



**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

**FLORIDA POWER & LIGHT COMPANY**

**TESTIMONY OF LEONOR M. BUSTO**

**DOCKET NO. 970002-EG**

**November 19, 1997**

1 **Q. Please state your name and business address.**

2 **A. My name is Leonor M. Busto, and my business address is: 9250 West Flagler**  
3 **Street, Miami, Florida 33174.**

4

5 **Q. Who is your employer and what position do you hold?**

6 **A. I am employed by Florida Power & Light Company (FPL) as an Administration**  
7 **and Regulatory Supervisor.**

8

9 **Q. Have you previously testified in this docket?**

10 **A. Yes, I have.**

11

12 **Q. What are your responsibilities and duties as an Administration an**  
13 **Regulatory Supervisor?**

14 **A. I am responsible for Regulatory and Administration Support of the Marketing**  
15 **Programs, including all training, budgeting, accounting and system support**  
16 **function related to the Demand Side Management programs. I am also**

1 responsible for preparing the Energy Conservation Cost Recovery (ECCR)  
2 Forecast and True-Up.

3

4 **Q. What is the purpose of your testimony?**

5 **A.** The purpose of my testimony is to submit for Commission review and approval (1)  
6 the net underrecovery to be carried forward in the April 1998 through March 1999  
7 period and (2) the conservation-related revenues and costs associated with FPL's  
8 energy conservation programs for the period October 1, 1996 through  
9 September 30, 1997.

10

11 **Q. Are you sponsoring an exhibit in connection with your testimony?**

12 **A.** Yes. I am sponsoring Exhibit LMB-1, which consists of Schedules CT-1 through  
13 CT-6. While I am sponsoring all of Exhibit LMB-1, parts of the exhibit were  
14 prepared by Mr. David Wasielewski, Senior Accountant, who is available to  
15 respond to any questions which the parties or the Commission may have regarding  
16 those parts. Exhibit LMB-1, Table of Contents, Page 1 of 1, identifies the portions  
17 prepared by Mr. Wasielewski and by me.

18

19 **Q. What is the adjusted net true-up amount which FPL is requesting for the**  
20 **October 1996 through September 1997 period?**

21 **A.** FPL has calculated and is requesting approval of an underrecovery of  
22 \$2,943,933 as the adjusted net true-up amount for the October 1996 through  
23 September 1997 period. FPL seeks to carry forward this underrecovery to the

1 calculation of its Conservation Cost Recovery factor for the April 1998 through  
2 March 1999 period.

3

4 **Q. How was this adjusted net true-up for the October 1996 through September**  
5 **1997 period calculated?**

6 **A.** Consistent with the Commission's directive in Order No. PSC-93-0709-FOF-EG,  
7 FPL calculated a "final" true-up for the October 1996 through September 1997  
8 period. The calculation is shown on Schedule CT-1, Pages 1 through 3.

9

10 Page 1 of 3 of Schedule CT-1 shows the calculation of the final true-up for the first  
11 six months of the period. Page 2 of 3 of Schedule CT-1 shows the calculation of  
12 the final true-up for the second six months of the period. Please note that for the  
13 second six month period, unlike the first six month period, there is no previously  
14 approved Estimated/Actual true-up; consequently, the final true-up for the second  
15 six month period is the actual variance between expenses and revenues plus the  
16 applicable interest.

17

18 To calculate the adjusted net true-up for the entire period October 1996 through  
19 September 1997, the final true-up for the first six months, an underrecovery of  
20 \$507,801, was added to the final true-up for the second six months, an  
21 underrecovery of \$2,436,130 resulting in a net underrecovery of \$2,943,933. This  
22 calculation is shown on Page 3 of 3 Schedule CT-1.

1 Q. Your answer to the prior question supports an underrecovery of \$2,943,933  
2 for the period October 1996 through September 1997 to be carried forward  
3 and collected from the customers during the April 1998 through March 1999  
4 period. However, Schedule CT-3, Page 5 of 6, Line 11, shows an end of  
5 period underrecovery of \$11,475,154 at September 30, 1997. Please explain  
6 the difference.

7 A. The amounts, while related, are not and should not be the same. The first amount  
8 shows the underrecovery for a period of time, while the second amount shows the  
9 net over/underrecovery position at the end of the period.

10

11 The \$2,943,933 shown on Schedule CT-1, Page 3 of 3, represents the  
12 underrecovery for the 12 month period ended September 30, 1997. The  
13 \$11,475,154 shown on Schedule CT-3, Page 5 of 6, Line 11, represents the net of  
14 period underrecovery at a specific moment in time, September 30, 1997. The  
15 difference between these two amounts is \$8,531,223.

16

17 In calculating FPL's current factor, the Commission approved an underrecovery of  
18 \$17,062,446, which FPL is collecting in the current 12 month period. As of  
19 September 30, 1997, half of that \$17,062,446 has been collected, and the other  
20 half (\$8,531,223), will be collected over the remaining six months. The sum of  
21 the underrecovery for the 12 month period ended September 30, 1997,  
22 (\$2,943,933) and the remaining portion of the Commission approved  
23 underrecovery (\$8,531,223), which is being collected over the remaining six

1 months, is the balance of \$11,475,154 at September 30, 1997, the end of the  
2 period.

3

4 Q. Are all costs listed in Schedule CT-2 attributable to approved programs?

5 A. Yes they are.

6

7 Q. How did your actual program expenditures for October 1996 through  
8 September 1997 compare to the Estimated/Actual and original estimated  
9 projections for that period presented at the March 1997 Hearing?

10 A. At the March 1997 Hearing, total expenditures for October 1996 through March  
11 1997 were projected to be \$78,205,171 and April 1997 through September 1997  
12 were projected to be \$95,529,649, for a period total of \$173,734,820. The actual  
13 expenditures for October 1996 through March 1997 were \$78,024,909 and April  
14 1997 through September 1997 were \$93,551,294, for a period total of  
15 \$171,576,203. This represents a period variance of \$2,158,617 less than  
16 projected. This variance is shown on Schedule CT-2, Page 4 of 4, Line 33, and is  
17 explained in Schedule CT-6.

18

19 Q. Was the calculation of the adjusted net true-up amount for the period  
20 October 1996 through September 1997 period performed consistently with  
21 the prior true-up calculations in this and the predecessor conservation cost  
22 recovery dockets?

23 A. FPL's adjusted net true-up was calculated consistent with the methodology set  
24 forth in Schedule 1, page 2 of 2 attached to Order No. 10093, dated June 19, 1981,

1 but it was adapted to reflect that there was no Estimated/Actual true-up for part of  
2 the final true-up period. The schedules prepared under the direct supervision of  
3 Mr. Wasielewski detail this calculation.

4

5 **Q. What was the source of the data used in calculating the actual net true-up**  
6 **amount?**

7 **A. Unless otherwise indicated, the data used in calculating the adjusted net true-up**  
8 **amount is taken from the books and records of FPL. The books and records are**  
9 **kept in the regular course of our business in accordance with generally accepted**  
10 **accounting principles and practices, and provisions of the Uniform System of**  
11 **Accounts as prescribed by this Commission.**

12

13 **Q. Does that conclude your testimony?**

14 **A. Yes, it does.**

<u>Schedule</u>	<u>Prepared By</u>
CT-1, Pages 1 - 3 of 3	David Wasielewski
CT-2, Pages 1 & 2 of 4, Lines 1-11	Leonor M. Busto
CT-2, Pages 1 & 2 of 4, Lines 12-19	David Wasielewski
CT-2, Pages 3 & 4 of 4	Leonor M. Busto
CT-3, Pages 1 & 2 of 6	Leonor M. Busto
CT-3, Pages 3 - 6 of 6	David Wasielewski
CT-4, Pages 1 - 8 of 8, Line 1	Leonor M. Busto
CT-4, Pages 1 - 8 of 8, Lines 2 - 10	David Wasielewski
CT-5, Page 1 of 1	Leonor M. Busto
CT-6, Pages 1 - 47 of 47	Leonor M. Busto

**ENERGY CONSERVATION COST RECOVERY  
 FINAL NET TRUE-UP FOR THE SIX MONTHS  
 OCTOBER 1996 THROUGH MARCH 1997**

LINE  
 NO.

1	Actual End of Period True-up for the period October 1996 through March 1997		
2	Principal	(17,203,791)	
3	Interest	<u>(366,456)</u>	<u>(\$17,570,247)</u>
4	Less - Estimated/Actual True-up for the same period approved at the March 1997 Hearing		
5			(16,726,524)
6	Principal		
7	Interest	<u>(335,922)</u>	<u>(\$17,062,446)</u>
8	Final Net True-up for the period October 1996 through March 1997		<u>(\$507,801)</u>

( ) Reflects Underrecovery

**ENERGY CONSERVATION COST RECOVERY  
FINAL NET TRUE-UP FOR THE SIX MONTHS  
APRIL THROUGH SEPTEMBER 1997**

LINE  
NO.

1	Actual true-up for the period April 1997 through September 1997	
2	Principal	(\$1,948,219)
3	Interest	(487,911)
4	Actual true-up for period April through September 1997	<u>(\$2,436,130)</u>

Since this six month period is part of the annual factor for the period April 1997 through  
March 1998, no Estimated /Actual period has been approved by the Commission.

( ) Reflects Underrecovery

**ENERGY CONSERVATION COST RECOVERY  
FINAL NET TRUE-UP FOR THE TWELVE  
MONTHS ENDED SEPTEMBER 30, 1997**

LINE  
NO.

1	Final net true-up for period October 1996 through March 1997 per CT-1, Page 1	(\$507,803)
2	Actual true-up for the period April 1997 through September 1997 per CT-1, Page 2	(2,436,130)
3	Adjusted Net True-up for the period October 1996 through September 1997 (to be carried over to the April 1998 through March 1999 period)	<u>(\$2,943,933)</u>

( ) Reflects Underrecovery

Energy Conservation Cost Recovery  
 Analysis of Program Costs  
 Actual VS Estimate for the Period  
 October 1995 through March 1997

	Actual	Estimated (a)	Difference
1. Depreciation & Return	\$ 14,572,966	\$ 13,369,692	\$ 1,203,274
2. Payroll & Benefits	10,900,728	11,733,208	(832,480)
3. Materials & Supplies	158,031	185,904	(27,873)
4. Outside Services	2,922,780	4,230,248	(1,307,468)
5. Advertising	2,844,683	1,964,319	880,364
6. Incentives	46,580,936	46,007,960	572,956
7. Vehicles	5,618	4,928	690
8. Other	<u>691,790</u>	<u>1,487,303</u>	<u>(795,513)</u>
9. SUB-TOTAL	\$ 78,677,530	\$ 78,983,582	\$ (306,053)
10. Program Revenues	-	-	-
11. TOTAL PROGRAM COSTS	\$ 78,677,530	\$ 78,983,582	\$ (306,053)
12. Amounts included in Base Rates	<u>652,620</u>	<u>778,411</u>	<u>(125,791)</u>
13. SUBTOTAL	\$ 78,024,909	\$ 78,205,171	\$ (180,262)
14. ECCR Revenues (Net of Revenue Taxes)	<u>70,243,526</u>	<u>70,901,057</u>	<u>(657,531)</u>
15. True-Up Before Interest (Line 14 - Line 13)	\$ (7,781,383)	\$ (7,304,114)	\$ (477,269)
16. Interest Provision	(366,456)	(335,922)	(30,534)
17. Prior Period True-Up (Oct '95 - Sept '96)	7,640,855	7,640,855	-
18. Deferred True-Up from Prior Period (Oct '95 - Sept '96)	<u>(17,063,264)</u>	<u>(17,063,264)</u>	<u>-</u>
19. End of Period True-Up	\$ <u>(17,570,247)</u>	\$ <u>(17,062,446)</u>	\$ <u>(507,801)</u>

(a) From Estimated/Actual Filing. Approved 3/97 Hearing.  
 For Lines 15 - 19 ( ) reflects an underrecovery.  
 Totals may not add due to rounding.

Energy Conservation Cost Recovery  
 Analysis of Program Costs  
 Actual VS Estimate for the Period  
 April 1997 Through September 1997

	<u>Actual</u>	<u>Estimate</u>	<u>Difference</u>
1. Depreciation & Return	\$ 15,484,822	\$ 14,285,815	\$ 1,199,007
2. Payroll & Benefits	9,256,880	11,281,544	(2,004,675)
3. Materials & Supplies	191,199	138,742	52,457
4. Outside Services	3,279,594	4,585,064	(1,305,470)
5. Advertising	1,324,500	3,185,428	(1,860,928)
6. Incentives	63,939,808	61,307,275	2,632,533
7. Vehicles	6,073	3,996	2,077
8. Other	<u>745,490</u>	<u>1,471,635</u>	<u>(726,145)</u>
9. SUB-TOTAL	\$ 94,228,351	\$ 96,239,499	\$ (2,011,148)
10. Program Revenues	<u>                    </u>	<u>                    </u>	<u>                    </u>
11. TOTAL PROGRAM COSTS	\$ 94,228,351	\$ 96,239,499	\$ (2,011,148)
12. Amounts included in Base Rates	<u>677,056</u>	<u>709,850</u>	<u>(32,792)</u>
13. SUBTOTAL	\$ 93,551,294	\$ 95,529,649	\$ (1,978,357)
14. ECCR Revenues (Net of Revenue Taxes)	<u>100,134,298</u>	<u>95,529,649</u>	<u>4,604,649</u>
15. True-Up Before Interest (Line 14 - Line 13)	\$ 6,583,004	\$ 0	\$ 6,583,004
16. Interest Provision	(487,911)	0	(487,911)
17. Prior Period True-Up (Oct '96 - Mar '97)	(17,062,446)	(8,531,223)	(8,531,223)
18. Deferred True-Up from Prior Period (Oct '96 - Mar '97)	<u>(507,801)</u>	<u>                    </u>	<u>(507,801)</u>
19. End of Period True-Up	\$ <u>(11,475,154)</u>	\$ <u>(8,531,223)</u>	\$ <u>(2,943,933)</u>

(a) Apr-Sept '97 projection was included with twelve month projection approved at the March 1997 Hearing. For Lines 15 - 19 ( ) reflects an underrecovery. Totals may not add due to rounding.

**CONSERVATION PROGRAM COSTS**  
OCTOBER 1979 THROUGH SEPTEMBER 1987

Program Title	Depreciation & Return	Payroll & Benefits	Maintenance & Supplies	Outside Services	Advertising	Incidentals	Vehicles	Other	Sub-Total (12 Mos.)	Program Revenues	Total (12 Mos.)
1. Residential Conservation Service Program	19,823	\$ 3,171,265	\$ 55,469	\$ 220,657	\$ 2,458,660	\$ 38,845	\$ 5,417,806	\$ 418,229	\$ 6,325,303		\$ 6,325,303
2. Residential Building Envelope Program		559,079	368	87				51,208	6,169,980		6,169,980
3. Residential Heat Recovery Water Heating Pgm.		33,673	157					2,378	183,143		183,143
4. Residential Load Management (On Call)	27,001,531	1,948,708	132,323	869,807				37,394,341	67,791,244		67,791,244
5. Duct System Testing & Repair Program		4,094,332	71,385	474,892	108,120			(1,469,523)	11,823,178		11,823,178
6. Residential Air Conditioning Program	29,884	847,028	2,916	813,305				71,545	26,190,012		26,190,012
7. GS Load Management (Business On Call)		143,819	10	1,17,713				57,501	622,027		622,027
8. Cogeneration & Small Power Production		315,791	44	638,677				(21,736)	930,773		930,773
9. Commercial/Industrial Efficient Lighting		778,469	35	272,379				80,512	3,278,891		3,278,891
10. Commercial/Industrial Load Control	52,598	398,319	285	2,109				87,143	28,283,772		28,283,772
11. Business Energy Evaluation		870,658	38,172	364,172				138,569	2,771,705		2,771,705
12. CA Heating, Ventilation & AC Program		888,367	29	397,608				94,285	5,078,841		5,078,841
13. Efficient Motors Program		17,134		3,752				644	21,700		21,700
14. CA Off Peak Utility Charging Program		30,227		34				1,811	37,704		37,704
15. Business Custom Incentive Program		34,001		6,702				5,178	116,157		116,157
16. CA Building Envelope Program		288,778	4	78,714				37,368	3,124,677		3,124,677
17. Demand Load Control Trial Project		32,592		118,063				689	187,572		187,572
18. Res. Thermal Energy Storage Research Proj.		3,890							3,890		3,890
19. Res. New Home Construction Research Proj.	46,487	157,206	188	95,231	7,451			9,624	318,388		318,388
20. Cool Commercial Research Project		7,543		108,805				1,411	117,599		117,599
21. Res. Heat Pump Water Heating Research Proj.		6,864	3,740	30,000				3,047	43,651		43,651
22. Res. Solar Water Heating Research Proj.		5,095						33	5,118		5,118
23. Conservation Research & Development Program		97,638		(62,781)				7,070	43,925		43,925
24. CA Dehumidification Research Project		7,317		15,810				74	23,051		23,051
25. Natural Gas End-Use Technology RUD Project		37,785		157,791				10,352	221,878		221,878
26. CA Daylight Dimming Research Project		7,742		25,539				1,889	40,549		40,549
27. CA New Construction		5,895						8	6,911		6,911
28. Manufacturing Conservation Research & Dev.		8,898						227	9,125		9,125
29. Subsegment Program		8,898							9,125		9,125
30. Common Expenses	2,998,685	5,384,874	43,114	1,348,346				5,470	11,824,870		11,824,870
31. Total All Programs	\$ 30,057,708	\$ 20,157,897	\$ 348,230	\$ 6,202,374	\$ 4,189,183	\$ 110,520,744	\$ 11,891	\$ 1,437,280	\$ 172,905,881		\$ 172,905,881
32. LEISF- Included in Base Rates		1,329,678							1,329,678		1,329,678
33. Recoverable Conservation Expenses	\$ 30,057,708	\$ 18,827,819	\$ 348,230	\$ 6,202,374	\$ 4,189,183	\$ 110,520,744	\$ 11,891	\$ 1,437,280	\$ 171,578,203		\$ 171,578,203

Totals may not add due to rounding

CONSERVATION PROGRAM VARIANCE  
OCTOBER 1998 THROUGH SEPTEMBER 1997

Program Title	Depreciation & Return	Payroll & Benefits	Materials & Supplies	Outside Services	Advertising	Incentives	Vehicles	Other	Sub-Total	Program Revenues	Total (12 Mos.)
1. Residential Conservation Services Program											
2. Residential Building Envelope Program	(35)	(1,048,029)	48,873	(579,853)	(154,328)	1,058,537		(20,986)	707,685		(1,837,520)
3. Residential Heat Recovery Water Heating Pgm.		(183,585)	(817)	(120,704)	(28,155)	(18,932)		(15,894)	(94,894)		707,685
4. Residential Load Management ("On Call")	816,615	(423,097)	(35,574)	755,146		(3,011,571)	(3,223)	(215,155)	(2,116,859)		(2,116,859)
5. Duct System Testing & Repair Program	(52)	259,323	21,940	(69,909)	(341,623)	965,053	126	(233,237)	645,671		645,671
6. Residential Air Conditioning Program		(163,863)	152	299,908	(392,375)	4,519,070		(27,487)	4,235,353		4,235,353
7. GS Load Management ("Business On Call")		76,236	10	14,979		(108,386)		48,803	31,429		31,429
8. Cogeneration & Small Power Production		(71,172)	(129)	321,156	63,817	(834,306)		(91,300)	168,545		168,545
9. Commercial/Industrial Efficient Lighting		(92,667)	(1,715)	88,215		(8,473)		(785,469)	1,762,645		1,762,645
10. Commercial/Industrial Load Control	(22,480)	(222,001)	(2,782)	(89,863)	(144,976)	1,762,525	1,011	(34,785)	1,392,645		1,392,645
11. Business Energy Evaluation		39,287	5,776	(888)	(21,641)			(33,804)	(191,797)		(191,797)
12. Cfl Heating, Ventilating & AC Program		(200,759)		260,335		(274,091)		(30,407)	(287,451)		(287,451)
13. Efficient Motors Program		(28,105)		(89,305)		(123,046)		(5,004)	(254,090)		(254,090)
14. Cfl Peak Battery Charging Program		(9,339)		(28,257)		(30,945)		(8,389)	(75,909)		(75,909)
15. Business Custom Incentive Program		(22,893)		(36,908)		(255,792)		(1,043)	(315,948)		(315,948)
16. Cfl Building Envelope Program		(86,121)	4	13,835	29,266	(162,733)		(10,042)	(215,791)		(215,791)
17. Demand Load Control Trial Project		(2,043)		(77,736)		5,594		(1,906)	(76,101)		(76,101)
18. Res. Thermal Energy Storage Research Proj.		(5,765)		(41,250)	7,451			(7,986)	(50,011)		(50,011)
19. Res. New Home Construction Research Proj.		10,742	(443)	(21,382)				(3,727)	(7,440)		(7,440)
20. Cool Communities Research Project	(81)	(6,755)		16,605				(1,717)	10,163		10,163
21. Res. Heat Pump Water Heating Research Proj.		(8,168)	3,740	(112,500)				(3,271)	(116,219)		(116,219)
22. Res. Solar Water Heating Research Proj.		(7,988)		(80,000)				(3,889)	(101,855)		(101,855)
23. Conservation Research & Development Program		(1'38,211)		(443,810)				(36,388)	(976,409)		(976,409)
24. Cfl Dehumidification Research Project		2,150		15,610				(2,683)	15,077		15,077
25. Natural Gas End-Use Technology R&D Project		(34,194)		(84,049)				(2,835)	(414,443)		(414,443)
26. Cfl Daylight Dimming Research Project		(5,800)		(72,711)				6,082	(72,429)		(72,429)
27. Cfl New Construction		7,012		0				1,899	8,911		8,911
28. Marketing Conservation Research & Dev.		8,695		0				\$	3,703		3,703
29. Subsidized Program		8,668		0				227	8,895		8,895
30. Common Expenses			(11,360)	(2,369,881)			4,948	(887,033)	(1,899,838)		(1,899,838)
31. Total All Programs	\$ 2,402,281	\$ (2,837,155)	\$ 24,594	\$ (2,812,808)	\$ (880,554)	\$ 3,205,469	\$ 2,767	\$ (1,521,658)	\$ (2,317,200)		(2,317,200)
32. LESS: Included in Base Rates									(158,583)		(158,583)
33. Recoverable Conservation Expenses	\$ 2,402,281	\$ (2,678,572)	\$ 24,594	\$ (2,812,808)	\$ (880,554)	\$ 3,205,469	\$ 2,767	\$ (1,521,658)	\$ (2,158,617)		(2,158,617)

Totals may not add due to rounding

CONSERVATION PROGRAM COSTS

OCTOBER 1998 THROUGH MARCH 1997

Program Title	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	TOTAL (6 Mo.)
1. Residential Conservation Service Program	\$ 358,204	\$ 934,851	\$ 436,917	\$ 1,124,775	\$ 266,780	\$ 1,228,228	\$ 4,347,753
2. Residential Building Envelope Program	415,054	483,023	348,174	457,044	280,766	748,591	2,740,852
3. Residential Hot Recovery Water Heating Pgm.	16,002	18,583	18,618	12,450	10,884	15,165	89,520
4. Residential Load Management (On Call)	5,949,628	4,916,010	4,613,313	4,373,715	4,357,007	4,454,011	28,683,684
5. Duct System Testing & Repair Program	802,564	1,112,111	935,584	725,294	682,212	1,227,794	5,485,559
6. Residential Air Conditioning Program	2,189,218	2,243,064	1,589,62	1,308,714	1,169,353	1,950,735	10,452,248
7. GS Load Management (Business On Call)	68,864	84,715	172,282	84,875	69,756	31,590	539,862
8. Cogeneration & Small Power Production	32,852	34,379	35,131	26,713	19,787	37,859	185,921
9. Commercial/Industrial Efficient Lighting	216,596	265,704	244,865	176,233	363,818	268,062	1,535,276
10. Commercial/Industrial Load Control	2,308,532	2,275,415	2,087,831	2,040,858	2,071,931	2,119,633	12,904,200
11. Business Energy Evaluation	140,708	213,327	369,414	103,148	105,796	148,852	1,111,245
12. C/I Heating, Ventilating & AC Program	310,923	545,407	470,307	229,120	188,579	1,048,737	2,794,073
13. Efficient Motors Program	1,916	2,253	1,682	1,208	2,£71	3,841	13,581
14. C/I Off Peak Battery Charging Program	3,249	3,258	3,062	6,323	3,733	4,630	24,275
15. Business Custom Incentive Program	53,261	4,639	3,512	2,878	3,261	4,988	72,840
16. C/I Building Envelope Program	179,128	218,071	146,981	102,839	200,802	181,330	1,032,259
17. Demand Load Control Trial Project	42,128	17,790	16,326	4,115	28,581	40,000	148,938
18. Res. Thermal Energy Storage Research Project	769	717	717	717	501	439	3,860
19. Res. New Home Construction Research Project	43,997	38,833	43,871	14,895	15,916	29,645	187,157
20. Cool Communities Research Project	1,251	1,260	77,301	5,645	1,061	30,871	117,409
21. Res. Heat Pump Water Heating Research Project	3,098	1,335	30,974	977	735	838	37,957
22. Res. Solar Water Heating Research Project	1,071	970	970	970	645	457	5,083
23. Conservation Research & Development Program	(13,925)	20,193	27,812	4,490	18,837	(48,127)	9,289
24. C/I Dehumidification Research Project	520	45	13,689	428	2,917	1,669	19,288
25. Natural Gas End-Use Technology R&D Project	35,480	17,879	52,849	4,732	14,514	11,183	136,437
26. C/I Daylight Dimming Research Project					525	1,462	1,987
27. C/I New Construction					298	3,632	4,130
28. Marketing Conservation Research & Dev.						2,721	2,721
29. BuildSmart Program							0
30. Common Expenses	835,348	718,816	1,895,279	628,522	762,448	1,264,143	6,010,358
31. Total All Programs	\$ 13,991,634	\$ 14,180,647	\$ 13,578,434	\$ 11,440,686	\$ 10,641,931	\$ 14,844,198	\$ 76,877,530
32. LESS: Included in Base Rates	148,133	99,168	102,973	112,982	89,017	100,347	652,620
33. Recoverable Conservation Expenses	\$ 13,843,501	\$ 14,081,479	\$ 13,475,461	\$ 11,327,704	\$ 10,552,914	\$ 14,743,851	\$ 76,224,909
Totals may not add due to rounding							

CONSERVATION PROGRAM C-C-STS

APRIL 1997 THROUGH SEPTEMBER 1997

Program Title	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	TOTAL (6 Mo.)	TOTAL (12 Mo.)
1. Residential Conservation Services Program	\$ 388,029	\$ 304,377	\$ 282,199	\$ 225,322	\$ 373,180	\$ 408,493	\$ 1,977,570	\$ 6,325,303
2. Residential Building Envelope Program	580,166	569,594	394,727	558,597	577,456	548,798	3,429,328	6,169,960
3. Residential Heat Recovery Water Heating Prgm.	13,176	14,341	17,702	19,437	18,253	10,712	93,623	183,143
4. Residential Load Management (On Call)	6,343,160	6,722,360	6,576,991	6,352,469	6,394,640	6,737,690	39,127,560	67,791,244
5. Duct System Testing & Repair Program	1,141,499	1,082,463	1,273,334	1,070,495	1,028,639	841,199	6,437,619	11,923,178
6. Residential Air Conditioning Program	1,938,311	2,053,369	3,033,056	3,308,707	3,276,030	2,130,263	15,737,766	26,190,012
7. GS Load Management ("Business On Call")	67,093	70,149	90,735	64,405	69,542	(279,779)	82,145	622,027
8. Cogeneration & Small Power Production	24,683	214,615	58,218	144,635	138,270	184,431	744,852	930,773
9. Commercial/Industrial Efficient Lighting	323,038	246,248	254,078	203,640	235,717	478,694	1,741,415	3,276,691
10. Commercial/Industrial Load Control	2,183,183	2,188,063	2,265,027	2,342,105	2,179,818	2,201,376	13,359,572	26,263,772
11. Business Energy Evaluation	115,717	98,460	977,763	412,626	(72,926)	127,875	1,660,520	2,771,765
12. C/I Heating, Ventilating & A/C Program	324,418	369,820	567,096	276,562	457,907	295,965	2,281,768	5,075,841
13. Efficient Motors Program	1,046	1,151	1,107	1,138	1,099	1,778	8,119	21,700
14. C/I Off Peak Battery Charging Program	1,551	1,791	1,574	1,512	1,638	5,363	13,429	37,704
15. Business Customers Incentive Program	3,528	2,985	6,440	3,402	24,089	2,873	43,317	116,157
16. C/I Building Envelope Program	211,113	341,112	421,028	458,652	451,157	211,358	2,092,418	3,124,677
17. Demand Load Control Trial Project	5,138	7,349	12,497	2,837	9,192	1,521	36,634	187,572
18. Res. Thermal Energy Storage Research Project	30	0	0	0	0	0	30	3,690
19. Res. New Home Construction Research Project	13,041	13,113	11,274	43,357	40,113	6,343	129,241	318,396
20. Cool Communities Research Project	150	0	0	0	0	0	150	117,559
21. Res. Heat Pump Water Heating Research Proj.	3,995	376	201	432	407	293	5,894	43,651
22. Res. Solar Water Heating Research Project	30	0	2	0	0	0	32	5,118
23. Conservation Research & Development Program	4,439	2,762	2,893	2,827	2,803	18,901	34,845	43,925
24. C/I Dehumidification Research Project	759	703	703	703	503	362	2,733	23,001
25. Natural Gas End-Use Technology R&D Project	44,341	1,449	27,576	1,068	9,370	1,607	85,441	221,878
26. C/I Daylight Dimming Research Project	668	693	6,161	1,010	2,900	28,030	38,562	40,549
27. C/I New Construction	1,303	310	295	327	1,894	662	4,781	6,911
28. Marketing Conservation Research & Dev.	1,919	995	68	0	0	0	2,982	5,703
29. BuildSmart Program						8,895	8,895	8,895
30. Common Expenses						965,101	5,044,514	11,054,870
31. Total All Programs	\$ 813,267	\$ 747,569	\$ 1,001,232	\$ 749,625	\$ 767,700	\$ 965,101	\$ 5,044,514	\$ 11,054,870
32. LESS: Included in Base Rates	\$ 14,547,622	\$ 15,057,459	\$ 17,493,978	\$ 16,242,051	\$ 15,989,381	\$ 14,907,863	\$ 94,228,351	\$ 172,905,681
33. Recoverable Conservation Expenses	\$ 158,796	\$ 99,733	\$ 98,691	\$ 100,589	\$ 96,308	\$ 92,942	\$ 677,058	\$ 1,329,878
Totals may not add due to rounding	\$ 14,358,624	\$ 14,957,726	\$ 17,395,287	\$ 16,141,461	\$ 15,693,075	\$ 14,814,921	\$ 93,551,264	\$ 171,576,203

FLORIDA POWER & LIGHT COMPANY  
 CONSERVATION TRUE-UP & INTEREST CALCULATION  
 OCTOBER 1996 THROUGH MARCH 1997

	OCTOBER	NOVEMBER	DECEMBER	ACTUALS JANUARY	FEBRUARY	MARCH	TOTAL
<b>B. CONSERVATION PROGRAM REVENUES</b>							
1. a. RESIDENTIAL LOAD CONTROL CREDIT	\$0	\$0	\$0	\$0	\$0	\$0	\$0
b. C1 - PENALTIES							0
c. BUSINESS ENERGY EXPO							0
2. CONSERVATION CLAUSE REVENUES (NET OF REVENUE TAXES)	13,557,466	11,671,943	10,873,456	11,432,506	11,292,432	11,415,723	70,243,526
3. TOTAL REVENUES	13,557,466	11,671,943	10,873,456	11,432,506	11,292,432	11,415,723	70,243,526
4. ADJUSTMENT NOT APPLICABLE TO PERIOD - PRIOR TRUE-UP	1,273,476	1,273,476	1,273,476	1,273,476	1,273,476	1,273,476	7,640,855
5. CONSERVATION REVENUES APPLICABLE TO PERIOD (Line B3 + B4)	14,830,942	12,945,419	12,146,932	12,705,982	12,565,908	12,689,199	77,884,381
6. CONSERVATION EXPENSES (From CT-3, Page 1, Line 33)	13,843,501	14,061,479	13,475,461	11,327,704	10,552,914	14,743,851	78,024,909
7. TRUE-UP THIS PERIOD (Line B5 - Line B6)	987,441	(1,136,060)	(1,328,529)	1,378,278	2,012,994	(2,054,652)	(140,528)
8. INTEREST PROVISION FOR THE MONTH (From CT-3, Page 3, Line C10)	(43,124)	(49,443)	(64,197)	(70,416)	(65,609)	(73,667)	(366,456)
9. TRUE-UP & INTEREST PROVISION BEGINNING OF MONTH	7,640,855	7,311,696	4,852,729	2,186,535	2,220,921	2,894,830	7,640,855
a. DEFERRED TRUE-UP BEGINNING OF PERIOD	(17,063,264)	(17,063,264)	(17,063,264)	(17,063,264)	(17,063,264)	(17,063,264)	(17,063,264)
10. PRIOR TRUE-UP COLLECTED (REFUNDED)	(1,273,476)	(1,273,476)	(1,273,476)	(1,273,476)	(1,273,476)	(1,273,476)	(7,640,855)
11. END OF PERIOD TRUE-UP - OVER(Under) RECOVERY (Line B7+B8+B9+B9a+B10)	(99,751,568)	(\$12,210,544)	(\$14,676,729)	(\$14,842,343)	(\$14,166,434)	(\$17,570,247)	(\$17,570,247)

NOTES: ( ) Reflects Underrecovery

FLORIDA POWER & LIGHT COMPANY  
 CONSERVATION TRUE-UP & INTEREST CALCULATION  
 OCTOBER 1996 THROUGH MARCH 1997

	ACTUALS					TOTAL	
	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY		MARCH
<b>C. INTEREST PROVISION</b>							
1. BEGINNING TRUE-UP AMOUNT (Line B9+B9e)	(\$9,422,409)	(\$9,751,568)	(\$12,210,544)	(\$14,876,729)	(\$14,942,343)	(\$14,168,434)	(\$75,272,027)
2. ENDING TRUE-UP AMOUNT BEFORE INTEREST (Line B7+B9+B9e+B10)	(9,708,444)	(12,161,104)	(14,812,549)	(14,771,927)	(14,102,825)	(17,496,562)	(83,063,411)
3. TOTAL OF BEGINNING & ENDING TRUE-UP (Line C1+C2)	(\$19,130,853)	(\$21,912,672)	(\$27,023,093)	(\$29,648,656)	(\$29,045,168)	(\$31,664,996)	(\$159,325,438)
4. AVERAGE TRUE-UP AMOUNT (50% of Line C3)	(\$9,565,427)	(\$10,956,336)	(\$13,511,547)	(\$14,824,328)	(\$14,472,584)	(\$15,832,498)	(\$79,162,719)
5. INTEREST RATE - FIRST DAY OF REPORTING BUSINESS MONTH	5.44000%	5.38000%	5.45000%	5.95000%	5.45000%	5.43000%	N/A
6. INTEREST RATE - FIRST DAY OF SUBSEQUENT BUSINESS MONTH	5.38000%	5.45000%	5.95000%	5.45000%	5.43000%	5.74000%	N/A
7. TOTAL (Line C5+C6)	10.82000%	10.83000%	11.40000%	11.40000%	10.88000%	11.17000%	N/A
8. AVERAGE INTEREST RATE (50% of Line C7)	5.41000%	5.41500%	5.70000%	5.70000%	5.44000%	5.58500%	N/A
9. MONTHLY AVERAGE INTEREST RATE (Line C8 / 12)	0.45083%	0.45125%	0.47500%	0.47500%	0.45333%	0.46542%	N/A
10. INTEREST PROVISION FOR THE MONTH (Line C4 x C9)	(\$43,124)	(\$49,440)	(\$64,180)	(\$70,416)	(\$65,609)	(\$73,687)	(\$369,456)

NOTES: ( ) Reflects Underrecovery  
 N/A = Not Applicable

FLORIDA POWER & LIGHT COMPANY  
 CONSERVATION TRUE-UP & INTEREST CALCULATION  
 APRIL THROUGH SEPTEMBER 1997

	APRIL	MAY	JUNE	ACTUALS JULY	AUGUST	SEPTEMBER	TOTAL
<b>B. CONSERVATION PROGRAM REVENUES</b>							
1. a. RESIDENTIAL LOAD CONTROL CREDIT	\$0	\$0	\$0	\$0	\$0	\$0	\$0
b. CA - PENALTIES							0
c. BUSINESS ENERGY EXPO							0
2. CONSERVATION CLAUSE REVENUES (NET OF REVENUE TAXES)	13,580,141	14,319,170	17,010,659	18,119,890	18,437,451	18,656,987	100,134,298
3. TOTAL REVENUES	<u>13,580,141</u>	<u>14,319,170</u>	<u>17,010,659</u>	<u>18,119,890</u>	<u>18,437,451</u>	<u>18,656,987</u>	<u>100,134,298</u>
4. ADJUSTMENT NOT APPLICABLE TO PERIOD - PRIOR TRUE-UP	(1,421,871)	(1,421,871)	(1,421,871)	(1,421,871)	(1,421,871)	(1,421,871)	(8,531,223)
5. CONSERVATION REVENUES APPLICABLE TO PERIOD (Line B3 + B4)	<u>12,158,271</u>	<u>12,897,300</u>	<u>15,588,789</u>	<u>16,698,020</u>	<u>17,015,581</u>	<u>17,235,117</u>	<u>91,603,075</u>
6. CONSERVATION EXPENSES (From CT-3, Page 1, Line 33)	14,358,824	14,957,726	17,385,287	16,141,461	15,893,075	14,814,921	93,551,294
7. TRUE-UP THIS PERIOD (Line B5 - Line B6)	<u>(2,190,554)</u>	<u>(2,060,426)</u>	<u>(1,796,498)</u>	<u>568,558</u>	<u>1,122,505</u>	<u>2,420,195</u>	<u>(1,948,219)</u>
8. INTEREST PROVISION FOR THE MONTH (From CT-3, Page 3, Line C10)	(84,985)	(87,624)	(90,402)	(86,921)	(78,382)	(81,817)	(487,911)
9. TRUE-UP & INTEREST PROVISION BEGINNING OF MONTH	<u>(17,062,446)</u>	<u>(17,916,114)</u>	<u>(18,842,294)</u>	<u>(19,107,324)</u>	<u>(17,215,816)</u>	<u>(14,747,802)</u>	<u>(17,062,446)</u>
a. DEFERRED TRUE-UP BEGINNING OF PERIOD	(507,801)	(507,801)	(507,801)	(507,801)	(507,801)	(507,801)	(507,801)
10. PRIOR TRUE-UP COLLECTED (REFUNDED)	1,421,871	1,421,871	1,421,871	1,421,871	1,421,871	1,421,871	8,531,223
11. END OF PERIOD TRUE-UP - OVER(Under) RECOVERY (Line B7+B8+B9+B9a+B10)	<u>(\$19,423,915)</u>	<u>(\$19,190,095)</u>	<u>(\$19,615,125)</u>	<u>(\$17,723,617)</u>	<u>(\$15,255,603)</u>	<u>(\$11,475,154)</u>	<u>(\$11,475,154)</u>

NOTES: ( ) Reflects Underrecovery

FLORIDA POWER & LIGHT COMPANY  
 CONSERVATION TRUE-UP & INTEREST CALCULATION  
 APRIL THROUGH SEPTEMBER 1997

	APRIL	MAY	JUNE	ACTUALS JULY	AUGUST	SEPTEMBER	TOTAL
<b>C. INTEREST PROVISION</b>							
1. BEGINNING TRUE-UP AMOUNT (Line B9+B9a)	(\$17,570,247)	(\$18,423,915)	(\$19,150,095)	(\$19,615,125)	(\$17,723,617)	(\$15,255,603)	(\$107,738,602)
2. ENDING TRUE-UP AMOUNT BEFORE INTEREST (Line B7+B9+B9a+B10)	(19,339,900)	(19,062,471)	(19,524,723)	(17,638,696)	(15,179,241)	(11,413,537)	(101,355,598)
3. TOTAL OF BEGINNING & ENDING TRUE-UP (Line C1+C2)	(\$36,909,177)	(\$37,486,386)	(\$38,674,818)	(\$37,251,821)	(\$32,902,858)	(\$26,669,140)	(\$209,094,200)
4. AVERAGE TRUE-UP AMOUNT (50% of Line C3)	(\$17,954,589)	(\$18,743,193)	(\$19,337,409)	(\$18,625,911)	(\$16,451,429)	(\$13,304,570)	(\$104,447,100)
5. INTEREST RATE - FIRST DAY OF REPORTING BUSINESS MONTH	5.74000%	5.62000%	5.60000%	5.62000%	5.58000%	5.58000%	N/A
6. INTEREST RATE - FIRST DAY OF SUBSEQUENT BUSINESS MONTH	5.62000%	5.60000%	5.62000%	5.58000%	5.56000%	5.53000%	N/A
7. TOTAL (Line C5+C6)	11.36000%	11.22000%	11.22000%	11.20000%	11.14000%	11.09000%	N/A
8. AVERAGE INTEREST RATE (50% of Line C7)	5.68000%	5.61000%	5.61000%	5.60000%	5.57000%	5.54500%	N/A
9. MONTHLY AVERAGE INTEREST RATE (Line C8 / 12)	0.47333%	0.46750%	0.46750%	0.46667%	0.46417%	0.46208%	N/A
10. INTEREST PROVISION FOR THE MONTH (Line C4 x C5)	(\$84,983)	(\$87,854)	(\$90,409)	(\$89,921)	(\$78,360)	(\$61,817)	(\$487,911)

NOTES: ( ) Reflects Underrecovery.  
 N/A = Not Applicable

FLORIDA POWER & LIGHT COMPANY  
 Schedule of Capital Investment, Depreciation and Return  
 Residential Load Management ("On Call")  
 For the Period October 1996 through March 1997

Line No.	Description	Beginning of Period	October	November	December	January	February	March	Total	Line No.
1.	Investments (Net of Retirements)		\$630,351	\$327,815	\$350,280	\$937,597	\$2,060,309	\$5,724,410	\$10,360,762	1.
2.	Depreciation Base		110,559,228	110,887,043	111,237,324	112,174,920	114,285,229	119,989,039	n/a	2.
3.	Depreciation Expense (a)		1,579,510	1,609,548	1,634,327	1,682,924	1,747,029	1,978,559	10,219,898	3.
4.	Cumulative Investment (Line 2)	\$109,620,877	110,559,228	110,887,043	111,237,324	112,174,920	114,285,229	119,989,039	n/a	4.
5.	Less: Accumulated Depreciation (c)	63,891,176	65,460,898	67,070,233	68,694,191	70,377,115	72,137,206	74,363,164	n/a	5.
6.	Net Investment (Line 4 - 5)	<u>\$45,729,699</u>	<u>\$45,098,540</u>	<u>\$43,816,810</u>	<u>\$42,543,132</u>	<u>\$41,797,805</u>	<u>\$42,128,023</u>	<u>\$45,625,875</u>	n/a	6.
7.	Average Net Investment		45,423,119	44,467,875	43,179,971	42,170,489	41,982,914	43,877,239	n/a	7.
8.	Return on Average Net Investment									8.
a.	Equity Component (Line 7 * 4.9255%/12)		188,443	182,480	177,236	173,092	172,240	180,068		
b.	Equity Comp. grossed up for taxes		308,529	297,078	288,540	281,794	280,407	263,189	1,744,549	
c.	Debt Component (Line 7 * 4.3542%/12)		165,196	161,695	157,038	153,367	152,612	159,574	948,473	
9.	Total Return Requirements (Line 8b + 8c)		<u>488,728</u>	<u>468,763</u>	<u>445,579</u>	<u>435,161</u>	<u>433,020</u>	<u>452,774</u>	2,694,022	9.
10.	Total Depreciation & Return (Line 3 + 9)		<u>\$2,046,236</u>	<u>\$2,088,309</u>	<u>2,089,906</u>	<u>\$2,118,085</u>	<u>\$2,180,049</u>	<u>\$2,428,333</u>	\$12,913,918	10.

(a) Depreciation expense is based on the "Cradle-to-Grave" method of accounting.

(b) Return on Equity (ROE) is 12.0%, per FPSC Order No. PSC-93-1024-FOF-EI, Docket No. 930612-EI.

(c) March 1997 includes a reserve transfer of \$289,208 resulting from utilization of approximately 35 substations.

**FLORIDA POWER & LIGHT COMPANY**  
 Schedule of Capital Investment, Depreciation and Return  
 Commercial Industrial Load Control  
 For the Period October 1996 through March 1997

Line No.	Description	Beginning of Period	October	November	December	January	February	March	Total	Line No.
1.	Investments (Net of Retirements)		\$0	\$0	\$0	\$0	\$0	\$0	\$0	1.
2.	Depreciation Base		325,996	325,996	325,996	325,996	325,996	325,996	n/a	2.
3.	Depreciation Expense (a)		5,585	5,585	5,585	5,585	5,585	5,585	33,509	3.
4.	Cumulative Investment (Line 2)	\$325,996	325,996	325,996	325,996	325,996	325,996	325,996	n/a	4.
5.	Less: Accumulated Depreciation	275,733	281,317	288,902	292,487	298,072	303,656	309,241	n/a	5.
6.	Net Investment (Line 4 - 5)	<u>\$50,263</u>	<u>\$44,678</u>	<u>\$38,094</u>	<u>\$33,509</u>	<u>\$27,924</u>	<u>\$22,339</u>	<u>\$16,754</u>		6.
7.	Average Net Investment		\$47,471	\$41,886	\$38,302	\$30,717	\$25,132	\$19,547	n/a	7.
8.	Return on Average Net Investment									8.
	a. Equity Component (Line 7 * 4.9255%/12)	(b)	195	172	149	126	103	80	825	
	b. Equity Comp. grossed up for taxes		317	280	243	205	168	131	1,343	
	c. Debt Component (Line 7 * 4.3842%/12)		173	152	132	112	91	71	731	
9.	Total Return Requirements (Line 8b + 8c)		490	422	375	317	259	202	2,075	9.
10.	Total Depreciation & Return (Line 3 + 9)		<u>\$6,075</u>	<u>\$6,017</u>	<u>\$5,959</u>	<u>\$5,902</u>	<u>\$5,844</u>	<u>\$5,787</u>	<u>\$35,584</u>	10.

(a) Depreciation expense is based on the "Cradle-to-Grave" method of accounting.

(b) Return on Equity (ROE) is 12.0%, per FPSC Order No. PSC-93-1024-FOF-EI, Docket No. 930612-EI.

**FLORIDA POWER & LIGHT COMPANY**  
**Schedule of Capital Investment, Depreciation and Return**  
**ECCR Common**  
**For the Period October 1996 through March 1997**

Line No.	Description	Beginning of Period	October	November	December	January	February	March	Total	Line No.
1.	Investment (Net of Retirements)		(\$5,827)	(\$33,233)	\$5,046,595	\$2,426	\$1	\$3	\$5,009,965	1.
2.	Depreciation Base		<u>2,750,516</u>	<u>2,717,253</u>	<u>7,763,878</u>	<u>7,766,303</u>	<u>7,766,305</u>	<u>7,766,308</u>	n/a	2.
3.	Depreciation Expense (a)		<u>39,125</u>	<u>36,516</u>	<u>543,945</u>	<u>129,436</u>	<u>129,436</u>	<u>129,436</u>	<u>1,007,894</u>	3.
4.	Cumulative Investment (Line 2)	\$2,756,343	2,750,516	2,717,253	7,763,878	7,766,303	7,766,305	7,766,308	n/a	4.
5.	Less: Accumulated Depreciation	583,406	602,592	639,048	1,182,993	1,312,429	1,441,865	1,571,301	n/a	5.
6.	Net Investment (Line 4 - 5)	<u>\$2,192,937</u>	<u>\$2,147,924</u>	<u>\$2,078,205</u>	<u>\$6,580,885</u>	<u>\$6,453,874</u>	<u>\$6,324,440</u>	<u>\$6,195,007</u>		6.
7.	Average Net Investment		\$2,170,460	\$2,113,109	\$4,329,560	\$6,517,379	\$6,369,157	\$6,259,723	n/a	7.
8.	Return on Average Net Investment									8.
a.	Equity Component (Line 7 * 4.9255%/12) (b)		<u>8,509</u>	<u>8,673</u>	<u>17,771</u>	<u>26,751</u>	<u>26,225</u>	<u>25,694</u>	<u>114,023</u>	8a.
b.	Equity Comp. Grossed up for taxes (Line 8a/.61425)		14,504	14,120	28,931	43,551	42,694	41,829	165,629	8b.
c.	Debt Component (Line 7 * 4.3642%/12)		7,694	7,685	15,746	23,703	23,236	22,766	101,029	8c.
9.	Total Return Requirements (Line 8b + 8c)		<u>22,397</u>	<u>21,805</u>	<u>44,677</u>	<u>67,254</u>	<u>65,930</u>	<u>64,595</u>	<u>266,658</u>	9.
10.	Total Depreciation & Return (Line 3 + 9)		<u>\$61,522</u>	<u>\$58,321</u>	<u>\$588,622</u>	<u>\$196,689</u>	<u>\$195,366</u>	<u>\$194,031</u>	<u>\$1,294,552</u>	10.

(a) Depreciation expense is based on the "Cradle-to-Grave" method of accounting.

(b) Return on Equity (ROE) is 12.0%, per FPSC Order No. PSC-93-1024-FOF-EI, Docket No. 930612-EI.

**FLORIDA POWER & LIGHT COMPANY**  
**Schedule of Capital Investment, Depreciation and Return**  
**Investing Equipment**  
 For the Period October 1998 through March 1997

Line No.	Description	Beginning of Period	October	November	December	January	February	March	Total
1.	Investment (Net of Retirements)		\$0	\$3,474	\$0	\$0	\$0	\$0	\$3,474
2.	Depreciation Base		2,555,658	2,559,132	2,559,132	2,559,132	2,559,132	2,559,132	n/a
3.	Depreciation Expense (a)		42,415	42,734	42,444	42,768	42,768	42,768	255,957
4.	Cumulative Investment (Line 2)	\$2,555,658	2,559,658	2,559,132	2,559,132	2,559,132	2,559,132	2,559,132	n/a
5.	Less: Accumulated Depreciation	1,252,165	1,294,560	1,337,314	1,379,756	1,422,546	1,465,334	1,508,122	n/a
6.	Net Investment (Line 4 - 5)	\$1,303,493	\$1,265,078	\$1,221,818	\$1,179,374	\$1,136,586	\$1,093,797	\$1,051,009	
7.	Average Net Investment		\$1,262,265	\$1,241,448	\$1,200,598	\$1,157,860	\$1,115,101	\$1,072,403	n/a
8.	Return on Average Net Investment								
a.	Equity Component (Line 7 * 4.9250% / 12)		5,263	5,086	4,926	4,753	4,577	4,402	28,019
b.	Equity Comp. grossed up for taxes (Line 8a/.61425)		8,569	8,298	8,023	7,758	7,492	7,168	47,243
c.	Debt Component (Line 7 * 4.3642% / 12)		4,663	4,515	4,396	4,211	4,056	3,900	25,712
9.	<b>Total Return Requirements (Line 8b + 8c)</b>		<b>13,232</b>	<b>12,811</b>	<b>12,389</b>	<b>11,949</b>	<b>11,508</b>	<b>11,068</b>	<b>77,965</b>
10.	Total Depreciation & Return (Line 3 + 9)		\$55,647	\$55,544	\$54,833	\$54,738	\$54,296	\$53,654	\$328,912

(a) Depreciation expense is based on the "Cradle-to-Grave" method of accounting.

(b) Return on Equity (ROE) is 12.0%, per FP9C Order No. PSC-83-1024-POF-EL, Docket No. 830012-EL.

**ALLOCATION OF DEPRECIATION AND RETURN ON INVESTMENT TO THEIR RESPECTIVE PROGRAMS**

Program	Depreciation Return	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Window Treatment - Program 2	Depreciation Return	0	0	0	0	0	0	0	0
Residential Ceiling Insulation - Program 3	Depreciation Return	0	0	0	0	0	0	0	0
Residential Building Envelope - Program 4	Depreciation Return	5,060	5,128	5,063	0	0	0	0	15,311
Residential Lead Management ("On Call") - Program 7	Depreciation Return	17,814	17,948	17,827	0	0	0	0	53,589
Duct System Testing & Repair Program - Program 7	Depreciation Return	23,372	23,309	23,050	0	0	0	0	69,730
Residential Air Conditioning Program - Program 8	Depreciation Return	7,835	7,862	7,840	0	0	0	0	23,397
Residential New Construction-Program 26	Depreciation Return	3,705	3,587	3,469	0	0	0	0	10,761
Common Expenses - Program 34	Depreciation Return	0	0	0	0	42,768	42,768	42,768	128,365
Grand Total for all programs	Total	\$55,647	\$55,544	\$54,833	\$54,738	\$54,296	\$53,654	\$53,654	\$328,912

FLORIDA POWER & LIGHT COMPANY  
 Schedule of Capital Investment, Depreciation and Return  
 Residential Load Management ("On Call")  
 For the Period April through September 1997

Line No.	Description	Beginning of Period	April	May	June	July	August	September	Total	Line No.
1.	Investments (Net of Retirements)		\$2,595,742	\$1,632,010	\$1,681,523	(\$31,454,346)	\$2,523,169	\$1,329,213	(\$21,692,690)	1.
2.	Depreciation Base		122,585,381	124,217,391	125,898,914	94,444,568	98,967,736	98,296,949	n/a	2.
3.	Depreciation Expense (a)		2,104,385	2,167,306	2,214,687	1,519,383	1,615,316	1,589,371	11,207,447	3.
4.	Cumulative Investment (Line 2)	\$119,989,639	122,585,381	124,217,391	125,898,914	94,444,568	98,967,736	98,296,949	n/a	4.
5.	Less: Accumulated Depreciation	74,363,184	76,550,685	78,560,575	80,760,839	49,903,002	51,406,943	53,004,210	n/a	5.
6.	Net Investment (Line 4 - 5)	<u>\$45,626,455</u>	<u>\$46,034,696</u>	<u>\$45,656,816</u>	<u>\$45,138,074</u>	<u>\$44,541,566</u>	<u>\$45,560,793</u>	<u>\$45,292,739</u>		6.
7.	Average Net Investment		45,830,571	45,845,751	45,397,445	44,839,820	45,051,180	45,426,766	n/a	7.
8.	Return on Average Net Investment)									8.
a.	Equity Component (Line 7 * 4.9255%/12)		189,115	186,178	186,338	184,049	184,916	186,458		
b.	Equity Comp. grossed up for taxes		306,252	306,354	303,358	299,632	301,044	303,554	1,820,193	
c.	Debt Component (Line 7 * 4.3642%/12)		168,678	166,733	165,103	163,075	163,844	165,210	960,643	
9.	Total Return Requirements (Line 8b + 8c)		<u>472,930</u>	<u>473,087</u>	<u>468,461</u>	<u>462,707</u>	<u>464,888</u>	<u>468,763</u>	2,810,836	9.
10.	Total Depreciation & Return (Line 3 + 9)		\$2,577,315	\$2,637,393	2,683,148	\$1,982,089	\$2,080,203	\$2,058,134	\$14,019,283	10.

(a) Depreciation expense is based on the "Cradle-to-Grave" method of accounting.

(b) Return on Equity (ROE) is 12.0%, per FPSC Order No. PSC-93-1024-FOF-EI, Docket No. 930612-EI.

**FLORIDA POWER & LIGHT COMPANY**  
**Schedule of Capital Investment, Depreciation and Return**  
**Commercial Industrial Load Control**  
**For the Period April through September 1987**

Line No.	Description	Beginning of Period	April	May	June	July	August	September	Total	Line No.
1.	Investments (Net of Retirements)		\$0	\$0	\$0	\$0	\$0	\$0	\$0	1.
2.	Depreciation Base		325,996	325,996	325,996	325,996	325,996	325,996	n/a	2.
3.	Depreciation Expense (a)		5,585	5,585	5,585	0	0	0	16,755	3.
4.	Cumulative Investment (Line 2)	\$325,996	325,996	325,996	325,996	325,996	325,996	325,996	n/a	4.
5.	Less: Accumulated Depreciation	309,241	314,825	320,410	325,995	325,995	325,995	325,995	n/a	5.
6.	Net Investment (Line 4 - 5)	<u>\$16,755</u>	<u>\$11,169</u>	<u>\$5,585</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	6.
7.	Average Net Investment		\$13,962	\$8,377	\$2,793	\$0	\$0	\$0	n/a	7.
8.	Return on Average Net Investment		57	34	11	0	0	0	103	8.
a. Equity Component (Line 7 * 4.9255%/12) (b)										
b. Equity Comp. grossed up for taxes										
c. Debt Component (Line 7 * 4.3642%/12)										
9.	Total Return Requirements (Line 8b + 8c)		144	86	29	0	0	0	259	9.
10.	Total Depreciation & Return (Line 3 + 9)		<u>\$5,729</u>	<u>\$5,671</u>	<u>\$5,614</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$17,014</u>	10.

(a) Depreciation expense is based on the "Cradle-to-Grave" method of accounting.

(b) Return on Equity (ROE) is 12.0%, per FPSC Order No. PSC-83-1024-FOF-EI, Docket No. 930612-EI.

FLORIDA POWER & LIGHT COMPANY  
 Schedule of Capital Investment, Depreciation and Return  
 ECCR Component  
 For the Period April through September 1997

Line No.	Description	Beginning of Period	April	May	June	July	August	September	Total	Line No.
1.	Investment (Net of Retirements)		\$4	\$2	\$6	\$13	\$0		\$24	1.
2.	Depreciation Base		7,766,311	7,766,313	7,766,319	7,766,332	7,766,332	7,766,332	n/a	2.
3.	Depreciation Expense (a)		129,436	129,436	129,436	129,439	129,439	129,439	776,625	3.
4.	Cumulative Investment (Line 2)	\$7,766,308	7,766,311	7,766,313	7,766,319	7,766,332	7,766,332	7,766,332	n/a	4.
5.	Less: Accumulated Depreciation (c)	1,571,301	1,700,737	1,830,173	1,959,609	2,089,016	2,218,455	2,347,894	n/a	5.
6.	Net Investment (Line 4 - 5)	<u>\$6,195,007</u>	<u>\$6,065,574</u>	<u>\$5,936,140</u>	<u>\$5,806,710</u>	<u>\$5,677,316</u>	<u>\$5,547,877</u>	<u>\$5,418,438</u>		6.
7.	Average Net Investment		\$6,130,290	\$6,000,857	\$5,871,425	\$5,742,013	\$5,612,596	\$5,483,157	n/a	7.
8.	Return on Average Net Investment									8.
a.	Equity Component (Line 7 * 4.9255% /12) (b)		25,162	24,631	24,100	23,569	23,037	22,506	143,005	8a.
b.	Equity Comp. grossed up for taxes (Line 8a/.61425)		40,984	40,069	39,234	38,370	37,505	36,640	232,812	8b.
c.	Debt Component (Line 7 * 4.3842% /12)		22,295	21,824	21,353	20,883	20,412	19,941	128,709	8c.
9.	Total Return Requirements (Line 8b + 8c)		<u>63,279</u>	<u>61,893</u>	<u>60,588</u>	<u>59,252</u>	<u>57,917</u>	<u>56,581</u>	<u>369,521</u>	9.
10.	Total Depreciation & Return (Line 3 + 9)		\$192,695	\$191,360	\$190,024	\$188,691	\$187,356	\$186,020	\$1,138,146	10.

(a) Depreciation expense is based on the "Cradle-to-Grave" method of accounting.

(b) Return on Equity (ROE) is 12.0%, per FFSC Order No. PSC-93-1024-FOF-EL, Docket No. 930612-EL.

(c) July includes a reserve transfer of \$(32.02)

FLORIDA POWER & LIGHT COMPANY  
 Schedule of Capital Investment, Depreciation and Return  
 Monitoring Equipment  
 For the Period April through September 1997

Line No.	Description	Beginning of Period	April	May	June	July	August	September	Total	Line No.
1.	Investment (Net of Retirements)		\$0	\$0	\$0	\$0	\$0	\$0	\$0	1.
2.	Depreciation Base		2,559,132	2,559,132	2,559,132	2,559,132	2,559,132	2,559,132	n/a	2.
3.	Depreciation Expense (a)		42,788	42,788	42,788	42,652	42,652	42,652	256,321	3.
4.	Cumulative Investment (Line 2)	\$2,559,132	2,559,132	2,559,132	2,559,132	2,559,132	2,559,132	2,559,132	n/a	4.
5.	Less: Accumulated Depreciation (c)	1,508,122	1,550,911	1,593,699	1,636,487	1,682,034	1,724,687	1,767,339	n/a	5.
6.	Net Investment (Line 4 - 5)	\$1,051,009	\$1,008,221	\$965,433	\$922,644	\$877,097	\$834,445	\$791,793		6.
7.	Average Net Investment		\$1,029,815	\$986,827	\$944,039	\$899,871	\$855,771	\$813,119	n/a	7.
8.	Return on Average Net Investment									8.
a.	Equity Component (Line 7 * 4.9255% /12) (b)		4,226	4,051	3,875	3,694	3,513	3,338	22,695	8a.
b.	Equity Comp. grossed up for taxes (Line 8a/.61425)		6,890	6,594	6,308	6,013	5,718	5,433	36,948	8b.
c.	Debt Component (Line 7 * 4.3642% /12)		3,745	3,589	3,433	3,273	3,112	2,957	20,109	8c.
9.	<b>Total Return Requirements (Line 8b + 8c)</b>		10,685	10,183	9,742	9,286	8,831	8,391	57,657	9.
10.	<b>Total Depreciation &amp; Return (Line 3 + 9)</b>		\$53,413	\$52,971	\$52,630	\$51,938	\$51,483	\$51,043	\$313,378	10.

(a) Depreciation expense is based on the "Cradle-to-Grave" method of accounting.  
 (b) Return on Equity (ROE) is 12.0%, per FPSC Order No. PSC-99-1024-FOF-EI, Docket No. 930612-EI.  
 (c) July includes a reserve transfer of \$2,896.13.

Docket No. 970002-EG  
Exhibit No. \_\_\_\_\_  
Florida Power & Light Co.  
(LMB-1)  
Schedule CT-5  
Page 1 of 1

**Reconciliation and Explanation of  
Differences between Filing and FPSC Audit  
Reports for Months: October 1996 through September 1997**

The audit has not been completed as of the date of this filing.

Docket No. 970002-EG  
Exhibit No. \_\_\_\_\_  
Florida Power & Light Co.  
(LMB-1)  
Schedule CT-6  
Page 1 of 47

### **PROGRAM DESCRIPTION AND PROGRESS**

**Program Title:** Residential Conservation Service

**Program Description:** An energy audit program designed to assist residential customers in making their homes more energy efficient through the installation of conservation measures and the implementation of conservation practices.

**Program Accomplishments for October 1996 through September 1997:** During this period 57,695 energy audits were completed. The estimate for this period was 73,861 energy audits.

**Program Fiscal Expenditures for October 1996 through September 1997:** Total expenditures were \$6,325,303 or \$1,837,520 less than projected due to fewer audits performed than anticipated.

**Program Progress Summary:** Program inception to date, 1,411,408 energy audits have been completed.

## PROGRAM DESCRIPTION AND PROGRESS

**Program Title:** Residential Building Envelope Program

**Program Description:** A program designed to encourage qualified customers to install energy-efficient building envelope measures that cost-effectively reduce FPL's coincident peak air conditioning load and customer energy consumption.

**Program Accomplishments for October 1996 through September 1997:** During this period 53,695 installations were completed. The estimate for this period was 51,388 installations.

**Program Fiscal Expenditures for October 1996 through September 1997:** Total expenditures were \$6,169,980 or \$707,665 more than projected due to more installations than anticipated.

**Program Progress Summary:** Program inception to date, 567,696 installations have been completed.

Docket No. 970002-EG  
Exhibit No. \_\_\_\_\_  
Florida Power & Light Co.  
(LMB-1)  
Schedule CT-6  
Page 3 of 47

## PROGRAM DESCRIPTION AND PROGRESS

**Program Title:** Residential Heat Recovery Water Heating Program

**Program Description:** A program designed to promote the replacement electric water heating equipment with heat recovery units.

**Program Accomplishments for October 1996 through September 1997:** During this period 1,117 installations were completed. The estimate for this period was 1,043 installations.

**Program Fiscal Expenditures for October 1996 through September 1997:** Total expenditures were \$183,143 or \$94,894 less than projected due to the average cost per installation being lower than anticipated.

**Program Progress Summary:** Program inception to date, 34,372 installations have been completed. On October 27, 1997, the Commission granted the termination of FPL's Residential Heat Recovery Water Heating Program. (PSC-97-1351-FOF-EG.)

### **PROGRAM DESCRIPTION AND PROGRESS**

**Program Title:** Residential Load Management Program ("On Call")

**Program Description:** A program designed to offer voluntary load control to residential customers.

**Program Accomplishments for October 1996 through September 1997:** Installation of equipment at ten additional substations and 55,860 installations were completed during this period. The estimate for the period was 47,074 installations.

**Program Fiscal Expenditures for October 1996 through September 1997:** Total expenditures were \$67,791,244 or \$2,116,859 less than projected. This program is deemed on target with a slight variance (3%).

**Program Progress Summary:** Program inception to date, installation of equipment at 310 substations has been completed, and there are 521,049 active installations in customers' homes.

### **PROGRAM DESCRIPTION AND PROGRESS**

**Program Title:** Duct System Testing and Repair Program

**Program Description:** A program designed to identify air conditioning duct system leaks and repair leaks by qualified contractors.

**Program Accomplishments for October 1996 through September 1997:** During this period 55,531 installations were completed. The estimate for this period was 41,059 installations.

**Program Fiscal Expenditures for October 1996 through September 1997:** Total expenditures were \$11,923,178 or \$645,671 more than projected due to more installations than anticipated.

**Program Progress Summary:** Program inception to date, 201,378 installations have been completed.

Docket No. 970002-EG  
Exhibit No. \_\_\_\_\_  
Florida Power & Light Co.  
(LMB-1)  
Schedule CT-6  
Page 6 of 47

### **PROGRAM DESCRIPTION AND PROGRESS**

**Program Title:** Residential Air Conditioning Program

**Program Description:** A program designed to provide financial incentives for residential customers to purchase a more efficient unit when replacing an existing air conditioning system.

**Program Accomplishments for October 1996 through September 1997:** During this period 82,248 installations were completed. The estimate for this period was 72,845 installations.

**Program Fiscal Expenditures for October 1996 through September 1997:** Total expenditures were \$26,190,012 or \$4,235,353 more than projected due to more installations than anticipated.

**Program Progress Summary:** Program inception to date, 325,635 installations have been completed.

## PROGRAM DESCRIPTION AND PROGRESS

**Program Title:** General Service Load Management Program ("Business On Call")

**Program Description:** This program is designed to offer voluntary load control of central air conditioning to customers in the GS-1 rate class.

**Program Accomplishments for October 1996 through September 1997:** During this period total reduction was 8.0 MW. The estimate for this period was 5.6 MW.

**Program Fiscal Expenditures for October 1996 through September 1997:** Total expenditures were \$622,027 or \$31,429 more than projected due to underestimating payroll expenses in the projection.

**Program Progress Summary:** Program inception to date, total reduction is 10.7 MW and 6,792 installations.

## PROGRAM DESCRIPTION AND PROGRESS

**Program Title:** Cogeneration and Small Power Production

**Program Description:** A program intended to facilitate the installation of cogeneration and small power production facilities.

**Program Accomplishments for October 1996 through September 1997:** FPL received 1,014 MW of capacity at time of system peak and 6,577.7 GWh of purchase power from ten cogenerators and five small power producers. The estimate for the period was expected to include 1,010 MW of capacity at time of system peak and 8,047.8 GWh of purchase power.

**Program Fiscal Expenditures for October 1996 through September 1997:** Total expenditures were \$930,773 or \$168,545 more than projected due to unanticipated legal costs related to two projects.

**Program Progress Summary:** Total MW under contract (facility size) is 1,010 MW of which 884.1 MW is committed capacity.

### **PROGRAM DESCRIPTION AND PROGRESS**

**Program Title:** Commercial/Industrial Efficient Lighting

**Program Description:** A program designed to encourage the installation of energy efficient lighting measures in commercial/industrial facilities.

**Program Accomplishments for October 1996 through September 1997:** During this period total reduction was 15,181.61 kW. The estimate for this period was 9,517.63 kW.

**Program Fiscal Expenditures for October 1996 through September 1997:** Total expenditures were \$3,276,691 or \$785,449 less than projected due to the average cost per kW being lower than anticipated.

**Program Progress Summary:** Program to date, total reduction is 174,035 kW.

## **PROGRAM DESCRIPTION AND PROGRESS**

**Program Title:** Commercial/Industrial Load Control

**Program Description:** A program designed to offer voluntary load control to commercial/industrial customers with a controllable load of 200 kW or more.

**Program accomplishments for October 1996 through September 1997:** During this period the demand reduction capability from program participants increased from 409.3 MW to 425.7 MW at the generator. The target reduction for the period was 416 MW at the generator.

**Program Fiscal Expenditures for October 1996 through September 1997:** Total expenditures were \$26,263,772 or \$1,392,645 more than projected due to increase in participation and billing adjustments made during this period.

**Program Progress Summary:** Program to date, participation in this program totals 425.7 MW at the generator. As requested in Docket No. 881106-EI, Order No. PSC-92-0687-FOF-EI, Page 11 of 47, lists the customers that transferred from C/I Load Control Rate to a Firm Rate during this period.

**Customers that transferred from C/I Load Control Rate to a Firm Rate**

<u>Customer Name</u>	<u>Effective Date</u>	<u>Firm Rate</u>	<u>Remarks</u>
Customer No. 1	1/97	GSD-1 (72)	Reduction in customer operations has led to controllable load to temporarily be under 200 kW. Customer no longer qualifies for CILC Rate. Load will be tied to new facility which will be served on a Non-Firm basis.
Customer No. 2	9/97	GSD-1 (72)	Reduction in customer operations has led to controllable load to temporarily be under 200 kW. Customer no longer qualifies for CILC Rate. Load will be tied to new facility which will be served on a Non-Firm basis.

## PROGRAM DESCRIPTION AND PROGRESS

**Program Title:** Business Energy Evaluation

**Program Description:** This program is designed to provide a free evaluation of commercial and industrial customers' existing and proposed facilities and encourage energy efficiency by identifying DSM opportunities and providing recommendations to the customer.

**Program Accomplishments for October 1996 through September 1997:** During this period 5,686 energy evaluations were completed. The estimate for this period was 6,481 energy evaluations.

**Program Fiscal Expenditures for October 1996 through September 1997:** Total expenditures were \$2,771,765 or \$191,797 less than projected due to advertising which was canceled.

**Program Progress Summary:** Program inception to date, 37,760 energy evaluations have been completed.

### PROGRAM DESCRIPTION AND PROGRESS

**Program Title:** C/I Heating, Ventilating and Air Conditioning Program

**Program Description:** A program designed to reduce the current and future growth of coincident peak demand and energy consumption of commercial and industrial customers by increasing the use of high efficiency, ventilating and air conditioning (HVAC) systems.

**Program accomplishments for October 1996 through September 1997:** During this period total demand reduction was 21,503.64 kW. The estimate for this period was 20,494.84 kW.

**Program Fiscal Expenditures for October 1996 through September 1997:** Total expenditures were \$5,075,841 or \$267,451 less than projected. This program is deemed on target with a slight variance (5%).

**Program Progress Summary:** Program inception to date, total reduction is 102,387 kW.

## PROGRAM DESCRIPTION AND PROGRESS

**Program Title:** Efficient Motors Program

**Program Description:** A program designed to encourage qualified customers to select a high efficiency motor over a standard efficiency motor at replacement or new installation.

**Program Accomplishments for October 1996 through September 1997:** During this period there were no installations completed. The estimate for this period was 490 kW.

**Program Fiscal Expenditures for October 1996 through September 1997:** Total expenditures were \$21,700 or \$254,090 less than projected due to low program activity during this period.

**Program Progress Summary:** Program inception to date, total reduction is 372 kW. On October 27, 1997, the Commission granted the termination of FPL's Efficient Motors Program. (PSC-97-1350-FOF-EG.)

**PROGRAM DESCRIPTION AND PROGRESS**

**Program Title:** C/I Off Peak Battery Charging Program

**Program Description:** The objective of this program is to reduce the current coincident peak demand and the future growth of coincident peak demand by shifting the coincident kW load due to battery charging

**Program accomplishments for October 1996 through September 1997:** During this period program total reduction was 102.3 kW. The estimate for the period was 76 kW.

**Program Fiscal Expenditures for October 1996 through September 1997:** Total expenditures were \$37,704 or \$75,909 less than projected due to the average cost per kW being lower than anticipated.

**Program Progress Summary:** Program inception to date, total reduction is 2,623 kW.

## PROGRAM DESCRIPTION AND PROGRESS

**Program Title:** C/I Business Custom Incentive

**Program Description:** A program designed to assist FPL's commercial and industrial customers achieve electric demand and savings cost-effective to all FPL customers. FPL will provide incentives to qualifying commercial and industrial customers who purchase, install and successfully operate cost-effective energy efficiency measures not covered by other FPL programs, that reduce electric demand or shift electric demand from summer peak.

**Program accomplishments for October 1996 through September 1997:** During this period program accomplishments included the completion of two projects for a total of 287.5 summer peak demand reduction. The Evercane Sugar Project Summary was included in Docket No. 970002-EG, filed with the FPSC on January 13, 1997. See Pages 17- 29 for the second project.

**Program Fiscal Expenditures for October 1996 through September 1997:** Total expenditures were \$116,157 or \$315,946 less than projected due to timing of the completion of projects.

**Program Progress Summary:** Program inception to date, 53 projects have been reviewed for eligibility and cost-effectiveness.

**FPL Business Custom Incentive Program  
University of Miami Project Summary  
July 17, 1997**

**BACKGROUND**

The University of Miami Business Custom Incentive Program (BCIP) project consisted of removing the existing cooling systems from two buildings and providing the necessary piping and air handling equipment to condition these buildings from a central chilled water plant. The previous cooling system consisted of two split DX systems. The units were located in the Lowe Art Museum and the Behavioral Medicine Buildings.

The combined cooling load was estimated to be 125 tons. Based on a predicted chiller system efficiency of .68 kW per ton, the coincident summer peak kW savings resulting from the retrofit was projected to be 83.5 kW. This level of demand reduction would result in a potential FPL incentive of \$20,875 based on calculations performed at the time of project approval.

**RESULTS**

After the system was installed and operating properly, FPL arranged for a consultant to measure the system's performance. For this purpose, all system operating parameters were measured from March 17, 1997 to March 27, 1997. The results revealed the actual chiller efficiency was slightly better than predicted at .62 kW per ton. This efficiency resulted in higher demand savings. However, the final incentive paid was based on the projected kW savings. This original incentive amount of \$20,875 was paid to the customer on June 26, 1997.

**COST EFFECTIVENESS**

The cost effectiveness ("CPF") analysis accompanying this description shows that the project is cost-effective in accordance with FPSC guidelines.

INPUT DATA - PART 1 CONTINUED  
PROGRAM METHOD SELECTED: RCV\_REQ  
PROGRAM NAME: Univ. Miami - BCI

I PROGRAM DEMAND SAVINGS & LINE LOSSES

(1) CUSTOMER MW REDUCTION AT METER 83.66 MW  
(2) GENERATOR MW REDUCTION PER CUSTOMER 108.77 MW  
(3) MW LINE LOSS PERCENTAGE 8.32 %  
(4) GENERATOR MW REDUCTION PER CUSTOMER 238,608.1 MWH  
(5) MW% LINE LOSS PERCENTAGE 6.75 %  
(6) GROUP LINE LOSS MULTIPLIER 1.0000  
(7) CUSTOMER MW% INCREASE AT METER 0.0 MW%

II ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR THE CONSERVATION PROGRAM 21 YEARS  
(2) GENERATOR ECONOMIC LIFE 30 YEARS  
(3) T&D ECONOMIC LIFE 35 YEARS  
(4) K FACTOR FOR GENERATION 1.98851  
(5) K FACTOR FOR T & D 1.40787

III UTILITY & CUSTOMER COSTS

(1) UTILITY NON RECURRING COST PER CUSTOMER --- \$CUST  
(2) UTILITY RECURRING COST PER CUSTOMER --- \$CUST  
(3) UTILITY COST ESCALATION RATE --- %  
(4) CUSTOMER EQUIPMENT COST --- \$  
(5) CUSTOMER EQUIPMENT ESCALATION RATE --- %  
(6) CUSTOMER O & M COST --- \$CUST/YR  
(7) CUSTOMER O & M COST ESCALATION RATE --- %  
(8) INCREASED SUPPLY COSTS --- \$CUST/YR  
(9) SUPPLY COSTS ESCALATION RATES --- %  
(10) UTILITY DISCOUNT RATE 8.22 %  
(11) UTILITY AFUDC RATE 10.70 %  
(12) UTILITY NON RECURRING REBATE/PERCENTAGE --- \$CUST  
(13) UTILITY RECURRING REBATE/PERCENTAGE --- \$CUST  
(14) UTILITY REBATE/PERCENTAGE ESCALATION RATE --- %

• SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK  
• VALUE SHOWN IS FOR FIRST YEAR ONLY (VALUE VARIES OVER TIME)  
• PROGRAM COST CALCULATION VALUES ARE SHOWN ON PAGE 2

IV AVOIDED GENERATOR AND T&D COSTS

(1) BASE YEAR 1989  
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT 1987  
(3) IN-SERVICE YEAR FOR AVOIDED T&D 1987  
(4) BASE YEAR AVOIDED GENERATING COST 352 \$/KW  
(5) BASE YEAR AVOIDED TRANSMISSION COST 0 \$/KW  
(6) BASE YEAR DISTRIBUTION COST 0 \$/KW  
(7) GEN, TRAN & DIST COST ESCALATION RATE 2.55 %  
(8) GENERATOR FIXED O & M COST 24 \$/KWYR  
(9) GENERATOR FIXED O&M ESCALATION RATE 3.34 %  
(10) TRANSMISSION FIXED O & M COST 0.05 \$/KW  
(11) DISTRIBUTION FIXED O & M COST 0.05 \$/KW  
(12) T&D FIXED O&M ESCALATION RATE 3.34 %  
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS 0.011 CENTS/KWHR  
(14) GENERATOR VARIABLE O&M COST ESCALATION RATE 2.47 %  
(15) GENERATOR CAPACITY FACTOR 0% -- (in-service year)  
(16) AVOIDED GENERATING UNIT FUEL COST 3.72 CENTS PER KWHR -- (in-service year)  
(17) AVOIDED GEN UNIT FUEL COST ESCALATION RATE 8.34 %

V NON-FUEL ENERGY AND DEMAND CHARGES

(1) NON FUEL COST IN CUSTOMER BILL --- CENTS/KWHR  
(2) NON-FUEL COST ESCALATION RATE --- %  
(3) DEMAND CHARGE IN CUSTOMER BILL --- \$/KW  
(4) DEMAND CHARGE ESCALATION RATE --- %

\* INPUT DATA - PART 1 CONTINUED  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME: Univ. Miami - BCI

YEAR	(1) UTILITY PROGRAM COSTS WITH-OUT INCENTIVES \$ (000)	(2) UTILITY INCENTIVES \$ (000)	(3) OTHER UTILITY COSTS \$ (000)	(4) TOTAL UTILITY PROGRAM COSTS \$ (000)	(5) ENERGY CHARGE REVENUE LOSSES \$ (000)	(6) DEMAND CHARGE REVENUE LOSSES \$ (000)	(7) PARTICIPANT EQUIPMENT COSTS \$ (000)	(8) PARTICIPANT O&M COSTS \$ (000)	(9) OTHER PARTICIPANT COSTS \$ (000)	(10) TOTAL PARTICIPANT COSTS \$ (000)
1995	0	0	0	0	0	0	0	0	0	0
1997	3	21	0	24	5	4	178	0	0	178
1998	0	0	0	0	9	7	0	0	0	0
1999	0	0	0	0	9	7	0	0	0	0
2000	0	0	0	0	10	7	0	0	0	0
2001	0	0	0	0	10	6	0	0	0	0
2002	0	0	0	0	11	6	0	0	0	0
2003	0	0	0	0	11	6	0	0	0	0
2004	0	0	0	0	12	9	0	0	0	0
2005	0	0	0	0	12	9	0	0	0	0
2006	0	0	0	0	13	10	0	0	0	0
2007	0	0	0	0	13	10	0	0	0	0
2008	0	0	0	0	14	10	0	0	0	0
2009	0	0	0	0	14	11	0	0	0	0
2010	0	0	0	0	15	11	0	0	0	0
2011	0	0	0	0	16	12	0	0	0	0
2012	0	0	0	0	16	13	0	0	0	0
2013	0	0	0	0	18	13	0	0	0	0
2014	0	0	0	0	18	14	0	0	0	0
2015	0	0	0	0	19	15	0	0	0	0
2016	0	0	0	0	20	15	0	0	0	0

TRM	3	21	0	24	265	201	178	0	0	178
RPV	3	19	0	22	103	78	163	0	0	163

\* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

\*\* NEGATIVE COSTS WILL BE CALCULATED AS POSITIVE BENEFITS FOR TRC AND RSM TESTS

CALCULATION OF GEN K-FACTOR  
PROGRAM METHOD SELECTED: NPV\_REQ  
PROGRAM NAME: Univ. Buses - BC1

YEAR	(2) MID-YEAR RATE BASE \$1000	(3) DEBT \$1000	(4) PREFERRED STOCK \$1000	(5) COMMON EQUITY \$1000	(6) INCOME TAXES \$1000	(7) OTHER TAXES & INSURANCE \$1000	(8) DEPREC \$1000	(9) DEFERRED TAXES \$1000	(10) TOTAL FIXED CHARGES \$1000	(11) PRESENT WORTH FIXED CHARGES \$1000	(12) CUMULATIVE PW FIXED CHARGES \$1000
1997	44	2	0	3	2	1	1	0	8	8	8
1998	42	2	0	3	1	1	1	1	8	8	16
1/99	40	2	0	3	1	1	1	1	8	8	23
2000	38	1	0	3	1	1	1	0	8	8	29
2001	36	1	0	2	1	1	1	0	7	7	34
2002	34	1	0	2	1	1	1	0	7	7	39
2003	32	1	0	2	1	1	1	0	7	7	43
2004	30	1	0	2	1	1	1	0	7	7	47
2005	29	1	0	2	1	1	1	0	6	6	50
2006	27	1	0	2	1	1	1	0	6	6	53
2007	25	1	0	2	1	1	1	0	6	6	55
2008	24	1	0	2	1	1	1	0	6	6	57
2009	22	1	0	2	1	1	1	0	5	5	58
2010	20	1	0	1	1	1	1	0	5	5	61
2011	19	1	0	1	1	1	1	0	5	5	62
2012	17	1	0	1	1	1	1	0	5	5	64
2013	15	1	0	1	0	1	1	0	4	4	65
2014	14	1	0	1	0	1	1	0	4	4	66
2015	12	0	0	1	0	1	1	0	4	4	66
2016	10	0	0	1	0	1	1	0	3	3	67
2017	9	0	0	1	0	1	1	0	3	3	68
2018	8	0	0	1	0	1	1	0	3	3	68
2019	7	0	0	0	1	1	1	0	3	3	69
2020	6	0	0	0	1	1	1	0	3	3	69
2021	5	0	0	0	1	1	1	0	3	3	69
2022	4	0	0	0	1	1	1	0	3	3	70
2023	3	0	0	0	1	1	1	0	3	3	70
2024	2	0	0	0	1	1	1	0	2	2	70
2025	1	0	0	0	1	1	1	0	2	2	70
2026	0	0	0	0	1	1	1	0	2	2	71

CAPITAL STRUCTURE		
SOURCE	WEIGHT	COST
DEBT	49%	6.50 %
PRE	0%	0.50 %
EQU	51%	12.50 %

44  
1997  
30  
30.575  
9.22%  
1.40%

44  
1997  
30  
30.575  
9.22%  
1.40%

K-FACTOR = CPWFC / IN-SVC COST =

1.5681

DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION  
 PROGRAM METHOD SELECTED: REV\_REQ  
 PROGRAM NAME Unit Miami - BC

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
YEAR	TAX DEPRECIATION SCHEDULE	TAX DEPRECIATION (\$000)	ACCUMULATED TAX DEPRECIATION (\$000)	BOOK DEPRECIATION (\$000)	ACCUMULATED BOOK DEPRECIATION (\$000)	BOOK DEPRECIATION FOR DEFERRED TAX (\$000)	ACCUMULATED BOOK DEPR FOR DEFERRED TAX (\$000)	DEFERRED TAX DUE TO DEPRECIATION (\$000)	TOTAL EQUITY AFUDC (\$000)	BOOK DEPR RATE MINUS UALFE	(10)/(11) TAX RATE (\$000)	SALVAGE TAX RATE (\$000)	ANNUAL DEFERRED TAX (\$000)	ACCUMULATED DEFERRED TAX (\$000)
1997	3.75%	2	2	1	1	1	1	0	1	0	0	0	0	0
1998	7.27%	3	5	1	3	1	3	1	1	0	0	0	1	1
1999	6.03%	3	6	1	4	1	4	1	1	0	0	0	1	1
2000	5.19%	3	10	1	6	1	6	0	1	0	0	0	0	1
2001	5.71%	2	13	1	7	1	7	0	1	0	0	0	0	1
2002	5.20%	2	15	1	9	1	9	0	1	0	0	0	0	2
2003	4.89%	2	17	1	10	1	10	0	1	0	0	0	0	2
2004	4.52%	2	19	1	12	1	11	0	1	0	0	0	0	2
2005	4.46%	2	21	1	13	1	13	0	1	0	0	0	0	3
2006	4.47%	2	23	1	15	1	14	0	1	0	0	0	0	3
2007	4.46%	2	25	1	16	1	16	0	1	0	0	0	0	3
2008	4.46%	2	27	1	18	1	17	0	1	0	0	0	0	3
2009	4.46%	2	29	1	19	1	18	0	1	0	0	0	0	4
2010	4.46%	2	31	1	21	1	20	0	1	0	0	0	0	4
2011	4.46%	2	33	1	22	1	21	0	1	0	0	0	0	4
2012	4.46%	2	35	1	24	1	23	0	1	0	0	0	0	4
2013	4.46%	2	37	1	25	1	24	0	1	0	0	0	0	5
2014	4.46%	2	39	1	26	1	25	0	1	0	0	0	0	5
2015	4.46%	2	41	1	28	1	27	0	1	0	0	0	0	5
2016	4.46%	2	43	1	29	1	28	0	1	0	0	0	0	6
2017	2.23%	1	44	1	31	1	30	0	1	0	0	0	0	6
2018	0.00%	0	44	1	32	1	31	0	1	0	0	0	0	6
2019	0.00%	0	44	1	34	1	33	0	1	0	0	0	0	6
2020	0.00%	0	44	1	35	1	34	0	1	0	0	0	0	6
2021	0.00%	0	44	1	37	1	36	0	1	0	0	0	0	6
2022	0.00%	0	44	1	38	1	37	0	1	0	0	0	0	6
2023	0.00%	0	44	1	40	1	38	0	1	0	0	0	0	6
2024	0.00%	0	44	1	41	1	40	0	1	0	0	0	0	6
2025	0.00%	0	44	1	43	1	41	0	1	0	0	0	0	6
2026	0.00%	0	44	1	44	1	43	0	1	0	0	0	0	6

SALVAGE / REMOVAL COST	0.00
YEAR SALVAGE / COST OF REMOVAL	2000
DEFERRED TAXES DURING CONSTRUCTION (SEE PAGE 5)	0
TOTAL EQUITY AFUDC CAPITALIZED (SEE PAGE 5)	1
BOOK DEPR RATE - USEFUL LIFE	3.30%

page 46 DEFERRED TAX AND MID-YEAR RATE BASE CALCULATION  
PROGRAM METHOD SELECTED: REV\_REQ  
PROGRAM NAME Unit: Miami - BCI

(1) YEAR	(2) TAX DEPRECIATION SCHEDULE	(3) TAX DEPRECIATION SCHEDULE	(4) DEFERRED TAX \$(000)	(5) END OF YEAR NET PLANT IN SERVICE \$(000)	(5a) ACCUMULATED DEPRECIATION \$(000)	(5b) ACCUMULATED DEF TAXES \$(000)	(6) BEGINNING YEAR RATE BASE \$(000)	(7) ENDING OF YEAR RATE BASE \$(000)	(8) MID-YEAR RATE BASE \$(000)
1987			2	43	1	0	44	43	44
1988	3.75%	3	3	41	3	0	43	41	42
1989	7.27%	3	1	40	4	1	41	39	40
1990	6.89%	3	1	38	4	1	39	37	38
2000	6.18%	3	0	36	6	1	37	35	36
2001	5.71%	2	0	37	7	2	37	35	36
2002	5.20%	2	0	35	9	2	35	33	34
2003	4.89%	2	0	34	10	2	31	31	32
2004	4.57%	2	0	32	12	3	31	30	30
2005	4.48%	2	0	31	13	3	30	28	29
2006	4.48%	2	0	29	15	3	28	26	27
2007	4.48%	2	0	28	16	3	26	25	25
2008	4.48%	2	0	26	18	3	25	23	24
2009	4.48%	2	0	25	19	4	23	21	22
2010	4.48%	2	0	24	21	4	21	20	20
2011	4.48%	2	0	22	22	4	20	18	19
2012	4.48%	2	0	21	24	4	18	16	17
2013	4.48%	2	0	19	25	5	16	15	15
2014	4.48%	2	0	18	26	5	15	13	14
2015	4.48%	2	0	16	28	5	13	11	12
2016	4.48%	2	0	15	29	5	11	10	10
2017	2.27%	1	69	13	31	5	10	9	8
2018	0.00%	0	(1)	12	32	4	8	7	6
2019	0.00%	0	(1)	10	34	4	7	6	7
2020	0.00%	0	(1)	9	35	3	6	6	6
2021	0.00%	0	(1)	7	37	3	5	5	5
2022	0.00%	0	(1)	6	38	2	4	4	4
2023	0.00%	0	(1)	4	40	2	4	3	3
2024	0.00%	0	(1)	3	41	1	3	2	2
2025	0.00%	0	(1)	1	43	1	2	1	1
2026	0.00%	0	(1)	0	44	0	1	0	0

\* Column not specified in workbook



INPUT DATA - PART 2  
PROGRAM METHOD SELECTED: REV\_REQ  
PROGRAM NAME: Univ Miami - BC

(1) YEAR	(2) TOTAL PARTICIPATING CUSTOMERS	(3) ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	(4) UTILITY AVERAGE SYSTEM FUEL COST (\$/KWH)	(5) AVOIDED MARGINAL FUEL COST (\$/KWH)	(6)* INCREASED MARGINAL FUEL COST (\$/KWH)	(7) REPLACEMENT FUEL COST (\$/KWH)	(8) PROGRAM MW EFFECTIVENESS FACTOR	(9) PROGRAM MW EFFECTIVENESS FACTOR
1986	0	0	0.00	3.50	2.40	0.00	1.00	1.00
1987	1	1	0.00	3.91	2.42	4.28	1.00	1.00
1988	1	1	0.00	4.15	2.52	4.25	1.00	1.00
1989	1	1	0.00	4.80	2.56	7.85	1.00	1.00
2000	1	1	0.00	4.79	2.68	8.21	1.00	1.00
2001	1	1	0.00	5.25	2.89	8.42	1.00	1.00
2002	1	1	0.00	5.58	2.81	8.98	1.00	1.00
2003	1	1	0.00	6.17	2.85	9.28	1.00	1.00
2004	1	1	0.00	6.71	3.07	9.60	1.00	1.00
2005	1	1	0.00	7.04	3.18	9.82	1.00	1.00
2006	1	1	0.00	7.30	3.37	9.92	1.00	1.00
2007	1	1	0.00	8.20	3.69	9.79	1.00	1.00
2008	1	1	0.00	8.68	3.73	10.08	1.00	1.00
2009	1	1	0.00	8.76	3.55	10.87	1.00	1.00
2010	1	1	0.00	9.88	4.02	10.88	1.00	1.00
2011	1	1	0.00	8.89	4.37	11.65	1.00	1.00
2012	1	1	0.00	10.41	4.57	12.84	1.00	1.00
2013	1	1	0.00	11.16	4.88	13.05	1.00	1.00
2014	1	1	0.00	11.85	4.81	13.71	1.00	1.00
2015	1	1	0.00	12.38	5.23	14.19	1.00	1.00
2016	1	1	0.00	13.12	5.38	15.01	1.00	1.00

\* THIS COLUMN IS USED ONLY FOR LOAD SHIFTING PROGRAMS WHICH SHIFT CONSUMPTION TO OFF-PEAK PERIODS.  
THE VALUES REPRESENT THE OFF PEAK SYSTEM FUEL COSTS.

page 7  
AVOIDED GENERATING BENEFITS  
PROGRAM METHOD SELECTED: REV\_REQ  
PROGRAM NAME: Univ. Must - BC1

YEAR	(2) AVOIDED GEN UNIT CAPACITY COST \$(000)	(3) AVOIDED GEN UNIT FIXED O&M \$(000)	(4) AVOIDED GEN UNIT VARIABLE O&M \$(000)	(5) AVOIDED GEN UNIT FUEL COST \$(000)	(6) REPLACEMENT FUEL COST \$(000)	(7) AVOIDED GEN UNIT BENEFITS \$(000)
1996	0	0	0	0	0	0
1997	0	3	3	0	0	11
1998	0	3	3	0	0	11
1999	0	3	3	0	0	11
2000	0	3	3	0	0	10
2001	7	3	3	0	0	10
2002	7	3	3	0	0	10
2003	7	3	3	0	0	10
2004	7	3	3	0	0	10
2005	6	4	4	0	0	10
2006	6	4	4	0	0	10
2007	6	4	4	0	0	10
2008	6	4	4	0	0	10
2009	5	4	4	0	0	5
2010	5	4	4	0	0	5
2011	5	5	5	0	0	9
2012	5	5	5	0	0	9
2013	4	5	5	0	0	9
2014	4	5	5	0	0	9
2015	4	6	6	0	0	8
2016	4	6	6	0	0	8

FROM	122	60	0	0	3	0	108
TO	61	32	0	0	1	3	61

AVOIDED T&D AND PROGRAM FUEL SAVINGS  
PROGRAM METHOD SELECTED: REV\_REV  
PROGRAM NAME: Upl. Maint - BC1

(1) YEAR	(2) AVOIDED TRANSMISSION CAP COST \$(000)	(3) AVOIDED TRANSMISSION OSM COST \$(000)	(4) TOTAL AVOIDED TRANSMISSION CAP COST \$(000)	(5) AVOIDED DISTRIBUTION CAP COST \$(000)	(6) AVOIDED DISTRIBUTION OSM COST \$(000)	(7) TOTAL AVOIDED DISTRIBUTION CAP COST \$(000)	(8) PROGRAM FUEL SAVINGS \$(000)	(9a) PROGRAM OFF-PEAK PAYBACK \$/000
1996	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	2	0
1998	0	0	0	0	0	0	8	0
1999	0	0	0	0	0	0	10	0
2000	0	0	0	0	0	0	10	0
2001	0	0	0	0	0	0	11	0
2002	0	0	0	0	0	0	12	0
2003	0	0	0	0	0	0	13	0
2004	0	0	0	0	0	0	14	0
2005	0	0	0	0	0	0	15	0
2006	0	0	0	0	0	0	16	0
2007	0	0	0	0	0	0	18	0
2008	0	0	0	0	0	0	19	0
2009	0	0	0	0	0	0	19	0
2010	0	0	0	0	0	0	21	0
2011	0	0	0	0	0	0	21	0
2012	0	0	0	0	0	0	22	0
2013	0	0	0	0	0	0	24	0
2014	0	0	0	0	0	0	26	0
2015	0	0	0	0	0	0	27	0
2016	0	0	0	0	0	0	28	0
NCM	0	0	0	0	0	0	335	0
NPV	0	0	0	0	0	0	122	0

\* THESE VALUES REPRESENT THE COST OF THE INCREASED FUEL CONSUMPTION DUE TO GREATER OFF-PEAK ENERGY USAGE. USED FOR LOAD SHIFTING PROGRAMS ONLY.

TOTAL RESOURCE COST TEST  
PROGRAM METHOD SELECTED: REV\_REQ  
PROGRAM NAME: U-Inv. Miami - BC1

(1) YEAR	(2) INCREASED SUPPLY COSTS \$1000	(3) UTILITY PROGRAM COSTS \$1000	(4) PARTICIPANT PROGRAM COSTS \$1000	(5) OTHER COSTS \$1000	(6) TOTAL COSTS \$1000	(7) AVOIDED GEN UNIT BENEFITS \$1000	(8) AVOIDED T&D BENEFITS \$1000	(9) PROGRAM FUEL SAVINGS \$1000	(10) OTHER BENEFITS \$1000	(11) TOTAL BENEFITS \$1000	(12) NET BENEFITS \$1000	(13) CUMULATIVE DISCOUNTED NET BENEFITS \$1000
1994	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	3	178	0	181	11	0	2	0	13	(167)	(133)
1998	0	0	0	0	0	11	0	8	0	19	19	(137)
1999	0	0	0	0	0	11	0	10	0	21	21	(121)
2000	0	0	0	0	0	10	0	10	0	20	20	(107)
2001	0	0	0	0	0	10	0	11	0	21	21	(83)
2002	0	0	0	0	0	10	0	12	0	22	22	(69)
2003	0	0	0	0	0	10	0	13	0	23	23	(58)
2004	0	0	0	0	0	10	0	14	0	24	24	(50)
2005	0	0	0	0	0	10	0	15	0	25	25	(45)
2006	0	0	0	0	0	10	0	16	0	26	26	(34)
2007	0	0	0	0	0	10	0	18	0	27	27	(24)
2008	0	0	0	0	0	10	0	19	0	28	28	(14)
2009	0	0	0	0	0	9	0	19	0	28	28	(5)
2010	0	0	0	0	0	9	0	21	0	30	30	4
2011	0	0	0	0	0	9	0	21	0	31	31	12
2012	0	0	0	0	0	9	0	22	0	31	31	20
2013	0	0	0	0	0	9	0	24	0	33	33	27
2014	0	0	0	0	0	9	0	26	0	35	35	34
2015	0	0	0	0	0	9	0	27	0	36	36	41
2016	0	0	0	0	0	9	0	28	0	37	37	47

FCM	0	0	178	0	181	108	0	206	0	531	531	251
HPV	0	0	183	0	185	91	0	122	0	313	313	47

Discount Rate: 6.25 %  
Benefit/Cost Ratio (Col(11) / Col(6)) : 1.39

PARTICIPANT COSTS AND BENEFITS  
PROGRAM METHOD SELECTED REV. REQ.  
PROGRAM NAME: Univ. Miami - BC

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
YEAR	# MEMOS IN PARTICIPANTS BILLS (\$000)	TAX CREDITS (\$000)	UTILITY REBATES (\$000)	OTHER BENEFITS (\$000)	TOTAL BENEFITS (\$000)	CUSTOMER EQUIPMENT COSTS (\$000)	CUSTOMER O&M COSTS (\$000)	OTHER COSTS (\$000)	TOTAL COSTS (\$000)	NET REVENUE (\$000)	CUMULATIVE DISCOUNTED NET BENEFITS (\$000)
1988	0	0	0	0	0	0	0	0	0	0	0
1987	10	0	21	0	30	178	0	0	178	(147)	(135)
1988	20	0	0	0	20	0	0	0	0	20	(118)
1989	20	0	0	0	20	0	0	0	0	20	(103)
2000	21	0	0	0	21	0	0	0	0	21	(89)
2001	21	0	0	0	21	0	0	0	0	21	(75)
2002	22	0	0	0	22	0	0	0	0	22	(62)
2003	24	0	0	0	24	0	0	0	0	24	(48)
2004	24	0	0	0	24	0	0	0	0	24	(37)
2005	25	0	0	0	25	0	0	0	0	25	(26)
2006	27	0	0	0	27	0	0	0	0	27	(15)
2007	28	0	0	0	28	0	0	0	0	28	(4)
2008	29	0	0	0	29	0	0	0	0	29	6
2009	31	0	0	0	31	0	0	0	0	31	16
2010	32	0	0	0	32	0	0	0	0	32	25
2011	33	0	0	0	33	0	0	0	0	33	34
2012	35	0	0	0	35	0	0	0	0	35	42
2013	37	0	0	0	37	0	0	0	0	37	51
2014	38	0	0	0	38	0	0	0	0	38	59
2015	40	0	0	0	40	0	0	0	0	40	66
2016	42	0	0	0	42	0	0	0	0	42	73

TOTAL	569	0	21	0	590	178	0	0	178	403
NPV	217	0	19	0	236	163	0	0	163	73

In Service of Gen Unit  
Discount Rate: 8.22 %  
Benefit/Cost Ratio (Col(6) / Col(10)) 1.68

RAISE IMPACT TEST  
PROGRAM METHOD SELECTED REV\_REQ  
PROGRAM NAME Univ. Miam. DCI

(1) YEAR	(2) INCREASED SUPPLY COSTS \$(000)	(3) UTILITY PROGRAM COSTS \$(000)	(4) INCENTIVES \$(000)	(5) REVENUE LOSSES \$(000)	(6) OTHER COSTS \$(000)	(7) TOTAL COSTS \$(000)	(8) AVOIDED GEN UNIT & FUEL BENEFITS \$(000)	(9) AVOIDED T&D BENEFITS \$(000)	(10) REVENUE GAINS \$(000)	(11) OTHER BENEFITS \$(000)	(12) TOTAL BENEFITS \$(000)	(13) NET BENEFITS \$(000)	(14) CUMULATIVE DISCOUNTED NET BENEFITS \$(000)
1998	0	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	21	8	0	22	13	0	0	0	13	13	(17)
1996	0	0	0	16	0	16	19	0	0	0	19	19	(14)
1995	0	0	0	17	0	17	21	0	0	0	21	21	(11)
2000	0	0	0	17	0	17	20	0	0	0	20	20	(9)
2001	0	0	0	16	0	16	21	0	0	0	21	21	(7)
2002	0	0	0	19	0	19	22	0	0	0	22	22	(5)
2003	0	0	0	20	0	20	23	0	0	0	23	23	(3)
2004	0	0	0	20	0	20	24	0	0	0	24	24	(1)
2005	0	0	0	21	0	21	25	0	0	0	25	25	1
2006	0	0	0	22	0	22	26	0	0	0	26	26	2
2007	0	0	0	23	0	23	27	0	0	0	27	27	4
2008	0	0	0	24	0	24	28	0	0	0	28	28	4
2009	0	0	0	25	0	25	29	0	0	0	29	29	5
2010	0	0	0	26	0	26	30	0	0	0	30	30	6
2011	0	0	0	28	0	28	31	0	0	0	31	31	7
2012	0	0	0	29	0	29	31	0	0	0	31	31	8
2013	0	0	0	31	0	31	33	0	0	0	33	33	8
2014	0	0	0	33	0	33	35	0	0	0	35	35	9
2015	0	0	0	34	0	34	36	0	0	0	36	36	10
2016	0	0	0	35	0	35	37	0	0	0	37	37	10

MOA	0	3	21	469	0	490	531	0	0	0	531	41
NPV	0	3	19	161	0	202	213	0	0	0	213	10

Discount Rate 9.22 %  
Benefit/Cost Ratio (Col(12) / Col(7)) 1.66

Docket No. 970002-EG  
Exhibit No. \_\_\_\_\_  
Florida Power & Light Co.  
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### PROGRAM DESCRIPTION AND PROGRESS

**Program Title:** Commercial/Industrial Building Envelope Program

**Program Description:** A program designed to encourage eligible commercial and industrial customers to increase the efficiency of the qualifying portion of their building's envelope, which will reduce HVAC energy consumption and demand.

**Program accomplishments for October 1996 through September 1997:** During this period total reduction was 6,212.98 kW. The estimate for the period was 5,334.85 kW.

**Program Fiscal Expenditures for October 1996 through September 1997:** Total expenditures were \$3,124,677 or \$215,791 less than projected due to administrative costs being lower than anticipated.

**Program Progress Summary:** Program inception to date, total reduction is 6,822 kW.

## PROGRAM DESCRIPTION AND PROGRESS

**Project Title:** Demand Load Control Trial Project

**Project Description:** This is a pilot project designed to offer voluntary load control to Dade and Broward GSD and GSLD rate customers that have air conditioning and/or other controllable equipment that can be equipped with FPL control equipment. The maximum customer participation for this project is 120 commercial and industrial rate customers.

**Project Accomplishments for October 1996 through September 1997:** During this period project accomplishments included an extension of the project with field monitoring completed. A complete series of various control strategies were monitored for both demand savings and customer acceptance.

**Project Fiscal Expenditures for October 1996 through September 1997:** Total expenditures were \$187,572 or \$76,101 less than projected due to the project time frame being extended and expected program close-out costs being delayed.

**Project Progress Summary:** The field monitoring is complete and the project moves into analysis and final report.

Docket No. 970002-EG  
Exhibit No. \_\_\_\_\_  
Florida Power & Light Co.  
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## PROGRAM DESCRIPTION AND PROGRESS

**Project Title:** Residential Thermal Energy Storage Research Project

**Project Description:** A research project to determine feasibility of a program to offer incentives to residential customers to cool their homes with thermal energy storage.

**Project Accomplishments for October 1996 through September 1997:** During this period accomplishments included researching and monitoring potential new developments in this technology.

**Project Fiscal Expenditures for October 1996 through September 1997:** Total expenditures were \$3,890 or \$55,011 less than projected due to unavailability of prototype unit for laboratory testing.

**Project Progress Summary:** There have been delays in the research of this technology due to manufacturers' discontinuing prototype development.

### **PROGRAM DESCRIPTION AND PROGRESS**

**Project Title:** Residential New Home Construction Research Project

**Project Description:** The objective of this project is to investigate, quantify and determine the cost-effectiveness of the conservation opportunities available in the residential, detached, single-family home construction market.

**Project accomplishments for October 1996 through September 1997:** During this period accomplishments included filing the petition and receiving approval for the permanent program. (See Page 46 of 47.)

**Project Fiscal Expenditures for October 1996 through September 1997:** Total expenditures were \$316,398 or \$7,440 less than projected. This program is deemed on target with a slight variance (2%).

**Project Progress Summary:** As a result of this research project, FPL filed and has received approval for the permanent program, which terminates this research project. (See Page 46 of 47.)

## PROGRAM DESCRIPTION AND PROGRESS

**Project Title:** Cool Communities Research Project

**Project Description:** A research project designed to evaluate emerging conservation technologies to determine which are worthy of pursuing for program development and approval.

**Project accomplishments for October 1996 through September 1997:** During this period Resources Management International (RMI) completed the workplan definition, statistical model definition, preliminary data collection and customer survey development.

**Project Fiscal Expenditures for October 1996 through September 1997:** Total expenditures were \$117,559 or \$10,163 more than projected due to expenses from previous period deferred to current period.

**Project Progress Summary:** RMI has completed the survey and all the primary data collection..

**PROGRAM DESCRIPTION AND PROGRESS**

**Project Title:** Residential Heat Pump Water Heating Research Project (HPWH)

**Project Description:** This research project is intended to evaluate improvements to HPWH technology and equipment, its application, installation costs, customer acceptance as well as demand and energy savings.

**Project accomplishments for October 1996 through September 1997:** During this period accomplishments included selecting the lab and units for testing.

**Project Fiscal Expenditures for October 1996 through September 1997:** Total expenditures were \$43,651 or \$118,219 less than projected due to delays in the project.

**Project Progress Summary:** Lab testing is underway and completion is expected during the fourth quarter of 1997.

## PROGRAM DESCRIPTION AND PROGRESS

**Project Title:** Residential Solar Water Heating Research Project

**Project Description:** This research project is intended to assist FEO in the distribution of the Legislatures solar water heating appropriation, identify technology improvements to make solar water heating cost effective and identify market segments or customer demographics showing greater cost effectiveness potential for application of the technology.

**Project accomplishments for October 1996 through September 1997:** During this period accomplishments included a re-evaluation of data available regarding the demand and energy savings of various types of solar water heaters as well as their costs. In addition, cost-effectiveness analysis were done for the updated information. Based on this information, no solar water heaters were found to be cost-effective.

**Project Fiscal Expenditures for October 1996 through September 1997:** Total expenditures were \$5,118 or \$101,855 less than projected based on FPL's determination that the installation of the 100 test sites would not provide results that would change the evaluations and analysis completed thus far.

**Project Progress Summary:** On October 27, 1997, the Commission granted the termination of FPL's Residential Solar Water Heating Research Project. (PSC-97-1336-FOF-EG.)

## PROGRAM DESCRIPTION AND PROGRESS

**Program Title:** Conservation Research & Development Program

**Program Description:** A program designed to evaluate emerging conservation technologies to determine which are worthy of pursuing for program development and approval.

**Program Accomplishments for October 1996 through September 1997:** This period included the continuation of Technology Assessment of products/concepts for potential DSM opportunities. (See supplement for description).

**Program Fiscal Expenditures for October 1996 through September 1997:** Total expenditures were \$43,925 or \$676,409 less than projected due to activity schedule changes from the reassessment of the projects impacting the timing of expenditures associated with these changes.

**Program Progress Summary:** Program development is proceeding and selected products/concepts have been assessed. The attached listing details FPL's activities during this period.

Supplement to Schedule CT-6

Conservation Research & Development (CRD) Activities

<u>Technology Assessment</u>	<u>Description</u>	<u>Status</u>
Cooling Tower Enhancements	Phase II: Conduct field tests based on results from Phase I.	Field test is on hold.
Desiccant Enhanced Air Conditioning	Conduct field testing and meet with air conditioning manufacturers to commercialize.	Searching for potential manufacturer to commercialize.
Motors/Motor Controller/ Motor Lubricants	Evaluate the demand and energy impact of new motors, motor controller and lubricants.	During this period no technologies of this type were evaluated.
District Cooling	Evaluate the demand and energy impact for a district cooling system.	Evaluation completed. Potential projects will be considered under the Business Custom Incentive Program.
HVAC Enhancements	Evaluate the demand and energy impact of new HVAC technologies.	During this period, no technologies of this type were evaluated.
Cool Mist-Lab/Field	Conduct a field test to evaluate the long term impacts on A/C performance.	Testing of these technologies has been completed.
Refrigerant Pressure-Lab Field	Evaluate the efficiency impacts for an over charged A/C system.	Testing of these technologies has been completed.

**Supplement to Schedule CT-6**

**Conservation Research & Development (CRD) Activities**

<u>Technology Assessment</u>	<u>Description</u>	<u>Status</u>
Water Heating Technologies	Evaluate the demand and energy impact for new water heating technologies.	These technologies will be evaluated in the Residential Heat Pump Water Heating Research Project. (See Page 35 of 47.)
Building Envelope Technologies	Evaluate new building envelope technologies such as reflective roof coating and smart structures for demand and energy impacts.	Results will be presented to FPL during fourth quarter 1997.
Appliance Technologies	Evaluate appliance technologies such as ceiling fans, microwave clothes dryers for demand and energy impacts.	During this period no technologies of this type were evaluated.
UV-Filtration	Evaluate the potential demand and energy impacts for reducing make up air for commercial buildings by utilizing UV-Filtration.	Evaluation is in progress. Report is due fourth quarter 1997.

**Supplement to Schedule CT-6**

**Conservation Research & Development (CRD) Activities**

<u>Program Development</u>	<u>Description</u>	<u>Status</u>
Commercial/Industrial New Construction Research & Development Project	Develop a R&D petition to evaluate the feasibility of a Commercial/Industrial New Construction Program.	Research Project has been approved. (See Page 44 of 47.)
Commercial Lighting Controls	Evaluate the potential for commercial lighting controls that could include such technologies as electronic lighting systems, lighting controls, day lighting, etc.	Currently evaluating Daylight Dimming under the approved Research Project. (See Page 43 of 47.)

## PROGRAM DESCRIPTION AND PROGRESS

**Project Title:** C/I Dehumidification Research Project

**Project Description:** The purpose of this project is to research the potential reduction impact of ASHRAE Standard 62-1989 on FPL's HVAC demand and energy consumption and identify dehumidification technologies that may be employed cost-effectively in different commercial and industrial building types.

**Project accomplishments for October 1996 through September 1997:** During this period accomplishments included completing reports for Florida large office and retail store simulations.

**Project Fiscal Expenditures for October 1996 through September 1997:** Total expenditures were \$23,001 or \$15,077 more than projected due to not receiving anticipated payment from the Florida Reliability Coordinating Council for co-funding of the project. Payment will be received upon completion of the project.

**Project Progress Summary:** The research project is expected to be completed by year-end, and will include documentation for simulation of fast-food restaurant and hotel businesses.

Docket No. 970002-EG  
Exhibit No. \_\_\_\_\_  
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## PROGRAM DESCRIPTION AND PROGRESS

**Project Title:** Natural Gas End-Use Technology Research & Development Program

**Project Description:** A research and development project designed to determine Florida-specific operating characteristics of five natural gas end-use technologies; gas heat pump, gas engine-driven chillers, gas engine-driven DX air conditioning, gas water heating, and gas desiccant-cooling.

**Project accomplishments for October 1996 through September 1997:** During this period accomplishments included cancellation of the Gas DX A/C project. Monitoring of all other sites continues.

**Project Fiscal Expenditures for October 1996 through September 1997:** Total expenditures were \$221,878 or \$414,443 less than projected due to the Gas DX A/C project being canceled.

**Project Progress Summary:** A joint feasibility study by FPL and Peoples Gas System determined that Gas DX Air Conditioning is not cost-effective in Florida. This led to a petition to cancel this program. Monitoring continues at 20 gas water heating sites, 2 gas chiller sites and 3 gas heat pump sites. Completion of the gas desiccant research project is pending the results of the C/I Dehumidification Project. (See page 41 of 47.)

### PROGRAM DESCRIPTION AND PROGRESS

**Program Title:** C/I Daylight Dimming Research Project

**Program Description:** A research and development project designed to assess the viability and feasibility of daylight dimming technology; compare the demand and energy reductions and cost differentials of daylight dimming systems to conventional lighting systems; discover and overcome potential barriers for the technology; quantify the cost effectiveness of the technology; test acceptance of the technology with architectural and engineering consultants; qualitatively assess customer acceptance of the technology; and conduct market research to determine target markets and expected penetrations.

**Program Accomplishments for the period October 1996 through September 1997:** During this period project accomplishments included identification of two office buildings to conduct the research. Installation of daylight dimming equipment and monitoring equipment have been completed in the north site, and a Research Agreement has been signed by the south site.

**Program Fiscal Expenditures for October 1996 through September 1997:** Total expenditures were \$40,549 or \$72,429 less than projected due to difficulty in getting a south site to sign the agreement, resulting in equipment being installed only at one of the two sites.

**Program Progress Summary:** Both sites have been identified and equipment installation should be completed by the end of 1997.

### **PROGRAM DESCRIPTION AND PROGRESS**

**Program Title:** C/I New Construction Research Project

**Program Description:** The objective of this project is to identify cost-effective conservation opportunities in the commercial/industrial new construction market which would provide efficiencies beyond that required by the Florida Energy Efficiency Code.

**Program Accomplishments for the period October 1996 through September 1997:** During this period project accomplishments included review of proposals and selection of vendor for implementation of Phase I.

**Program Fiscal Expenditures for October 1996 through September 1997:** There were no program expenditures anticipated; actual expenditures were \$8,911.

**Program Progress Summary:** This research project received final FPSC approval in Docket No. 961198-EI, Order No. PSC-97-0091-FOF-EI, issued January 27, 1997.

## **PROGRAM DESCRIPTION AND PROGRESS**

**Program Title:** Marketing Conservation Research & Development Program

**Program Description:** The objective of this program is to allow FPL, through an umbrella effort not requiring costly and time consuming research projects, to test alternative market strategies and communications efforts on existing DSM Program.

**Program Accomplishments for the period October 1996 through September 1997:** During this period project accomplishments were limited. This is a direct result of FPL filing revisions to seven of its' DSM Programs and filing petitions to terminate two programs. FPL is currently planning several projects for FPSC staff approval and implementation in 1998.

**Program Fiscal Expenditures for October 1996 through September 1997:** There were no program expenditures anticipated; actual expenditures were \$5,703.

**Program Progress Summary:** This research project received final FPSC approval in Docket No. 961002-EI, Order No. PSC-97-0100-FOF-EI, issued January 27, 1997.

### PROGRAM DESCRIPTION AND PROGRESS

**Program Title:** BuildSmart Program

**Program Description:** The objective of this program is to encourage the design and construction of energy-efficient homes that cost effectively reduce FPL's coincident peak load and customer energy consumption.

**Program Accomplishments for the period October 1996 through September 1997:** During this period, the program petition was filed and approved.

**Program Fiscal Expenditures for October 1996 through September 1997:** There were no program expenditures anticipated; actual expenditures were \$8,895.

**Program Progress Summary:** The program petition for approval of the program was filed and approved, per Docket No. 951536-EG, Order No. PSC-97-1017-S-EG.

**PROGRAM DESCRIPTION AND PROGRESS**

**Program Title:** Common Expenses

**Program Description:** Expenses common to all programs.

**Program Accomplishments:** N/A

**Program Fiscal Expenditures for October 1996 through September 1997:** Total expenditures were \$11,054,870 or \$1,869,638 less than projected primarily due to the current evaluation contract enabling us to charge specific programs.

**Program Progress Summary:** N/A