreciation and Trans For Project. Hig Band Pool Oil Trait #1 Upgrade An Product.

	Beginning of Prejected	Projected	Projected	Prejected	Projected	Projected	Projected	Projected	Prepared	Trapected Sep-79	Projected Oct-09	New-29	Projected Doc-89	Period Assount
Lies Description	Period Amount	200	746-59	1	Agenta	No.								
Severtionals		1		:	1	s	8	26	2	3	2	2	a	
a. Expanditures/Additions		2 '	2 *	1 *	•	•	•	•	•	•	•	•	•	
h. Cheerings to Plots		•	•	•	•	•	•	•	•	•	•	•	۰	
c. Referensits			• •	• •		•	•	•	•	•	•	•	•	
4 com						-		***************************************	****	8447.000	877.000	\$447.000	2443.000	
Manufacturing Demodration Base	3443,000	\$443,000	\$143,000	\$443,000	2407/99	\$443,000	2442,000	D4C,000	C10 3465	(11 180)	(12.436)	(13.442)	(14,482)	
Laur Accumisted Depreciation	Crayo	(3,100)	(5)43)	(ADS)	(4,210)	() Table ()			0	•	•		•	
CWIP, Non-Married Bearing	440,936	CH.892	404,859	407,034	406,790	40,736	0,722	413,488	453,654	03,039	408,986	429,552	428,518	
6. Average bit breatment		440,409	50,000	OUN	100,000	OCT	CALDO	900	400,171	40,07	60,183	900	420,405	
Reterns on Average Not Investment				****	716.6	3.366	1300	1,85	3,185	3,178	3,170	3,162	3,135	138,339
a. Equity Compound Ground Up For Tunes (A)		1,015	7007	1000	1,628	1,025	1,623	1,628	1,611	1,016	1,913	1,011	1,000	1730
S. Lots Companies Cons.														-
. bereatment Experime		1.034	1,004	1,004	1,634	1,604	1,034	1,034	NAM.	1,634	1004	1,034	1,000	312,408
a. Depreciation			•	•	•	•	•	•	•	•	•		•	
b. Americation				•	•	•	•	•	•	•	•	•	•	
c. Disparationant		•				•	•	•	•	•	•	•	•	•
d. Perpetty Turns		• •	•	•	•	•	•	•	•			•	0	0
		1	-	***	-		6963	200	103	SUN.	5317	5,307	3,197	CO,000
Total S, stars Recoverable Expenses (Lines 7+1)		TIC.	3	1	1	1.	•		•	•		•	•	•
<ol> <li>Basevenish Onto Albonied to Barry</li> <li>Basevenish Onto Albonied to Demand</li> </ol>		200	17	Sam.	100	50	SEE!	530	1,237	\$,228	2317	1302	3,197	CO'ND
A. Baugy Jobalishma Pater		6,9777035	605072.0	6.5500000	0.9500005	0.5078017	6.9161713	ASTERNA ASTERNA	0.9160349	0.9353866	4.5500203	6.9636790	0.50071294	
11. Dunseld Judofferland Patter		a Jones			Andrew Street					•	•	•	•	2
11. Rated Darery-Redated Recoverable Costs (8)		•	•	• !		-	****	007	123	(10)	(33	4.70	4,681	57,231
200		E V	4,111	600	2	1	200.00	64 636	274.25	\$4.817	14.33	\$4,703	34,681	\$57,231

Notation (A) Liber 6 at ACCION A 1972. Based on BCCE of 11,7794 and weighted income tax rate of 78,37794 (expansion factor of 1,4339037 (D) Liber 6 at Liber 19 at Liber 19 (C) Liber 9 at Liber 19 (C) Liber 9 at Liber 19

Annua, Recital Connects
Environment Out Reservey Classe (BCRC)
Calculates of the Projected Petial Assess
January 1999 to Encomber 1999

Return on Capital Investments, Depreciation and Tones For Project. Hig Bend Faul Oil Tesh #2 Upgrade (An Anders)

	Supposing of Projected	Total Control	Project	Projected Man-89	Projected Age-89	Project September 1	Projected Jun-69	Projected 745-79	Projected Aug-89	Projected Step-89	Projected Ont-89	Projected Man-79	Projected Dec-09	Pariod Amend
Duarription	Period Annual	Jan-19	700-11											
				1	*	1	5	3	8	3	8	2	21	
		2	g	2	R '	1 *			•	•	•	•	•	
		•	•	•	•	•	•	•			•	•	•	
		•	•	•	•	•	•	•						
		•	•	•	•	•	•	•	0	•	•			
					***************************************	***********	6018 000	6018 000	5310.006	2213,000	5213,000	3818,600	\$218,600	
Dass	\$831,000	\$213,000	1212,000	3218,000	2518,000	200,000	C10 4000	THE PERSON	(14.70)	(18.135)	(28,044)	CHANN	COUNTY	
	(1994)	(2,843)	(ETT.)	(6,681)	(ALIM)	(market)	0		•		•	•	•	
	•	-	200 000	611.110	Mar. 130	807,501	805,592	803,683	891,774	799,843	797,956	796,947	10,120	
9	817,916	41717	177	100	-									
		114,051	11/10	NATUR	818,365	304,456	104,547	807748	802,729	806,539	776.011	200,100	775,003	
1						131	1881	283	5,545	200	1,000	5,848	5,946	377,086
d Up For Tusse (A)		1003		200	2,500	1 800	1.895	1.691	1,886	1,002	144	5	1,902	
(x1126x112)		101		8	5			i						
				-		1 600	1 800	1 900	1,509	198	1500	1389	1,989	822,908
		1,909	200	2	5	3	1	•	•	•	•	•	•	•
		•	•	•	•	•		•	•			•		•
		•	•	•	•	•	•	•	•	•	•		•	•
			•	•		•	•	•	•	•		•		
			•	•	•	•	•	•	•	•	•	•	1	
			****	****	****	9.754	2,735	2,317	9,698	9,600	199'6	3,642	9,623	116,710
memors (Librar 7 + 8)		2,444	2,000	200		•	•	•		•	•	•	•	
of to Energy		•	•	•	• !			****	8 400	9700	199'6	2,642	9,623	
and to Demont		200	9,809	8,791	2,772	800	N. Line	No.						
		A service a		4.103089	0.9500005	6,9971817	6,9161713	DESTETES.	0.9387397	6.9353886	0.9569203	0.9626709	6.9471894	
		£300021	630625	6,8935765	8,5911748	6,595(2)10	0.9944TT3	42167614	0.5160300	6.5213212	4.9117377	CECION O	6,5007138	
		•		•	•	•	•	•	•	•	•	•	9	a
smalls Conta (9)					100	6277	1500	E.508	1,104	6,918	878	1,78	2,642	105,978
weeplite Cestra (C)		OH!	100	070.00	48 894	53.239	\$8,922	\$0,904	18,354	58,918	33,356	11,710	38,668	\$100,018

ACE of 11.77% and weighted basenes tox rate of 78.579% (expensions factor of 1.675602)

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

Passes Buritis, Consistent Environmental Cost Escrewy Classe (ECIC.) Calculation of the Projected Period Asserted January 1999 to Jovensher 1999 Autom on Capital Investments, Deproducion and Trans For Project, Phillips Upgrade Test #1 for FDSP (in Dedoct)

Description Period Assessed As	2 8	100-01	ACRES OF										
254,200 (34) (34) (34) (34) (34) (34) (34) (34)	g												
254,200 (34) (34) (34) (34) (34) (34) (34) (34)	g g	1	8	9	8	2	a	a	2	2	R	a	
(39) (20) (20) (20) (20) (20) (20) (20) (20		*		•	•	•	•	•	•	•	•	•	
delina Jimo 534,590 produkim (39) miling (3) 2+3+4) MA42	98763	•	• •		•	•	•	•	•	•	•	•	
156,590 (39) profession lines (39) profession (39) (39) (39) (39) (39) (39) (39) (39)	20,500			•	•	•	•	•	•	•	•	•	
distinct lines 555,500 (39) or milety (39) 2+3+4) 55,440	900	-	****	414 404	600,703	536,300	106,500	206,500	23,530	236,500	236,500	\$36,500	
2+3+4) XA40	(120)	90	(98)	E	(acri)	(Jac)	(000)	9	(1.101)	(Lin)	(129)	(1,450)	
2+3+4)	•		•	•	•	•	0 000	B 07	34,368	14 SE2	35,166	35.69	
	MIN	X,316	36,094	21,978	15,862	15.78	A CO	4	-				
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FORM 42-4P REVISED: NOVEMBER 3, 1998

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Ferm 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 COMP (KOZ-1)
FILED: OCTOBER 5, 1998
DOCUMENT NO. 5
PAGE 1 of 17

FORM 42-5P REVISED: NOVEMBER 3, 200

Project Title: Big Bend Unit 3 Flue Gas Desulfurization Integration

#### **Project Description:**

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

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

#### Project Accomplishments:

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:

The project is complete and in service.

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.

Form 42-5P Page 2 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 COMPAN:
(KOZ-1)
FILED: OCTOBER 5, 1998
DOCUMENT NO. 5
PAGE 2 of 17

FORM 42-5P REVISED: NOVEMBER 3, 19496

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

#### **Project Description:**

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

The project involved the addition of liquid sulfur unloading, storage and conveying to sulfur burners and catalytic converters where 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 \$41,376.

Form 42-5P Page 3 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

FORM 42-5P REVISED: NOVEMBER 3, 1988

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>2</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 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 COMPANICACION
(KOZ-1)
FILED: OCTOBER 5, 1998
DOCUMENT NO. 5
PAGE 4 of 17

FORM 42-5P REVISED: NOVEMBER 3, 1999

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/extimated 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.

Form 42-5P Page 5 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 COMPAN (KOZ-1) FILED: OCTOBER 5, 1998 DOCUMENT NO. 5 PAGE 5 of 17

FORM 42-5P REVISED: NOVEMBER 3, 104

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 (NOx) 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 NOx 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 NOx 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 COMPAN (KOZ-1) FILED: OCTOBER 5, 1998 DOCUMENT NO. 5 PAGE 6 of 17

FORM 42-5P REVISED: NOVEMBER 3, 14

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 (NOx) 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 NOx 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 NOx 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.

Estimated O & M costs for the period January 1999 through December 1999 are projected to be \$0.

Form 42-5P Page 7 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

FORM 42-5P REVISED: NOVEMBER 3, 15

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<sub>X</sub>) 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:

roject Fiscal Expenditures: N/A.

Progress Summary: The Gannon Unit 5 Classifier Replacement will be used by Tampa Electric to meet

NOx 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.

Estimated O & M costs for the period January 1999 through December 1999 are

projected to be \$0.

Form 42-5P Page 8 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 COMPAN(KOZ-1)
FILED: OCTOBER 5, 1998
DOCUMENT NO. 5
PAGE 8 of 17

FORM 42-5P REVISED: NOVEMBER 3, 198

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<sub>X</sub>) 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

NOx compliance standards for Phase II of the CAAA.

Project Projections: Estimated depreciation plus return for the period January 1999 through December 1999

is projected to be \$153,551.

Estimated O & M costs for the period January 1999 through December 1999 are

projected to be \$0.

Form 42-5P Page 9 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

FORM 42-5P REVISED: NOVEMBER 3, 1996

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<sub>X</sub>) 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<sub>X</sub> values.

#### Project Accomplishments:

Project Fiscal Expenditures: N/A.

Progress Summary: The Gannon Coal Crushers will be used by Tampa Electric to meet NO<sub>X</sub>

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.

Estimated O & M costs for the period January 1999 through December 1999

are projected to be \$0.

Form 42-5P Page 10 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

FORM 42-5P REVISED: NOVEMBER 3, 1449

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 1.94b./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 \$16,407.

Estimated O & M costs for the period January 1999 through December 1999 are projected to be \$0.

Form 42-5P Page 11 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

FORM 42-5P REVISED: NOVEMBER 3, 1999:

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<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 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 dispersion 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.

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 \$3,626.

Estimated O & M costs for the period January 1999 through December 1999

are projected to be \$0.

Form 42-5P Page 12 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 12 of 17

FORM 42-5P REVISED: NOVEMBER 3, 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 caroute 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 \$0.

Form 42-5P Page 13 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 COMPA:
(KOZ-1)
FILED: OCTOBER 5, 1998
DOCUMENT NO. 5
PAGE 13 of 17

FORM 42-5P REVISED: NOVEMBER 3. 15

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

#### Project Description:

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

Present scope of work for this project includes:

Cleaning and inspecting the tank in accordance with API 653 specifications

Applying a coating to the internal floor and 30 inches up the tank wall. Installing an "El Segundo" bottom to the tank, including installing a leak detection system.

Installing a spill containment for piping fittings and valves surrounding the tank.

Installing a new truck unloading facility and spill containment for the truck unloading facility.

Installing level instrumentation for overfill protection.

Installing secondary containment for below ground piping or reroute to above ground.

Conducting a tank closure assessment.

#### Project Accomplishments:

Project Fiscal Expenditures:

The actual/estimated depreciation plus return for the period April 1998 through September 1998 was \$616 compared to an original projection of \$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 December 1998 is projected to be \$14,682. 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 \$116,710. Estimated O & M costs for the period January 1999 through December 1999 are projected to be \$0.

Form 42-5P Page 14 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

FORM 42-5P REVISED: NOVEMBER 3, 15:

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 interval 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

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

FORM 42-5P REVISED: NOVEMBER 3, 1998

Project Title: Phillips Oil Tank No. 4 Upgrade

#### **Project Description:**

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

#### Present scope of work for this project includes:

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

#### Project Accomplishments:

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 Oc. of er 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 EXHIBIT NO. DOCKET NO. 980007-E1
TAMPA ELECTRIC COMPAN
(KOZ.1)
FILED: OCTOBER 5, 1998
DOCUMENT NO. 5
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

FORM 42-5P REVISED: NOVEMBER 3, 195

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 1998 through

September 1998 was \$29,276 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.

Form 42-5P Page 17 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

FORM 42-5P REVISED: NOVEMBER 3, 199

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.

Tanna Electric Contains:
Environmental Cost Rassovery Clause (ECRC)
Calculation of the Energy & Demand Allocation % By Rate Class
January 1999 to December 1999

	8	8	6	(9)	છ	(9)	6	€	8	(10)
10	Average 12 CP Load Pactor at Meter (%)	Projected States at Meter (f/Wh)	Projected Avg 12 CP at Meter (XW)	Demand Loss Expansion Factor	Energy Loss Expansion Factor	Projected Sales at Generation (kWh)	Projected Avg 12 CP at Generation (M3)	Percentage of KWh Sales at Generation (%)	Percentage of 12 CP Demand at Generation (%)	12 CP & 1/13 Allocation Factor (%)
RS, 75T	\$2,72205%	7,046,663,000	1,525,763	1.061628	1.062297	7,485,642,965	1,619,793	44.34%	59.53%	31.57%
08, 05T, TS	63,02223%	951,385,000	172,327	1.061196	1.062297	1,010,653,431	182,993	3,99%	822.9	6.66%
מצם, מצטד	78,23957%	4,303,305,000	627,873	1.060330	1.061240	4,566,839,398	665,753	27.06%	24.47%	24.67%
OSLD, OSLDT, SBF, SBFT	86.12625%	1,779,258,000	235,830	1.045147	1.045213	1,859,703,592	246,477	11.02%	9,06%	9,21%
ह्मा, इस्म, इक्ष्म, इक्षम, इस्म, इस्म, इक्षम, इक्षम,	101.56414%	1,742,961,000	0	1.020766	1.021211	1,779,930,946	0	10.54%	0.00%	0.81%
SLOL	329.52368%	166,532,000	\$,769	1.058824	1.062295	176,906,111	6,108	1.05%	0.22%	0.28%
		15,990,104,000	2,567,562			16,179,612,443	2,721,124	100.00%	100,00%	100.00%

(1) Average 12 CP losed fluctor based on a situal 1997 losed research data
(2) Prejocated Wilh seless for the period Jensury 1999 to December 1999
(3) Calculated; (Colemen 2) / (8,760 hours X Colemn 1)
(4) Based on actual 1997 losed research data
(5) Based on actual 1997 losed research data
(6) Colemn 2 X Colemn 5
(7) Colemn 2 X Colemn 6
(8) Colemn 6 / Total Colemn 6
(9) Colemn 7 / Total Colemn 7
(10) Colemn 8 X I/13 + Colemn 7
(10) Colemn 8 X I/13 + Colemn 9 X 12/13

FORM 42-6P REVISED: NOVEMBER 3, 1998

#### Tampa Electric Company

### Environmental Cost Recovery Clause (ECRC) Calculation of the Energy & Demand Allocation % By Rate Class January 1999 to December 1999

		(1)	(2)	(3)	(4)	(5)	(6)	(7)
	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%	1,917,896	114,049	2,031,945	7,046,663,000	0.029
	GS, GST, TS	5.99%	6.66%	259,093	13,013	272,106	951,385,000	0,029
	GSD, GSDT	27.06%	24.67%	1,170,461	48,202	1,218,663	4,303,305,000	0.028
7	GSLD, GSLDT, SBF, SBFT	11.0294	9.21%	476,662	17,995	494,657	1,779,258,000	0.028
	IS1, IST1, SBI1, IS3, IST3, SBI3	10.54%	0.81%	455,900	1,583	457,483	1,742,961,000	0.026
	SLOL	1.05%	0.28%	45,417	547	45,964	166,532,000	0.028
	TOTAL	100.00%	100.00%	4,325,430	195,389	4,520,819	15,990,104,000	

Notes:

(1) From Form 42-6P, Column 8

(2) From Form 42-6P, Column 10

(5) Column 3 + Column 4

(7) Column 5 / Column 6 x 100

1

DOCKET NO. 98007-EI
TAMPA ELECTRIC COMPANY
(KOZ-1)
FILED: OCTOBER 5, 1998
DOCUMENT NO. 7
PAGE 1 of 1
FORM 42-7P
REVISED: NOVEMBER 3, 1998

<sup>(3)</sup> Column 1 x Total Jurisdictional Energy Dollars from Form 42-1P, line 5

<sup>(4)</sup> Column 2 x Total Jurisdictional Demand Dollars from Form 42-1P, line 5

<sup>(6)</sup> Projected KWH sales for the period January 1999 to December 1999

Tampa Electric Company
Environmental Cost Recovery Clause (ECRC)
Calculation of the Current (Actual/Estimated) Period True-Up

April 1998 to December 1998

Oct-98 - Dec-98	Period Amount	\$857,329	15,418	0	\$872,747
Apr-98 - Sep-98	Period Amount	\$371,903	14,842	0	\$386,745
(in Dollars)	Line	<ol> <li>Over/(Under) Recovery for the current period (Form 42-2E, Line 5)</li> </ol>	2. Interest Provision (Form 42-2E, Line 6)	3. Sum of Current Period Adjustments (Form 42-2E, Line 10)	<ol> <li>Current Period True-Up Amount to be refunded/(recovered) in the projection period January 1999 to December 1999 (Lines 1 + 2 + 3)</li> </ol>

EXHIBIT NO. 980007-EI

DOCKET NO. 980007-EI

TAMPA ELECTRIC COMPANT
(KOZ-1)

FILED: OCTOBER 5, 1998
DOCUMENT NO. 8

PAGE 1 of 1

FORM 42-1E REVISED: NOVEMBER 3, 1998

## Times Electric Comment Environmental Cost Recovery Cleane (SCRC) Calculation of the Actual/Batimated Perio I True-Up Amount April 1998 to December 1998

Current Period True-Up Amount

Annual							4	Apr-98 - Sep-98			ol	ri-98 - Dec-98
390,177   5094,606   5494,731   5523,779   5496,174   5497,146   52,716,205   5442,723   510,211   510,231   12,237   12,234,22   12,237   12,237   12,234,22   12,237   12,		Acres Apr-98	Actual May-98	Actual Jun-98	Actual 3ul-9t	Actual Ang-98		Eind of Period Tetal	Entimated Oct-98	Estimated Nov-98	- 23	End of Period Total
12,007   1	1											
12,027   12,027   12,027   12,027   12,027   12,023   117,563   117,1653   11,113   14,113	Complete Com	110 177	2394.696	\$494,731	\$523,379	\$496,174	\$407,148	\$2,786,305	\$40,723	\$382,211	112,8813	\$1,213,455
234 403,104 417,623 517,658 546,776 519,101 520,076 2,921,865 460,234 400,234 403,104 1,649,023 151,125 141,730 142,730 149,734 152,015 962,942 157,579 142,019 152,025 152,03	1. ECRC Revenues (net of Advenue 1845)	22 697	77.077	22 927	22,927	22,927	22,928	137,563	18,113	18,113	18,113	\$439
13,443   141,519   144,730   146,574   151,615   151,579   151,5	<ol> <li>True-Up Provision</li> <li>ECRC Revenues Applicable to Period (Lines 1 + 2)</li> </ol>	403,104	417,633	\$17,658	546374	\$19,101	520,076	2,923,868	460,136	400,334	400,634	1,267,794
152,458   151,125   144,700   146,279   146,374   152,015   592,545   151,077   152,	4. Pariadictional BGRC Conts  A Autobidge (Form 47-59: Line 9)	238,671	238,462	912,121	354,389	298,158	197,834	1,649,023	(31,547)	161,573	(180,819)	(72,783)
12,005	h. Combal Investment Projects (Form 43-7E, Line 9)	152,428	151,125	148,730	149,270	149,374	152,015	902,902	15,579	107013	103,000	483,438
12,005 28,005 47,389 42,647 71,569 170,257 371,903 356,804 76,722 2,593 3,097 14,442 4,158 5,087 2,293 3,097 14,442 4,158 5,087 2,1998 25,973 128,714 226,379 137,563 271,700 614,549 614,549 25,177 351,717 3	c. Total Aurisdictional ECRC Costs	391,099	349,587	470,269	659,608	447,532	349,819	2,331,963	104,032	245,592	(14,139)	410,400
1355 2,225 2,216 2,429 2,593 3,007 14,442 4,158 5,007 117,563 124,770 614,59 117,563 124,770 614,59 117,563 124,770 614,59 117,563 124,770 614,59 117,563 124,770 614,59 117,563 117,5	5. OverUnder Recovery (Line 3 - Line 4c)	12,005	21,036	47,319	42,647	11,569	170,257	371,903	356,804	26,732	423,793	157,729
157,563   124,876   136,207   162,985   185,144   236,379   137,565   271,700   614,549   151,717   351,	6. Interest Provision (Form 42-3E, Line 10)	2,235	2,772	2316	2,439	2,593	3,037	14342	4.158	5,087	6,173	15,418
1998   251,717   351,717   351,717   351,717   351,717   351,717   351,717   466,762   466,762   466,762   (21,627)   (	7. Beninnine Balance True-Up & Interest Prevision	137,563	128,876	136,207	162,985	185,144	236,379	137,563	271,700	614,549	678,255	271,700
(11,157) (11,158) (11,158) (11,158) (11,158) (11,113) (11	s, Deferred Tree-Up from October 1997 to March 1998 (Order No. PSC-98-0408-FOF-EI) and	111,125	111,717	351,717	351,717	351,717	351,717	351,717	466,762	466,762	466,762	466,762
b + 8)         480,593         487,924         514,702         536,861         588,096         738,462         738,462         1,081,311         1,145,017         1,536,87           0	s Treatle Collected (Refunded) (see Line 2)	(22,927)	(22,927)	(22,927)	(22,927)	(22,527)	(22,948)	(137,563)	(14,113)	(18,113)	(18,113)	(54,339)
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9. End of Period Total Tree-Up (Lines 5 + 6 + 7 + 7a + 5)	480,593	487,924	514,702	536,861	588,096	738,462	738,462	1,081,311	1,145,017	1,556,870	1,556,870
T10,251,12 111,180,12 534,957 5734,667 5738,655 5738,657 51,145,017	A Attended to Deckel Tread in Incident Interest	0	•		0	0	0	0	0	0	0	0
The same of the sa	Of the County of	\$420 593	\$487.924	\$514,702	\$536,861	2511,096	\$738,462	\$738,462	\$1,081,311	\$1,145,017	\$1,556,870	\$1,556,870

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

**FORM 42-2E REVISED: NOVEMBER 3, 1993** 

39

3

Environmental Cost Recovery Cleans (BICRC)
Calculation of the Astrad Statement Period Tree-Up
April 1998 to December 1998

Interest Previsio (in Dollars)

	App. 98	Actual May-98	Actual Jun-98	Jul-98	Aug-98	Sep-98	Amount	Oct-98	Nov-98	Dec-98	Amount	
<ol> <li>Beginning Balance True-Up Amount Grorm 42-25, Line 7 +7a + 10)</li> </ol>	\$489,280	\$480,593	\$487,924	\$514,702	330,861	\$588,096		\$738,462	11,081,311	\$1,145,017		
2. Ending Trus-Up Amount Before Internst	478,358	425,702	\$12,386	534,422	\$85,503	73,425		1,077,153	1,139,930	1,550,697		
3. Total of Beginning & Ending True-Up (Lines 1 & 2)	\$09,730	966,295	1,000,310	1,049,124	1,122,364	1,323,521		1,815,615	2,221,241	2,695,714		
4. Average True-Up Amount (Line 3 x UZ)	413,539	483,148	500,155	534,562	581,182	191,761		901,508	1,110,621	1347457		
5. Internst Rate (First Day of Reporting Dusiness Month)	\$35%	5.53%	\$30%	3,6004	3.58%	\$52%		5.50%	5.50%	5.50%		
6. Interest Rate (First Day of Schooquent Business Month)	\$523%	\$30%	3.60%	5.50%	\$52%	\$30%		\$.50%	\$50%	\$50%		
7. Total of Beginning & Linding Interest Rates (Linus 5 & 6)	11,08%	11.03%	11.10%	11.16%	11,08%	11.02%		11.00%	11.00%	11,00%		
E. Average Interest Rate (Line 7 x 1/2)	\$.540%	\$515%	\$350%	3,580%	5,540%	\$510%		3,500%	3.500%	\$10087		
9. Monthly Average Interest Rate (Line 8 x 1/12)	0.462%	0.460%	0.463%	0.465%	0.46294	0,459%		0.458%	0.458%	0.63%		
10. Pracest Provision for the Month (Line 4 x Line 9)	22,235	11,222	812.18	12,09	\$2,593	13,037	514,542	\$4158	\$5,087	84,173	\$15,618	

**FORM 42-3E** REVISED: NOVEMBER 3, 1998

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

Variance Report of O & M Activities (In Dollars)

No.

	(1) Actual/	(2) Original	(3) Variance	£ 8
	Estimated	Projection	Amount	Percent
1 Description of Investment Projects				
1 - Ris Band Ilnit 3 Flue Ges Desulfurization Integration	\$991,625	8971,599	\$20,026	2.1%
14 Dig Done Out 5 the Cas Conditioning	24,219	24,750	(\$531)	-2.1%
19 Dig Della Ollia : and a time olla Consession of	•	0	0	0.0%
16 big bend only a Continuous Emissions promotes	0	0	0	0.0%
1d Camon ignicol On 1444.	0	0	0	0.0%
16 Dig Della Fact On 1 mile #1 Oppress	0	0	0	0.0%
11 Dig Deng Tues On 1 tank at Opposite	0	0	0	0.0%
18 ramps upgrade tank at the total	0	0	0	960'0
In ramings Opprated 1 and 1 to 1 to 1	683,306	2,001,134	(\$1,317,828)	-65.9%
11 SOZ Credit - FMPA	(15,759)	(20,000)	(4,241)	21.2%
2. Total Investment Projects - Recoverable Costs	1683,391	\$2,977,483	(\$1,302,574)	43.7%
Recoverable Costs Allocated to Energy     Recoverable Costs Allocated to Demand	162,633,18	\$2,977,483	(\$1,302,574)	43.7%

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

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

FORM 42-4E REVISED: NOVEMBER 3, 199

Tennes Rec' Centents:
Environmental Cost Recovery Chesses:
Calculation of the Correst Period Actual/Enfi

OdM Anthritis (in Dollars)

	Actual	Actual	Actos	Entimetrol	Period of	Projected	Projected	Prejected	Total of	Method of Charifortion	Energy
	Marie Marie	M-M	Ampfill	Sep-36	Total	00s-68	Nov-98	Deefi	Total	Desira	Care Care
	200 270	C180 300	570 263	05,9783	200 1722	25,723	205,245	1131,049	\$400,017		5400,017
	CAT		5,052	MIS	214,574	MIS	3,115	3,115	29,345		1,345
				•	R	•	0	•	2		•
				•	8	0	•	0	2	a	
			•	•	a		0	0	a	•	
		•	e	•	a	•	0	0	a	0	
		•	•	•	R	۰	0	•	a	0	
		•	0	0	a	•	0	•	2	0	100000000000000000000000000000000000000
. 8	277.353	200,891	217,028	121,065	11,191,463	(153,094)	(41,611)	(013,452)	(\$500,157)		(500,157)
	°	•	•	•	(\$13,759)		0	0	0		0
253,534	34,43	381,593	320,025	208,859	1,742,186	(35,234)	164,749	(190,180)	(18,785)	R	(34,443)
2	348.453	381.583	333,005	208,830	1,742,186	(35,250)	144,749	(199,188)	(28,795)		
•		0	•	•	•	•	•	•	0		
0.9405339	0,9127623	0.92387095	0.9316706	0.9471090		0.5600670	0.9629530	0.9502365			
8	0.5247296	0.9282690	13775dil	42121323			-				
238.462	321,539	354,389	298,158	197,894	1,647,222	COSCO	161,573	(180,819)	(77,713)		
0		•	•	•	1001	•	•	0			
	0	•	۰			0	•	0	•		
9		1		***************************************	100 600 10	6500	200 00	G1180.819)	677,703		
\$138,462	5321,539	2354,389	\$256,136	2171,004	10000	9	ı	ı			

and Uthalts I and 3 Place Out Co.

1. Description of O&M Activities

š

is Big Bred Usbi 3 Flor Cas Densifing
is Big Boad Usbi 1 and 2 Flor Cas C
is Big Boad Usbi 1 and 2 Flor Cas C
id Openen Ingelien ON True
is Openen Ingelien ON True
is Big Boad Flord ON True
if Big Boad Flord ON True
if Big Boad Flord ON True
if Floring
in Phillips Upgrade True 8 I for FUE
in Phillips Upgrade True 8 I for FUE
in SOI Emissions Allowances
ij SOI Emissions Allowances
ij SOI Confeder FREAN
2 Trues of OMM Activities

Recoverable Conts Allo
 Recoverable Costs Allo

42

(A) Line 4x Line 5

FORM 42-5E REVISED: NOVEMBER 3, 199

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

Variance Report of Capital Investment Projects - Recoverable Costs

(In Dollars)

è p

(1) (2) (3) Actual Original Variance	-		\$64,092 64,092 \$0		_	\$15,298 50,559 (\$35,261)	2,538	2,997	1,469,151 1,514,008 (44,857)	0 503,96,005 1,396,005 0
	1. Description of Investment Projects	14 Big Bend Unit 3 File Cas Destitutioning	10 Big Dend Office I and a rise one Consessions	16 big belie cilit 4 Commons Emissions incommon	1d Cambon ignition Ou tank	16 Dig Dend Fort On Lank #1 Opposite	II big being rus on tank as opposed	ig Philips Opgrade Tank #4 for FDEP	2. Total Investment Projects - Recoverable Custs	3. Recoverable Costs Allocated to Energy

FORM 42-6E REVISED: NOVEMBER 3, 1998

Column (2) is the approved Projected amount in accordance with FPSC Order No. PSC-98-0406. FOF-EI Notes: Column (1) is the End of Period Totals on Form 42-7E

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

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

						4	Apr.98 - Sep.58				0	Oct.98 - Des.93	
	Actual	Andread	Acted	Actes (	Actual	Enfanted Sen-48	Patied of Total	Projected On-19	Projected Now-68	Prejected Dec-78	Period Total	Method of Cheditesis Demand Boog	Bergy
	Aprile	Maryo	-										
Innerst Projects (A)													
	2007 5000	678 609	959 668	292.469	292,262	\$92,096	1155,373	\$31,909	27,72	201,536	277,168		2275,142
Flor Oss Desulfactorion integration	200,000	241.72	66.973	54 Ball	14.708	55.576	1335,0%	35,444	CICSS	55,180	\$145,936		163,936
I and I Flux Oas Conditioning	20,450	20.00	2148	2148	1111	7,103	\$42,892	7,085	1,067	1,08	221,200		21,200
Conference Emissions Morelors	act"	2.48	200	3,101	55679	4015	272,073	4,007	5	4,000	\$14,635	114,035	
100 Dark	1	}	9		164	280	2002	1,349	4,012	3269	111,150	11,150	
Ni Theats #1 Upgrade	2 5	( )	1 4	r	2	20	3636	1,739	4,344	8,199	\$14,482	14,600	
Of Tank #3 Upgravia		4 *	) =	3	4	39	5145	22	22	359	250	9	
Thank #1 for FDEP		•			2	R	\$	9	219	70	1,022	1,003	
s Tank 64 for FDEP sjects - Antoversile Costs	100,001	160,840	161,168	160,743	160,379	160,784	84,735	163,092	168,131	173,193	304,416	56,113	PACTORS
	***	***************************************	700.331	155.440	1155111	154.775	233,701	154.01	154,002	153,744	462,304		
Clocated to Energy Clocated to Demand	440	4718	3	3,294	25	\$329	MOVIE	K91	14,029	19,429	42,112		
Inford Pater Scions Pater	81002047	0.3076-09	0.93,47862	0.95367095	0.9316796	0.9151930		4.980670 4.9147815	0.962530	0.9522385 0.9032833			
y Recoverable Costs (II)	148,401	146,841	14,75	144,367	18,512	146,989	834/03	18,661	140,319	11,58	38,166		
nd Recoveralite Costs (C)	400	5											
Recoverable Costs for Closes 7+10	113,438	\$15,08 \$15,135	114,730	\$149,270	\$140,374	\$152,015	2967065	\$157,579	616,042	1163,660	141,250		

EXHIBIT NO.

DOCKET NO. 980007-EI

TAMPA ELECTRIC COMPAN
(KOZ-1) FILED: OCTOBER 5, 1998 DOCUMENT NO. 14 PAGE 1 of 1

**FORM 42-7E** REVISED: NOVEMBER 3, 1998

44

# Theses Electric Comments Environmental Cost Inscreey Cleane (ECBC) Calendadon of the Areas/Endinests. Amount for the P April 1998 is December 1998

4

	to Sangaface	Aethni	No. of	1	MAN	Aug-M	Sep-11	Ontal	Now-98	Dec-98	Period Amount
10000000	Person Amount	Vis-se	and design								
. Investments		1	:	S	3	8	R	a	2	2	
e. Expenditures/Additions		a *	2 4	. "	0		0	•	0	0	
b. Chesings to Plant		9 4		• •			•		•	•	
c. Referensits 4 Other		. 0				•	•	•	0	0	
		-	***************************************	207 010 0	837 914 8	B.7 01.4 8	857 04.28	E 139.63	8570623	25,000	
1. Plant-in-Service/Dependation Serv	209'607'25	\$230,632	100 ACD	(101 APT)	Cranation	(231,45)	(175,927)	(738,397)	(000,000)	(191,043)	
A. Lens: Accumulated Depreciation.	(curbers)	Contract of	0				•	•		0	
4. CWTP - Num-belowed Benting 4. Met Investigant (Linux 2 + 3 + 4)	\$7,615,60	7,596,417	1,577,191	7,557,965	1,538,739	1,518,513	1,500,187	7,481,061	7,441,835	1,442,609	
6. Average Not Investment		1,606,030	7,386,804	1,367,578	7,540,353	1,529,136	1,589,000	1,000,000	1,471,448	1,450,222	
7. Return on Average Not Investment		***	200.27	20,000	705.33	66.36	55.322	25,000	54,939	24,797	500,000
a. Equity Component Crossed Up For Turns (A) b. Debt Component (Line 6 x 2.82% x 1/12)		Magni	11,000	11,784	11,738	17,013	17,68	17,600	17,538	17,513	159,241
L. Investment Expenses				***	10.00	364.01	ie The	18.256	19,236	30,00	IMBA
e. Deprodution		19,236	19,738	0770					•	0	0
b. Amortizetion							•		•	•	•
e. Diemenforment			•					•	•	•	•
d. Property Threes					•			•	•	0	0
		90 40	0110	95976	92,489	91,382	20,000	91,909	91,723	91,536	130,541
9. Total System Recoverable Expenses (Lines 7 +6)		97 078	22.50	92,436	97,409	20,202	90'08	91,909	91,713	91,536	
<ol> <li>Recoverable Costs Alkinsted to integr b. Encoverable Costs Altorated to Dumand</li> </ol>		•	•	•	•	•	•	•	•		•
A. Dong Judicial Color Town of Indicated Pater	•	0.9462903	6,942529	6,9227423	0.9287005	0.9316706	0.9471090	0.940609	0.902523	0.9520299	
11 Bund Basses, Boloted Bosovershie Costs (B)		10,10	su'us	13,499	115,837	85,976	M.	2002	BLDS.	186788	TELDED
13. Rated Dersund-Related Recoverable Costs (C)		515 963	SECTION	\$21,409	128,237	585,976	522,725	\$20,006	200,076	186,981	1

FORM 42-8E REVISED: NOVEMBER 3, 1999

Motors:
(A) Libras 6 x Edi23856 x 1/12. Based on ROII of 11.75% and weighted income tax rate of 36.575% (argumenton factor of 1.628003)
(3) Libra 9s x Libra 10
(C) Libra 9s x Libra 11

Theres Electric Consistor
Environmental Cost Recovery Classes (SCRC)
taxion of the Actual/Estimated Associat for the Period
April 1998 to December 1998

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

12. Retail Beargy-Related Recoverable Costs (B) 13. Fedall Domand-Related Recoverable Costs (C)	10. Energy Jurisdictional Factor 11. Demand Antisdictional Factor	9. Total System Recoverable Exponent (Lines 7+5) a. Recoverable Costs Allocated to Energy b. Recoverable Costs Allocated to Designed	I. Investment Expenses a. Depreciation b. Ameritantien c. Diameritanten d. Property Tooss a. Other	7. Return on Average Net Investment a. Equity Component Grossed Up For Tuces (V) b. Debt Component (Line 6 x 2.52% x 1/12)	6. Average Net Investment	2. Plant-in-Service/Depreciation Base         \$5,017,734           3. Lenc. Accommission Depreciation         (617,238)           4. CWIP - Non-Interest Bearing         9           5. Net Interciprent (Lines 2 + 3 + 4)         \$4,400,476	I. Investments     A. Expensioners/Additions     Centings to Plant     Retirements     Other	Deginning of Period Amount
0 005155	0.9063903	94,236 34,236	13,604	32,307	4390,674	5,017,734 (630,862) 0	8	Actual Age-98
\$1,769 0 \$2,769	0.9405529	54,104 54,104	13,694	32,207 10,293	4,380,070	5,017,734 (644,466) 0 4,373,268	8000	Actual May-98
\$1,649 0	0.9227622	o stou	0 0 0	13,107	1366,466	5,017,734 (658,070) 0 4,359,664	6,008	Actual Jan-98
0 0 0 0 0 0 0 0	0.9267095	55,840 55,840	0 0 0 0 0 0 0 0 0	12,007	4352,862	5,017,734 (671,674) 0 4,346,060	0008	Actual Actual
21,902 0 21,902	0.9316706	55,708 55,708 0	13,694 0 0 0	10,197	BETGET	\$,017,734 (685,278) 0 4,332,456	0008	Actual Aug-98
52,637 0 532,637	0.9471090	0 SESTSS SESTSS	13,604	31,507	43,634	(694,442) 0 4,314,453	0008	Sep-98
\$3,729 0 \$53,729	0.9690670	55,444	13,694	31,707	4,312,050	5,017,734 (712,486) 0 4,305,248	0008	Estimated Oct-98
\$25.55	0.9052523	o CILCYS	13,604	31,607	4,298,446	5,017,734 (726,090) 0 4,291,644	0008	Estimated Nov-98
22,634 0 22,634	0.902003	00155	11,604	10,069	DEPECT	3,017,734 (739,694) 0 4,278,040	0008	Estimated Dec-98
473,914 0 3473,914		0 201715 201715	122,496	91,773				End of Period Amount

Beaized: Noaewber 3' 1999 bobw 47-8e

Notes:

(A) Lines 6 x \$.8238% x 1/12. Bused on ROE of 11.75% and weighted income tax rate of 38.575% (expansion factor of 1.628003)

(B) Line 9a x Line 10

(C) Line 9b x Line 11

12. Rated 13. Rated 14. Total 3

PAGE 2 of 8 DOCUMENT NO. 15
DOCUMENT NO. 15 (KOZ-I) DOCKET NO. 980007-EI
TAMPA ELECTRIC COMPAN

Form 42 - 82 Page 2 of 8

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MIL OF IN	nissions M	
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mestoponia	MO79	6m Dolla
用を見る	He Bend	
Ratum on	Persient	-
	Z	2

			Beginning of	Actual	Asmell	Actual Nay-88	Act at	Actual Ang-98	Entimated Sep-98	Cost-98	Nov-98	Decit	Period Amount	
5	The	Description	Village Adjournment											
	1. Investments			1	5	s	8	8	R	8	8	R		
	a. Expenditures/Additi	/Additions		2 *				0	•	0	0	0		
	b. Clearings to Plant	Plant		•				•	•	0	0	•		
	c, Retirements						•	0	•	e	•	•		
			***************************************	114,770	116 7998	111,998	\$66.211	866,211	11779	117,998	\$66,211	266,211		
	2. Mant-in-Survice/Depreciation Base	Depreciation Base	Ann seem	CO 260	G8450	(36,519)	(38,396)	000,773	(92,159)	CHELT	(95,900)	(977,7813)		
	3. Last: Accessished Depreciation	wast Dependance.	CAN AND	CHALAND.	CION ACED	(30,405)	(236,408)	(234,400)	(236,400)	(236,408)	(236,400)	(236,400)		
	A Coher (A)	Canama C. Stores 2 + 3 + 40	\$548,915	\$60,030	545,161	50,384	541,600	538,530	537,633	535,776	533,899	532,622		
		retinent		rugas	346,100	54,723	34CD4	540,469	538,592	\$11,000	SCHOOL	532,961		
	7, Batam on Aven	7. Ratum on Average Net Investment		7 000	7107	4,000	1,988	3374	3,960	390	3,933	3,919	235,768	
401	a. Equity Comp. b. Deld Compos	<ol> <li>Equity Component Grossed Up For Taxes (5)</li> <li>Debt Component (Line 6 x 18296 x 1/12)</li> </ol>		3 13	200	123	rrr1	1,270	1,366	1361	123	1,43	10'11	
	1. Involuent Exp.	same				1 623	1811	1.877	1377	EST.	E	1,877	14,993	
	4. Depreciation			1,417	4		•			•	0	0	•	
	b, Americadon			•				0	•	•	9	0	•	
	e. Dismendame	T T		•			•	0	•	•	0	۰	•	
4	d. Property Taxes	B					•	•	•	۰	0	0	0	
7				7104	2176	7.18	7,140	1111	7,103	7,085	7,047	1,040	64,092	
	9. Total System R.	9. Total System Recoverable Expenses (Lines 7 et.)		7 104	7.136	7,158	7,140	1,121	7,103	7,085	7,067	7,042	64,092	
	b. Recoverable	<ol> <li>Recoverable Costs Automated to Emergy</li> <li>Recoverable Costs Allocated to Demand</li> </ol>			•	•	•	•	•	•	•	•	•	
	to D. and Building States	Showed Burther		810039-610	0.9405329	0.9227622	0.9287095	0.9316706	0.9477099	0.5690670	0.9689599	0.9502395		
	11. Denney Juinfedonal Fasts	Selfonal Partor		6,506,903	0.0075-099	9000000	0.915000	0.9729481	0.9151953	CHAIN	CCCCCC	CONTRACT		
	12. Retail Dougs-R	12. Retail Energy-Related Resoverable Costs (C)		9	630	\$6,605	1079	, 60 ,	em,	99879	200	· S	185'00	
	13. Retail Demand	13. Retail Demand-Related Recoverable Costs (U)		0 708 79	14,149	\$6,605	10795	16,634	\$4,727	\$4,846	16,348	14,497	185,082	
D	14. Total Parisdictio	14. Total Suitsdictional Reportment Costs (Linus 12 + 12)			-				THE STATE OF THE PARTY OF THE P		ALCOHOLD STATE			

(KOZ-1) FILED: OCTOBER 5, 1998 DOCUMENT NO. 15 PAGE 3 of 8

**FORM 42-8E REVISED: NOVEMBER 3, 1998** 

Para data

April 1998 to De

Description     Description     Description     Descriptions     Descriptions			Actual	Actual	Actind		Estimated	Entirested	Estimated		End of
Prestmenta Dependa	Regioning of Period Amount	App-98	May-98	Jun-08	10-100	Ang-98	Sep-88	Out-88	Nov-98	Dec-98	Period Amount
a. Expenditums/Additions		2000	0.00	8	(00)	8	2	2	8	2	
the state of the state of the state of		Contract				•	e	•	•	•	
A Country to rash						•	0	•	•	•	
c. Reticements d. Other						0	•	0	0	•	
	VIO 463-001	14110	01.70	6/2/22	227,082	527,000	527,082	527,082	589,752	589,752	
2. Plant-in-Service/Doymeletton Base	CONTRACTOR	050 M	CHES	(9/8/9)	CITED	(13,747)	(15,664)	(17,911)	(19,464)	(21,415)	
3. Lear. Accumulated Depreciation	(10)	0			•	•	•	•	•	•	
4. CWIP - Nen-Esteres Boaring	2000	(300 392)	(2007)002)	(266,000)	(2006,0000)	(366,000)	(266,900)	(2006,000))	(266,980)	(266,000)	
4s. Other (A)  5. Not horsestment (Lines 1+3+4)	200,2023	341,769	338,867	336,876	311,522	310,005	XOT, DES	306,171	304,254	362,337	
6. Average Net Investment		100,000	290,313	THE	30(3)00	310,964	300,047	307,130	385,213	362,296	
7. Return on Average Het Investment			*	, 484	3.88	1327	TITI	228	2344	2,230	\$20,297
a. Equity Component General Up For Taxes (3) b. Debt Component (Line 6 x 2.82% x 1/12)		99	38	Ā	E C	102	E.	Ħ	717	ET.	6,67
2. Investment Expenses					201	1 017	1912	1917	1917	1,917	11,117
a. Depreciation		1,789	3					•	0	•	•
		9 6		. 0			•	•	0	•	•
-			•			0	•	•	•	•	•
O 4. Property These						0	0	0	0	•	0
		7.000	1688	\$ 200	3,101	4935	4915	1007	403	4389	40,911
9. Total System Recoverable Expenses (Lines 7+8)	10	,	°			•	•	•	•	•	•
Recoverable Costs Allocated to Densird     Recoverable Costs Allocated to Densird		1007	897	528	1017	4005	4915	(m)	453	4369	4011
10. Energy Jurisdictional Parter 11. Demond Jurisdictional Parter		0.9485018	0.5405559	6.5927622 6.5927826	0.9127255	2073:120.0 IB-02270.0	0.9151953	CARROSTE CALCALIS	0.902523	SUCCESSOR OF SUCCE	
12. Ratal Energy-Related Recoverable Costs (C)		•	•	•	°	0	0 7		91177	6007	e RIS
13. Betail Demand-Related Recommiste Costs (D) 24. The Land Colone Becommister Costs (Lines 12+13)	2+13	20,05	8008	202	8475	24,585	34,408	\$4,480	\$4,416	5000	\$40,151

FORM 42-8E REVISED: NOVEMBER 3, 1998

Note:

(A) Expressents the Capital Costs of the Gurnan Ignition Oil Tank currently recovered through base rates.

(A) Expressents the Capital Costs of the Gurnan Ignition Oil Tank currently recovered through base rates.

(B) Lines 6: EXT2894 at 1712. Based on ROE of 11.7294 and weighted income tax rate of 28.57594 (expansion factor of 1.678002)

(C) Line 9: x Line 16:

ion of the Actual/Enfanced Armount for the April 1998 to December 1998

Description  L. Investments  L. Expendients/Additions	to Samuello	Action	Acres	Acton	Actual	Ann de	Sandi	Onto	Nos-98	Decit	Period Assessed
breciness L Espendin	Period Amount	Apr-98	May-va	Author		ar Bey				1	
Expende		90 49	2	200	25,082	237718	SICH	\$135,696	200,342	87.979	
			-	0		•	•	0	0	0	
A. Chestage to Plant						•	•	•	0	•	
e. Referenceis				•	•	•	•	•	•	•	
	1	•	٠	•	•	0		819,512	405,021	40,000	
2. Plant-lo-Tervice/Depreciation Rese	R '	•	9 6	•				CLUD	(1,850)	0.070	
3. Least. Accountship Depreciation				4000	11.136	22, 22	C265.345	•	•		
4, CWIP - Mon-Indusest Bearing 5. Met Inventoment (Lines 2 + 3 + 4)	200	3,004	413	450%	11,136	22,588	54,983	232,400	43,971	440,936	
		1,710	3,590	\$115	5	14,362	38,785	164,685	333,189	07,48	
7. Return on Average Net Investment		1	7	21	G	10	8	5	2,630	ALL A	27,50
<ol> <li>Equity Component Grossed Up For Taxos (A)</li> <li>Dobt Component (Lins 6 x 1.82% x .0.12)</li> </ol>		2 4	-	12	8	9	18	382	70	1,038	1,422
8. Investment Deporture			•	•	•	6	٠	E	ET.	1,034	1,074
4. Depreciation		9 6		•				•	•	0	•
h. Amerikation		9 6	•				•	•	•	•	•
c. Disneydoners			•	. 0			•	•	•	•	•
d. Proporty Taxes	1				•	•	0	•	•	0	0
	l)		7	8	8	¥	85	1,800	4013	5,300	12,678
9. Total System Leceverable Expenses (Lines 7 +1)				0	•	•	•	0	•	•	•
Representable Costs Allocated to Energy     Paccommobile Costs Allocated to Demond		2	×	R	0	164	8	1,969	4013	5,309	HOLE
10. Theory Judicificational Partor		81053940	625209670	0.9327622	0.9387895	64316706	0.9471090	0.5690679	0.9689580	0.9502395	
11. Demand Imisdictional Factor		0.9062903	0.9076.099	620020	distance of	1007700	espone.				
		0		•	•	•	•	•	•	•	•
12. Retail Energy-Related Recoveration Costs (11)		12	×	*	11	151	ā	1,710	300	479	10,952
13. Retail Demissio-Kanada Accordents Course (v.)	1	\$15	131	346	223	1151	1001	\$1,710	23,622	14,739	216,932

**FORM 42-8E REVISED: NOVEMBER 3, 1998** 

(A) Lieus 6 x EEIRSW x VII. Bared on ROE of 11.79% and weighted income tax rate of 38.575% (expension factor of 1.625002) (B) Lieu Su x Lieu 10 (C) Lieu Su x Lieu 11

10			Deginning of	Acting	Actes	Actual	Actual	Action	Estimated	Defension	Entirepted Viv. 00	Presented Presented	Desired Americal
L. Extractional Additional Additi	The same	Description	Period Amount	App-98	Mary-98	Jan-98	100	Angest	R OF	***************************************			
L Primarisman Molecularia (Animal Parist	1. In	- 41		90.0	05.13	27.756	23,920	14,189	\$0,022	89790	2334617	\$141,799	
A Conting to Place A Statement of the Conting to A Statement	4	ж		4		•	0	•	•	•	•	•	
4. Other Commission    2. Head-control Cognition Bines    3. Lear Anomaloid Displaced    3. Lear Anomaloid Displaced    4. Coffee    5. Lear Anomaloid Displaced    6. Ano	d	ő		• •		•		0	0	0	0	0	
1. Think is Control Departation library (1.1) and the Control of t	44	Retirements				•	•	•	•	•	•	•	
1. Then de formic Dependent Bases 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	•	1	1	•	•	•	•				•	111,000	
A common to be common to the common of the common to the common	2.11	unt-de-Sarvice/Depreciation Base	R *	9 6	•			•	•	•	•	950	
4. Cottr-1 the harmest blancing 5. Maintained 5. Maintained 6 harmest class 2 3 3 4 5 1 4 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	74	sax. Accumulated Depreciation.	- 1		100	CENT	9.734	13913	56,935	301,584	676,201	•	
6. Annuga Nat invariant         6. Annuga Nat invariant         2777         4564         7764         11,190         482,933         7           1. Reform on Annuga Nat invariant         1. Reform on Annuga Nat invariant         2. Equipment Change of Edit Nat 173         2. Equipment Change of Edit Nat 174	0 %	WAP - Nun-baterest Beschig as hourstooned O lane 2 + 3 + 0	200	196	1,508	3,804	1,734	13913	\$6,935	対策	100,300	\$17,546	
T. Externs on Average Not Investment  a. Equity Component Channel Ly For Teast (A)  b. Date Component Channel Channel Ly For Teast (A)  c. Equity Component Channel Channel Channel  c. Externation  b. Americanism  c. Discontinuous  c. Discontinuous  d. Transforms  d. Transform	3	yeage Net Investment	9	5	1722	1636	1,364	11,819	35,04	179,360	481,853	10,MT	
L Equity Component Chemed Liby For Thank (A)  L Equity Component Chemed Liby For Thank (A)  L Environment Expension  L En	7.8	etum on Average Not Investment		•	1	7	4	B	360	1,518	282	5,480	510,870
a. Department (Jane 5 x Lates 2 12)         b. Debt Component (Jane 5 x Lates 2 12)         c. Department         c. Char         d. Department (Jane 7+4)         d. T.	4	Equity Component Grossed Up For Terms (A)				=	. 23	n	8	Đ	17.0	1,755	3,64
a. Dependent         b. Americant Dependent         0	4	. Debt Component (Line 6 x L.E. N. 1/12)		•									
a. Digrandistion b. Americanists c. Colors c.	44	- R		•	4	•	•			•	•	254	824
A. Amendantian.  a. Dimensional control of the cont	•	. Department						•	•	6	•	•	•
a. Dismuniforment a. Communiforment b. Ensymptory Thoris a. Communiforment b. Ensymptory Thoris b. Ensymptory Thor	4	. Americadon		•		•	•	۰		0	•	•	•
6. Other  4. Other  5. Theyardy Thous  4. Other  9. The Light of the Control of t	4	百		•	•			•	•	•	•	•	•
a. The Specim Recoverable Exponent (Joint 745)         1.79         4,744           a. Recoverable Exponent (Joint 745)         0         4,744           18. Energy Joinfactional Peater         18. Energy Joinfactional Peater         0         0         0         1,739         4,744         1,144         1		25				•		•	•	0	0	0	0
4744 4744 4744 4744 4744 4744 4744 474		!			×	8	10	113	X	1,739	4744	8,199	15,298
6.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9.7	total System Recoverable Expenses (Lines 7 +5)			9	•	•	•	•	0	0	•	•
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0		Recoverable Costs Allocated to Energy     Recoverable Costs Allocated to Demand		· a	×	. 29	2	III	R	1,739	4744	8,199	15,298
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	18.	hengy Judisfictional Pactor Demand Judisfictional Pactor		0.9023918	625204679	6.5127623 6.5147852	0.9363696	3073162.0 1204525.0	0.9171999	0.9020670	0.5628530	0.9502395	
11 34 42 69 106 314 1,91 4,255					•		•	•	•	0	•	•	•
111 EN 110 1810 1100 1110 1170 1170	171	Annual Exercity-Related Resoversable Costs (E)			77	4	9	106	314	181	4,095	1,405	11857
	1	13. Refull Durand-Related Recoverable Code (U.)		1115	101	50	\$59	\$106	2314	11,291	14,795	\$1,405	

FORM 42-8E REVISED: NOVEMBER 3, 1998

Notice:
(A) Lines 6 x EXECUTA. Based on ROE of 11.79% and weighted income tax min of 26.577% (expension factor of 1.628003)
(E) Line 9a x Line 10
(C) Line 9b x Line 11

		(in Dollars)	3							
Beginning of	Anthe	Actual May-48	Actual	Marie and Marie	Ang-95	Enfanted Sep-88	Enfimeled On-98	Estimated New-92	Estimated Dec-96	End of Period Amount
								1		
	6430	2	\$1,019	\$1,219	\$000	11,000	20,000	\$13,000	STORES.	
		9			•	0	•	0	•	
	•			•	•	•	•		•	
		0		•	•	0	0	e	•	38
			0 0		•	•	•		3K 500	
2	•	•	0	•			•			
•	•	0	•	•	•	•			3	
• •	200	820	1,589	3,000	4641	7,444	10,644	25,644	0	
25	570	510	6857	3,908	464	7,644	10,644	25,644	36,40	
	R	529	1,079	3,688	ALL P	6,144	9,144	18,144	31,043	
			٠	ş	P	2	6	81	II.	202
	4 -	• -			2	Z	11	9	t	
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				×	9	8	=	176	209	
	•				•	•	•	•	•	
			=	n	4	8	22	176	100	
	***************************************	A 0.00579	6.0773073	6.0307895	9031030	0.9471000	6300003	0.94202300	59028659	
	0.9053003	0303689	0.5247096	0000000	(LECTION)	0.9151957	0.9147815	6.9052523	0.9000003	
	•	•	•	•	•		•	•		1
	• •		2	24		*		159	334	200
						-	100	4919	- Cara-	

FORM 42-8E REVISED: NOVEMBER 3, 1998

Notice:
(A) Librar 6 x EZZENs x 1/12. Based on ROE of 11,72% and weighted insome for mis of 28,372% (expansion factor of 1,628002)
(D) Librar 9 x Libra 19
(C) Librar 5 x Libra 11

• Estimated Exponditure

	Registrates of	Actual	Acted	Acting	Actes	Annual	Edmand Septim	Entimated Only 10	Entimated Non-18	Entirested Doo-99	End of Period Amount
The control of the co	Author Acceptant										
1. Investments		104	8	1111	2163	2706	23,000	23,000	239,593	230,000	
Don't				0	•	•	0	0	•	•	
B. Cheatings to Plant			•	•	•	0	•	•	•	•	
4. Authorities		•	•	•	•	0	•	0	0	•	,
	1	•	•	•	•		•	•	•	87,490	
2. Plant-in-Service/Depreciation Base	R *	•				•	•	•	•	(acr)	
A Lenz: Ascumdated Deprivatedon			• 6	2.00	1,011	1,907	1907	7,807	37,400	•	
4. CWIP - Non-Internst Beauting 5. Met Investment (Lines 2 + 3 + 4)	of of	E	FES.	848	1911	1,007	4,887	7,907	37,400	\$1,262	
6. Avunge Net herestment		H	E	710	82	1,489	mor.	Con	11,604	6,331	
7. Return on Average Net Investment				٠		2	7	*	166	25	222
<ol> <li>Equity Component General Up For Tuess (A)</li> <li>Dabt Component Give 6 x 1.82% x 1/12)</li> </ol>		-	5			•	•	n	a	146	
				5.						90.0	20
a. Depreziation		•	•	•	0 0						•
b. Americation		•	0 0	•	•						•
c. Dismanfament			•	•		. 0		0	0	•	
4. Property Thans		•					•	0	0	0	•
			•		•	9	×	9	219	27	1001
9. Total System Recoverable Expenses (Lana 7 +4)						•	•	0	•	•	
<ul> <li>Recoverable Costs Allocated to Essergy</li> <li>Recoverable Costs Allocated to Detresed</li> </ul>			•	1	•	n	Ħ	g	219	20	
10. Energy Jurisdictional Pactor 11. Comment Indisdictional Pactor		0.9003903	6.5405529	0,927,922	0.9303099	0.9316706	0.9477090	0.96005TB 0.9147E15	0.962539	6.9502395	
		•		•	0	•	•	•	•	•	
12. Retail Exergy-Related Recoverable Costs (8)			. •				B	*	198	670	181
<ol> <li>Rohal Dumand-Ralatica Recoverable Costs (U.)</li> <li>Total Swindfollowal Recoverable Costs (Lines 12 + 13)</li> </ol>		23	23	×	22	813	823	\$26	\$198	5670	
14. Total Justicinational Accordance Cores (seems as 1-7)											

FORM 42-8E REVISED: NOVEMBER 3, 1998

Notes:
(A) Lines 6.x R.ECORN x 1/12. Based on ROE of 11.75% and weighted income tax rate of 38.575% (expansion factor of 1.628902)
(3) Line 9.x Line 10
(3) Line 9.x Line 11

\* Estimated Expenditure