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May 2, 2014

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

Dear Ms. Stauffer:

RE: Docket No. 140002-EG

Attached for electronic filing is the Final True-up Testimony and Exhibit for the period January – December 2013 of Jennifer L. Todd in the above referenced docket.

Pursuant to the Order Establishing Procedure in this docket, electronic copies of exhibit JLT-1 that contain calculations will be provided to the parties under separate cover.

Sincerely,

A handwritten signature in blue ink that reads "Robert L. McGee, Jr." The signature is written in a cursive, flowing style.

Robert L. McGee, Jr.  
Regulatory and Pricing Manager

md

Attachments

cc: Florida Public Service Commission  
Lee Eng Tan, Sr Attorney, Office of the General Counsel (5 copies)  
Beggs & Lane  
Jeffrey A. Stone, Esq.

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

**ENERGY CONSERVATION COST  
RECOVERY CLAUSE**

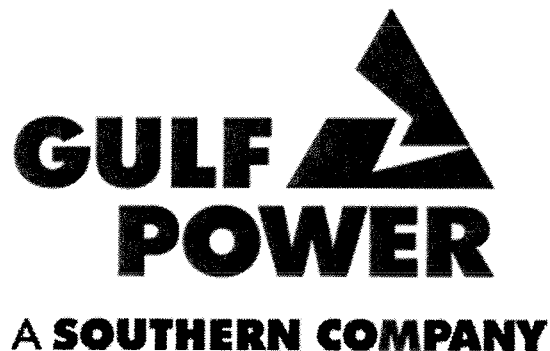
**DOCKET NO. 140002-EG**

PREPARED DIRECT TESTIMONY  
AND EXHIBIT OF  
JENNIFER L. TODD

FINAL TRUE-UP FILING  
FOR THE PERIOD

JANUARY 2013 - DECEMBER 2013

MAY 2, 2014



1 GULF POWER COMPANY

2 Before the Florida Public Service Commission  
3 Prepared Direct Testimony and Exhibit of  
4 Jennifer L. Todd  
5 Docket No. 140002-EG  
6 Date of Filing: May 2, 2014

7 Q. Please state your name, business address employer and position.

8 A. My name is Jennifer L. Todd and my business address is One Energy  
9 Place, Pensacola, Florida 32520. I am employed by Gulf Power Company  
10 (Gulf or the Company) as the Market Analytics Supervisor.

11 Q. Ms. Todd, please describe your educational background and business  
12 experience.

13 A. I received a Bachelor's Degree in Management Information Systems from  
14 the University of West Florida in 1994. I began my career in the electric  
15 utility industry at Gulf in 1992 and have held various positions of  
16 increasing responsibility within the Company in Information Technology,  
17 Accounting, and Marketing. In my current position, I am responsible for  
18 Energy Conservation Cost Recovery (ECCR) filings, economic  
19 evaluations, end-use load research, market research, and other marketing  
20 services activities.

21  
22 Q. Have you previously testified before this Commission in connection with  
23 the Energy Conservation Cost Recovery Clause?

24 A. Yes.  
25

1 Q. Ms. Todd, what is the purpose of your testimony?

2 A. The purpose of my testimony is to present the results of the approved  
3 Energy Conservation Cost Recovery Clause programs and related  
4 expenses for January, 2013 through December, 2013.

5  
6 Q. Are you sponsoring any exhibits to your testimony?

7 A. Yes, I sponsor Exhibit JLT-1, Schedules CT-1 through CT-6.

8  
9 Q. Have you verified that the information contained in Exhibit JLT-1 is  
10 correct?

11 A. Yes, I have. This exhibit was prepared under my direction and control,  
12 and the information contained therein is true and correct to the best of my  
13 knowledge.

14 Counsel: We ask that Ms. Todd's exhibit consisting of 6 Schedules, CT-  
15 1 through CT-6, be marked for identification as:

16 Exhibit No. \_\_\_\_ (JLT-1)

17  
18 Q. Please summarize for this Commission the deviations between the actual  
19 expenses for this recovery period and the amount of estimated/actual  
20 expenses previously filed with this Commission.

21 A. The estimated/actual true-up net expenses for the entire recovery period  
22 January 2013 through December 2013, previously filed were \$27,107,457  
23 while the actual expenses incurred in 2013 were \$27,431,962 resulting in  
24 a variance of \$324,505 or 1.2% over the projection. See Schedule CT-2,  
25 Line 10.

1 Q. Ms. Todd, would you explain the January 2013 through December 2013  
2 variance?

3 A. Yes. The variance was a result of actual expenses being more than  
4 estimated in the following residential programs: Ceiling Insulation, High  
5 Performance Window, Reflective Roof, Variable Speed Pool Pump,  
6 Energy Select/Energy Select LITE, Refrigerator Recycling and the Energy  
7 Select Electric Vehicle Pilot. Additionally, actual expenses were more  
8 than estimated in the following commercial programs: Energy Audit,  
9 Building Efficiency, and HVAC Occupancy Sensor. Finally, actual  
10 expenses were more than estimated in the Solar for Schools and Solar  
11 Thermal Water Heating renewable programs. Overall, these variances  
12 mean that actual program expenses for the 12 month period through  
13 December 2013 were \$324,505 more than the level of estimated/actual  
14 program expenses filed in September 2013. A more detailed description  
15 of the deviations is contained in Schedule CT-6.  
16

17 Q. Mrs. Todd, what was Gulf's adjusted net true-up for the period January  
18 2013 through December 2013?

19 A. There was a \$1,579,073 under-recovery as shown on Schedule CT-1.  
20  
21  
22  
23  
24  
25

1 Q. Please describe your program participation levels during the recovery  
2 period.

3 A. A more detailed review of each of the programs is included in my  
4 Schedule CT-6. The following is a synopsis of program participation  
5 levels during this recovery period.

6  
7 (A) Residential Energy Surveys - During the 2013 recovery period, the  
8 Company completed 7,952 surveys compared to the projection of  
9 9,550.

10 (B) Home Energy Reporting – During the 2013 recovery period a total  
11 of 39,171 home energy report participants received home energy  
12 reports from the Company compared to a projection of 39,179.

13 (C) Community Energy Saver – During the 2013 recovery period the  
14 Company implemented a total of 2,220 efficiency measures for  
15 eligible participants compared to a projection of 2,500.

16 (D) Landlord-Renter Custom Incentive – During the 2013 recovery  
17 period no participants enrolled in this program compared to a  
18 projection of 750 participants.

19 (E) HVAC Efficiency – During the 2013 recovery period, there were a  
20 total of 21,887 participants in this program compared to a projection  
21 of 20,494.

22 (F) Heat Pump Water Heater – During the 2013 recovery period, a total  
23 of 2,006 heat pump water heaters were installed compared to a  
24 projection of 2,263.

25

- 1 (G) Ceiling Insulation – During the 2013 recovery period a total of 509  
2 participants installed high efficiency ceiling insulation compared to a  
3 projection of 538.
- 4 (H) High Performance Window – During the 2013 recovery period a  
5 total of 1,377 customers installed high efficiency windows and 160  
6 customers installed window film compared to projections of 1,135  
7 and 192, respectively.
- 8 (I) Reflective Roof – During the 2013 recovery period, a total of 517  
9 participants installed a qualified reflective roof compared to a  
10 projection of 663.
- 11 (J) Variable Speed Pool Pump – During the 2013 recovery period a  
12 total of 998 participants installed a high-efficiency variable speed  
13 pool pump compared to a projection of 1,129.
- 14 (K) Energy Select/Energy Select LITE - During the 2013 recovery  
15 period there was a net increase of 2,149 customers (*Energy Select*  
16 and *Energy Select LITE* combined) with a total of 12,627 customers  
17 on-line at December 31, 2013. Gulf projected 1,600 net new  
18 customer additions during 2013.
- 19 (L) Self-Install Efficiency – During the 2013 recovery period this  
20 program has achieved the following participation: 2,753 ENERGY  
21 STAR Refrigerators, 174 ENERGY STAR Freezers, 233 ENERGY  
22 STAR Window A/Cs and 2,750 ENERGY STAR Clothes Washers.  
23 The projection for 2013 was 7,150 ENERGY STAR appliances.  
24  
25

- 1 (M) Refrigerator Recycling – During the 2013 recovery period, the  
2 Company had 982 customers participate in the Refrigerator  
3 Recycling program compared to a projection of 903 participants.
- 4 (N) Commercial/Industrial (C/I) Energy Analysis - During the 2013  
5 recovery period, a total of 567 C/I Energy Analyses were completed  
6 compared to a projection of 600.
- 7 (O) Commercial HVAC Retrocommissioning – During the 2013  
8 recovery period, there were 254 participants in this program  
9 compared to a projection of 247.
- 10 (P) Commercial Building Efficiency - During the 2013 recovery period,  
11 2,731 tons of HVAC retrocommissioning were completed, 128 tons  
12 of geothermal were installed, one heat pump water heater was  
13 installed, 190,760 sq. ft. of ceiling insulation and 9,805 sq. ft. of  
14 window film were installed, 849 kW of interior lighting and 966 kW  
15 of LED lighting were installed, 4,277 occupancy sensors were  
16 installed and 1,730,233 sq. ft. of reflective roof installed.  
17 Comparisons to 2013 projections can be found in Schedule CT-6.
- 18 (Q) HVAC Occupancy Sensor – During the 2013 recovery period a total  
19 of 4,825 HVAC occupancy sensors were installed compared to a  
20 projection of 410 sensors.
- 21 (R) High Efficiency Motors – During the 2013 recovery period, 433 HP  
22 of high-efficiency motors were installed compared to a projection of  
23 258 HP.
- 24 (S) Food Service Efficiency - During the 2013 recovery period, there  
25 were 20 participants in this program compared to a projection of 10.



1 (T) Commercial/Industrial Custom Incentive – During the 2013  
2 recovery period, there were 4 participants in this program resulting  
3 in at the meter reductions of 1,965,492 kWh, winter kW of 148 and  
4 summer kW of 336.

5 (U) Renewable Energy – Costs associated with the Renewable Energy  
6 program are provided in Schedule CT-3. Further description of  
7 these activities can be found in Schedule CT-6.

8 (V) Conservation Demonstration and Development – Costs associated  
9 with the Conservation Demonstration and Development program  
10 are provided in Schedule CT-3. Further description of these  
11 activities can be found in Schedule CT-6.

12  
13 Q. Should Gulf's recoverable energy conservation cost for the period be  
14 accepted as reasonable and prudent?

15 A. Yes.

16  
17 Q. Ms. Todd, does this conclude your testimony?

18 A. Yes, it does.


19  
20  
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23  
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25

AFFIDAVIT

STATE OF FLORIDA     )  
                                  )  
COUNTY OF ESCAMBIA )

Docket No. 140002-EG

Before me the undersigned authority, personally appeared Jennifer L. Todd, who being first duly sworn, deposes, and says that she is the Market Analytics Supervisor of Gulf Power Company, a Florida corporation, that the foregoing is true and correct to the best of her knowledge, information, and belief. She is personally known to me.

  
\_\_\_\_\_  
Jennifer L. Todd  
Market Analytics Supervisor

Sworn to and subscribed before me this 15<sup>th</sup> day of May, 2014.

  
\_\_\_\_\_  
Notary Public, State of Florida at Large



MELISSA A. DARNES  
MY COMMISSION # EE 150873  
EXPIRES: December 17, 2015  
Bonded Thru Budget Notary Services

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**Schedule CT-1**

**Gulf Power Company**  
**ENERGY CONSERVATION COST RECOVERY (ECCR)**  
**Calculation of the Final True-Up Amount**  
**For the Period: January 2013 - December 2013**

	<u>\$</u>	<u>\$</u>
Actual		
1. Principal	(6,963,573)	
2. Interest	<u>(2,788)</u>	
3. Actual Over/(Under) Recovery Ending Balance		(6,966,361)
Estimated/Actual as filed September 10, 2013		
4. Principal	(5,384,873)	
5. Interest	<u>(2,415)</u>	
6. Total Estimated/Actual Over/(Under) Recovery		<u>(5,387,288)</u>
7. Adjusted Net True-up Over/(Under) Recovery (Line 3 - 6)		<u><u>(1,579,073)</u></u>

**Schedule CT-2**

**Gulf Power Company**  
**ENERGY CONSERVATION COST RECOVERY (ECCR)**  
**Calculation of the Final True-Up Amount**  
**For the Period: January 2013 - December 2013**

**Analysis of Energy Conservation Program Costs**  
**Actual Compared to Estimated/Actual**

	<u>Actual</u>	<u>Est/Actual</u>	<u>Difference</u>
	\$	\$	\$
1. Depreciation, Return & Property Tax	2,040,119.41	2,057,985.11	(17,865.70)
2. Payroll & Benefits	5,631,251.43	5,696,608.17	(65,356.74)
3. Materials & Supplies	8,430,057.78	7,890,003.88	540,053.90
4. Advertising	698,822.07	649,252.17	49,569.90
5. Incentives	10,631,436.76	10,813,367.98	(181,931.22)
6. Adjustments	0.00	0.00	0.00
7. Other	0.00	0.00	0.00
8. Subtotal	<u>27,431,687.45</u>	<u>27,107,217.31</u>	<u>324,470.14</u>
9. Program Revenues	<u>(275.00)</u>	<u>(240.00)</u>	<u>(35.00)</u>
10. Total Program Costs	<u>27,431,962.45</u>	<u>27,107,457.31</u>	<u>324,505.14</u>
11. Less: Payroll Adjustment	0.00	0.00	0.00
12. Amounts Inc. in Base Rate	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>
13. Conservation Adjustment Revenues	<u>21,278,198.63</u>	<u>22,532,393.72</u>	<u>(1,254,195.09)</u>
14. Rounding Adjustment	<u>21,278,199.00</u>	<u>22,532,394.00</u>	<u>(1,254,195.00)</u>
15. True-up Before Adjustment Over/(Under) Recovery	(6,153,764)	(4,575,064)	<b>(1,578,700)</b>
16. Interest Provision	(2,788)	(2,415)	<b>(373)</b>
17. Prior Period True-up	(809,809)	(809,809)	0
18. Other	<u>0</u>	<u>0</u>	<u>0</u>
19. End of Period True-up	<u>(6,966,361)</u>	<u>(5,387,288)</u>	<u>(1,579,073)</u>

**Gulf Power Company**  
ENERGY CONSERVATION COST RECOVERY (ECCR)  
Calculation of the Final True-Up Amount  
For the Period: January 2013 - December 2013

**Conservation Costs By Program**  
Variance Actual Vs. Estimated/Actual

Program	Capital Return, Property Taxes & Depreciation	Payroll & Benefits	Material & Expenses	Other	Advertising	Incentives	Sub-Total	Program Revenues	Total
<b>Residential Conservation Programs:</b>									
1. Residential Energy Audit and Education	0.00	(17,880.32)	(248,268.96)	0.00	(60,892.18)	0.00	(327,041.46)	0.00	(327,041.46)
2. Community Energy Saver	0.00	690.30	(42,033.22)	0.00	0.00	0.00	(41,342.92)	0.00	(41,342.92)
3. Landlord-Renter Custom	0.00	1,023.50	(3,580.59)	0.00	0.00	0.00	(2,557.09)	0.00	(2,557.09)
4. HVAC Efficiency	0.00	1,700.38	(184,643.43)	0.00	125,380.66	(439,553.00)	(497,115.39)	0.00	(497,115.39)
5. Heat Pump Water Heater	0.00	(12,440.30)	351.38	0.00	0.00	(180,200.00)	(192,288.92)	0.00	(192,288.92)
6. Ceiling Insulation	0.00	(3,517.44)	(403.32)	0.00	0.00	13,671.60	9,750.84	0.00	9,750.84
7. High Performance Window	0.00	(2,648.83)	701.44	0.00	0.00	83,592.00	81,644.61	0.00	81,644.61
8. Reflective Roof	0.00	(4,461.64)	534.51	0.00	0.00	16,534.75	12,607.62	0.00	12,607.62
9. Variable Speed Pool Pump	0.00	(5,841.08)	(1,515.51)	0.00	0.00	12,500.00	5,143.41	0.00	5,143.41
10. Energy Select / Energy Select LITE	(17,865.70)	(49,923.83)	942,107.74	0.00	(16,718.58)	0.00	857,599.63	(35.00)	857,634.63
11. Self-Install Energy Efficiency	0.00	6,922.12	11,924.74	0.00	0.00	(40,927.25)	(22,080.39)	0.00	(22,080.39)
12. Refrigerator Recycling	0.00	766.02	32,545.49	0.00	0.00	5,300.00	38,611.51	0.00	38,611.51
<b>Commercial / Industrial Conservation Programs:</b>									
13. Commercial / Industrial Energy Audit	0.00	2,849.47	4,663.33	0.00	0.00	0.00	7,512.80	0.00	7,512.80
14. HVAC Retrocommissioning	0.00	1,777.39	4,518.87	0.00	0.00	(16,466.00)	(10,169.74)	0.00	(10,169.74)
15. Commercial Building Efficiency	0.00	1,380.10	49,262.24	0.00	1,800.00	413,826.93	466,269.27	0.00	466,269.27
16. HVAC Occupancy Sensor	0.00	895.21	(1,709.80)	0.00	0.00	15,150.00	14,335.41	0.00	14,335.41
17. High Efficiency Motors	0.00	963.24	2,367.26	0.00	0.00	(7,376.00)	(4,045.50)	0.00	(4,045.50)
18. Food Services	0.00	662.15	(3,402.04)	0.00	0.00	300.00	(2,439.89)	0.00	(2,439.89)
19. Commercial / Industrial Custom Incentive	0.00	2,180.08	7.08	0.00	0.00	(10,000.00)	(7,812.84)	0.00	(7,812.84)

**Gulf Power Company**  
ENERGY CONSERVATION COST RECOVERY (ECCR)  
Calculation of the Final True-Up Amount  
For the Period: January 2013 - December 2013

**Conservation Costs By Program**  
**Variance Actual Vs. Estimated/Actual**

Program	Capital Return, Property Taxes & Depreciation	Payroll & Benefits	Material & Expenses	Other	Advertising	Incentives	Sub-Total	Program Revenues	Total
<b>Renewable Energy Plan:</b>									
20. Renewable Energy Plan Common	0.00	207.84	(14,903.83)	0.00	0.00	0.00	(14,695.99)	0.00	(14,695.99)
21. Solar for Schools	0.00	0.00	2,879.00	0.00	0.00	0.00	2,879.00	0.00	2,879.00
22. Solar Thermal Water Heating	0.00	0.00	0.00	0.00	0.00	1,000.00	1,000.00	0.00	1,000.00
23. Solar PV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24. Solar Thermal Water Heating for Low-Income	0.00	0.00	0.00	0.00	0.00	(50,284.25)	(50,284.25)	0.00	(50,284.25)
25. Energy Select Electric Vehicle Pilot	0.00	0.00	20.00	0.00	0.00	1,000.00	1,020.00	0.00	1,020.00
26. Conservation Demonstration and Development	0.00	9,338.90	(11,368.48)	0.00	0.00	0.00	(2,029.58)	0.00	(2,029.58)
27. Less Base Rate Recovery	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28. Total All Programs	(17,865.70)	(65,356.74)	540,053.90	0.00	49,569.90	(181,931.22)	324,470.14	(35.00)	324,505.14

**Gulf Power Company**  
ENERGY CONSERVATION COST RECOVERY (ECCR)  
Calculation of the Final True-Up Amount  
For the Period: January 2013 - December 2013

**Conservation Costs By Program**  
**Actual Expenses**

Program	Capital Return, Property Taxes & Depreciation	Payroll & Benefits	Material & Expenses	Other	Advertising	Incentives	Sub-Total	Program Revenues	Total
<b>Residential Conservation Programs:</b>									
1. Residential Energy Audit and Education	11,537.25	1,578,447.89	799,084.30	0.00	414,107.82	0.00	2,803,177.26	0.00	2,803,177.26
2. Community Energy Saver	0.00	48,046.42	707,733.64	0.00	0.00	0.00	755,780.06	0.00	755,780.06
3. Landlord-Renter Custom	0.00	126,924.82	11,476.81	0.00	0.00	0.00	138,401.63	0.00	138,401.63
4. HVAC Efficiency	0.00	287,893.71	2,617,711.44	0.00	174,905.74	5,633,125.00	8,713,635.89	0.00	8,713,635.89
5. Heat Pump Water Heater	0.00	183,173.82	50,675.05	0.00	93.75	1,363,700.00	1,597,642.62	0.00	1,597,642.62
6. Ceiling Insulation	0.00	126,879.82	22,778.71	0.00	93.75	118,671.60	268,423.88	0.00	268,423.88
7. High Performance Window	0.00	133,824.60	27,062.79	0.00	93.75	214,232.00	375,213.14	0.00	375,213.14
8. Reflective Roof	0.00	117,131.51	22,444.07	0.00	93.75	176,534.75	316,204.08	0.00	316,204.08
9. Variable Speed Pool Pump	0.00	141,240.45	27,589.19	0.00	93.75	273,200.00	442,123.39	0.00	442,123.39
10. Energy Select / Energy Select LITE	2,028,582.16	1,298,801.17	3,410,889.08	0.00	107,376.01	0.00	6,845,648.42	(275.00)	6,845,923.42
11. Self-Install Energy Efficiency	0.00	43,752.32	28,594.89	0.00	93.75	379,770.27	452,211.23	0.00	452,211.23
12. Refrigerator Recycling	0.00	54,749.75	137,954.02	0.00	0.00	35,665.00	228,368.77	0.00	228,368.77
<b>Commercial / Industrial Conservation Programs:</b>									
13. Commercial / Industrial Energy Audit	0.00	601,236.01	152,125.96	0.00	0.00	0.00	753,361.97	0.00	753,361.97
14. HVAC Retrocommissioning	0.00	35,522.02	30,355.56	0.00	0.00	34,780.00	100,657.58	0.00	100,657.58
15. Commercial Building Efficiency	0.00	472,869.83	113,063.24	0.00	1,870.00	1,780,058.58	2,367,861.65	0.00	2,367,861.65
16. HVAC Occupancy Sensor	0.00	36,636.04	5,173.70	0.00	0.00	35,850.00	77,659.74	0.00	77,659.74
17. High Efficiency Motors	0.00	49,201.42	10,073.92	0.00	0.00	1,464.00	60,739.34	0.00	60,739.34
18. Food Services	0.00	78,506.71	13,635.68	0.00	0.00	4,950.00	97,092.39	0.00	97,092.39
19. Commercial / Industrial Custom Incentive	0.00	69,605.93	4,741.99	0.00	0.00	109,219.81	183,567.73	0.00	183,567.73



**Gulf Power Company**  
ENERGY CONSERVATION COST RECOVERY (ECCR)  
Calculation of the Final True-Up Amount  
For the Period: January 2013 - December 2013

**Conservation Costs By Program**  
**Actual Expenses**

Program	Capital Return, Property Taxes & Depreciation	Payroll & Benefits	Material & Expenses	Other	Advertising	Incentives	Sub-Total	Program Revenues	Total
<b>Renewable Energy Plan:</b>									
20. Renewable Energy Plan Common	0.00	129,688.14	104,680.35	0.00	0.00	0.00	234,368.49	0.00	234,368.49
21. Solar for Schools	0.00	0.00	82,879.00	0.00	0.00	0.00	82,879.00	0.00	82,879.00
22. Solar Thermal Water Heating	0.00	0.00	0.00	0.00	0.00	22,000.00	22,000.00	0.00	22,000.00
23. Solar PV	0.00	0.00	0.00	0.00	0.00	435,000.00	435,000.00	0.00	435,000.00
24. Solar Thermal Water Heating for Low-Income	0.00	0.00	0.00	0.00	0.00	4,715.75	4,715.75	0.00	4,715.75
25. Energy Select Electric Vehicle Pilot	0.00	0.00	39.27	0.00	0.00	8,500.00	8,539.27	0.00	8,539.27
<b>26. Conservation Demonstration and Development:</b>									
a. UWF Best House	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
b. NEST Thermostat	0.00	2,724.96	26,938.21	0.00	0.00	0.00	29,663.17	0.00	29,663.17
c. McDonald's Geothermal Measure & Verify	0.00	1,449.57	13,350.86	0.00	0.00	0.00	14,800.43	0.00	14,800.43
d. EnergySelect Electric Vehicle Project	0.00	80.14	766.85	0.00	0.00	0.00	846.99	0.00	846.99
e. Azalea Trace Heat Pump Water Heater	0.00	12,864.38	8,239.20	0.00	0.00	0.00	21,103.58	0.00	21,103.58
f. Total	0.00	17,119.05	49,295.12	0.00	0.00	0.00	66,414.17	0.00	66,414.17
27. Total All Programs	2,040,119.41	5,631,251.43	8,430,057.78	0.00	698,822.07	10,631,436.76	27,431,687.45	(275.00)	27,431,962.45

**Gulf Power Company**  
**ENERGY CONSERVATION COST RECOVERY (ECCR)**  
**Calculation of the Final True-Up Amount**  
**For the Period: January 2013 - December 2013**

**Conservation Costs By Program**  
**Summary of Actual Expenses By Program By Month**

Program	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>Residential Conservation Programs:</b>													
1. Residential Energy Audit and Education	165,480.72	219,191.08	311,087.61	205,507.02	588,001.82	204,427.70	171,680.28	269,828.13	162,478.76	175,629.15	210,912.03	107,415.71	2,791,640.01
Amortization & Return on Investment	995.11	989.91	984.71	979.51	974.31	969.11	953.13	948.19	943.25	938.31	933.38	928.33	11,537.25
<b>Total</b>	<b>166,475.83</b>	<b>220,180.99</b>	<b>312,072.32</b>	<b>206,486.53</b>	<b>588,976.13</b>	<b>205,396.81</b>	<b>172,633.41</b>	<b>270,776.32</b>	<b>163,422.01</b>	<b>176,567.46</b>	<b>211,845.41</b>	<b>108,344.04</b>	<b>2,803,177.26</b>
2. Community Energy Saver	4,427.01	106,113.70	56,295.47	95,484.55	52,588.12	66,688.82	83,390.31	47,508.69	39,024.35	54,474.52	56,641.14	93,143.38	755,780.06
3. Landlord-Renter Custom	10,665.27	10,905.16	13,216.73	11,306.91	11,307.86	13,668.16	11,155.63	11,334.46	10,954.19	11,402.70	11,267.11	11,217.45	138,401.63
4. HVAC Efficiency	524,617.56	945,163.17	728,981.37	785,369.60	911,711.07	992,603.74	841,556.77	811,972.81	1,091,675.92	528,221.64	343,091.35	208,670.89	8,713,635.89
5. Heat Pump Water Heater	125,452.84	123,631.91	241,827.51	229,794.49	179,887.31	181,044.44	205,819.04	120,489.02	45,569.89	71,479.07	47,139.48	25,507.62	1,597,642.62
6. Ceiling Insulation	26,727.60	34,244.16	9,070.28	21,138.69	24,153.28	21,987.55	29,333.43	33,973.13	15,194.98	26,974.48	13,303.85	12,322.45	268,423.88
7. High Performance Window	24,263.07	38,084.11	20,431.45	37,613.45	27,057.10	29,284.42	34,694.93	38,354.41	34,601.43	42,100.66	35,101.52	13,626.59	375,213.14
8. Reflective Roof	25,824.02	28,424.15	21,391.83	24,187.03	25,830.29	34,365.79	49,518.60	25,001.92	20,417.76	29,575.64	20,002.33	11,664.72	316,204.08
9. Variable Speed Pool Pump	46,889.44	36,545.70	39,684.04	47,411.29	50,112.22	54,038.98	58,887.31	35,788.72	21,398.55	22,833.62	16,005.25	12,528.27	442,123.39
10. Energy Select / Energy Select LITE	271,907.21	275,390.46	358,930.32	204,661.58	300,437.10	288,203.85	319,632.93	304,960.08	301,106.77	333,681.58	266,142.01	1,592,012.37	4,817,066.26
Amortization & Return on Investment	164,660.43	165,239.70	166,088.15	166,960.44	168,618.42	170,881.43	165,911.77	168,673.59	171,307.94	173,017.13	175,249.29	171,973.87	2,028,582.16
<b>Total</b>	<b>436,567.64</b>	<b>440,630.16</b>	<b>525,018.47</b>	<b>371,622.02</b>	<b>469,055.52</b>	<b>459,085.28</b>	<b>485,544.70</b>	<b>473,633.67</b>	<b>472,414.71</b>	<b>506,698.71</b>	<b>441,391.30</b>	<b>1,763,986.24</b>	<b>6,845,648.42</b>
11. Self-Install Energy Efficiency	38,092.06	40,117.05	35,570.38	30,172.20	53,783.65	36,520.33	61,130.95	48,522.44	54,669.51	32,103.66	14,807.96	6,721.04	452,211.23
12. Refrigerator Recycling	15,024.30	13,989.34	10,087.69	13,043.53	26,293.78	24,470.91	5,434.71	61,612.61	17,841.97	14,785.87	15,474.16	10,309.90	228,368.77
<b>Commercial / Industrial Conservation Programs:</b>													
13. Commercial / Industrial Energy Audit	61,031.70	73,991.15	51,520.88	59,414.33	55,127.35	71,560.27	62,432.49	66,488.34	55,895.50	58,969.38	58,774.60	78,155.98	753,361.97
14. HVAC Retrocommissioning	7,597.59	3,992.30	6,204.83	7,610.39	7,191.98	11,761.35	10,277.88	14,294.13	6,365.62	15,257.29	6,616.62	3,487.60	100,657.58
15. Commercial Building Efficiency	106,815.91	137,357.80	315,579.53	318,027.08	184,684.23	135,597.53	204,332.30	423,503.10	127,132.69	145,245.55	124,275.37	145,310.56	2,367,861.65
16. HVAC Occupancy Sensor	2,903.77	3,565.65	3,423.52	3,117.31	3,794.64	3,243.05	4,816.39	16,094.21	3,485.19	9,159.25	18,231.17	5,825.59	77,659.74
17. High Efficiency Motors	3,913.55	4,085.05	5,276.32	4,504.15	4,839.78	4,414.24	6,441.75	5,362.26	4,559.20	4,326.04	4,589.67	8,427.33	60,739.34
18. Food Services	5,177.38	11,234.36	6,452.68	10,122.98	8,889.90	8,032.65	7,888.33	7,705.23	8,578.04	9,481.26	7,349.70	6,179.88	97,092.39
19. Commercial / Industrial Custom Incentive	6,164.09	6,127.34	15,554.22	6,054.31	5,685.33	5,356.97	106,371.31	6,381.40	6,090.87	6,163.10	6,386.68	7,232.11	183,567.73

**Gulf Power Company**  
ENERGY CONSERVATION COST RECOVERY (ECCR)  
Calculation of the Final True-Up Amount  
For the Period: January 2013 - December 2013

**Conservation Costs By Program**  
**Summary of Actual Expenses By Program By Month**

Program	January	February	March	April	May	June	July	August	September	October	November	December	Total
<b>Renewable Energy Plan:</b>													
20. Renewable Energy Plan Common	13,234.17	17,018.63	17,420.68	14,229.47	44,327.94	23,464.44	15,592.15	16,527.79	16,817.16	21,344.62	19,723.49	14,667.95	234,368.49
21. Solar for Schools	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36,888.41	0.00	0.00	45,990.59	82,879.00
22. Solar Thermal Water Heating	0.00	3,000.00	3,000.00	2,000.00	0.00	4,000.00	4,000.00	0.00	0.00	2,000.00	3,000.00	1,000.00	22,000.00
23. Solar PV	270,000.00	50,000.00	20,000.00	20,000.00	17,840.00	0.00	37,300.00	9,860.00	0.00	0.00	10,000.00	0.00	435,000.00
24. Solar Thermal Water Heating for Low-Income	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4,715.75	0.00	0.00	0.00	0.00	4,715.75
25. Energy Select Electric Vehicle Pilot	0.00	1,000.00	0.00	6.61	1,500.00	12.66	0.00	0.00	0.00	3,000.00	3,020.00	0.00	8,539.27
<b>26. Conservation Demonstration and Development:</b>													
a. UWF Best House	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
b. NEST Thermostat	4,028.89	4,059.40	4,144.96	4,115.96	8,920.31	576.98	3,816.66	0.00	0.00	0.00	0.00	0.00	29,663.16
c. McDonald's Geothermal Measure & Verify	2,250.42	2,267.47	2,315.26	2,299.06	5,091.26	576.98	0.00	0.00	0.00	0.00	0.00	0.00	14,800.45
d. EnergySelect Electric Vehicle Project	402.86	45.73	0.00	398.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	846.98
e. Variable Speed Pool Pump	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
f. Azalea Trace Heat Pump Water Heater	0.00	0.00	0.00	0.00	0.00	0.00	2,692.16	3,557.42	2,724.07	3,250.14	4,943.87	3,935.92	21,103.58
g. Total	6,682.17	6,372.60	6,460.22	6,813.41	14,011.57	1,153.96	6,508.82	3,557.42	2,724.07	3,250.14	4,943.87	3,935.92	66,414.17
<b>27. Total All Programs</b>	<b>1,928,546.97</b>	<b>2,355,774.48</b>	<b>2,464,540.42</b>	<b>2,325,530.33</b>	<b>2,768,649.05</b>	<b>2,387,752.35</b>	<b>2,505,061.21</b>	<b>2,553,457.83</b>	<b>2,255,722.02</b>	<b>1,795,414.66</b>	<b>1,492,982.03</b>	<b>2,598,256.10</b>	<b>27,431,687.45</b>

**Gulf Power Company**  
ENERGY CONSERVATION COST RECOVERY (ECCR)  
Calculation of the Final True-Up Amount  
For the Period: January 2013 - December 2013

**Conservation Costs By Program**  
Calculation of Over/Under Recovery

Conservation Revenues	January	February	March	April	May	June	July	August	September	October	November	December	Total
1. EnergySelect RSVP Fees	(60.00)	(100.00)	(40.00)	0.00	(20.00)	0.00	(20.00)	0.00	0.00	(35.00)	0.00	0.00	(275.00)
2. Over/(Under) Recovery	<u>1,599,818.86</u>	<u>1,316,442.32</u>	<u>1,600,528.71</u>	<u>1,472,038.20</u>	<u>1,865,665.39</u>	<u>2,120,012.56</u>	<u>2,267,125.69</u>	<u>2,280,799.07</u>	<u>2,086,577.99</u>	<u>1,666,934.33</u>	<u>1,475,342.21</u>	<u>1,526,913.30</u>	<u>21,278,198.63</u>
3. Total Revenues	1,599,758.86	1,316,342.32	1,600,488.71	1,472,038.20	1,865,645.39	2,120,012.56	2,267,105.69	2,280,799.07	2,086,577.99	1,666,899.33	1,475,342.21	1,526,913.30	21,277,923.63
4. Adjustment not Applicable to Period - Prior True Up	<u>40,288.00</u>	<u>40,288.00</u>	<u>40,288.00</u>	<u>40,288.00</u>	<u>40,288.00</u>	<u>40,288.00</u>	<u>40,288.00</u>	<u>40,288.00</u>	<u>40,288.00</u>	<u>40,288.00</u>	<u>40,288.00</u>	<u>40,284.00</u>	<u>483,452.00</u>
5. Conservation Revenues Applicable to Period	1,640,046.86	1,356,630.32	1,640,776.71	1,512,326.20	1,905,933.39	2,160,300.56	2,307,393.69	2,321,087.07	2,126,865.99	1,707,187.33	1,515,630.21	1,567,197.30	21,761,375.63
6. Conservation Expenses (CT-3, Page 3, Line 27)	<u>1,928,546.97</u>	<u>2,355,774.48</u>	<u>2,464,540.42</u>	<u>2,325,530.33</u>	<u>2,768,649.05</u>	<u>2,387,752.35</u>	<u>2,505,061.21</u>	<u>2,553,457.83</u>	<u>2,255,722.02</u>	<u>1,795,414.66</u>	<u>1,492,982.03</u>	<u>2,598,256.10</u>	<u>27,431,687.45</u>
7. True Up this Period (Line 5 - 6)	(288,500.11)	(999,144.16)	(823,763.71)	(813,204.13)	(862,715.66)	(227,451.79)	(197,667.52)	(232,370.76)	(128,856.03)	(88,227.33)	22,648.18	(1,031,058.80)	(5,670,311.82)
8. Interest Provision this Period (CT-3, Page 5, Line 11)	(56.83)	(131.29)	(195.77)	(231.28)	(271.73)	(267.22)	(237.71)	(249.42)	(259.56)	(242.18)	(269.75)	(375.10)	(2,787.84)
9. True Up & Interest Provision Beginning of Month	<u>(809,808.86)</u>	<u>(1,138,653.80)</u>	<u>(2,178,217.25)</u>	<u>(3,042,464.73)</u>	<u>(3,896,188.14)</u>	<u>(4,799,463.53)</u>	<u>(5,067,470.54)</u>	<u>(5,305,663.77)</u>	<u>(5,578,571.95)</u>	<u>(5,747,975.54)</u>	<u>(5,876,733.05)</u>	<u>(5,894,542.62)</u>	<u>(809,808.86)</u>
10. Prior True Up Collected or Refunded	<u>(40,288.00)</u>	<u>(40,288.00)</u>	<u>(40,288.00)</u>	<u>(40,288.00)</u>	<u>(40,288.00)</u>	<u>(40,288.00)</u>	<u>(40,288.00)</u>	<u>(40,288.00)</u>	<u>(40,288.00)</u>	<u>(40,288.00)</u>	<u>(40,288.00)</u>	<u>(40,284.00)</u>	<u>(483,452.00)</u>
11. End of Period- Net True Up	<u>(1,138,653.80)</u>	<u>(2,178,217.25)</u>	<u>(3,042,464.73)</u>	<u>(3,896,188.14)</u>	<u>(4,799,463.53)</u>	<u>(5,067,470.54)</u>	<u>(5,305,663.77)</u>	<u>(5,578,571.95)</u>	<u>(5,747,975.54)</u>	<u>(5,876,733.05)</u>	<u>(5,894,642.62)</u>	<u>(6,966,360.52)</u>	<u>(6,966,360.52)</u>

**Gulf Power Company**  
ENERGY CONSERVATION COST RECOVERY (ECCR)  
Calculation of the Final True-Up Amount  
For the Period: January 2013 - December 2013

**Computation of Interest Expense  
Energy Conservation Adjustment**

Interest Provision	January	February	March	April	May	June	July	August	September	October	November	December	Total
1. Beginning True up Amount	(809,808.86)	(1,138,653.80)	(2,178,217.25)	(3,042,464.73)	(3,896,188.14)	(4,799,463.53)	(5,067,470.54)	(5,305,663.77)	(5,578,571.95)	(5,747,975.54)	(5,876,733.05)	(5,894,642.62)	
2. Ending True up before Interest	(1,138,596.97)	(2,178,085.96)	(3,042,268.96)	(3,895,956.86)	(4,799,191.80)	(5,067,203.32)	(5,305,426.06)	(5,578,322.53)	(5,747,715.98)	(5,876,490.87)	(5,894,372.87)	(6,965,985.42)	
3. Total beginning & ending	(1,948,405.83)	(3,316,739.76)	(5,220,486.21)	(6,938,421.59)	(8,695,379.94)	(9,866,666.85)	(10,372,896.60)	(10,883,986.30)	(11,326,287.93)	(11,624,466.41)	(11,771,105.92)	(12,860,628.04)	
4. Average True up Amount	(974,202.92)	(1,658,369.88)	(2,610,243.11)	(3,469,210.80)	(4,347,689.97)	(4,933,333.43)	(5,186,448.30)	(5,441,993.15)	(5,663,143.97)	(5,812,233.21)	(5,885,552.96)	(6,430,314.02)	
5. Interest Rate First Day Reporting Business Month	0.0500	0.0900	0.1000	0.0800	0.0800	0.0700	0.0600	0.0500	0.0600	0.0500	0.0500	0.0600	
6. Interest Rate First Day Subsequent Business Month	0.0900	0.1000	0.0800	0.0800	0.0700	0.0600	0.0500	0.0600	0.0500	0.0500	0.0600	0.0800	
7. Total of Lines 5 and 6	0.1400	0.1900	0.1800	0.1600	0.1500	0.1300	0.1100	0.1100	0.1100	0.1000	0.1100	0.1400	
8. Average Interest rate (50% of Line 7)	0.0700	0.0950	0.0900	0.0800	0.0750	0.0650	0.0550	0.0550	0.0550	0.0500	0.0550	0.0700	
9. Monthly Average Interest Rate Line 8 \ 12	0.000058	0.000079	0.000075	0.000067	0.000063	0.000054	0.000046	0.000046	0.000046	0.000042	0.000046	0.000058	
10. Interest Adjustment													
11. Interest Provision (Line 4 X 9)	(56.83)	(131.29)	(195.77)	(231.28)	(271.73)	(267.22)	(237.71)	(249.42)	(259.56)	(242.18)	(269.75)	(375.10)	(2,787.84)



**Gulf Power Company**  
ENERGY CONSERVATION COST RECOVERY (ECCR)  
Calculation of the Final True-Up Amount  
For the Period: January 2013 - December 2013

**Schedule of Capital Investment, Depreciation and Return  
Energy Select**

Line No	Description	Beginning of Period	January	February	March	April	May	June	July	August	September	October	November	December	Total
1	Investments Added to Plant In Service (Net of Retirements)		10,852.52	34,266.81	56,201.73	(96,278.31)	141,361.46	81,285.55	37,110.35	49,003.61	30,473.40	225,044.20	60,034.99	15,893.57	
2	Depreciable Base (Cumulative Plant Additions PM Ln 2 + CM Ln 1)	10,585,075.26	10,595,927.78	10,630,194.59	10,686,396.32	10,590,118.01	10,731,479.47	10,812,765.02	10,849,875.37	10,898,878.98	10,929,352.38	11,154,396.58	11,214,431.57	11,230,325.14	
3	Depreciation Expense (Note A) (PM Ln 2 * .0023)		24,345.67	24,370.63	24,449.45	24,578.71	24,357.27	24,682.40	24,869.36	24,954.71	25,067.42	25,137.51	25,655.11	25,793.19	298,261.43
4	Salvage, Cost of Removal and Retirement		(246,919.19)	(181,153.03)	(241,763.95)	(222,586.97)	(244,244.63)	(185,070.01)	(175,557.12)	(188,487.23)	(119,483.92)	(37,863.04)	(142,091.54)	(78,719.62)	
5	Less: Accum. Depr, COR and Sal. (PM Ln 5 + CM Ln 3 + 4)	(4,147,108.61)	(4,369,682.13)	(4,526,464.53)	(4,743,779.03)	(4,941,787.29)	(5,161,674.65)	(5,322,062.26)	(5,472,750.02)	(5,637,282.54)	(5,731,699.04)	(5,744,424.57)	(5,860,861.00)	(5,913,787.43)	
6	Net Plant In Service (CM Ln 2 - CM Ln 5)	14,732,183.87	14,965,609.91	15,156,659.12	15,430,175.35	15,531,905.30	15,893,154.12	16,134,827.28	16,322,625.39	16,536,161.52	16,661,051.42	16,998,821.15	17,075,292.57	17,144,112.57	
7	Net Additions/Reductions to CWIP	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8	CWIP Balance (PM Ln 8 + CM Ln 7)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9	Inventory	2,867,223.06	2,692,219.30	2,593,704.63	2,437,245.85	2,420,810.12	2,486,052.14	2,345,632.62	2,517,316.65	2,711,525.17	2,901,734.62	2,818,721.16	2,978,983.16	1,594,943.54	
10	Net Investment (CM Ln 6 + CM Ln 8 + CM Ln 9)	17,599,406.95	17,667,829.21	17,750,363.75	17,867,421.20	17,952,715.42	18,379,246.26	18,480,459.90	18,839,942.04	19,247,686.69	19,562,786.04	19,717,542.31	20,054,275.73	18,739,056.11	
11	Average Net Investment (PM Ln 10 + CM Ln 10)/2		17,628,618.08	17,704,096.48	17,808,892.48	17,910,068.31	18,165,980.84	18,429,853.08	18,660,200.97	19,043,814.37	19,405,236.37	19,640,164.18	19,885,909.02	19,396,665.92	
12	Rate of Return / 12 (Note B)		0.007344	0.007344	0.007344	0.007344	0.007344	0.007344	0.006977	0.006977	0.006977	0.006977	0.006977	0.006977	
13	Return Requirement on Average Net Investment (CM Ln 11 * CM Ln 12)		129,464.57	130,018.88	130,788.51	131,531.54	133,410.96	135,348.84	130,192.22	132,868.69	135,390.33	137,029.43	138,743.99	135,330.54	1,600,118.50
14	Property Tax		10,850.19	10,850.19	10,850.19	10,850.19	10,850.19	10,850.19	10,850.19	10,850.19	10,850.19	10,850.19	10,850.19	10,850.14	130,202.23
15	Total Depreciation, Prop Taxes & Return (CM Ln 3 + CM Ln 13 + CM Ln 14)		164,660.43	165,239.70	166,088.15	166,960.44	168,618.42	170,881.43	165,911.77	168,673.59	171,307.94	173,017.13	175,249.29	171,973.87	2,026,582.16

Notes:  
(A) Energy Select Property Additions Depreciated at 2.8% per year  
(B) Revenue Requirement Return (includes Income Taxes) is: Jan - Jun 8.8123%; Jul - Dec 8.3728%

**Gulf Power Company**  
ENERGY CONSERVATION COST RECOVERY (ECCR)  
Calculation of the Final True-Up Amount  
For the Period: January 2013 - December 2013

**Schedule of Capital Investment, Depreciation and Return  
Residential Energy Survey Displays**

Line No.	Description	Beginning of Period	January	February	March	April	May	June	July	August	September	October	November	December	Total
1	Investments Added to Plant In Service (Net of Retirements)														
2	Depreciable Base (Cumulative Plant Additions PM Ln 2 + CM Ln 1)	13,814.37	13,814.37	13,814.37	13,814.37	13,814.37	13,814.37	13,814.37	13,814.37	13,814.37	13,814.37	13,814.37	13,814.37	13,814.37	
3	Depreciation Expense (Note A) (PM Ln 2 * .0023)		164.46	164.46	164.46	164.46	164.46	164.46	164.46	164.46	164.46	164.46	164.46	164.46	1,973.52
4	Retirements		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5	Salvage		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6	Less: Accum. Depr, COR and Sal. (PM Ln 6 + CM Ln 3 + 4 + 5)	5,920.56	6,085.02	6,249.48	6,413.94	6,578.40	6,742.86	6,907.32	7,071.78	7,236.24	7,400.70	7,565.16	7,729.62	7,894.08	
7	Net Plant In Service (CM Ln 2 - CM Ln 6)	7,893.81	7,729.35	7,564.89	7,400.43	7,235.97	7,071.51	6,907.05	6,742.59	6,578.13	6,413.67	6,249.21	6,084.75	5,920.29	
8	Net Additions/Reductions to CWIP	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9	CWIP Balance (PM Ln 9 + CM Ln 8)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10	Inventory														
11	Net Investment (CM Ln 7 + CM Ln 9 + CM Ln 10)	7,893.81	7,729.35	7,564.89	7,400.43	7,235.97	7,071.51	6,907.05	6,742.59	6,578.13	6,413.67	6,249.21	6,084.75	5,920.29	
12	Average Net Investment (PM Ln 11 + CM Ln 11)/2		7,811.58	7,647.12	7,482.66	7,318.20	7,153.74	6,989.28	6,824.82	6,660.36	6,495.90	6,331.44	6,166.98	6,002.52	
13	Rate of Return / 12 (Note B)		0.007344	0.007344	0.007344	0.007344	0.007344	0.007344	0.006977	0.006977	0.006977	0.006977	0.006977	0.006977	
14	Return Requirement on Average Net Investment (CM Ln 12 * CM Ln 13)		57.37	56.16	54.95	53.74	52.54	51.33	47.62	46.47	45.32	44.17	43.03	41.88	594.58
15	Property Tax		9.34	9.34	9.34	9.34	9.34	9.34	9.34	9.34	9.34	9.34	9.34	9.30	112.04
16	Total Depreciation, Prop Taxes & Return (CM Ln 3 + CM Ln 14 + CM Ln 15)		231.17	229.96	228.75	227.54	226.34	225.13	221.42	220.27	219.12	217.97	216.83	215.64	2,680.14

Notes:

(A) Displays are Seven year Property 1.1905% per month.

(B) Revenue Requirement Return (includes Income Taxes) is: Jan - Jun 8.8123%; Jul - Dec 8.3728%

**Gulf Power Company**  
**ENERGY CONSERVATION COST RECOVERY (ECCR)**  
**Calculation of the Final True-Up Amount**  
**For the Period: January 2013 - December 2013**

**Schedule of Capital Investment, Depreciation and Return**  
**Thermal Imaging Tools**

Line No.	Description	Beginning of Period	January	February	March	April	May	June	July	August	September	October	November	December	Total
1	Investments Added to Plant In Service (Net of Retirements)														
2	Depreciable Base (Cumulative Plant Additions PM Ln 2 + CM Ln 1)	45,652.70	45,652.70	45,652.70	45,652.70	45,652.70	45,652.70	45,652.70	45,652.70	45,652.70	45,652.70	45,652.70	45,652.70	45,652.70	
3	Depreciation Expense (Note A) (PM Ln 2 + CM Ln 2)/2 * .011905		543.49	543.49	543.49	543.49	543.49	543.49	543.49	543.49	543.49	543.49	543.49	543.49	6,521.88
4	Retirements		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5	Salvage		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6	Less: Accum. Depr, COR and Sal. (PM Ln 6 + CM Ln 3 + 4 + 5)	19,565.40	20,108.89	20,652.38	21,195.87	21,739.36	22,282.85	22,826.34	23,369.83	23,913.32	24,456.81	25,000.30	25,543.79	26,087.28	
7	Net Plant In Service (CM Ln 2 - CM Ln 6)	26,087.30	25,543.81	25,000.32	24,456.83	23,913.34	23,369.85	22,826.36	22,282.87	21,739.38	21,195.89	20,652.40	20,108.91	19,565.42	
8	Net Additions/Reductions to CWIP	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9	CWIP Balance (PM Ln 9 + CM Ln 8)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10	Inventory														
11	Net Investment (CM Ln 7 + CM Ln 9 + CM Ln 10)	26,087.30	25,543.81	25,000.32	24,456.83	23,913.34	23,369.85	22,826.36	22,282.87	21,739.38	21,195.89	20,652.40	20,108.91	19,565.42	
12	Average Net Investment (PM Ln 11 + CM Ln 11)/2		25,815.56	25,272.07	24,728.58	24,185.09	23,641.60	23,098.11	22,554.62	22,011.13	21,467.64	20,924.15	20,380.66	19,837.17	
13	Rate of Return / 12 (Note B)		0.007344	0.007344	0.007344	0.007344	0.007344	0.007344	0.006977	0.006977	0.006977	0.006977	0.006977	0.006977	
14	Return Requirement on Average Net Investment (CM Ln 12 * CM Ln 13)		189.59	185.60	181.61	177.62	173.62	169.63	157.36	153.57	149.78	145.99	142.20	138.40	1,964.97
15	Property Tax		30.86	30.86	30.86	30.86	30.86	30.86	30.86	30.86	30.86	30.86	30.86	30.80	370.26
16	Total Depreciation, Prop Taxes & Return (CM Ln 3 + CM Ln 14 + CM Ln 15)		763.94	759.95	755.96	751.97	747.97	743.98	731.71	727.92	724.13	720.34	716.55	712.69	8,857.11

Notes:

- (A) Thermal Imaging Tools are Seven year Property 1.1905% per month.  
 (B) Revenue Requirement Return (includes Income Taxes) is: Jan - Jun 8.8123%; Jul - Dec 8.3728%.



Schedule CT-5

GULF POWER COMPANY

Reconciliation and Explanation of  
Differences Between Filing and FPSC Audit  
Report for Months, January, 2012 through December, 2012

(If no differences exist, please state.)

NO DIFFERENCES

### Program Description and Progress

Program Title: Residential Energy Audit and Education

Program Description: This program is the primary educational program to help customers improve the energy efficiency of their new or existing home through energy conservation advice and information that encourages the implementation of efficiency measures and behaviors resulting in energy and utility bill savings.

Program Accomplishments: During 2013, Gulf performed 7,952 energy audits. This included 3,930 online audits, 2,031 in home audits and 1,991 pre-construction audits. Additionally, during 2013, 39,171 of Gulf's customers received a Home Energy Report compared to a projection of 39,179 or 8 less than the projection.

Gulf provided professional development for 60 elementary, middle and high school teachers, and provided hands-on energy efficiency and renewable energy kits to those teachers as well as another 12 elementary school teachers. Gulf provided professional development, activities and materials for the FSU Panama City STEM Institute's Summer Camp program that reached 300 8<sup>th</sup> – 12<sup>th</sup> grade students. Estimated reach through all of these efforts is approximately 3,200 students. Gulf assisted three schools in developing student energy teams who learned to measure, monitor and reduce energy use in their schools. Gulf continued to provide classroom energy-related activities and presentations throughout its service area, as well as onsite and material support for two hands-on interactive science museums in Northwest Florida which both average 100 attendees daily during summer season.

Program Fiscal Expenditures: For 2013, Gulf projected \$3,130,218 of expenses compared to actual expenses of \$2,803,177 resulting in a variance of \$327,041 or 12% under the projection.

Program Progress Summary: Since the approval of this program, Gulf Power Company has performed 207,430 residential energy surveys and 39,171 customers are receiving Home Energy Reports.

### Program Description and Progress

Program Title: Community Energy Saver Program

Program Description: This program assists low-income families in managing their energy costs. Through this program, qualifying customers not only receive the direct installation of conservation measures at no cost to them; the program also educates families on energy efficiency techniques and behavioral changes to help control their energy use and reduce their utility operating costs.

Program Accomplishments: During 2013, 2,220 of Gulf's customers received the measures included in this program compared to a projection of 2,500 participants, a difference of 280 under the projection.

Program Fiscal Expenditures: For 2013, Gulf projected expenses for this program of \$797,123 compared to actual expenses of \$755,780 resulting in a variance of \$41,343 or 5.2% under the projection.

Program Progress Summary: A total of 7,428 customers have received the efficiency measures included in the Community Energy Saver program since the program's launch in 2011.

### Program Description and Progress

Program Title: Landlord/Renter Custom Incentive Program

Program Description: This program is designed to increase energy efficiency in the residential rental property sector. This program promotes the installation of various energy efficiency measures available through other programs including HVAC, insulation, windows, water heating, lighting, appliances, etc. including additional incentives as appropriate to overcome the split-incentive barrier which exists in a landlord/renter situation. Additionally, this program promotes the installation of measures included in the Community Energy Saver Program by the landlord of multi-family properties.

Program Accomplishments: During 2013, no participants were enrolled in this program and none were projected. While there are no participants in this program, Gulf continues to work with customers in the rental property sector. To date, enrollments have come from these projects in other programs (i.e., HVAC, insulation, etc.) offered by the Company.

Program Fiscal Expenditures: During 2013, \$140,959 in expenses were projected, compared to actual expenses of \$138,402 resulting in a variance of \$2,557 or 1.8% under the projection.

Program Progress Summary: Since its launch in 2011, one customer has participated in the Landlord/Renter Custom Incentive program.

**Program Description and Progress**

**Program Title:** HVAC Efficiency Improvement Program

**Program Description:** This program is designed to increase energy efficiency and improve HVAC cooling system performance for new and existing homes. These efficiencies are realized through:

- HVAC maintenance
- HVAC early retirement (for inefficient systems)
- HVAC upgrades
- Duct repair
- Retrofit of an electronically commutated motor fan on existing HVAC systems

Incentives are offered to participants.

**Program Accomplishments:** During 2013, compared to the projection for 2013, the following participation was achieved:

<b>Measure</b>	<b>2013 Year End Projection</b>	<b>2013 Actual Participation</b>	<b>Variance</b>
HVAC maintenance	10,994	11,344	350
HVAC early retirement Tier One	1,218	1,251	33
HVAC early retirement Tier Two	733	674	(59)
HVAC early retirement Tier Three	44	41	(3)
HVAC upgrades Tier One	309	331	22
HVAC upgrades Tier Two	145	137	(8)
HVAC upgrades Tier Three	74	85	11
Duct repair	6,974	8,021	1,047
ECM Fan	3	3	0

**Program Fiscal Expenditures:** – For 2013, Gulf projected \$9,210,751 in expenses compared to actual expenses of \$8,713,636 resulting in a variance of \$497,115 or 5.4% under the projection.

**Program Progress Summary:** Since its launch in 2013, the following participation has been achieved:

- HVAC maintenance - 20,926
- HVAC early retirement - Tier One – 2,230
- HVAC early retirement - Tier Two – 1,446

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- HVAC early retirement - Tier Three - 82
- HVAC upgrades - Tier One - 548
- HVAC upgrades - Tier Two - 314
- HVAC upgrades - Tier Three - 218
- Duct repair - 13,511
- ECM Fan - 6

### Program Description and Progress

Program Title: Heat Pump Water Heater Program

Program Description: This program provides incentives directly to the customer for the installation of high-efficiency Heat Pump Water Heating equipment for domestic hot water production.

Program Accomplishments: During 2013, 2,006 customers participated in this program compared to a projection of 2,263 for a variance of 257 fewer participants than projected.

Program Fiscal Expenditures: For the 2013 reporting period, \$1,789,932 in expenses were projected, compared to actual expenses of \$1,597,643 resulting in a variance of \$192,289, or 10.7% under the projection.

Program Progress Summary: Since its launch in 2011, 3,183 customers have participated in this program.



### Program Description and Progress

Program Title: Ceiling Insulation Program

Program Description: This program provides incentives to encourage customers to install high efficiency insulation or increase insulation in existing residential single-family and multi-family homes. The objective of this program is to reduce heat loss and heat gain from both conductive and convective means by increased insulation.

Program Accomplishments: During 2013, 509 customers participated in this program. The projection for 2013 was 538 participants resulting in a variance of 29 fewer participants than projected.

Program Fiscal Expenditures: For 2013, Gulf projected \$258,673 in expenses compared to actual expenses of \$268,424 resulting in a variance of \$9,751, or 3.8% over the projection.

Program Progress Summary: Since its launch in 2011, 1,683 customers have participated in this program.



### Program Description and Progress

Program Title: High Performance Window Program

Program Description: This program provides incentives to install high-efficiency windows or window film in existing or new residential applications. The objective of the program is to reduce solar heat gain into a home which, in turn, leads to reduced HVAC loads and operating costs.

Program Accomplishments: During 2013, 1,377 customers have installed high-efficiency windows and 160 customers have installed window film as part of this program. Projections for 2013 were 1,135 and 192 participants respectively resulting in 242 more window participants and 32 fewer window film participants than projected.

Program Fiscal Expenditures: For 2013, Gulf projected \$293,568 in expenses compared to actual expenses of \$375,213 resulting in a variance of \$81,645, or 27.8% over the projection.

Program Progress Summary: Since its launch in 2011, 2,506 customers have installed high-efficiency windows and 402 customers have installed window film as part of this program.

### Program Description and Progress

Program Title: Reflective Roof Program

Program Description: This program provides incentives to install ENERGY STAR qualified cool/reflective roofing products when constructing a new home or replacing the roof on an existing residence. The objective of this program is to significantly decrease the amount of heat that is transferred through roof assemblies and into vented attic spaces which, in turn, decreases the transfer of heat into the home's conditioned living area.

Program Accomplishments: During 2013, 517 customers have participated in this program compared to a 2013 projection of 663 or 146 participants under the projection.

Program Fiscal Expenditures: For 2013, \$303,596 in expenses was projected compared to \$316,204 in actual expenses resulting in a variance of \$12,608, or 4.2% over the projection.

Program Progress Summary: Since its launch in 2011, 776 customers have participated in this program.

### Program Description and Progress

Program Title: Variable Speed/Flow Pool Pump Program

Program Description: This program provides an incentive to encourage the installation of high-efficiency variable speed or variable flow pool pumping and control equipment in both new and existing residential applications. The objective of this program is to reduce the energy, demand, and cost associated with swimming pool operation.

Program Accomplishments: During 2013, 998 customers have installed a variable speed pool pump compared to a 2013 projection of 1,129 or 131 under the projection.

Program Fiscal Expenditures: The 2013 projection for this program was \$436,980 compared to actual expenses of \$442,123 resulting in a variance of \$5,143, or 1.2% over the projection.

Program Progress Summary: Since its launch in 2011, 5,852 customers have participated in this program.

### Program Description and Progress

Program Title: Energy *Select* / Energy *Select* Lite

Program Description: The overall program is designed to provide customers with a means of controlling their energy purchases by conveniently programming their heating and cooling systems and major appliances, such as electric water heaters and pool pumps, to automatically respond to prices that vary during the day and by season in relation to the Company's cost of producing or purchasing energy. The Energy *Select* Lite subset of the program was originally intended to provide a separate means to expand price responsive load management program participation to include residential customers who did not meet certain participation standards for Energy *Select*. The Energy *Select* Lite program utilizes broadband technology and does not require land-line telephone service, whereas the Energy *Select* program historically has required land-line telephone service. Due to the addition of load control relays to the broadband-enabled thermostat, there is no longer a difference between Energy *Select* and Energy *Select* Lite with regard to functionality and the equipment used for new installations. For purposes of the cost recovery process, the two programs are now being treated as a single program.

Program Accomplishments: During 2013, Energy *Select* / Energy *Select* Lite programs experienced a net addition of 2,149 participants compared to a projection of 1,600, or 549 over the projection.

Program Fiscal Expenditures: During 2013, there were projected expenses of \$5,988,289 compared with actual expenses of \$6,845,923. This results in a deviation of \$857,634, or 14.3% over the projection. As indicated above and in previous filings before the Commission, the equipment that is currently utilized for the Energy *Select* program now operates using broadband technology. Excess inventory in the amount of \$1,257,860 of the devices not broadband-capable were identified and written off in December, 2013.

Program Progress Summary: As of December 2013, there were 12,627 participating customers.

### Program Description and Progress

Program Title: Self-Install Energy Efficiency Program

Program Description: This program promotes the purchase and installation of ENERGY STAR rated appliances, lighting and other self-installed energy saving measures for residential customers. The program focuses on increasing customer awareness of the benefits of energy efficient technologies and products through customer education, retail partnerships, promotional distribution of compact fluorescent light bulbs (CFLs), on-line store, energy audits and seasonal promotional campaigns.

Program Accomplishments: During 2013, 5,910 customers installed qualifying ENERGY STAR appliances including 2,753 ENERGY STAR Refrigerators, 174 ENERGY STAR Freezers, 233 ENERGY STAR Window A/Cs, 2,750 ENERGY STAR Clothes Washers. The projection for 2013 was 7,150 ENERGY STAR appliances resulting in a variance of 1,240 fewer participants than the projection.

Program Fiscal Expenditures: For 2013, program expenses were projected to be \$474,291 compared to actual expenses of \$452,211 resulting in a variance of \$22,080, or 4.7% under the projection.

Program Progress Summary: Since its launch in 2011, 11,829 customers have installed ENERGY STAR appliances as part this program including 5,582 ENERGY STAR Refrigerators, 409 ENERGY STAR Freezers, 473 ENERGY STAR Window A/Cs and 5,365 ENERGY STAR Clothes Washers. Additionally, 80,846 CFLs were acquired.

### Program Description and Progress

Program Title: Refrigerator Recycling Program

Program Description: This program is intended to eliminate inefficient or extraneous refrigerators in an environmentally safe manner and produce cost-effective long-term energy and peak demand savings in the residential sector. The objective of the program is to increase customer awareness of the economic and environmental costs associated with running inefficient, older appliances in a household, and to provide eligible customers with free refrigerator and freezer pick-up services in addition to a cash incentive.

Program Accomplishments: During 2013, 982 customers participated in this program compared to a projection 903, or 79 more participants than the projection.

Program Fiscal Expenditures: During 2013, expenses were projected to be \$189,757 compared to actual expenses of \$228,369 resulting in a variance of \$38,612, or 20.3% over the projection.

Program Progress Summary: Since its launch in 2011, 2,861 customers have participated in this program.



### Program Description and Progress

Program Title: Commercial/Industrial Audit

Program Description: This program is designed to provide professional advice to our existing commercial and industrial customers on how to reduce and make the most efficient use of energy. This program covers the smallest commercial customer, requiring only a walk-through survey, to the use of computer programs which will simulate several design options for very large energy intensive customers. The program is designed to include semi-annual and annual follow-ups with the customer to verify any conservation measures installed and to reinforce the need to continue with more conservation efforts. Customers may participate by requesting a basic Energy Analysis Audit (EAA) provided through either an on-site survey or a direct mail survey. A more comprehensive analysis can be provided by conducting a Technical Assistance Audit (TAA).

Program Accomplishments: During 2013, the Company performed 567 commercial/industrial audits. The total projection for 2013 was 600 audits for a variance of 33 fewer participants than projected.

Program Fiscal Expenditures: For 2013, Gulf projected expenses of \$745,849 compared to actual expenses of \$753,362 for a deviation of \$7,513, or 1.0% under budget.

Program Progress Summary: Since this program was launched, 21,433 commercial/industrial audits have been performed.

### Program Description and Progress

Program Title: Commercial HVAC Retrocommissioning Program

Program Description: This program offers basic retrocommissioning at a reduced cost for qualifying installations of existing commercial and industrial customers. It is designed to diagnose the performance of the HVAC cooling unit(s) operating in commercial buildings with the support of an independent computerized quality control process and make improvements to the system to bring its full efficiency. This program includes air cooled and water cooled equipment – identified as A/C, heat pump, direct expansion (DX) or geothermal cooling and heating.

Program Accomplishments: During 2013, 254 customers have participated in this program compared to a projection of 247 participants resulting in a variance of 7 more participants than projected.

Program Fiscal Expenditures: For 2013, the Company projected \$110,827 in program expenses compared to actual expenses of \$100,657 resulting in a variance of \$10,170, or 9.2% under the projection.

Program Progress Summary: Since its launch in 2011, 884 customers have participated in this program.



**Program Description and Progress**

**Program Title:** Commercial Building Efficiency Program

**Program Description:** This program is designed as an umbrella efficiency program for existing commercial and industrial customers to encourage the installation of eligible high-efficiency equipment as a means of reducing energy and demand. The goal of the program is to increase awareness and customer demand for high-efficiency, energy-saving equipment; increase availability and market penetration of energy efficient equipment; and contribute toward long-term energy savings and peak demand reductions. These goals will be accomplished through multiple options including HVAC efficiency upgrades, heat pump water heater installations, ceiling/roof insulation improvements, window film installation, interior lighting improvements, commercial occupancy sensors and commercial reflective roof installations.

**Program Accomplishments:** During 2013, compared to the 2013 projection, the measures in this program have had the following participation:

<b>Program</b>	<b>Annual Projections (2013)</b>	<b>Actual Participation (2013)</b>	<b>Variance</b>
Commercial HVAC (tons of installed HVAC)	2,070	2,731	661
Commercial Geothermal Heat Pump (tons of installed HVAC)	219	128	(91)
Heat Pump Water Heater	1	1	0
Ceiling/Roof Insulation (square feet)	291,467	190,760	(100,707)
Window Film (square feet)	13,010	9,805	(3,205)
Commercial Interior Lighting (kW)	150	849	699
Commercial Interior Lighting LED (kW)	50	966	916
Commercial Occupancy Sensor	915	4,277	3,362
Commercial Reflective Roof (square feet)	2,175,413	1,730,233	(445,180)

**Program Fiscal Expenditures:** During the reporting period, Gulf projected \$1,901,592 in expenses compared to actual expenses of \$2,367,861 for a variance of \$466,269, or 24.5% over the projection.

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Program Progress Summary: Since its launch in 2011, customer participation is shown in the table below.

<b>Program</b>	<b>Program to Date Participation</b>
Commercial HVAC (tons of installed HVAC)	4,424
Commercial Geothermal Heat Pump (tons of installed HVAC)	418
Heat Pump Water Heater	2
Ceiling/Roof Insulation (square feet)	293,644
Window Film (square feet)	31,668
Commercial Interior Lighting (kW)	2,007
Commercial Interior Lighting LED (kW)	1,369
Commercial Occupancy Sensor	6,128
Commercial Reflective Roof (square feet)	2,240,901

### Program Description and Progress

Program Title: HVAC Occupancy Sensor

Program Description: This program is intended to help manage energy consumption and reduce energy waste in hotel rooms by providing hotel owners in Gulf Power's service area the opportunity to automatically control temperature settings in hotel rooms when the rooms are unoccupied.

Program Accomplishments: For the reporting period, 4,825 sensors have been installed as part of this program compared to a projection of 410, or 4,415 sensors over the projection.

Program Fiscal Expenditures: During the reporting period, the Company projected expenses of \$63,324 compared to actual expenses of \$77,659 resulting in a variance of \$14,335, or 22.6% over the projection.

Program Progress Summary: Since its launch in 2011, 5,336 HVAC occupancy sensors have been installed as part of the HVAC Occupancy Sensor program.

### Program Description and Progress

Program Title: High Efficiency Motor Program

Program Description: This program is designed to encourage commercial and industrial customers to install premium-efficiency motors in new or existing facilities. The objective is to reduce demand and energy associated with electric motors by encouraging the replacement of worn out, inefficient motors with high efficiency motors.

Program Accomplishments: During 2013, 433 horsepower (HP) of energy efficient motors have been installed compared to a projection of 258 HP, or 175 HP above the projection.

Program Fiscal Expenditures: During the reporting period, the Company projected expenses of \$64,785 compared to actual expenses of \$60,739 resulting in a variance of \$4,046, or 6.2% under the projection.

Program Progress Summary: Since its launch in 2011, customers have installed 2,996 HP in energy efficiency motors.

### Program Description and Progress

Program Title: Food Service Efficiency Program

Program Description: This program encourages the installation of ENERGY STAR qualified or equivalent energy efficient commercial and industrial food service equipment. The objective of the program is to reduce energy consumption and demand as well as operating costs for the customer through the use of qualified food service equipment including convection ovens, fryers, griddles, steamers, holding cabinets and ice machines.

Program Accomplishments: During 2013, 20 participants enrolled in this program including 1 Convection Oven, 9 Fryers, 0 Griddles, 4 Steamers, 0 Holding Cabinets and 6 Ice Machines compared to a projection of 10, or 10 more than the projection.

Program Fiscal Expenditures: During the reporting period, Gulf projected expenses of \$99,532 compared to actual expenses of \$97,092 resulting in a variance of \$2,440, or 2.5% under the projection.

Program Progress Summary: Since its launch in 2011, 64 customers have participated in the Food Service Efficiency program.

### Program Description and Progress

Program Title: Commercial/Industrial Custom Incentive

Program Description: This program is designed to establish the capability and process to offer advanced energy services and energy efficient end-user equipment to Commercial/Industrial customers. These energy services include comprehensive audits, design, and construction of energy conservation projects. Specifically, projects covered under this program would be demand reduction or efficiency improvement retrofits that are beyond the scope of other programs.

Program Accomplishments: During 2013, 4 customers participated in this program resulting in at the meter kWh reductions of 1,965,492, winter kW reductions of 148 and summer kW reductions of 336.

Program Fiscal Expenditures: During the reporting period, the Company projected expenses of \$191,381 compared to actual expenses of \$183,568 resulting in a variance of \$7,813, or 4.1% under the projection.

Program Progress Summary: Since its launch in 2011, 15 customers participated in the Commercial/Industrial Custom Incentive program resulting in at the meter kWh reductions of 7,070,333, winter kW reductions of 741 and summer kW reductions of 1,151.



**Program Description and Progress**

**Program Title:** Renewable Energy

**Program Description:** The Renewable Energy Program promotes the deployment of demand-side renewable technologies through a portfolio of four programs. These programs include funding to deploy Solar Photovoltaic (PV) systems up to 10 kW in public education facilities (Solar for Schools), offering PV rebates and solar thermal water heating (STWH) rebates to customers installing qualifying systems and facilitating the installation of STWH systems in low-income housing units.

**Program Accomplishments:** During 2013, the following participation occurred in this program:

- Solar for Schools – One 10kW solar PV system was installed in a public education facility as part of Gulf’s Solar for Schools program.
- Solar PV (residential and commercial) – 44 customers completed the installation of a qualifying solar PV system and received an incentive.
- Solar Thermal Water Heating – 22 customers completed the installation of a qualifying solar thermal water heating system and received an incentive.
- Solar Thermal Water Heating for Low Income – Gulf facilitated the installation of 1 qualifying solar thermal water heating system in a low-income residential housing unit in 2013. The program provided the full installation cost for the installation in a Habitat for Humanity residence.

**Program Fiscal Expenditures:** During 2013, \$778,963 in actual expenses have been incurred compared to a projection of \$840,064 resulting in a variance of \$61,101, or 7.3% under the projection.

**Program Progress Summary:** Since its launch in 2011, participation is as follows:

<b>Measure</b>	<b>Program Participation (Program to Date)</b>
Solar for Schools	2 PV System Installed
Solar PV (Residential and Commercial)	132 PV Systems Installed
Solar Thermal Water Heater (STWH)	76 STWH Systems Installed
Solar Thermal Water Heater for Low Income	30 STWH Systems Installed



Program Description and Progress

Program Title: Electric Vehicle Pilot Program

Program Description: The Energy Select Electric Vehicle Pilot Program will provide residential customers with an incentive to encourage electric vehicle transportation and off-peak charging through the Energy Select Program. The objective of this pilot program is to measure customer acceptance of EVs and PHEVs as well as customer response to charging these electric vehicles using Gulf Power's existing Energy Select Program.

Program Accomplishments: During 2013, 9 customers participated in the Electric Vehicle Pilot Program.

Program Fiscal Expenditures: During 2013, \$8,539 in actual expenses was incurred in this program compared to a projection of \$7,519 resulting in a variance of \$1,020 or 13.6% over the projection.

Program Progress Summary: Since its launch in 2013, 13 customers have participated in the Electric Vehicle Pilot Program.

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## Program Description and Progress

Program Title: Conservation Demonstration and Development

Program Description: A package of conservation programs was approved by the FPSC in Order No. 23561 for Gulf Power Company to explore and to pursue research, development, and demonstration projects designed to promote energy efficiency and conservation. This program serves as an umbrella program for the identification, development, demonstration and evaluation of new or emerging end-use technologies.

### Program Accomplishments:

#### **UWF BEST House**

Gulf Power has entered into a partnership, along with a number of other donors, with the University of West Florida, located in Pensacola, Florida, to help build the BEST (Build Educate Sustain Technology) House. This is a demonstration house that will be used as an educational tool and resource for Northwest Florida.

Previously, the BEST House program's intent was to provide a home featuring energy-efficient, sustainable design techniques available to the median homebuilder and buyer of today. The 3,300 square foot, three-bedroom home was to be a study model featuring passive solar collectors, grey-water and rainwater collection systems, advanced insulation systems, a geothermal heat pump, whole-house ventilation, energy-efficient appliances and lighting, day-lighting, and sustainable building products.

General economic conditions affecting sponsor support and permitting requirements have delayed construction of the BEST House as originally planned. The project team held a kick-off meeting during the summer of 2011 and agreed to move forward with a modified plan. The original house will not be built; however, the intent of the project remains the same. The new plan involves the retrofit of an existing building on UWF's site. In the approximately 3800 sq. ft. building, we anticipate showcasing similar features such as passive solar collectors, grey-water and rainwater collection systems, advanced insulation systems, a High SEER conventional and Variable Refrigerant Flow (VRF) heat pump, whole-house ventilation, energy-efficient appliances and lighting, day-lighting, and sustainable building products.

The modified house now known as The Community Outreach, Research and Education (C.O.R.E.) Initiative will be used as a center to explain and demonstrate the advantages of retrofitting existing homes for energy efficiency.

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The C.O.R.E. initiative is committed to improving construction education at the University of West Florida (UWF) and in the greater Pensacola, Florida community. The C.O.R.E facility is a multipurpose laboratory; a research lab, a trade demonstration area, a construction yard, and an interactive, energy efficiency and demonstration showcase. The C.O.R.E. facility will promote energy efficient construction through the innovative display of cutting-edge technology, and through community outreach and participation. The lab will be made available to students, industry professionals and the general public.

The facility will accommodate a research initiative in an effort to measure the efficacy of different building technologies and installations. The C.O.R.E initiative is particularly interested in the metering and measurement of sealed attic spaces, roof types, walls forms, windows, water heaters, HVAC equipment, renewable energy and controls systems. The construction yard and demonstration area would provide a similar opportunity for materials research and community seminars.

Gulf Power is acting as the primary Energy Consultant to all end uses and new technologies that will continue to be donated to this project. Gulf Power will pay for the purchase, installation and monitoring of equipment that will provide data on a wide variety of energy and water end uses.

All participants remain optimistic and enthusiastic about the completion and potential contributions of this project. This project is expected to be in place and active by the first quarter of 2014. Gulf will then monitor for one year and have a final report filed with results at the end of 2015.

#### **Energy Select Electric Vehicle Project**

This project is complete and a final report was filed with the Commission December, 2013.

#### **Extended Range Electric Vehicle**

This project is intended to obtain experience with and data on Extended Range Electric Vehicle (EREV) energy flows, operational characteristics, costs, effects on the grid, and integration with the Energy Select program. Comparisons will be made with earlier Prius PHEV research. This project is complete and a final report was filed with the Commission December, 2013.

#### **Plasma Waste Facility**

This project is complete and a final report was filed with the Commission December, 2013.



### **McDonald's GeoThermal Project**

The purpose of this project is to compare a geothermal heat pump system and a non-geothermal, standard roof-top HVAC system between two McDonald's restaurants in the Pensacola area. Gulf Power partnered with a third party to perform the metering, data gathering and analysis. Metering was for a two-year period, beginning in June 2011 and ending in June 2013. The results show that a geothermal heat pump system, without question, saves energy over standard HVAC systems. This project is complete and a final report was filed with the Commission December, 2013.

### **Nest Thermostat Project**

This project is intended to test operating characteristics and energy savings impacts resulting from the installation of the Nest Thermostat. Gulf Power is partnering with a third party to perform the metering and analysis. The results will demonstrate any potential energy savings and overall cost savings of installing a Nest Thermostat in residential homes. Meter data is collected in 15 minute intervals and metering began in June, 2012 and ended in June, 2013. A final report was submitted March, 2014.

### **Azalea Trace Project**

The purpose of this project is to test the application of a Heat Pump Water Heater in an assisted living facility. The project includes the installation of a commercial size Heat Pump Water Heater (4-ton heating capacity), two 119 gallon storage tanks and distribution duct work. The HPWH unit will provide preheated water (140 degrees F) to the existing natural gas boilers. In turn the boilers will feed the existing 350 gallon storage tank supplying hot water to the washers.

The project will provide a database for the application of the HPWH in this type facility. No data is on record within Gulf Power for the HPWH application in an assisted living facility. The laundry is a 24-hour 7-day a week operating facility. The data will be used to promote energy efficient production of hot water, off-set the installation of additional air conditioning units and provide a better climatic working environment for the employees.

The sole customer will be Azalea Trace Assisted Living facility. Currently the heated water is produced by two natural gas boilers. The first phase of monitoring will be to record the existing natural gas required to supply hot water. This will be identified as the "as-built" system. Further monitoring will include measuring the effect the HPWH system has on the boilers' fuel usage. The "as-built" system currently heats the water to 140 degrees (F). This also will be accomplished with the application of the HPWH. The HPWH will either supply the total amount of hot water required or provide additional stored 140-degree (F)

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water to two 119 gallon storage tanks. The HPWH will also supply pre-heated water to the boiler during peak water usage. This feature will allow the existing boilers to reduce their natural gas consumption and work more efficiently. After the heat pump water heater is installed, monitoring will continue on the boilers to determine this reduction. Additional monitoring points will be: water flow (GPM), energy (kWh of HPWH), and the amount of air conditioning (BTUH) it provides as a by-product.

The values of the data recorded will be used to calculate the system amount of "free" A/C cooling, the effect on the amount of natural gas used by the boilers, the electrical usage of the HPWH and the overall energy efficiency of the system.

The data will be used to illustrate the energy efficiency of a HPWH in a large commercial application. The data will illustrate efficient use of dual fuel application. This is the first application of a dual fuel HPWH in a 24-hour operating facility of this type in Gulf's service area.

Program Fiscal Expenditures: Program expenses were forecasted at \$68,444 for the period January through December 2013 compared to actual expenses of \$66,414 for a deviation of \$2,030, or 3.0% under the projection. Project expenses were as follows: UWF BEST House, \$0; NEST Thermostat, \$29,663; McDonald's Geothermal Project, \$14,800; Energy *Select* Electric Vehicle Project, \$847; and Azalea Trace Heat Pump Water Heater, \$21,104.



BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

IN RE: Energy Conservation Cost Recovery Clause )

Docket No.: 140002-EG

**CERTIFICATE OF SERVICE**

I HEREBY CERTIFY that a true copy of the foregoing was furnished by electronic mail this 2nd day of May, 2014 to the following:

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