

AUSLEY McMULLEN

ATTORNEYS AND COUNSELORS AT LAW

123 SOUTH CALHOUN STREET
P.O. BOX 391 (ZIP 32302)
TALLAHASSEE, FLORIDA 32301
(850) 224-9115 FAX (850) 222-7560

May 2, 2016

VIA: ELECTRONIC FILING

Ms. Carlotta S. Stauffer
Commission Clerk
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, Florida 32399-0850

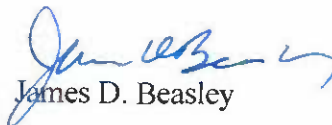
Re: Energy Conservation Cost Recovery Clause
FPSC Docket No. 160002-EG

Dear Ms. Stauffer:

Attached for filing in the above docket on behalf of Tampa Electric Company is the Testimony of Mark R. Roche and Exhibit MRR-1, entitled Schedules Supporting Conservation Cost Recovery Factor, Actual, for the period January 2015 – December 2015.

Thank you for your assistance in connection with this matter.

Sincerely,


James D. Beasley

JDB/pp
Attachment



BEFORE THE
FLORIDA PUBLIC SERVICE COMMISSION
DOCKET NO. 160002-EG
IN RE: CONSERVATION COST RECOVERY CLAUSE
TESTIMONY AND EXHIBIT
OF
MARK R. ROCHE

FILED: May 2, 2016

1 **BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

2 **PREPARED DIRECT TESTIMONY**

3 **OF**

4 **MARK R. ROCHE**

5
6 **Q.** Please state your name, address, occupation and employer.

7
8 **A.** My name is Mark R. Roche. My business address is 702
9 North Franklin Street, Tampa, Florida 33602. I am
10 employed by Tampa Electric Company ("Tampa Electric" or
11 "the company") as Manager, Regulatory Rates in the
12 Regulatory Affairs Department.

13
14 **Q.** Please provide a brief outline of your educational
15 background and business experience.

16
17 **A.** I graduated from Thomas Edison State College in 1994 with
18 a Bachelor of Science degree in Nuclear Engineering
19 Technology and from Colorado State University in 2009
20 with a Master's degree in Business Administration. My
21 work experience includes twelve years with the US Navy in
22 nuclear operations as well as eighteen years of electric
23 utility experience. My utility work has included various
24 positions in Marketing and Sales, Customer Service,
25 Distributed Resources, Load Management, Power Quality,

1 Distribution Control Center operations, Meter Department,
2 Meter Field Operations, Service Delivery, Revenue
3 Assurance, Commercial and Industrial Energy Management
4 Services, and Demand Side Management ("DSM") Planning and
5 Forecasting. In my current position I am responsible for
6 the company's Energy Conservation Cost Recovery ("ECCR")
7 Clause and Storm Hardening.

8
9 **Q.** Have you previously testified before the Florida Public
10 Service Commission ("Commission")?

11
12 **A.** Yes. I have testified before this commission on
13 conservation and load management activities, DSM plan
14 approval dockets and other ECCR dockets.

15
16 **Q.** What is the purpose of your testimony in this proceeding?

17
18 **A.** The purpose of my testimony is to present and support for
19 Commission review and approval the company's actual DSM
20 programs related true-up costs incurred during the
21 January through December 2015 period.

22
23 **Q.** Did you prepare any exhibits in support of your
24 testimony?

25

1 **A.** Yes. Exhibit No. MRR-1, entitled "Tampa Electric
2 Company, Schedules Supporting Conservation Cost Recovery
3 Factor, Actual, January 2015-December 2015" was prepared
4 under my direction and supervision. This Exhibit
5 includes Schedules CT-1 through CT-6 which support the
6 company's actual and prudent DSM program related true-up
7 costs incurred during the January through December 2015
8 period.

9
10 **Q.** What were Tampa Electric's actual January through
11 December 2015 conservation costs?

12
13 **A.** For the period January through December 2015, Tampa
14 Electric incurred actual net conservation costs of
15 \$46,516,401.

16
17 **Q.** What is the final end of period true-up amount for the
18 conservation clause for January through December 2015?

19
20 **A.** The final conservation clause end of period true-up for
21 January through December 2015 is an over-recovery,
22 including interest, of \$4,181,597. This calculation is
23 detailed on Schedule CT-1, page 1 of 1.

24
25 **Q.** Please summarize how Tampa Electric's actual program

1 costs for January through December 2015 period compare to
2 the actual/estimated costs presented in Docket No.
3 150002-EG?
4

5 **A.** For the period January through December 2015, Tampa
6 Electric had a variance of \$2,526,562 or 5.74 percent
7 more than the estimated amount. The estimated total
8 program costs were projected to be \$43,989,838 which was
9 the amount approved in Order No. PSC 15-0542-FOF-EG,
10 issued November 23, 2015 as compared to the incurred
11 actual net conservation costs of \$46,516,401.
12

13 **Q.** Please summarize the reasons why the actual expenses were
14 more than projected expenses by \$2,526,562?
15

16 **A.** The variance was a result of the following actual
17 expenses being more than estimated in the following
18 residential programs: Energy Audits; Electronically
19 Commutated Motors; Energy Star for New Homes; Heating and
20 Cooling; Weatherization, Energy Planner; Wall Insulation;
21 HVAC Re-Commissioning and Window Film. Additionally,
22 actual expenses were more than estimated in the following
23 commercial programs: Cogeneration; Cooling; Demand
24 Response; Electronically Commutated Motors; Industrial
25 Load Management; Lighting Conditioned Space; Commercial

1 Load Management; Refrigeration Anti-Condensate; Wall
2 Insulation; Energy Recovery Ventilation; HVAC Re-
3 Commissioning; Roof Insulation and Window Film. Each DSM
4 program's detailed variance contribution is shown on
5 Schedule CT-2, Page 3 of 4.
6

7 **Q.** Are all costs listed on Schedule CT-2 directly related to
8 the Commission's approved DSM programs?
9

10 **A.** Yes.
11

12 **Q.** Should Tampa Electric's cost incurred during the January
13 through December 2015 period for energy conservation be
14 approved by the Commission?
15

16 **A.** Yes, the costs incurred were prudent and directly related
17 to the Commission's approved DSM programs and should be
18 approved.
19

20 **Q.** Does that conclude your testimony?
21

22 **A.** Yes it does.
23
24
25

TAMPA ELECTRIC COMPANY
SCHEDULES SUPPORTING CONSERVATION
COST RECOVERY FACTOR
ACTUAL
JANUARY 2015 - DECEMBER 2015

CONSERVATION COST RECOVERY

INDEX

SCHEDULE	TITLE	PAGE
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CT-1
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TAMPA ELECTRIC COMPANY
Energy Conservation
Adjusted Net True-up
For Months January 2015 through December 2015

End of Period True-up

Principal	\$4,175,168	
Interest	\$6,429	
Total		\$4,181,597

Less: Projected True-up

(Last Projected Conservation Hearing)

Principal	\$6,230,679	
Interest	\$18,729	
Total		\$6,249,408

Adjusted Net True-up -\$2,067,810

CT-2
 Page 1 of 4

TAMPA ELECTRIC COMPANY
 Analysis of Energy Conservation Program Costs
 Actual vs. Projected
 For Months January 2015 through December 2015

Description	Actual	Projected	Difference
1 Capital Investment	\$1,595,914	\$1,615,100	(\$19,186)
2 Payroll	\$3,769,752	\$3,942,578	(\$172,826)
3 Materials and Supplies	\$744,538	\$274,619	\$469,919
4 Outside Services	\$7,692,721	\$6,122,589	\$1,570,132
5 Advertising	\$869,667	\$730,585	\$139,082
6 Incentives	\$31,083,922	\$30,860,704	\$223,218
7 Vehicles	\$423,080	\$353,933	\$69,147
8 Other	\$549,817	\$463,689	\$86,128
9 Subtotal	\$46,729,412	\$44,363,797	\$2,365,614
10 Less: Program Revenues	(\$213,011)	(\$373,959)	\$160,948
11 Total Program Costs	\$46,516,401	\$43,989,838	\$2,526,562
12 Adjustments	\$0	\$0	\$0
13 Beginning of Period True-up	(\$7,550,001)	(\$7,550,001)	\$0
Overrecovery			
14 Amounts included in Base Rates	\$0	\$0	\$0
15 Conservation Adjustment Revenues	(\$43,141,568)	(\$42,670,516)	(\$471,052)
16 True-up Before Interest	\$4,175,168	\$6,230,679	(\$2,055,510)
17 Interest Provision	\$6,429	\$18,729	(\$12,300)
18 End of Period True-up	\$4,181,597	\$6,249,408	(\$2,067,810)

TAMPA ELECTRIC COMPANY
Actual Conservation Program Costs per Program
For Months January 2015 through December 2015

Program Name	Capital Investment	Payroll & Benefits	Materials & Supplies	Outside Services	Advertising	Incentives	Vehicles	Other	Program Revenues	Total
12000353- Energy Audits	0	1,123,589	82,986	375,166	620,190	5,197	195,077	64,618	0	2,466,824
12000381 Residential Ceiling Insulation	0	54,767	759	8,974	0	681,207	3,375	5,014	0	754,096
12000391 Residential Duct Repair	0	29,232	59	7,056	0	378,317	3,414	12,598	0	430,676
12000419 Residential Electronically Commutated Motors	0	228	0	105	0	405	0	0	0	738
12000375 Energy Education, Awareness and Agency Outrea	0	31,255	1,958	45,988	0	5,465	1,631	7,988	0	94,285
12000431 Energy Star for New Homes	0	37,019	682	3,136	0	2,206,750	287	4,730	0	2,252,605
12000349 Residential Heating and Cooling	0	82,212.39	682.32	17,024.00	-	1,490,610.00	109.26	3,744.00	0	1,594,382
12000425 Neighborhood Weatherization	0	118,999	22,164	932,851	0	2,906,495	6,398	7,370	0	3,994,277
12000433 Energy Planner	1,581,890	800,556	478,426	539,114	246,808	0	73,745	255,638	0	3,976,177
12000365 Residential Wall Insulation	0	2,186	0	84	0	17,797	0	0	0	20,067
12000367 Residential Window Replacement	0	61,088	682	9,674	0	680,091	442	0	0	751,977
12000421 Residential HVAC Re-Commissioning	0	6,064	0	4,875	0	10,350	0	0	0	21,289
12000373 Residential Window Film	0	22,113	0	2,268	0	119,889	41	0	0	144,312
12000351 Prime Time	0	152,703.27	19,709.67	1,136,536.53	-	2,409,077.52	22,044.96	43,117.49	0	3,783,189
12000397 Commercial Ceiling Insulation	0	13,436	0	36	0	133,205	180	0	0	146,857
12000411 Commercial Chiller	0	600	0	59	0	25,888	0	151	0	26,699
12000371 Cogeneration	0	92,898	0	0	0	0	429	0	0	93,327
12000389 Conservation Value	0	12,503	0	313	0	378,656	128	76	0	391,676
12000443 Cool Roof	0	36,771	0	315	0	306,232	333	42	0	343,694
12000429 Commercial Cooling	0	24,252	0	297	0	113,522	97	587	0	138,755
12000409 Demand Response	0	17,928	0	3,979,682	0	0	240	5,063	0	4,002,913
12000377 Commercial Duct Repair	0	17,285	0	119	0	73,500	37	469	0	91,410
12000441 Commercial ECM	0	545	0	36	0	14,773	0	0	0	15,354
12000379 Industrial Load Management (GLSM 2&3)	14,024	22,637	135,102	56,327	0	14,809,695	29,753	6,388	0	15,073,926
12000385 Lighting Conditioned Space	0	52,461	660	258	0	152,413	1,078	839	0	207,710
12003201 Lighting Non-Conditioned Space	0	0	0	0	0	11,468	84	0	0	11,552
12000413 Lighting Occupancy Sensors	0	668	0	77	0	11,550	22	0	0	12,317
12000383 CILM (GLSM 1)	0	740	0	427	0	6,959	4,410	0	0	12,536
12000415 Refrigeration Anti-condensate Control	0	108	0	24	0	0	0	0	0	132
12000387 Standby Generator	0	30,155	54	0	0	2,907,808	121	42	0	2,938,179
12003202 Thermal Energy Storage	0	0	0	0	0	0	0	0	0	0
12000399 Commercial Wall Insulation	0	461	0	24	0	0	0	0	0	484
12000417 Commercial Water Heating	0	0	0	30	0	0	0	0	0	30
12000427 Conservation Research and Development	0	0	0	0	0	0	0	0	0	0
12000393 Renewable Energy Program	0	26,583	0	855	2,669	4	4,504	60,863	(213,011)	(117,532)
12000403- Renewable Enery Systems Initiative	0	79,829	0	123,995	0	1,070,860	1,296	0	0	1,275,980
12000445 Commercial ERV	0	1,190	0	0	0	0	0	0	0	1,190
12000437 Commercial Exit Signs	0	114	0	0	0	225	0	0	0	339
12000439 Commercial HVAC Re-commissioning	0	15,676	0	2,227	0	108,875	0	0	0	126,778
12000401 Commercial Motors	0	298	0	0	0	0	0	0	0	298
12000435 Commercial Roof Insulation	0	47	0	0	0	10,989	72,576	0	0	83,612
12000395 Commercial Window Film	0	3,941	0	0	0	35,648	231	0	0	39,820
12000347 Common Expenses	\$0	796,613.76	613.26	444,768.72	-	-	995.51	70,478.83	\$0	\$1,313,470
Total All Programs	<u>\$1,595,914</u>	<u>\$3,769,752</u>	<u>\$744,538</u>	<u>\$7,692,721</u>	<u>\$869,667</u>	<u>\$31,083,922</u>	<u>\$423,080</u>	<u>\$549,817</u>	<u>(\$213,011)</u>	<u>\$46,516,401</u>

10

TAMPA ELECTRIC COMPANY
Conservation Program Costs per Program
Variance - Actual vs. Projected
For Months January 2015 through December 2015

Program Name	Capital Investment	Payroll & Benefits	Materials & Supplies	Outside Services	Advertising	Incentives	Vehicles	Other	Program Revenues	Total
12000353- Energy Audits	\$0	\$28,038	\$3,289	\$59,680	\$101,632	(\$1)	\$36,951	\$15,688	\$0	245,278
12000381 Residential Ceiling Insulation	\$0	(\$3,556)	\$182	\$4,032	\$0	(\$46,064)	(\$6,801)	\$1,505	\$0	(50,702)
12000391 Residential Duct Repair	\$0	(\$6,631)	(\$125)	\$3,492	\$0	(\$52,799)	(\$6,680)	\$4,905	\$0	(57,838)
12000419 Residential Electronically Commutated Motors	\$0	(\$66)	\$0	\$105	\$0	\$135	\$0	(\$135)	\$0	39
12000375 Energy Education, Awareness and Agency Outreach	\$0	(\$3,608)	\$1,523	\$8,413	\$0	(\$0)	(\$843)	(\$6,112)	\$0	(627)
12000431 Energy Star for New Homes	\$0	(\$13,599)	\$682	(\$778)	\$0	\$351,475	(\$149)	(\$1,970)	\$0	335,662
12000349 Residential Heating and Cooling	\$0	(\$4,173)	\$682	\$11,922	\$0	\$147,025	(\$16)	\$1,410	\$0	156,851
12000425 Neighborhood Weatherization	\$0	(\$36,751)	(\$100)	\$268,005	\$0	\$428,320	(\$1,201)	(\$1,835)	\$0	656,438
12000433 Energy Planner	(\$19,186)	\$35,452	\$462,138	\$165,690	\$37,450	\$0	(\$41,891)	\$55,797	\$0	695,450
12000365 Residential Wall Insulation	\$0	\$801	\$0	\$84	\$0	\$1,493	\$0	\$0	\$0	2,378
12000367 Residential Window Replacement	\$0	(\$1,206)	\$682	\$6,540	\$0	(\$53,553)	(\$164)	(\$125)	\$0	(47,826)
12000421 Residential HVAC Re-Commissioning	\$0	\$1,372	\$0	\$1,950	\$0	\$5,025	\$0	\$0	\$0	8,347
12000373 Residential Window Film	\$0	\$4,230	\$0	\$1,670	\$0	\$44,067	\$41	\$0	\$0	50,009
12000351 Prime Time	\$0	(\$67,535)	(\$8,149)	(\$165,720)	\$0	\$49,023	\$7,961	\$7,483	\$0	(176,938)
12000397 Commercial Ceiling Insulation	\$0	(\$6,054)	\$0	\$36	\$0	(\$115,707)	(\$344)	\$0	\$0	(122,069)
12000411 Commercial Chiller	\$0	(\$1,503)	\$0	\$59	\$0	(\$18,001)	(\$125)	\$0	\$0	(19,569)
12000371 Cogeneration	\$0	\$4,862	\$0	\$0	\$0	\$0	\$52	\$0	\$0	4,914
12000389 Conservation Value	\$0	(\$6,154)	\$0	(\$2,397)	\$0	(\$196,133)	(\$126)	(\$0)	\$0	(204,810)
12000443 Cool Roof	\$0	(\$15,727)	\$0	\$315	\$0	(\$107,070)	(\$320)	\$0	\$0	(122,801)
12000429 Commercial Cooling	\$0	\$5,937	\$0	\$297	\$0	\$16,262	(\$99)	(\$0)	\$0	22,397
12000409 Demand Response	\$0	(\$3,103)	\$0	\$1,530,000	\$0	(\$1,000,000)	\$107	\$3,058	\$0	530,062
12000377 Commercial Duct Repair	\$0	(\$12,116)	\$0	\$119	\$0	\$5,650	(\$182)	(\$250)	\$0	(6,779)
12000441 Commercial ECM	\$0	(\$390)	\$0	(\$464)	\$0	\$13,937	(\$50)	\$0	\$0	13,033
12000379 Industrial Load Management (GLSM 2&3)	\$0	\$1,335	\$8,899	\$427	\$0	\$952,842	\$1,661	\$910	\$0	966,074
12000385 Lighting Conditioned Space	\$0	(\$3,293)	\$102	\$258	\$0	\$38,536	\$272	\$64	\$0	35,940
12003201 Lighting Non-Conditioned Space	\$0	(\$5,610)	\$0	\$0	\$0	(\$14,022)	(\$1)	(\$50)	\$0	(19,683)
12000413 Lighting Occupancy Sensors	\$0	(\$755)	\$0	\$77	\$0	(\$28,950)	(\$103)	\$0	\$0	(29,731)
12000383 CILM (GLSM 1)	\$0	\$486	\$0	\$0	\$0	\$1	\$4,410	\$0	\$0	4,897
12000415 Refrigeration Anti-condensate Control	\$0	(\$22)	\$0	\$24	\$0	\$0	\$0	\$0	\$0	2
12000387 Standby Generator	\$0	(\$26,588)	(\$0)	(\$1,000)	\$0	(\$4,967)	(\$63)	\$0	\$0	(32,618)
12003202 Thermal Energy Storage	\$0	(\$7,830)	\$0	(\$1,080)	\$0	(\$60,000)	(\$500)	\$0	\$0	(69,410)
12000399 Commercial Wall Insulation	\$0	\$296	\$0	\$24	\$0	\$0	\$0	\$0	\$0	319
12000417 Commercial Water Heating	\$0	(\$65)	\$0	\$30	\$0	\$0	\$0	\$0	\$0	(35)
12000427 Conservation Research and Development	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	0
12000393 Renewable Energy Program	\$0	(\$526)	\$0	(\$215,848)	\$0	\$0	\$4,194	\$397	\$160,948	(50,834)
12000403- Renewable Energy Systems Initiative	\$0	\$10,412	\$0	(\$41,005)	\$0	(\$223,100)	\$196	\$0	\$0	(253,497)
12000445 Commercial ERV	\$0	\$1,190	\$0	\$0	\$0	\$0	\$0	\$0	\$0	1,190
12000437 Commercial Exit Signs	\$0	(\$1,205)	\$0	\$0	\$0	(\$1,200)	(\$50)	\$0	\$0	(2,455)
12000439 Commercial HVAC Re-commissioning	\$0	\$596	\$0	(\$781)	\$0	\$50,349	(\$50)	\$0	\$0	50,114
12000401 Commercial Motors	\$0	(\$175)	\$0	\$0	\$0	(\$200)	(\$50)	\$0	\$0	(425)
12000435 Commercial Roof Insulation	\$0	(\$189)	\$0	\$0	\$0	\$9,989	\$72,566	\$0	\$0	82,366
12000395 Commercial Window Film	\$0	(\$2,529)	\$0	\$0	\$0	\$30,854	\$11	\$0	\$0	28,336
12000347 Common Expenses	\$0	(\$36,876)	\$113	(\$64,043)	\$0	\$0	\$532	\$5,387	\$0	(\$94,888)
44 Total All Programs	(\$19,186)	(\$172,826)	\$469,919	\$1,570,132	\$139,082	\$223,218	\$69,147	\$86,128	\$160,948	\$2,526,562

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TAMPA ELECTRIC COMPANY
Description for Accounts
For Months January 2015 through December 2015

Internal Order	Program Name
12000359	Energy Audits
12000355	Energy Audits
12000357	Energy Audits
12000369	Energy Audits
12000363	Energy Audits
12000361	Energy Audits
12000381	Residential Ceiling Insulation
12000391	Residential Duct Repair
12000419	Residential Electronically Commutated Motors
12000375	Energy Education, Awareness and Agency Outreach
12000431	Energy Star for New Homes
12000349	Residential Heating and Cooling
12000425	Neighborhood Weatherization
12000433	Energy Planner
12000365	Residential Wall Insulation
12000367	Residential Window Replacement
12000421	Residential HVAC Re-Commissioning
12000373	Residential Window Film
12000351	Prime Time
12000397	Commercial Ceiling Insulation
12000411	Commercial Chiller
12000371	Cogeneration
12000389	Conservation Value
12000443	Cool Roof
12000429	Commercial Cooling
12000409	Demand Response
12000377	Commercial Duct Repair
12000441	Commercial ECM
12000379	Industrial Load Management (GSLM 2&3)
12000385	Lighting Conditioned Space
12003201	Lighting Non-Conditioned Space
12000413	Lighting Occupancy Sensors
12000383	CILM (GSLM 1)
12000415	Refrigeration Anti-condensate Control
12000387	Standby Generator
12003202	Thermal Energy Storage
12000399	Commercial Wall Insulation
12000417	Commercial Water Heating
12000427	Conservation Research and Development (R&D)
12000393	Renewable Energy Program
12000405	Renewable Energy Systems Initiative
12000405	Renewable Energy Systems Initiative
12000403	Renewable Energy Systems Initiative
12000407	Renewable Energy Systems Initiative
12000423	Renewable Energy Systems Initiative
12000445	Commercial ERV
12000437	Commercial Exit Signs
12000439	Commercial HVAC Re-Commissioning
12000401	Commercial Motors
12000435	Commercial Roof Insulation
12000395	Commercial Window Film
12000347	Common Expenses

TAMPA ELECTRIC COMPANY
Energy Conservation Adjustment
Summary of Expenses by Program by Month
For Months January 2015 through December 2015

Program Name	January	February	March	April	May	June	July	August	September	October	November	December	Total
12000353- Energy Audits	51,618	339,916	244,602	206,038	256,015	159,364	177,559	157,635	174,069	199,996	252,879	247,045	2,466,735
12000381 Residential Ceiling Insulation	37,064	67,701	63,241	113,580	50,384	57,670	57,677	69,520	71,404	81,547	40,273	44,035	754,096
12000391 Residential Duct Repair	49,157	33,863	21,624	66,230	20,810	52,283	33,696	22,151	41,532	41,650	25,037	22,644	430,677
12000419 Residential Electronically Commutated Motors	47	89	228	-	-	-	135	-	-	135	105	-	738
12000375 Energy Education, Awareness and Agency Outre	5,323	19,031	3,821	4,971	8,191	15,645	2,783	1,000	18,619	4,798	5,441	4,662	94,285
12000431 Energy Star for New Homes	188,075	208,211	185,805	150,516	122,063	194,671	223,904	151,099	242,172	201,398	188,685	196,008	2,252,606
12000349 Residential Heating and Cooling	99,880	65,441	99,099	144,469	173,961	189,546	276,862	104,235	96,345	127,648	175,186	41,711	1,594,383
12000425 Neighborhood Weatherization	177,200	256,760	191,629	307,598	194,152	508,769	305,387	383,800	419,599	340,886	267,884	640,613	3,994,277
12000433 Energy Planner	278,722	315,739	276,896	320,246	285,727	278,129	285,699	286,350	238,451	364,289	315,467	731,522	3,977,237
12000365 Residential Wall Insulation	100	197	1,458	238	500	866	12,563	236	1,466	394	1,854	194	20,067
12000367 Residential Window Replacement	68,547	56,960	69,352	53,718	86,516	70,857	60,105	62,046	6,868	170,781	2,036	44,191	751,977
12000421 Residential HVAC Re-Commissioning	1,936	1,564	707	1,151	817	1,844	2,947	1,330	2,980	2,987	2,805	221	21,289
12000373 Residential Window Film	5,944	5,457	7,504	8,901	15,936	17,885	15,643	20,889	82,815	(58,396)	18,451	3,282	144,312
12000351 Prime Time	376,373	359,200	347,272	296,711	279,839	268,004	261,168	278,888	307,376	388,159	313,659	306,541	3,783,191
12000397 Commercial Ceiling Insulation	562	1,046	312	4,025	2,080	4,185	94,600	4,636	19,376	10,368	4,219	1,449	146,859
12000411 Commercial Chiller	-	-	1,450	486	10,345	9,056	4,813	-	-	55	55	440	26,699
12000371 Cogeneration	7,138	9,264	12,303	18,260	11,130	7,856	1,332	1,332	3,380	7,603	5,873	7,855	93,327
12000389 Conservation Value	142,975	847	891	1,540	87,799	1,134	117,587	837	1,237	1,690	1,326	33,812	391,676
12000443 Cool Roof	1,823	2,170	52,877	43,534	34,140	3,051	85,658	27,032	5,731	17,325	33,270	37,083	343,694
12000429 Commercial Cooling	20,628	6,565	30,099	4,289	1,857	5,363	6,293	3,459	4,490	30,522	19,525	5,666	138,756
12000409 Demand Response	611,677	310,238	307,342	310,642	307,703	307,367	307,342	307,342	307,966	309,534	308,643	307,119	4,002,913
12000377 Commercial Duct Repair	1,064	900	2,155	14,418	1,267	2,071	9,111	837	5,636	25,152	6,224	22,665	91,498
12000441 Commercial ECM	-	-	55	59	27	-	-	-	55	80	-	15,078	15,354
12000379 Industrial Load Management (GLSM 2&3)	1,180,408	1,266,793	1,261,844	1,665,135	1,142,698	1,191,771	1,206,462	1,150,228	983,554	1,260,096	1,394,774	1,370,160	15,073,923
12000385 Lighting Conditioned Space	7,890	3,007	5,848	19,608	6,264	12,567	28,597	53,608	15,958	20,571	23,659	10,223	207,799
12003201 Lighting Non-Conditioned Space	-	-	-	-	-	-	-	-	-	910	3,636	7,007	11,552
12000413 Lighting Occupancy Sensors	-	-	-	-	-	-	-	10,325	1,469	174	47	302	12,317
12000383 CLIM (GLSM 1)	368	368	428	1,556	1,362	1,362	1,789	1,362	1,362	1,817	1,392	(627)	12,536
12000415 Refrigeration Anti-condensate Control	-	-	-	-	-	-	-	-	108	-	-	24	132
12000387 Standby Generator	232,406	232,351	246,580	247,935	241,635	242,362	240,298	249,131	223,710	280,014	225,570	276,188	2,938,179
12003202 Thermal Energy Storage	-	-	-	-	-	-	-	-	-	-	-	-	-
12000399 Commercial Wall Insulation	-	-	-	-	-	-	-	422	-	-	39	24	484
12000417 Commercial Water Heating	-	-	-	-	-	-	-	-	-	-	-	30	30
12000427 Conservation Research and Development	-	-	-	-	-	-	-	-	-	-	-	-	-
12000393 Renewable Energy Program	367	(11,918)	(10,293)	(10,055)	(8,908)	(11,506)	(11,814)	(9,814)	(11,284)	(10,383)	(10,674)	(11,251)	(117,534)
12000403- Renewable Energy Systems Initiative	4,286	7,162	53,790	70,221	343,685	263,449	171,290	95,281	101,524	16,426	24,187	124,681	1,275,980
12000445 Commercial ERV	-	-	-	-	-	-	-	-	-	-	-	-	-
12000437 Commercial Exit Signs	-	-	150	130	-	-	-	-	-	59	-	-	339
12000439 Commercial HVAC Re-commissioning	2,089	11,984	1,314	12,232	15,455	15,316	1,193	1,255	941	15,594	46,881	2,524	126,778
12000401 Commercial Motors	-	-	-	95	-	-	-	-	-	107	95	-	298
12000435 Commercial Roof Insulation	6,048	6,095	6,048	6,048	6,048	6,048	6,048	17,037	6,048	6,048	6,048	6,048	83,612
12000395 Commercial Window Film	108	233	189	841	508	2,724	894	27,269	386	3,711	822	2,134	39,820
12000347 Common Expenses	98,438	74,054	121,089	97,850	65,206	86,653	220,396	117,944	208,348	99,125	66,082	58,284	1,313,469
Total	3,658,259	3,651,284	3,607,708	4,183,215	3,765,215	3,966,361	4,208,016	3,598,702	3,583,693	3,962,872	3,771,452	4,559,585	46,516,362
Less: Amount Included in Base Rates	-	-	-	-	-	-	-	-	-	-	-	-	-
Recoverable Conservation Expenses	<u>3,658,259</u>	<u>3,651,284</u>	<u>3,607,708</u>	<u>4,183,215</u>	<u>3,765,215</u>	<u>3,966,361</u>	<u>4,208,016</u>	<u>3,598,702</u>	<u>3,583,693</u>	<u>3,962,872</u>	<u>3,771,452</u>	<u>4,559,585</u>	<u>46,516,362</u>

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TAMPA ELECTRIC COMPANY
Energy Conservation Adjustment
Calculation of True-up and Interest Provision
For Months January 2015 through December 2015

Description	January	February	March	April	May	June	July	August	September	October	November	December	Total
1 Residential Conservation Audit Fees (A)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2 Conservation Adjustment Revenues *	3,134,934	3,037,710	3,114,108	3,343,478	3,616,066	4,057,108	4,178,181	3,953,130	4,145,902	3,815,176	3,496,798	3,248,976	43,141,568
3 Total Revenues	3,134,934	3,037,710	3,114,108	3,343,478	3,616,066	4,057,108	4,178,181	3,953,130	4,145,902	3,815,176	3,496,798	3,248,976	43,141,568
4 Prior Period True-up	<u>520,784</u>	<u>520,784</u>	<u>520,784</u>	<u>520,784</u>	<u>520,784</u>	<u>520,784</u>	<u>520,784</u>	<u>520,784</u>	<u>520,784</u>	<u>520,784</u>	<u>520,784</u>	<u>520,786</u>	<u>6,249,410</u>
5 Conservation Revenue Applicable to Period	3,655,718	3,558,494	3,634,892	3,864,262	4,136,850	4,577,892	4,698,965	4,473,914	4,666,686	4,335,960	4,017,582	3,769,762	49,390,978
6 Conservation Expenses	<u>3,658,259</u>	<u>3,651,284</u>	<u>3,607,708</u>	<u>4,183,215</u>	<u>3,765,215</u>	<u>3,966,361</u>	<u>4,208,016</u>	<u>3,598,702</u>	<u>3,583,693</u>	<u>3,962,872</u>	<u>3,771,452</u>	<u>4,559,585</u>	46,516,362
7 True-up This Period (Line 5 - Line 6)	(2,541)	(92,790)	27,184	(318,953)	371,635	611,531	490,949	875,212	1,082,993	373,088	246,130	(789,823)	2,874,616
8 Interest Provision This Period	583	538	493	329	348	394	401	465	563	584	619	1,112	6,429
9 True-up & Interest Provision Beginning of Period	\$7,550,001	7,027,259	6,414,223	5,921,116	5,081,708	4,932,907	5,024,048	4,994,614	5,349,507	5,912,279	5,765,167	5,491,132	7,550,001
10 Prior Period True-up Collected (Refunded)	<u>(520,784)</u>	<u>(520,784)</u>	<u>(520,784)</u>	<u>(520,784)</u>	<u>(520,784)</u>	<u>(520,784)</u>	<u>(520,784)</u>	<u>(520,784)</u>	<u>(520,784)</u>	<u>(520,784)</u>	<u>(520,784)</u>	<u>(520,786)</u>	<u>(6,249,410)</u>
11 End of Period Total Net True-up	<u>\$7,027,259</u>	<u>\$6,414,223</u>	<u>\$5,921,116</u>	<u>\$5,081,708</u>	<u>\$4,932,907</u>	<u>\$5,024,048</u>	<u>\$4,994,614</u>	<u>\$5,349,507</u>	<u>\$5,912,279</u>	<u>\$5,765,167</u>	<u>\$5,491,132</u>	<u>\$4,181,635</u>	<u>\$4,181,636</u>

* Net of Revenue Taxes

(A) Included in Line 6

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TAMPA ELECTRIC COMPANY
Energy Conservation Adjustment
Calculation of True-up and Interest Provision
For Months January 2015 through December 2015

Interest Provision	January	February	March	April	May	June	July	August	September	October	November	December	Total
1 Beginning True-up Amount	\$7,550,001	\$7,027,259	\$6,414,223	\$5,921,116	\$5,081,708	\$4,932,907	\$5,024,048	\$4,994,614	\$5,349,507	\$5,912,279	\$5,765,167	\$5,491,132	
2 Ending True-up Amount Before Interest	7,026,676	6,413,685	5,920,623	5,081,379	4,932,559	5,023,654	4,994,213	5,349,042	5,911,716	5,764,583	5,490,513	4,180,523	
3 Total Beginning & Ending True-up	<u>14,576,677</u>	<u>13,440,944</u>	<u>12,334,846</u>	<u>11,002,495</u>	<u>10,014,267</u>	<u>9,956,561</u>	<u>10,018,261</u>	<u>10,343,656</u>	<u>11,261,223</u>	<u>11,676,862</u>	<u>11,255,680</u>	<u>9,671,655</u>	
4 Average True-up Amount (50% of Line 3)	<u>7,288,339</u>	<u>6,720,472</u>	<u>6,167,423</u>	<u>5,501,248</u>	<u>5,007,134</u>	<u>4,978,281</u>	<u>5,009,131</u>	<u>5,171,828</u>	<u>5,630,612</u>	<u>5,838,431</u>	<u>5,627,840</u>	<u>4,835,828</u>	
5 Interest Rate - First Day of Month	0.100%	0.100%	0.090%	0.090%	0.060%	0.100%	0.080%	0.110%	0.110%	0.130%	0.120%	0.150%	
6 Interest Rate - First Day of Next Month	0.100%	0.090%	0.090%	0.060%	0.100%	0.080%	0.110%	0.110%	0.130%	0.120%	0.150%	0.400%	
7 Total (Line 5 + Line 6)	0.200%	0.190%	0.180%	0.150%	0.160%	0.180%	0.190%	0.220%	0.240%	0.250%	0.270%	0.550%	
8 Average Interest Rate (50% of Line 7)	0.100%	0.095%	0.090%	0.075%	0.080%	0.090%	0.095%	0.110%	0.120%	0.125%	0.135%	0.275%	
9 Monthly Average Interest Rate (Line 8/12)	0.008%	0.008%	0.008%	0.006%	0.007%	0.008%	0.008%	0.009%	0.010%	0.010%	0.011%	0.023%	
10 Interest Provision (Line 4 x Line 9)	\$583	\$538	\$493	\$329	\$348	\$394	\$401	\$465	\$563	\$584	\$619	\$1,112	\$6,429

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TAMPA ELECTRIC COMPANY
Schedule of Capital Investment, Depreciation and Return
For Months January 2015 through December 2015

PRICE RESPONSIVE LOAD MANAGEMENT

Description	Beginning of Period	January	February	March	April	May	June	July	August	September	October	November	December	Total
1 Investment		\$ 158,229	\$ 119,344	\$ 162,381	\$ 155,227	\$ 157,052	\$ 117,872	\$ 150,242	\$ 55,480	\$ 103,829	\$ 54,610	\$ 136,485	\$ 36,378	\$1,407,130
2 Retirements		250,069	99,373	217,670	103,400	173,942	79,673	138,754	183,368	79,464	116,877	15,480	10,070	1,468,141
3 Depreciation Base		6,307,760	6,327,730	6,272,441	6,324,268	6,307,377	6,345,576	6,357,064	6,229,176	6,253,541	6,191,274	6,312,279	6,338,587	
4 Depreciation Expense		<u>105,895</u>	<u>105,296</u>	<u>105,001</u>	<u>104,973</u>	<u>105,264</u>	<u>105,441</u>	<u>105,855</u>	<u>104,885</u>	<u>104,023</u>	<u>103,707</u>	<u>104,196</u>	<u>105,424</u>	<u>1,259,960</u>
5 Cumulative Investment	6,399,599.64	\$6,307,760	\$6,327,730	\$6,272,441	\$6,324,268	\$6,307,377	\$6,345,576	\$6,357,064	\$6,229,176	\$6,253,541	\$6,191,274	\$6,312,279	\$6,338,587	\$6,338,587
6 Less: Accumulated Depreciation	3,021,239	2,877,065	2,882,988	2,770,319	2,771,892	2,703,214	2,728,982	2,696,083	2,617,600	2,642,159	2,628,989	2,717,705	2,813,059	2,813,059
7 Net Investment	<u>\$3,378,361</u>	<u>\$3,430,695</u>	<u>\$3,444,742</u>	<u>\$3,502,122</u>	<u>\$3,552,376</u>	<u>\$3,604,163</u>	<u>\$3,616,594</u>	<u>\$3,660,981</u>	<u>\$3,611,576</u>	<u>\$3,611,382</u>	<u>\$3,562,285</u>	<u>\$3,594,574</u>	<u>\$3,525,528</u>	<u>\$3,525,528</u>
8 Average Investment		3,404,528	3,437,719	3,473,432	3,527,249	3,578,270	3,610,379	3,638,788	3,636,279	3,611,479	3,586,834	3,578,430	3,560,051	
9 Return on Average Investment - Equity Component		20,099	20,295	20,506	20,824	21,125	21,314	21,391	21,376	21,230	21,085	21,036	20,928	251,209
10 Return on Average Investment - Debt Component		<u>5,772</u>	<u>5,828</u>	<u>5,888</u>	<u>5,980</u>	<u>6,066</u>	<u>6,121</u>	<u>5,904</u>	<u>5,900</u>	<u>5,860</u>	<u>5,820</u>	<u>5,806</u>	<u>5,776</u>	<u>70,721</u>
11 Total Depreciation and Return		<u>\$131,766</u>	<u>\$131,419</u>	<u>\$131,395</u>	<u>\$131,777</u>	<u>\$132,455</u>	<u>\$132,876</u>	<u>\$133,150</u>	<u>\$132,161</u>	<u>\$131,113</u>	<u>\$130,612</u>	<u>\$131,038</u>	<u>\$132,128</u>	<u>\$1,581,890</u>

Note: Depreciation expense is calculated using a useful life of 60 months.
Line 9 x 7.0844% x 1/12 (Jan-Jun) and Line 9 x 7.0542% x 1/12 (Jul-Dec). Based on ROE of 10.25% and weighted income tax rate of 38.575% (expansion factor of 1.632200).
Line 10 x 2.0343% x 1/12 (Jan-Jun) and Line 10 x 1.9471% x 1/12 (Jul-Dec).

TAMPA ELECTRIC COMPANY
Schedule of Capital Investment, Depreciation and Return
For Months January 2015 through December 2015

INDUSTRIAL LOAD MANAGEMENT

Description	Beginning of Period	January	February	March	April	May	June	July	August	September	October	November	December	Total
1 Investment		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$0
2 Retirements		-	-	-	-	-	-	-	-	-	-	-	-	0
3 Depreciation Base		55,126	55,126	55,126	55,126	55,126	55,126	55,126	55,126	55,126	55,126	55,126	55,126	
4 Depreciation Expense		919	919	919	919	919	919	919	919	919	919	919	919	11,028
5 Cumulative Investment	55,126.00	\$55,126	\$55,126	\$55,126	\$55,126	\$55,126	\$55,126	\$55,126	\$55,126	\$55,126	\$55,126	\$55,126	\$55,126	\$55,126
6 Less: Accumulated Depreciation	16,565	17,484	18,403	19,322	20,241	21,160	22,079	22,998	23,917	24,836	25,755	26,674	27,593	27,593
7 Net Investment	\$38,561	\$37,642	\$36,723	\$35,804	\$34,885	\$33,966	\$33,047	\$32,128	\$31,209	\$30,290	\$29,371	\$28,452	\$27,533	\$27,533
8 Average Investment		38,102	37,183	36,264	35,345	34,426	33,507	32,588	31,669	30,750	29,831	28,912	27,993	
9 Return on Average Investment		225	220	214	209	203	198	192	186	181	175	170	165	2,338
10 Return Requirements		65	63	61	60	58	57	53	51	50	48	47	45	658
11 Total Depreciation and Return		\$1,209	\$1,202	\$1,194	\$1,188	\$1,180	\$1,174	\$1,164	\$1,156	\$1,150	\$1,142	\$1,136	\$1,129	\$14,024

Note: Depreciation expense is calculated using a useful life of 60 months.
Line 9 x 7.2242% x 1/12 (Jan-Jun) and Line 9 x 7.2242% x1/12 (Jul-Dec). Based on ROE of 11.25% and weighted income tax rate of 38.575% (expansion factor of 1.632200).
Line 10 x 2.2101% x 1/12 (Jan-Jun) and Line 10 x 2.2101% x 1/12 (Jul-Dec).

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TAMPA ELECTRIC COMPANY
Reconciliation and Explanation of
Difference Between Filing and FPSC Audit
For Months January 2015 through December 2015

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

Program Description and Progress

Program Title: Energy Audits

Program Description: Energy audits are a conservation program designed to save demand and energy by increasing customer awareness of energy use in personal residences, commercial facilities and industrial plants. Five types of audits are available to Tampa Electric customers; three types are for residential class customers and two types are for commercial/industrial customers.

Program Accomplishments: January 1, 2015 to December 31, 2015

Number of customers participating:
Residential Walk-Through: 8,304
Residential Customer Assisted: 658
Residential Computer Assisted: 5
Commercial/Industrial: 913
Commercial/Industrial Comprehensive: 1

Program Fiscal Expenditures: January 1, 2015 to December 31, 2015

Actual expenses were \$2,466,824.

Program Progress Summary: Through this reporting period 335,194 customers have participated in on-site audits. Additionally, 123,078 customers have participated in company processed residential and commercial customer assisted audits.

Program Description and Progress

Program Title: Residential Ceiling Insulation

Program Description: The Residential Ceiling Insulation Program is designed to encourage customers to make cost-effective improvements to existing residences. The goal is to offer customer rebates for installing ceiling insulation to help reduce their energy consumption while reducing Tampa Electric's weather sensitive peak demand. Ceiling insulation is designed to reduce demand and energy by decreasing the load on residential air conditioning and heating equipment. Qualifying residential structures are eligible for a rebate based upon the total square footage of insulation installed over conditioned space. Customers will receive a certificate that is used as partial payment for the ceiling insulation installed.

Program Accomplishments: January 1, 2015 to December 31, 2015

Number of customers participating: 3,057

Program Fiscal Expenditures: January 1, 2015 to December 31, 2015

Actual expenses were \$754,096.

Program Progress Summary: Through this reporting period 120,530 customers have participated.

Program Description and Progress

Program Title: Residential Duct Repair

Program Description: The Residential Duct Repair Program is a conservation rebate program designed to reduce demand and energy by decreasing the load on residential HVAC equipment helping the customer reduce their energy consumption and reducing Tampa Electric's peak demand. This program eliminates or reduces areas of HVAC air distribution losses by sealing and repairing the ADS. The ADS is defined as the air handler, air ducts, return plenums, supply plenums and any connecting structure.

Program Accomplishments: January 1, 2015 to December 31, 2015

Number of customers participating: 1,895

Program Fiscal Expenditures: January 1, 2015 to December 31, 2015

Actual expenses were \$430,676.

Program Progress Summary: Through this reporting period 97,929 customers have participated.

Program Description and Progress

Program Title: Residential Electronically Commutated Motors (ECM)

Program Description: The Residential ECM Program is designed to encourage customers to make cost-effective improvements to existing residences. The goal is to offer customer rebates for installing an ECM to help reduce their energy consumption and reduce Tampa Electric's peak demand. ECM motors are designed to help residential customers improve the overall efficiency of their existing HVAC equipment by replacing the current induction motor in the air-handler with an ECM.

Program Accomplishments: January 1, 2015 to December 31, 2015

Number of customers participating: 4

Program Fiscal Expenditures: January 1, 2015 to December 31, 2015

Actual expenses were \$738.

Program Progress Summary: Through this reporting period five customers have participated.

Program Description and Progress

Program Title: Energy Education, Awareness and Agency Outreach

Program Description: The Energy Education, Awareness and Agency Outreach Program is comprised of three distinct initiatives. The Energy Education and Awareness portion of the program is designed to establish opportunities for engaging groups of customers and students in energy-efficiency related discussions in an organized setting. The Agency Outreach portion of the program will allow for delivery of energy efficiency kits that will help educate agency clients on practices that help to reduce energy consumption. The suggested practices will mirror the recommendations provided to customers who participate in a free energy audit.

Program Accomplishments: January 1, 2015 to December 31, 2015

In this reporting period Tampa Electric partnered with 4 local schools to present Energy Education to 1,500 students through 8 classroom presentations. Tampa Electric also continues to partner with Junior Achievement BizTown presenting Energy Education to 15,500 students representing 180 local schools. In addition, the company gave 36 presentations to civic organizations and distributed 1,124 energy saving kits to participating customers.

Program Fiscal Expenditures: January 1, 2015 to December 31, 2015

Actual expenses were \$94,285.

Program Progress Summary: Through this reporting period Tampa Electric has partnered with 107 local schools to present Energy Education to 34,126 students. In addition, the company gave 119 presentations to civic organizations that generated 637 customer assisted audits and distributed 4,341 energy saving kits to participating customers.

Program Description and Progress

Program Title: ENERGY STAR for New Homes

Program Description: The ENERGY STAR for New Homes Program is a residential new construction conservation program designed to reduce the growth of peak demand and energy in the residential new construction market. The program utilizes a rebate to encourage the construction of new homes to meet the requirements to achieve the ENERGY STAR certified new home label. By receiving this certificate, the new home will use less energy and demand which will help reduce the growth of Tampa Electric's peak demand. This program replaced the prior Residential New Construction program.

Program Accomplishments: January 1, 2015 to December 31, 2015

Number of customers participating: 2,494

Program Fiscal Expenditures: January 1, 2015 to December 31, 2015

Actual expenses were \$2,252,605.

Program Progress Summary: Through this reporting period 11,768 customers have participated.

Program Description and Progress

Program Title: Residential Heating and Cooling

Program Description: The Residential Heating and Cooling Program is designed to encourage customers to make cost-effective improvements to existing residences. The goal is to offer customer rebates for installing high efficiency heating and cooling systems to help reduce their energy consumption while reducing Tampa Electric's weather sensitive peak demand. High efficiency heating and cooling systems require less demand and energy as compared to standard systems. This program will rebate residential customers that install a qualifying air conditioning system.

Program Accomplishments: January 1, 2015 to December 31, 2015

Number of customers participating: 5,214

Program Fiscal Expenditures: January 1, 2015 to December 31, 2015

Actual expenses were \$1,594,382.

Program Progress Summary: Through this reporting period 194,361 customers have participated.

Program Description and Progress

Program Title: Neighborhood Weatherization

Program Description: The Neighborhood Weatherization Program is designed to assist low income families in reducing their energy usage. The goal of the program is to provide and install a package of conservation measures at no cost to the customer. Another key component will be educating families and promoting energy conservation techniques to help customers control and reduce their energy usage.

Program Accomplishments: January 1, 2015 to December 31, 2015

Number of customers participating: 7,912

Program Fiscal Expenditures: January 1, 2015 to December 31, 2015

Actual expenses were \$3,994,277.

Program Progress Summary: Through this reporting period 23,887 customers have participated.

Program Description and Progress

Program Title: Residential Price Responsive Load Management (Energy Planner)

Program Description: The company's program relies on a multi-tiered rate structure combined with price signals conveyed to participating customers during the day. This price information is designed to encourage customers to make behavioral or equipment usage changes to their energy consumption thereby achieving the desired high cost period load reduction to assist in meeting system peak.

Program Accomplishments: January 1, 2015 to December 31, 2015

Number of net customers participating: 717

Program Fiscal Expenditures: January 1, 2015 to December 31, 2015

Actual expenses were \$3,976,177.

Program Progress Summary: Through this reporting period 3,913 customers are participating.

Program Description and Progress

Program Title: Residential Wall Insulation

Program Description: The Residential Wall Insulation Program is designed to encourage customers to make cost-effective improvements to existing residences. The goal is to offer customer rebates for installing wall insulation to help reduce their energy consumption while reducing Tampa Electric's weather sensitive peak demand. Wall insulation is designed to reduce demand and energy by decreasing the load on residential air conditioning and heating equipment. Qualifying residential structures are eligible for a rebate based upon the total square footage of insulation installed in exterior walls adjacent to conditioned spaces. Customers will receive a certificate that is used as partial payment for the wall insulation installed.

Program Accomplishments: January 1, 2015 to December 31, 2015

Number of customers participating: 122

Program Fiscal Expenditures: January 1, 2015 to December 31, 2015

Actual expenses were \$20,067.

Program Progress Summary: Through this reporting period 185 customers have participated.

Program Description and Progress

Program Title: Residential Window Replacement

Program Description: The Residential Window Replacement Program is designed to encourage customers to make cost-effective improvements to existing residences. The goal is to offer customer rebates for replacing existing external windows with high performance windows that help reduce their energy consumption while reducing Tampa Electric's weather sensitive peak demand. High performance windows are designed to reduce demand and energy by decreasing the solar heat gain into a residence and in turn, decrease the load on residential air conditioning equipment. Qualifying residential structures are eligible for a rebate based upon the total square footage of exterior windows replaced.

Program Accomplishments: January 1, 2015 to December 31, 2015

Number of customers participating: 1,811

Program Fiscal Expenditures: January 1, 2015 to December 31, 2015

Actual expenses were \$751,977.

Program Progress Summary: Through this reporting period 10,307 customers have participated.

Program Description and Progress

Program Title: Residential HVAC Re-commissioning

Program Description: A conservation incentive program designed to help residential customers ensure HVAC equipment is operating at optimal efficiency through maintenance and equipment tune-up. This will in turn help participating customers reduce demand and energy usage and help to promote good long-term maintenance habits. This program was retired on November 2, 2015.

Program Accomplishments: January 1, 2015 to December 31, 2015

Number of customers participating: 138

Program Fiscal Expenditures: January 1, 2015 to December 31, 2015

Actual expenses were \$21,289.

Program Progress Summary: Through this reporting period 1,093 customers have participated.

Program Description and Progress

Program Title: Residential Window Film

Program Description: The Residential Window Film Program is designed to encourage customers to make cost-effective improvements. The goal is to offer customer incentives for making these improvements while helping them reduce energy consumption and reducing Tampa Electric's peak demand. This program was retired on November 2, 2015.

Program Accomplishments: January 1, 2015 to December 31, 2015

Number of customers participating: 379

Program Fiscal Expenditures: January 1, 2015 to December 31, 2015

Actual expenses were \$144,312.

Program Progress Summary: Through this reporting period 3,340 customers have participated.

Program Description and Progress

Program Title: Prime Time

Program Description: This load management incentive program encourages residential customers to allow the control for reducing weather-sensitive heating, cooling and water heating through a radio signal control mechanism. The participating customers receive monthly incentives as credits on their electric bills. Per Commission Order No. PSC-15-0434-CO-EG issued October 12, 2015, the Prime Time program is being systematically closed.

Program Accomplishments: January 1, 2015 to December 31, 2015

Number of net customers participating: -12,701

Program Fiscal Expenditures: January 1, 2015 to December 31, 2015

Actual expenses were \$3,783,189.

Program Progress Summary: Through this reporting period 13,579 customers are participating.

Program Description and Progress

Program Title: Commercial Ceiling Insulation

Program Description: The Commercial Ceiling Insulation Program is designed to encourage commercial/industrial customers to make cost-effective improvements to existing facilities. The goal is to offer customer rebates for installing ceiling insulation to help reduce their energy consumption and demand while reducing Tampa Electric's weather sensitive peak demand. Ceiling insulation is designed to reduce demand and energy by decreasing the load on commercial/industrial air conditioning and heating equipment. Qualifying structures are eligible for a rebate based upon the total square footage of insulation installed over conditioned space. Certificates for participation will be issued through energy audits or by direct evaluation of the existing building envelope.

Program Accomplishments: January 1, 2015 to December 31, 2015

Number of customers participating: 41

Program Fiscal Expenditures: January 1, 2015 to December 31, 2015

Actual expenses were \$146,857.

Program Progress Summary: Through this reporting period 292 customers have participated.

Program Description and Progress

Program Title: Commercial Chiller

Program Description: The Commercial Chiller Program is designed to encourage commercial/industrial customers to make cost-effective improvements to existing facilities and processes. The goal is to offer customer rebates for installing high efficiency electric water-cooled chillers and electric air-cooled chillers that exceed Florida's Building Code and minimum product manufacturing standards in commercial/industrial buildings or processes to help reduce their energy consumption and demand while reducing Tampa Electric's weather sensitive peak demand. High efficiency chillers reduce demand and energy by decreasing the load on air conditioning and heating equipment or process cooling equipment during weather sensitive peak demand times.

Program Accomplishments: January 1, 2015 to December 31, 2015

Number of customers participating: 7

Program Fiscal Expenditures: January 1, 2015 to December 31, 2015

Actual expenses were \$26,699.

Program Progress Summary: Through this reporting period 56 customers have participated.

Program Description and Progress

Program Title:	<u>Cogeneration</u>
Program Description:	Tampa Electric's Cogeneration program is administered by a professional team experienced in working with cogenerators. The group manages functions related to coordination with Qualifying Facilities ("QFs") including negotiations, agreements and informational requests; functions related to governmental, regulatory and legislative bodies; research, development, data acquisition and analysis; economic evaluations of existing and proposed QFs as well as the preparation of Tampa Electric's Annual Twenty-Year Cogeneration Forecast.
Program Accomplishments:	<u>January 1, 2015 to December 31, 2015</u> The company continued communication and interaction with all present and potential customers. Tampa Electric completed the development and publication of the 20-Year Cogeneration Forecast, reviewed proposed cogeneration opportunities for cost-effectiveness and answered data requests from existing cogenerators. The company also attended meetings as scheduled with cogeneration customer personnel at selected facilities.
Program Fiscal Expenditures:	<u>January 1, 2015 to December 31, 2015</u> Actual expenses were \$93,327.
Program Progress Summary:	The total maximum generation by electrically interconnected cogeneration during 2015 was approximately 327 MW and 2,153 GWh. This amount was lower than 2014 due to one facility no longer meeting the requirements of a QF. The company continues interaction with current and potential cogeneration developers regarding on-going and future cogeneration activities. Currently there are 10 QFs with generation on-line in Tampa Electric's service area.

Program Description and Progress

Program Title: Conservation Value

Program Description: The Conservation Value Program is designed to encourage commercial/industrial customers to make cost-effective improvements to existing facilities. This rebate program is designed to recognize those investments in demand shifting or demand reduction measures that reduce Tampa Electric's peak demand. Measures funded in this program will not be covered under any other Tampa Electric commercial/industrial conservation programs. Candidates are identified through energy audits or their engineering consultants can submit proposals for funding which offer demand and energy reduction during weather sensitive peak periods helping reduce Tampa Electric's peak demand.

Program Accomplishments: January 1, 2015 to December 31, 2015

Number of customers participating: 4

Program Fiscal Expenditures: January 1, 2015 to December 31, 2015

Actual expenses were \$391,676.

Program Progress Summary: Through this reporting period 49 customers have participated.

Included are four cost-effectiveness calculation title sheets on the following pages for the following approved conservation value program projects:

Plastipak: This project is a stored compressed air project which will offset summer and winter demand by charging a large compressed air storage vessel. During peak hours the facilities large air compressors will be turned off or set back to save demand. The cost-effectiveness analysis was performed on February 18, 2014. Due to the requirement of the conservation program to demonstrate at least 90 days of successful operation, the facility received its first portion of the approved rebate in May 2015.

Port of Tampa: This project is a thermal energy storage project. The cost-effectiveness analysis was performed on February 18, 2014. Due to the requirement of the conservation program to demonstrate at least 90 days of successful operation, the facility received its first portion of the approved rebate in March 2016.

Lamb Elementary School: This project is a thermal energy storage project. The cost-effectiveness analysis was performed on March 20, 2015. Due to the requirement of the conservation program to demonstrate at least 90 days of successful operation, the facility has yet to demonstrate successful operation.

Jewish Community Center: This project is a thermal energy storage project. The cost-effectiveness analysis was performed on April 24, 2015. Due to the requirement of the conservation program to demonstrate at least 90 days of successful operation, the facility has yet to demonstrate successful operation.

INPUT DATA - PART 1
PROGRAM TITLE: Conservation Value - PlastiPak

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PROGRAM DEMAND SAVINGS & LINE LOSSES

I. (1) CUSTOMER KW REDUCTION AT THE METER	683.000 KW /CUST
I. (2) GENERATOR KW REDUCTION PER CUSTOMER	686.042 KW GEN/CUST
I. (3) KW LINE LOSS PERCENTAGE	6.5 %
I. (4) GENERATION KWH REDUCTION PER CUSTOMER	1,777,618 KWH/CUST/YR
I. (5) KWH LINE LOSS PERCENTAGE	5.8 %
I. (6) GROUP LINE LOSS MULTIPLIER	1
I. (7) CUSTOMER KWH PROGRAM INCREASE AT METER	0 KWH/CUST/YR
I. (8)* CUSTOMER KWH REDUCTION AT METER	1,674,516 KWH/CUST/YR

ECONOMIC LIFE & K FACTORS

II. (1) STUDY PERIOD FOR CONSERVATION PROGRAM	25 YEARS
II. (2) GENERATOR ECONOMIC LIFE	25 YEARS
II. (3) T & D ECONOMIC LIFE	25 YEARS
II. (4) K FACTOR FOR GENERATION	1.4759
II. (5) K FACTOR FOR T & D	1.4759
II. (6)* SWITCH REV REQ(0) OR VAL-OF-DEF (1)	0

UTILITY & CUSTOMER COSTS

III. (1) UTILITY NONRECURRING COST PER CUSTOMER	3500.00 \$/CUST
III. (2) UTILITY RECURRING COST PER CUSTOMER	0 \$/CUST/YR
III. (3) UTILITY COST ESCALATION RATE	2.4 %
III. (4) CUSTOMER EQUIPMENT COST	486368.00 \$/CUST
III. (5) CUSTOMER EQUIPMENT ESCALATION RATE	2.1 %
III. (6) CUSTOMER O & M COST	0 \$/CUST/YR
III. (7) CUSTOMER O & M ESCALATION RATE	2.1 %
III. (8)* CUSTOMER TAX CREDIT PER INSTALLATION	0 \$/CUST
III. (9)* CUSTOMER TAX CREDIT ESCALATION RATE	0 %
III. (10)* INCREASED SUPPLY COSTS	0 \$/CUST/YR
III. (11)* SUPPLY COSTS ESCALATION RATE	0 %
III. (12)* UTILITY DISCOUNT RATE	0.07937
III. (13)* UTILITY AFUDC RATE	0.0816
III. (14)* UTILITY NON RECURRING REBATE/INCENTIVE	173708.33 \$/CUST
III. (15)* UTILITY RECURRING REBATE/INCENTIVE	0.00 \$/CUST/YR
III. (16)* UTILITY REBATE/INCENTIVE ESCAL RATE	0 %

AVOIDED GENERATOR, TRANS. & DIST COSTS

IV. (1) BASE YEAR	2014
IV. (2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2020
IV. (3) IN-SERVICE YEAR FOR AVOIDED T & D	2015
IV. (4) BASE YEAR AVOIDED GENERATING UNIT COST	585.19 \$/KW
IV. (5) BASE YEAR AVOIDED TRANSMISSION COST	11.51 \$/KW
IV. (6) BASE YEAR DISTRIBUTION COST	55.94 \$/KW
IV. (7) GEN, TRAN, & DIST COST ESCALATION RATE	2.4 %
IV. (8) GENERATOR FIXED O & M COST	11.67 \$/KW/YR
IV. (9) GENERATOR FIXED O&M ESCALATION RATE	2.4 %
IV. (10) TRANSMISSION FIXED O & M COST	2.51 \$/KW/YR
IV. (11) DISTRIBUTION FIXED O & M COST	11.01 \$/KW/YR
IV. (12) T&D FIXED O&M ESCALATION RATE	2.4 %
IV. (13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.184 CENTS/KWH
IV. (14) GENERATOR VARIABLE O&M COST ESCALATION RATE	2.4 %
IV. (15) GENERATOR CAPACITY FACTOR	3.1 %
IV. (16) AVOIDED GENERATING UNIT FUEL COST	4.48 CENTS/KWH
IV. (17) AVOIDED GEN UNIT FUEL ESCALATION RATE	4.84 %
IV. (18)* AVOIDED PURCHASE CAPACITY COST PER KW	0 \$/KW/YR
IV. (19)* CAPACITY COST ESCALATION RATE	0 %

NON-FUEL ENERGY AND DEMAND CHARGES

V. (1) NON-FUEL COST IN CUSTOMER BILL	1.754 CENTS/KWH
V. (2) NON-FUEL ESCALATION RATE	1 %
V. (3) CUSTOMER DEMAND CHARGE PER KW	10.610 \$/KW/MO
V. (4) DEMAND CHARGE ESCALATION RATE	1 %
V. (5)* DIVERSITY and ANNUAL DEMAND ADJUSTMENT FACTOR FOR CUSTOMER BILL	0.22

CALCULATED BENEFITS AND COSTS

(1)* TRC TEST - BENEFIT/COST RATIO	3.69
(2)* PARTICIPANT NET BENEFITS (NPV)	1,230
(3)* RIM TEST - BENEFIT/COST RATIO	1.05

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INPUT DATA - PART 1
PROGRAM TITLE: Conservation Value - Tampa Port Authority

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PROGRAM DEMAND SAVINGS & LINE LOSSES

I. (1) CUSTOMER KW REDUCTION AT THE METER	162.000 KW /CUST
I. (2) GENERATOR KW REDUCTION PER CUSTOMER	129.139 KW GEN/CUST
I. (3) KW LINE LOSS PERCENTAGE	6.5 %
I. (4) GENERATION KWH REDUCTION PER CUSTOMER	10,616 KWH/CUST/YR
I. (5) KWH LINE LOSS PERCENTAGE	5.8 %
I. (6) GROUP LINE LOSS MULTIPLIER	1
I. (7) CUSTOMER KWH PROGRAM INCREASE AT METER	0 KWH/CUST/YR
I. (8)* CUSTOMER KWH REDUCTION AT METER	10,000 KWH/CUST/YR

ECONOMIC LIFE & K FACTORS

II. (1) STUDY PERIOD FOR CONSERVATION PROGRAM	25 YEARS
II. (2) GENERATOR ECONOMIC LIFE	25 YEARS
II. (3) T & D ECONOMIC LIFE	25 YEARS
II. (4) K FACTOR FOR GENERATION	1.4759
II. (5) K FACTOR FOR T & D	1.4759
(6)* SWITCH REV REQ(0) OR VAL-OF-DEF (1)	0

UTILITY & CUSTOMER COSTS

III. (1) UTILITY NONRECURRING COST PER CUSTOMER	1000.00 \$/CUST
III. (2) UTILITY RECURRING COST PER CUSTOMER	0 \$/CUST/YR
III. (3) UTILITY COST ESCALATION RATE	2.4 %
III. (4) CUSTOMER EQUIPMENT COST	132250.00 \$/CUST
III. (5) CUSTOMER EQUIPMENT ESCALATION RATE	2.1 %
III. (6) CUSTOMER O & M COST	0 \$/CUST/YR
III. (7) CUSTOMER O & M ESCALATION RATE	2.1 %
III. (8)* CUSTOMER TAX CREDIT PER INSTALLATION	0 \$/CUST
III. (9)* CUSTOMER TAX CREDIT ESCALATION RATE	0 %
III. (10)* INCREASED SUPPLY COSTS	0 \$/CUST/YR
III. (11)* SUPPLY COSTS ESCALATION RATE	0 %
III. (12)* UTILITY DISCOUNT RATE	0.07937
III. (13)* UTILITY AFUDC RATE	0.0816
III. (14)* UTILITY NON RECURRING REBATE/INCENTIVE	25500.00 \$/CUST
III. (15)* UTILITY RECURRING REBATE/INCENTIVE	0.00 \$/CUST/YR
III. (16)* UTILITY REBATE/INCENTIVE ESCAL RATE	0 %

AVOIDED GENERATOR, TRANS. & DIST COSTS

IV. (1) BASE YEAR	2014
IV. (2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2020
IV. (3) IN-SERVICE YEAR FOR AVOIDED T & D	2015
IV. (4) BASE YEAR AVOIDED GENERATING UNIT COST	585.19 \$/KW
IV. (5) BASE YEAR AVOIDED TRANSMISSION COST	11.51 \$/KW
IV. (6) BASE YEAR DISTRIBUTION COST	55.94 \$/KW
IV. (7) GEN, TRAN, & DIST COST ESCALATION RATE	2.4 %
IV. (8) GENERATOR FIXED O & M COST	11.67 \$/KW/YR
IV. (9) GENERATOR FIXED O&M ESCALATION RATE	2.4 %
IV. (10) TRANSMISSION FIXED O & M COST	2.51 \$/KW/YR
IV. (11) DISTRIBUTION FIXED O & M COST	11.01 \$/KW/YR
IV. (12) T&D FIXED O&M ESCALATION RATE	2.4 %
IV. (13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.184 CENTS/KWH
IV. (14) GENERATOR VARIABLE O&M COST ESCALATION RATE	2.4 %
IV. (15) GENERATOR CAPACITY FACTOR	3.1 %
IV. (16) AVOIDED GENERATING UNIT FUEL COST	4.48 CENTS/KWH
IV. (17) AVOIDED GEN UNIT FUEL ESCALATION RATE	4.84 %
IV. (18)* AVOIDED PURCHASE CAPACITY COST PER KW	0 \$/KW/YR
IV. (19)* CAPACITY COST ESCALATION RATE	0 %

NON-FUEL ENERGY AND DEMAND CHARGES

V. (1) NON-FUEL COST IN CUSTOMER BILL	1.754 CENTS/KWH
V. (2) NON-FUEL ESCALATION RATE	1 %
V. (3) CUSTOMER DEMAND CHARGE PER KW	10.610 \$/KW/MO
V. (4) DEMAND CHARGE ESCALATION RATE	1 %
V. (5)* DIVERSITY and ANNUAL DEMAND ADJUSTMENT FACTOR FOR CUSTOMER BILL	0.49

CALCULATED BENEFITS AND COSTS

(1)* TRC TEST - BENEFIT/COST RATIO	1.18
(2)* PARTICIPANT NET BENEFITS (NPV)	23
(3)* RIM TEST - BENEFIT/COST RATIO	1.01

INPUT DATA - PART 1
PROGRAM TITLE: Conservation Value - Lamb ES

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PROGRAM DEMAND SAVINGS & LINE LOSSES

I. (1) CUSTOMER KW REDUCTION AT THE METER	195.900 KW /CUST
I. (2) GENERATOR KW REDUCTION PER CUSTOMER	177.391 KW GEN/CUST
I. (3) KW LINE LOSS PERCENTAGE	7.00 %
I. (4) GENERATION KWH REDUCTION PER CUSTOMER	0 KWH/CUST/YR
I. (5) KWH LINE LOSS PERCENTAGE	5.20 %
I. (6) GROUP LINE LOSS MULTIPLIER	1
I. (7) CUSTOMER KWH PROGRAM INCREASE AT METER	0 KWH/CUST/YR
I. (8)* CUSTOMER KWH REDUCTION AT METER	0 KWH/CUST/YR

ECONOMIC LIFE & K FACTORS

II. (1) STUDY PERIOD FOR CONSERVATION PROGRAM	25 YEARS
II. (2) GENERATOR ECONOMIC LIFE	25 YEARS
II. (3) T & D ECONOMIC LIFE	25 YEARS
II. (4) K FACTOR FOR GENERATION	1.4600
II. (5) K FACTOR FOR T & D	1.4600
II. (6)* SWITCH REV REQ(0) OR VAL-OF-DEF (1)	0

UTILITY & CUSTOMER COSTS

III. (1) UTILITY NONRECURRING COST PER CUSTOMER	2,100.00 \$/CUST
III. (2) UTILITY RECURRING COST PER CUSTOMER	0.00 \$/CUST/YR
III. (3) UTILITY COST ESCALATION RATE	2.50 %
III. (4) CUSTOMER EQUIPMENT COST	85,000.00 \$/CUST
III. (5) CUSTOMER EQUIPMENT ESCALATION RATE	2.30 %
III. (6) CUSTOMER O & M COST	0.00 \$/CUST/YR
III. (7) CUSTOMER O & M ESCALATION RATE	2.30 %
III. (8)* CUSTOMER TAX CREDIT PER INSTALLATION	0.00 \$/CUST
III. (9)* CUSTOMER TAX CREDIT ESCALATION RATE	0.00 %
III. (10)* INCREASED SUPPLY COSTS	0.00 \$/CUST/YR
III. (11)* SUPPLY COSTS ESCALATION RATE	0.00 %
III. (12)* UTILITY DISCOUNT RATE	0.07287
III. (13)* UTILITY AFUDC RATE	0.0647
III. (14)* UTILITY NON RECURRING REBATE/INCENTIVE	48825.91 \$/CUST
III. (15)* UTILITY RECURRING REBATE/INCENTIVE	0.00 \$/CUST/YR
III. (16)* UTILITY REBATE/INCENTIVE ESCAL RATE	0.00 %

AVOIDED GENERATOR, TRANS. & DIST COSTS

IV. (1) BASE YEAR	2015
IV. (2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2021
IV. (3) IN-SERVICE YEAR FOR AVOIDED T & D	2016
IV. (4) BASE YEAR AVOIDED GENERATING UNIT COST	594.99 \$/KW
IV. (5) BASE YEAR AVOIDED TRANSMISSION COST	11.92 \$/KW
IV. (6) BASE YEAR DISTRIBUTION COST	57.96 \$/KW
IV. (7) GEN, TRAN, & DIST COST ESCALATION RATE	2.50 %
IV. (8) GENERATOR FIXED O & M COST	11.63 \$/KW/YR
IV. (9) GENERATOR FIXED O&M ESCALATION RATE	2.50 %
IV. (10) TRANSMISSION FIXED O & M COST	2.95 \$/KW/YR
IV. (11) DISTRIBUTION FIXED O & M COST	10.84 \$/KW/YR
IV. (12) T&D FIXED O&M ESCALATION RATE	2.50 %
IV. (13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.188 CENTS/KWH
IV. (14) GENERATOR VARIABLE O&M COST ESCALATION RATE	2.50 %
IV. (15) GENERATOR CAPACITY FACTOR	5.50 %
IV. (16) AVOIDED GENERATING UNIT FUEL COST	4.38 CENTS/KWH
IV. (17) AVOIDED GEN UNIT FUEL ESCALATION RATE	4.13 %
IV. (18)* AVOIDED PURCHASE CAPACITY COST PER KW	0.00 \$/KW/YR
IV. (19)* CAPACITY COST ESCALATION RATE	0.00 %

NON-FUEL ENERGY AND DEMAND CHARGES

V. (1) NON-FUEL COST IN CUSTOMER BILL	1.988 CENTS/KWH
V. (2) NON-FUEL ESCALATION RATE	1.00 %
V. (3) CUSTOMER DEMAND CHARGE PER KW	10.740 \$/KW/MO
V. (4) DEMAND CHARGE ESCALATION RATE	1.00 %
V. (5)* DIVERSITY and ANNUAL DEMAND ADJUSTMENT FACTOR FOR CUSTOMER BILL	0.61

CALCULATED BENEFITS AND COSTS

(1)* TRC TEST - BENEFIT/COST RATIO	2.65
(2)* PARTICIPANT NET BENEFITS (NPV)	768
(3)* RIM TEST - BENEFIT/COST RATIO	1.00

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FINAL ECCR 2015 TRUE-UP
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INPUT DATA - PART 1
PROGRAM TITLE: Conservation Value - Jewish Community Center

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PROGRAM DEMAND SAVINGS & LINE LOSSES

I. (1) CUSTOMER KW REDUCTION AT THE METER	142.700 KW /CUST
I. (2) GENERATOR KW REDUCTION PER CUSTOMER	129.218 KW GEN/CUST
I. (3) KW LINE LOSS PERCENTAGE	7.00 %
I. (4) GENERATION KWH REDUCTION PER CUSTOMER	0 KWH/CUST/YR
I. (5) KWH LINE LOSS PERCENTAGE	5.20 %
I. (6) GROUP LINE LOSS MULTIPLIER	1
I. (7) CUSTOMER KWH PROGRAM INCREASE AT METER	0 KWH/CUST/YR
I. (8)* CUSTOMER KWH REDUCTION AT METER	0 KWH/CUST/YR

ECONOMIC LIFE & K FACTORS

II. (1) STUDY PERIOD FOR CONSERVATION PROGRAM	25 YEARS
II. (2) GENERATOR ECONOMIC LIFE	25 YEARS
II. (3) T & D ECONOMIC LIFE	25 YEARS
II. (4) K FACTOR FOR GENERATION	1.4600
II. (5) K FACTOR FOR T & D	1.4600
II. (6)* SWITCH REV REQ(0) OR VAL-OF-DEF (1)	0

UTILITY & CUSTOMER COSTS

III. (1) UTILITY NONRECURRING COST PER CUSTOMER	0.00 \$/CUST
III. (2) UTILITY RECURRING COST PER CUSTOMER	0.00 \$/CUST/YR
III. (3) UTILITY COST ESCALATION RATE	2.50 %
III. (4) CUSTOMER EQUIPMENT COST	42,000.00 \$/CUST
III. (5) CUSTOMER EQUIPMENT ESCALATION RATE	2.30 %
III. (6) CUSTOMER O & M COST	0.00 \$/CUST/YR
III. (7) CUSTOMER O & M ESCALATION RATE	2.30 %
III. (8)* CUSTOMER TAX CREDIT PER INSTALLATION	0.00 \$/CUST
III. (9)* CUSTOMER TAX CREDIT ESCALATION RATE	0.00 %
III. (10)* INCREASED SUPPLY COSTS	0.00 \$/CUST/YR
III. (11)* SUPPLY COSTS ESCALATION RATE	0.00 %
III. (12)* UTILITY DISCOUNT RATE	0.07287
III. (13)* UTILITY AFUDC RATE	0.0647
III. (14)* UTILITY NON RECURRING REBATE/INCENTIVE	18708.56 \$/CUST
III. (15)* UTILITY RECURRING REBATE/INCENTIVE	0.00 \$/CUST/YR
III. (16)* UTILITY REBATE/INCENTIVE ESCAL RATE	0.00 %

AVOIDED GENERATOR, TRANS. & DIST COSTS

IV. (1) BASE YEAR	2015
IV. (2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2021
IV. (3) IN-SERVICE YEAR FOR AVOIDED T & D	2016
IV. (4) BASE YEAR AVOIDED GENERATING UNIT COST	594.99 \$/KW
IV. (5) BASE YEAR AVOIDED TRANSMISSION COST	11.92 \$/KW
IV. (6) BASE YEAR DISTRIBUTION COST	57.96 \$/KW
IV. (7) GEN, TRAN, & DIST COST ESCALATION RATE	2.50 %
IV. (8) GENERATOR FIXED O & M COST	11.63 \$/KW/YR
IV. (9) GENERATOR FIXED O&M ESCALATION RATE	2.50 %
IV. (10) TRANSMISSION FIXED O & M COST	2.95 \$/KW/YR
IV. (11) DISTRIBUTION FIXED O & M COST	10.84 \$/KW/YR
IV. (12) T&D FIXED O&M ESCALATION RATE	2.50 %
IV. (13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.188 CENTS/KWH
IV. (14) GENERATOR VARIABLE O&M COST ESCALATION RATE	2.50 %
IV. (15) GENERATOR CAPACITY FACTOR	5.50 %
IV. (16) AVOIDED GENERATING UNIT FUEL COST	4.38 CENTS/KWH
IV. (17) AVOIDED GEN UNIT FUEL ESCALATION RATE	4.13 %
IV. (18)* AVOIDED PURCHASE CAPACITY COST PER KW	0.00 \$/KW/YR
IV. (19)* CAPACITY COST ESCALATION RATE	0.00 %

NON-FUEL ENERGY AND DEMAND CHARGES

V. (1) NON-FUEL COST IN CUSTOMER BILL	1.988 CENTS/KWH
V. (2) NON-FUEL ESCALATION RATE	1.00 %
V. (3) CUSTOMER DEMAND CHARGE PER KW	10.740 \$/KW/MO
V. (4) DEMAND CHARGE ESCALATION RATE	1.00 %
V. (5)* DIVERSITY and ANNUAL DEMAND ADJUSTMENT FACTOR FOR CUSTOMER BILL	0.69

CALCULATED BENEFITS AND COSTS

(1)* TRC TEST - BENEFIT/COST RATIO	4.00
(2)* PARTICIPANT NET BENEFITS (NPV)	674
(3)* RIM TEST - BENEFIT/COST RATIO	1.00

Pursuant to Docket No. 900885-EG, Commission Order No. 24276, issued March 25, 1991 for the purpose of approving Tampa Electric Company's Conservation Value Program, the company is filing the attached table on the following page. Specifically, the table provides incentive payments as well as other program costs incurred during the January through December 2015 period. The table format was filed with the Commission on April 23, 1991 in response to the aforementioned order requesting the program participation standards.

**Tampa Electric Company
Conservation Value Program
Customer Incentive Payment Schedule
January 2015 - December 2015**

Customer Data	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15
Hillsborough County Schools - Durant²	\$60,000											
Average Summer Demand Savings:	540											
Average Winter Demand Savings:	0											
Annual Energy Savings:	0											
Hillsborough County Schools - Lennard/Thompson²	\$82,143						\$82,142					
Average Summer Demand Savings:	603											
Average Winter Demand Savings:	0											
Annual Energy Savings:	0											
Plastipak¹					\$86,853							
Average Summer Demand Savings:	595											
Average Winter Demand Savings:	683											
Annual Energy Savings:	1,674,516											
Hillsborough County Schools - Mintz¹							\$34,650					
Average Summer Demand Savings:	286											
Average Winter Demand Savings:	0											
Annual Energy Savings:	0											
Hillsborough County Schools - Cannella¹										\$32,868		
Average Summer Demand Savings:	253											
Average Winter Demand Savings:	0											
Annual Energy Savings:	0											
Tampa Port Authority³												
Average Summer Demand Savings:	125											
Average Winter Demand Savings:	0											
Annual Energy Savings:	0											
Hillsborough County Schools - Lamb³												
Average Summer Demand Savings:	196											
Average Winter Demand Savings:	0											
Annual Energy Savings:	0											
Jewish Community Center³												
Average Summer Demand Savings:	143											
Average Winter Demand Savings:	0											
Annual Energy Savings:	0											
Monthly Totals:	\$142,143	\$0	\$0	\$0	\$86,853	\$0	\$116,792	\$0	\$0	\$32,868	\$0	\$0

Total Incentives Paid for Period \$378,656

Total Other Expenses for Period: \$13,020

Total Incentives and Expenses for Period: \$391,676

Note 1: Project has achieved 90 days of successful operation, 1st half of rebate paid

Note 2: Project has achieved one year of successful operation, final portion of rebate paid

Note 3: Project awaiting final installation or has not achieved 90 days of successful operation, no portions of rebate paid

Program Description and Progress

Program Title: Cool Roof

Program Description: The Cool Roof Program is designed to encourage commercial/industrial customers to make cost-effective improvements to existing facilities. The goal is to offer customer rebates for installing a cool roof system above conditioned spaces to help reduce their energy consumption and demand while reducing Tampa Electric's weather sensitive peak demand. Cool roofs reduce the heat load transferred into a building or facility by reflecting some of the sun's energy which reduces the load on commercial/industrial air conditioning and cooling equipment. Qualifying structures are eligible for a rebate based upon the total square footage of cool roof PVC membrane installed over conditioned space.

Program Accomplishments: January 1, 2015 to December 31, 2015

Number of customers participating: 45

Program Fiscal Expenditures: January 1, 2015 to December 31, 2015

Actual expenses were \$343,694.

Program Progress Summary: Through this reporting period 194 customers have participated.

Program Description and Progress

Program Title: Commercial Cooling

Program Description: The Commercial Cooling Program is designed to encourage commercial/industrial customers to make cost-effective improvements to existing facilities. The goal is to offer customer rebates for installing high efficiency heating and cooling systems to help reduce their energy consumption and demand while reducing Tampa Electric's weather sensitive peak demand. High efficiency heating and cooling systems require less demand and energy as compared to standard systems. This program will rebate commercial/industrial customers that install a qualifying air conditioning system.

Program Accomplishments: January 1, 2015 to December 31, 2015

Number of customers participating: 234

Program Fiscal Expenditures: January 1, 2015 to December 31, 2015

Actual expenses were \$138,755.

Program Progress Summary: Through this reporting period 2,289 customers have participated.

Program Description and Progress

Program Title: Demand Response

Program Description: Tampa Electric's Commercial Demand Response is a conservation and load management program intended to help alter the company's system load curve by reducing summer and winter demand peaks. The company will contract for a turn-key program that will induce commercial/industrial customers to reduce their demand for electricity in response to market signals. Reductions will be achieved through a mix of emergency backup generation, energy management systems, raising cooling set-points and turning off or dimming lights, signage, etc.

Program Accomplishments: January 1, 2015 to December 31, 2015

See Program Progress Summary below.

Program Fiscal Expenditures: January 1, 2015 to December 31, 2015

Actual expenses were \$4,002,913.

Program Progress Summary: Through this reporting period the company's vendor maintains a portfolio of participating customers providing an available total of 40 MW for demand response control.

Program Description and Progress

Program Title: Commercial Duct Repair

Program Description: The Commercial Duct Repair Program is designed to encourage commercial/industrial customers to make cost-effective improvements to existing facilities. The goal of this conservation program is to offer rebates for sealing existing facility's duct system to reduce demand and energy by decreasing the load on commercial HVAC equipment. This program eliminates or reduces areas of HVAC air distribution losses by sealing and repairing the ADS.

Program Accomplishments: January 1, 2015 to December 31, 2015

Number of customers participating: 257

Program Fiscal Expenditures: January 1, 2015 to December 31, 2015

Actual expenses were \$91,410.

Program Progress Summary: Through this reporting period 10,934 customers have participated.

Program Description and Progress

Program Title: Commercial Electronically Commutated Motors (ECM)

Program Description: The Commercial ECM Program is designed to encourage commercial/industrial customers to make cost-effective improvements to existing facilities. The goal of this conservation program is to offer rebates for installing electronically commutated motors in existing air conditioning and refrigeration equipment. The program is aimed at reducing energy and the growth of weather sensitive peak demand by encouraging customers to replace current induction motors with high efficiency ECM that exceed minimum product manufacturing standards.

Program Accomplishments: January 1, 2015 to December 31, 2015

Number of customers participating: 85

Program Fiscal Expenditures: January 1, 2015 to December 31, 2015

Actual expenses were \$15,354.

Program Progress Summary: Through this reporting period 85 customers have participated.

Program Description and Progress

Program Title: Industrial Load Management (GSLM 2&3)

Program Description: This load management program is for large industrial customers with interruptible loads of 500 kW or greater.

Program Accomplishments: January 1, 2015 to December 31, 2015

Net new customers participating: 1

Program Fiscal Expenditures: January 1, 2015 to December 31, 2015

Actual expenses were \$15,073,926.

Program Progress Summary: This program was approved by the Commission in Docket No. 990037-EI, Order No. PSC-99-1778-FOF-EI, issued September 10, 1999.

Beginning May 2009, Tampa Electric transferred existing IS (non-firm) customers to a new IS (firm) rate schedule. These customers are now incented under GSLM-2 or GSLM-3 rate riders with expenses recovered through the ECCR clause.

Program Description and Progress

Program Title: Lighting Conditioned Space

Program Description: The Lighting Conditioned Space Program is designed to encourage commercial/industrial customers to make cost-effective improvements to existing facilities. The goal is to offer customer rebates for installing energy efficient lighting technology and systems within conditioned space to help reduce their energy consumption and demand and reducing Tampa Electric's peak demand. Tampa Electric will provide a rebate to customers who install qualifying conditioned spaces lighting systems.

Program Accomplishments: January 1, 2015 to December 31, 2015

Number of customers participating: 86

Program Fiscal Expenditures: January 1, 2015 to December 31, 2015

Actual expenses were \$207,710.

Program Progress Summary: Through this reporting period 1,785 customers have participated.

Program Description and Progress

Program Title: Lighting Non-Conditioned Space

Program Description: The Lighting Non-Conditioned Space Program is designed to encourage commercial/industrial customers to make cost-effective improvements to existing facilities. The goal is to offer customer rebates for installing energy efficient outdoor lighting technology and systems or in non-conditioned spaces to help reduce their energy consumption and demand and reducing Tampa Electric's peak demand. Tampa Electric will provide a rebate to customers who install qualifying non-conditioned spaces lighting systems.

Program Accomplishments: January 1, 2015 to December 31, 2015

Number of customers participating: 16

Program Fiscal Expenditures: January 1, 2015 to December 31, 2015

Actual expenses were \$11,552.

Program Progress Summary: Through this reporting period 153 customers have participated.

Program Description and Progress

Program Title: Lighting Occupancy Sensors

Program Description: The Lighting Occupancy Sensors Program is designed to encourage commercial/industrial customers to make cost-effective improvements to existing facilities. The goal is to offer customer rebates for installing lighting occupancy sensors to efficiently control lighting systems to help reduce their energy consumption and demand and reducing Tampa Electric's peak demand. Tampa Electric will provide a rebate to customers who install qualifying occupancy sensors for lighting systems.

Program Accomplishments: January 1, 2015 to December 31, 2015

Number of customers participating: 2

Program Fiscal Expenditures: January 1, 2015 to December 31, 2015

Actual expenses were \$12,317.

Program Progress Summary: Through this reporting period 200 customers have participated.

Program Description and Progress

Program Title: Commercial Load Management

Program Description: The Commercial Load Management Program is intended to help alter Tampa Electric's system load curve by reducing summer and winter demand peaks. The goal is to offer customer incentives for allowing the installation and control of load management control equipment on specific technologies to reduce Tampa Electric's weather sensitive peak demand. Customers that participate in this program choose whether to have the technology controlled either interrupted for the entire control period or cycled during the control period. Tampa Electric will provide a monthly incentive credit to customers participating in this program.

Program Accomplishments: January 1, 2015 to December 31, 2015

Net new customers participating: 0

Program Fiscal Expenditures: January 1, 2015 to December 31, 2015

Actual expenses were \$12,536.

Program Progress Summary: Through this reporting period there are six participating customers on cyclic control and zero customers on extended control.

Program Description and Progress

Program Title: Refrigeration Anti-Condensate Control

Program Description: The Refrigeration Anti-Condensate Control Program is designed to encourage commercial/industrial customers to make cost-effective improvements to existing facilities. The goal is to offer customer rebates for installing energy efficient anti-condensate control technology for their refrigerated door heaters to help reduce their energy consumption and demand and reducing Tampa Electric's peak demand. Tampa Electric will provide a rebate to customers who install qualifying anti-condensate control systems.

Program Accomplishments: January 1, 2015 to December 31, 2015

Number of customers participating: 0

Program Fiscal Expenditures: January 1, 2015 to December 31, 2015

Actual expenses were \$132.

Program Progress Summary: Through this reporting period zero customers have participated. Expenses incurred were associated with administration and participation protocols.

Program Description and Progress

Program Title: Standby Generator

Program Description: The Standby Generator Program is designed to utilize the emergency generation capacity of commercial/industrial facilities in order to reduce weather sensitive peak demand. Tampa Electric provides the participating customers a 30-minute notice that their generation will be required. This allows customers time to start generators and arrange for orderly transfer of load. Tampa Electric meters and issues monthly credits for that portion of the generator's output that could serve normal building load after the notification time. Normal building load is defined as load (type, amount and time duration) that would have been served by Tampa Electric if the emergency generator did not operate. Under no circumstances will the generator deliver power to Tampa Electric's grid. Under the Environmental Protection Agency's rules, Tampa Electric classifies the Standby Generator Program as a non-emergency program.

Program Accomplishments: January 1, 2015 to December 31, 2015

Net new customers participating: 0

Program Fiscal Expenditures: January 1, 2015 to December 31, 2015

Actual expenses were \$2,938,179.

Program Progress Summary: Through this reporting period there are 96 participating customers.

Program Description and Progress

Program Title: Thermal Energy Storage

Program Description: The Commercial TES Program is designed to encourage commercial/industrial customers to make cost-effective improvements to existing facilities. The goal is to offer customer rebates for installing off-peak air conditioning systems to help reduce their demand while reducing Tampa Electric's weather sensitive peak demand. Tampa Electric will provide a rebate to customers who install qualifying TES systems.

Program Accomplishments: January 1, 2015 to December 31, 2015

Number of customers participating: 0

Program Fiscal Expenditures: January 1, 2015 to December 31, 2015

Actual expenses were \$0.

Program Progress Summary: Through this reporting period zero customers have participated.

Program Description and Progress

Program Title: Commercial Wall Insulation

Program Description: The Commercial Wall Insulation Program is designed to encourage commercial/industrial customers to make cost-effective improvements to existing facilities. The goal is to offer customer rebates for installing wall insulation to help reduce their energy consumption and demand while reducing Tampa Electric's weather sensitive peak demand. Wall insulation is designed to reduce demand and energy by decreasing the load on commercial/industrial HVAC equipment. Qualifying structures are eligible for a rebate based upon the total square footage of insulation installed in exterior walls adjacent to conditioned spaces. Certificates for participation will be issued through energy audits or by direct evaluation of the current building envelope.

Program Accomplishments: January 1, 2015 to December 31, 2015

Number of customers participating: 0

Program Fiscal Expenditures: January 1, 2015 to December 31, 2015

Actual expenses were \$484.

Program Progress Summary: Through this reporting period two customers have participated. Expenses incurred were associated with administration and participation protocols.

Program Description and Progress

Program Title: Commercial Water Heating

Program Description: The Commercial Water Heating Program is designed to encourage commercial/industrial customers to make cost-effective improvements to existing facilities. The goal is to offer customer rebates for installing energy efficient water heating systems to help reduce their energy consumption and demand and reducing Tampa Electric's peak demand. Tampa Electric will provide a rebate to customers who install qualifying water heating systems.

Program Accomplishments: January 1, 2015 to December 31, 2015

Number of customers participating: 0

Program Fiscal Expenditures: January 1, 2015 to December 31, 2015

Actual expenses were \$30.

Program Progress Summary: Through this reporting period zero customers have participated. Expenses incurred were associated with administration and participation protocols.

Program Description and Progress

Program Title: DSM Research and Development (R&D)

Program Description: This program is in response to Rule 25-17.001 (5) (f), F.A.C., that requires aggressive R&D projects be "...an ongoing part of the practice of every well managed utility's programs." It is also in support of FPSC Order No. 22176 dated November 14, 1989, requiring utilities to "...pursue research, development, and demonstration projects designed to promote energy efficiency and conservation." R&D activity will be conducted on proposed measures to determine the impact to the company and its ratepayers and may occur at customer premises, Tampa Electric facilities or at independent test sites. Tampa Electric will report program progress through the annual ECCR True-Up filing.

Program Accomplishments: January 1, 2015 to December 31, 2015

There were no new DSM R&D activities during this reporting period.

Program Fiscal Expenditures: January 1, 2015 to December 31, 2015

Actual expenses were \$0.

Program Progress Summary: For 2015, Tampa Electric had no new activity in DSM R&D.

Program Description and Progress

Program Title: Renewable Energy Initiative

Program Description: This program provides customers with the option to purchase 200 kWh blocks of renewable energy for five dollars per block to assist in the delivery of renewable energy to the company's grid system. This specific effort provides funding for renewable energy procurement, program administration, evaluation and market research.

Program Accomplishments: January 1, 2015 to December 31, 2015

Year-end customers participating:	1,860
Number of net customers participating:	-115
Blocks of energy purchased:	2,753
One-time blocks of energy sold:	105

Program Fiscal Expenditures: January 1, 2015 to December 31, 2015

Actual expenses were a credit of \$117,532.

Program Progress Summary: Through this reporting period 34,189 monthly and one-time blocks of renewable energy have been purchased.

Program Description and Progress

Program Title: Renewable Energy Systems Initiative

Program Description: This is a five-year renewable energy pilot program that uses rebates and incentives to encourage the following: 1) the installation of solar photovoltaic ("PV") on existing and new residential and commercial premises; 2) the installation of solar water heating ("SWH") technologies on existing and new residential premises; 3) the installation of PV on emergency shelter schools coupled with an educational component for teachers and students; and 4) the installation of SWH on low income housing done in partnership with local non-profit building organizations. This program was retired on December 31, 2015.

Program Accomplishments: January 1, 2015 to December 31, 2015

Number of customers participating:

Residential PV:	53
Commercial PV:	1
School PV:	1
Residential SWH:	54
Low-income SWH:	0

Program Fiscal Expenditures: January 1, 2015 to December 31, 2015

Actual expenses were \$1,275,980.

Program Progress Summary: Through this reporting period the following customers have participated:

Residential PV:	280
Commercial PV:	26
School PV:	5
Residential SWH:	228
Low-income SWH:	14

Program Description and Progress

Program Title: Commercial Energy Recovery Ventilation

Program Description: A conservation incentive program designed to help commercial/industrial customers reduce humidity and HVAC loads in buildings. This measure is intended to reduce demand and energy while improving comfort of commercial buildings. This program was retired on November 2, 2015.

Program Accomplishments: January 1, 2015 to December 31, 2015

Number of customers participating: 0

Program Fiscal Expenditures: January 1, 2015 to December 31, 2015

Actual expenses were \$1,190.

Program Progress Summary: Through this reporting period three customers have participated. Expenses incurred were associated with administration and participation protocols.

Program Description and Progress

Program Title: Commercial Lighting – Exit Signs

Program Description: This program is designed to encourage commercial/industrial customers to invest in more efficient exit sign lighting systems. This program was retired on November 2, 2015.

Program Accomplishments: January 1, 2015 to December 31, 2015

Number of customers participating: 2

Program Fiscal Expenditures: January 1, 2015 to December 31, 2015

Actual expenses were \$339.

Program Progress Summary: Through this reporting period 48 customers have participated.

Program Description and Progress

Program Title: Commercial HVAC Re-commissioning

Program Description: A conservation program designed to help commercial/industrial customers ensure HVAC equipment is operating at optimal efficiency by incenting maintenance and tune-up of equipment. This will in turn help commercial/industrial customers reduce demand and energy usage. This program was retired on November 2, 2015.

Program Accomplishments: January 1, 2015 to December 31, 2015

Number of customers participating: 250

Program Fiscal Expenditures: January 1, 2015 to December 31, 2015

Actual expenses were \$126,778.

Program Progress Summary: Through this reporting period 546 customers have participated.

Program Description and Progress

Program Title: Commercial/Industrial Efficient Motors

Program Description: A conservation program designed to encourage commercial/industrial customers to install premium-efficiency motors in new or existing facilities through incentives. The program is aimed at reducing the growth of peak demand and energy by encouraging customers to replace worn out, inefficient equipment with high efficiency equipment that exceeds minimum product manufacturing standards. This program was retired on November 2, 2015.

Program Accomplishments: January 1, 2015 to December 31, 2015

Number of customers participating: 0

Program Fiscal Expenditures: January 1, 2015 to December 31, 2015

Actual expenses were \$298.

Program Progress Summary: Through this reporting period 124 customers have participated. Expenses incurred were associated with administration and participation protocols.

Program Description and Progress

Program Title: Commercial Roof Insulation

Program Description: This is a conservation program designed to reduce demand and energy by decreasing the load on commercial air conditioning and heating ("HVAC") equipment. Through incentives, the program will encourage commercial/industrial customers to invest in roof insulation improving the energy efficiency of the building envelope. This program was retired on November 2, 2015.

Program Accomplishments: January 1, 2015 to December 31, 2015

Number of customers participating: 2

Program Fiscal Expenditures: January 1, 2015 to December 31, 2015

Actual expenses were \$83,612.

Program Progress Summary: Through this reporting period eight customers have participated.

Program Description and Progress

Program Title: Commercial Window Film

Program Description: This is a conservation program designed to reduce demand and energy by decreasing the load on commercial air conditioning and heating (“HVAC”) equipment. Through incentives, the program will encourage commercial/industrial customers to invest in window film and improving the energy efficiency of the building envelope. This program was retired on November 2, 2015.

Program Accomplishments: January 1, 2015 to December 31, 2015

Number of customers participating: 18

Program Fiscal Expenditures: January 1, 2015 to December 31, 2015

Actual expenses were \$39,820.

Program Progress Summary: Through this reporting period 118 customers have participated.

Program Description and Progress

Program Title: Common Expenses

Program Description: These are expenses common to all programs.

Program Accomplishments: January 1, 2015 to December 31, 2015

N/A

Program Fiscal Expenditures: January 1, 2015 to December 31, 2015

Actual expenses were \$1,313,470.

Program Progress Summary: N/A