Susan D. Ritenour Secretary and Treasurer and Regulatory Manager One Energy Place Pensacola, Florida 32520-0781

Tel 850.444.6231 Fax 850.444.6026 SDRITENO@southernco.com



June 3, 2010

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

Dear Ms. Cole:

Re: Docket No. 100154-EG

Enclosed are the original and five copies of Gulf Power Company's responses to Staff's First Data Request, filed by FedEx in the above-referenced docket.

Sincerely,

Susan D. Ritenous (lw)

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Enclosures

Beggs & Lane cc:

Jeffrey A. Stone, Esq. George Cavros, Esq.

> BOOCHERT ALMORAN CATE 04652 JUN-12

FPSC-COMMISSIONER CLASS

Staff's First Data Request Docket No. 100154 Gulf Power Company June 3, 2010 Item No. 1 Page 1 of 1

- 1. Please provide, on an individual program basis, the following tables and forms included in the Company's petition. Please provide an electronic copy in Excel (.xls file format).
 - a. Program Participation Values
 - b. Program & Individual Measure Savings @ the Meter
 - c. Program & Individual Measure Savings @ the Generator
 - d. PSC Form CE 1.1 (Financial Assumptions)
 - e. PSC Form CE 2.3 (Total Resource Cost Test)
 - f. PSC Form CE 2.4 (Participant Costs and Benefits)
 - g. PSC Form CE 2.5 (Rate Impact Measure Test)

ANSWER:

The enclosed CD contains the requested electronic files above. The bottom tabs of the enclosed Excel spreadsheet represent Gulf's programs. Multiple tables on some tabs represent different measures within that program. The tables in Excel columns A through G respond to parts a, b, and c of the above question, while the tables in Excel columns J through BL respond to parts d, e, f, and g of the question.

Staff's First Data Request Docket No. 100154 Gulf Power Company June 3, 2010 Item No. 2 Page 1 of 2

For the following questions (2-5), please provide the name of each program, indicate the customer category of the program, and whether it represents an energy efficiency, demand response, or renewable program. Please include all programs on a single table, adding columns as necessary.

2. Please provide, on an individual program basis, the cumulative projected savings over the period 2010 through 2019. As part of this response, please also provide the percentage of the Commission's Authorized Goals and the Company's proposed demand and energy savings met by the program. Please complete the table below and provide an electronic copy in Excel (.xls file format) with the hard copy response.

ANSWER:

See the table on the following page (Item No. 2, Page 2 of 2).

Staff's First Data Request Docket No. 100154 Gulf Power Company June 3, 2010 Item No. 3 Page 1 of 1

3. Please provide, on an individual program basis, the cumulative net present value of expenditures required over the period 2010 through 2019. Please indicate the type of expenditure, separating them into categories including administrative, marketing, equipment, operations & maintenance, and incentives/rebates to customers. As part of this response, please also provide the percentage that each category represents of the total program expenditures. Indicate the first year rate impact of these expenditures, percentage of the total Energy Conservation Cost Recovery Clause for the first year of these expenditures, and any lost revenues associated with the program. Please complete the table below and provide an electronic copy in Excel (.xls file format) with the hard copy response.

ANSWER:

See the table in Gulf's response to Item No. 2, Page 2 of 2.

Ms. Ann Cole, Commission Clerk Staff's First Data Request June 3, 2010

bc: J. Floyd R. Dodd G. Livingston J. Mintz

D. Shell

K. Harris

State of Florida



Hublic Service Commission

Capital Circle Office Center • 2540 Shumard Oak Boulevard Tallahassee, Florida 32399-0850

-M-E-M-O-R-A-N-D-U-M-

DATE: March 25, 2011

TO: Division of Regulatory Analysis

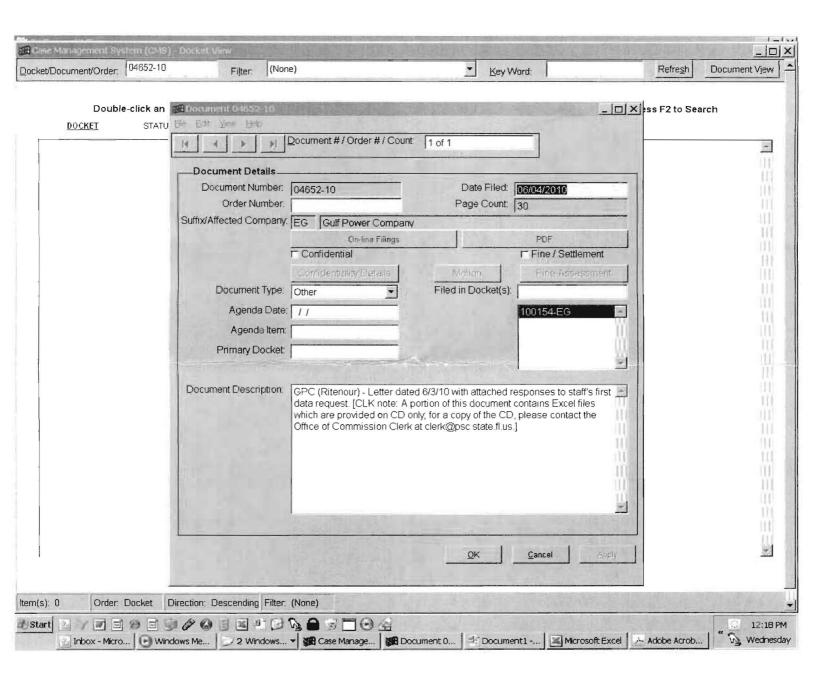
FROM: Ann Cole, Commission Clerk, Office of Commission Clerk

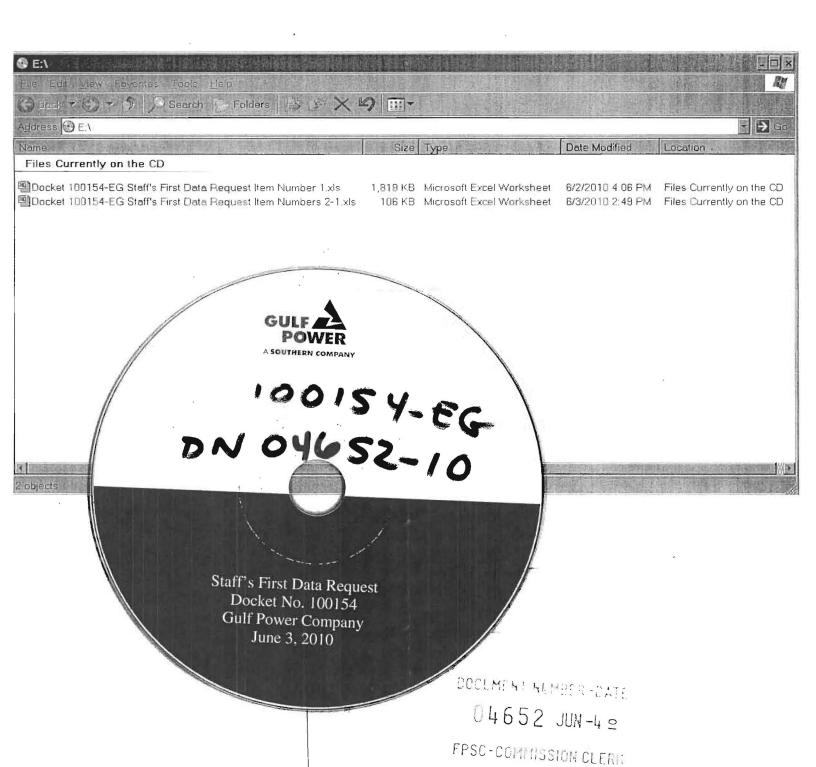
RE: Docket Number 100154-EG, Document Number 04652-10

Attached please find one CD in the above-referenced matter identified as Staff's First Data Request, Docket No. 100154, Gulf Power Company, June 3, 2010. This CD is being forwarded to the Division of Regulatory Analysis for further disposition.

If you have any questions regarding this transmittal, please feel free to contact me.

Thank you.





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1. The cost estimates to achieve the Commission approved conservation goals are based on the livon Achievable Potential Study projections for the E-TRC High incomive scenario plus estimated costs in achieve the additional savings associated with the two-year projects measures. These cost projections include estimates for expenses related to extensing ownercess, projects make the projects of achieves the cost projections include estimates for expenses related to extensing ownercess, projects make the cost of the E-TRC High incomive scenario plus estimated costs as scient as the project of the expense of evaluating cost-effectiveness, Colf informatic these total projects and the cost of the expense of of

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	(%)	100%	86%	86%	76%	40%	51%	71%	69%	60%	100%	100%	80%	91%	81%	52%	61%	63%	75%	1007%		-
dministrative ¹³	(%)	100%	80%	8076	70%	4074	3174	1174														+
ducation, Surveys, Marketing	(%)				-					1000		J. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.						7	25%	(6)		100
quipment, Installation, O&M ncentives / Rehates	(%)	0%	14%	14%	24%	60%	49%	29%	31%	40%	0%	0%	20%	9%	19%	48%	39%	37%	25%	(b)	AND RESIDENCE OF THE PARTY.	10000
rogram Rate Impact	(7x)	U76	1478	1476	24.78	THE PARTY NAMED IN COLUMN	A SHARE SHARE THE REAL PROPERTY.	COMPOSITION AND ADDRESS.	2-127 d Tr. 2-12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	STATE OF THE PARTY OF	1502 a 100 a			SERVICE			ALL DISPLACES		S 18,335	15 164,602	SO	Ts
irst year program expenditures	1	Sn Sn	S 534,815	S 320.889	\$ 3,070,169	S 166,400	5 58,781	5 127,922	5 76,562	S 214,989	\$ 8,700,630	5 \$ 320,431	\$ 3,360,950	\$0	\$0	\$ 524,134						6
	(S/mo)		5 0.063				\$ 0.007	5 0.015	5 0.009	5 0.025	\$ 1.02	7 8 0.038	5 0,397	s -	5 .	\$ 0.062	S 0.002			0.70%	0.00%	1
esidential Rate Impac(2)	(S/mo) (%)	0.00%	2.29%	1.37%	13.13%	0.71%	0.25%	0.55%	0.33%	0.92%	37.20%	1.37%	14.37%	0.00%	0.00%	2.24%	0.06%	0.23%	0.08%		0.00%	+
Percentage of Total ECCR Rate	(%) (S)	0.00%	2.29%	S 4 164 235	\$ 322 200 A12		5 2,963,994			\$ 10,038,551		S 2,278,796	\$ 35,395,283	\$ 12,887,096	\$ 23,485,991	\$ 32,258,138	\$ 797,651	\$ 2,211,911	\$ 1,089,259			_
ost Revenues (NPV 2010-2019)			3 10,823,030	3 4,104,203	3 343,477,414	3 15,520,155	0 217001774	S Television		A STATE OF THE PARTY OF					in planting of the said							_
rogram Information - Cost Effective	cuess (ttem tanna	er 4)				Manager Manager Manager	The second second		ACCUMULATION OF	The State of the S	Mary Delivery	SPICETULE COLOR	A STATE OF THE PARTY OF	NAME OF TAXABLE PARTY.	THE RESIDENCE OF THE PARTY OF T						OR STREET, STR	-
-TRC Test Results	1 (6)	Lb. 2 692 102	Le 0.904 \$21	T 2 769 000	1 c 249 742 222	S 13,355,775	\$ 2.946.946	\$ 16,099,510	S 8.167.427	S 14.487.696	S 43,185,285	S 8,568,566	S 33,081,852	\$ 12,582,097	\$ 31,897,827		\$ 801,295					+
otal Benefits otal Costs	(S)	S 1.745.488					S 2,481,944	\$ 7,910,671	\$ 3.247.792	\$ 5,332,078	5 26,378,015	S 3,950,244	5 24,220,542	\$ 5,121,138	\$ 6,654,830				S 321,941			+
	(5)	1,745,488	1.70	1.67	1.81	1.04	1.19	2.04	2.51	2.72	1.64	2.17	1.37	2.46	4.79	2.74	2.25	2.73	3.86			1000
-RIM Test Results	1	1.65	1,70	1.07	1.01	THE PERSON NAMED IN		NAME OF TAXABLE PARTY.	Charles In a labor	BETTER THOSE	March St.		No. of Concession, Name of Street, or other party of the last of t			NAME OF TAXABLE PARTY.			T- 1242 000		·	T
	T (5)	Te 2 992 102	9 9 906 521	Ts 3.768 990	S 348 743 222	S 13,355,775	S 2,946,946	S 16,099,510	5 8,167,427	S 14,487,696	S 43,185,285	S 8,568,566	\$ 33,081,852	S 12,582,097					\$ 1,243,990		-	+
otal Benefits	(S)			S 6,419,343			\$ 4,523,927	\$ 23,098,809		\$ 14,526,383				\$ 18,543,278	5 29,392,16				\$ 1,336,813	-		+
otal Costs	(5)	0.70	0.59	0.59	0.77	0.52	0.65	0.70	0.97	0.997	1.01	1.28	0.59	0.68	1.09	1.00	0.77	1,00	0.93	The state of the s	ALTERNATION AND ADDRESS OF THE PARTY OF THE	-
ntio	A STATE OF THE PARTY OF THE PAR	0.70	0,39	J.37	0.77	Name and Address of the Owner, th	A STATE OF THE PARTY OF THE PAR	SHAULDSON COLUMN	SALES OF THE PARTY	THE DESIGNATION	A CONTRACTOR	PROPERTY AND REAL PROPERTY.	SUB-LEGISTER OF THE PARTY OF TH	RECEIPTED TO	COMPAND DESIGNATION	KIES OF THE EXPLICATION		T	Ts 1.151.00-			T
orticipants Test Results ortal Benefits	T (\$)	Ty 3172563	S 11.614.059	S 4,473,528	T s 359 694 non	S 21.715.377	\$ 3,728,468	S 18.513.567	S 6,801,080	S 11,828,513	\$ 21,150,63	9 5 2,728,796		\$ 13,422,140					S 1,151,004 S 136,133			+
	(S)	\$ 820,638	S 789,923				\$ 1,686,485	\$ 3,325,429	\$ 1,612,608	\$ 2,634,209	S 4,842,53	4 S .	5 7,986,239	\$ -	\$ 1,876,86		S 206,582				-	+
otal Costs atio	(5)	3.87	14.70	14.46	3.80	2.40	2.21	5.57	4.22	4.49	4.37	99.00	4.95	99.00	13.11	3.45	4.32	4.75	8.46	-	Section Section Association	-
	1	3.87	14.70	Party Control	3.60	4,71	Are Children and	0.305(9000)/A9eQal	And additional to the last of	A Section of the last	PROCE PROPERTY	No. of Concession, Name of Street, or other Persons, Name of Street, or other Persons, Name of Street, Name of	100 Land 100			SHEWICH SHIPS SELECT	The state of the s		And Anna	1		T
ryback Period	(Yrs)	1 2	10	T 10	1	28	23		12	11	12	8		7	4		10		1000			1
TRC Test	-	- 4			(0)		N/A	(9)	N/A	N/A	27	13	(9)	N/A	- 11	(9)	N/A	(9)	(9)			+
RIM Test ⁽³⁾	(Yrs)	N/A	N/A	N/A	(9)	N/A	N/A	(9)	N/A	7//	<1 <1	<1		<1	<1		4					
articipants Test	(Yrs)	<1	<1	<1	The same of	8	- 11		0	4	- N						100					

1. The cost estimates to achieve the Commission approved conservation goals are based on the liron Achievable Potential Study projections for the E-TRC High incentive scenario plus estimated costs to schieve the additional storings associated with the two-year payback measures. These cost projections include estimates for expenses related to creating awareness, projects measures. These costs projections include estimates for expenses related to creating awareness, projects measures. These costs projections include estimates for expenses of evaluating cost-effectiveness, Colf allocated these total perspects based on the amount of energy awarings each program contributes to the total DSM Plan target. Colf utilized this approach due to nature of most all proposed programs being new and without any hasterical experience of actual program operation costs. Upon Plan approval, Colf allocated these total projects programs being new and without any hasterical experience of actual program operation costs. Upon Plan approval, Colf and the state of the contribution of the contribut

Staff's First Data Request Docket No. 100154 Gulf Power Company June 3, 2010 Item No. 4 Page 1 of 1

4. Please provide, on an individual program basis, the results of the E-TRC, E-RIM, and Participants Tests. Include the cumulative net present values of all benefits and costs. As part of this response, please provide the payback period for each program. Please complete the table below and provide an electronic copy in Excel (.xls file format) with the hard copy response.

ANSWER:

See the table in Gulf's response to Item No. 2, Page 2 of 2.

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5. Please provide, for each program, a list of measures associated with that program. For programs with varying incentives by device or installation, please represent each as a separate 'measure' within the program. For Audit Programs, assume that any equipment provided or installed (such as Compact Fluorescent Light Bulbs) are a separate 'measure.'

- 1. Residential Energy Audit and Education Program
 - a. Home Energy Reporting
- 2. Community Energy Saver Program
 - a. Compact Fluorescent Light Bulbs
 - b. Water Heater Temperature Check and Adjustment
 - c. DWH Pipe Wrap 10 ft.
 - d. Faucet Aerators
 - e. Low-flow Showerheads
- 3. Landlord-Renter Custom Incentive Program
- 4. HVAC Efficiency Program
 - a. HVAC Maintenance
 - b. HVAC Retirement Tier 1
 - c. HVAC Retirement Tier 2
 - d. HVAC Retirement Tier 3
 - e. HVAC Upgrade Tier 1
 - f. HVAC Upgrade Tier 2
 - g. HVAC Upgrade Tier 3
 - h. Duct Repair
 - i. ECM Fan
- 5. Heat Pump Water Heater Program
- 6. Ceiling Insulation Program
- 7. High Performance Window Program
 - a. Window Replacement
 - b. Window Film
- 8. Reflective Roof Program
- 9. Variable Speed Pool Pump Program
- 10. Energy Select
- 11. Energy Select Lite
- 12. Self-Install Energy Efficiency Program
 - a. Energy Star Refrigerator
 - b. Energy Star Freezer
 - c. Energy Star Clothes Washer

Staff's First Data Request Docket No. 100154 Gulf Power Company June 3, 2010 Item No. 5 Page 2 of 2

- d. Energy Star Window A/C Unit
- e. Compact Fluorescent Lamps
- 13. Refrigerator Recycling Program
- 14. Commercial/Industrial Audit Program
- 15. HVAC Retrocommissioning Program
- 16. Commercial Building Efficiency Program
 - a. HVAC Efficiency Upgrade
 - i. Air Source A/C or Heat Pump
 - ii. Geothermal Heat Pump
 - b. Heat Pump Water Heater
 - c. Ceiling/Roof Insulation
 - d. Window Film
 - e. Interior Lighting
 - i. Fluorescent Lighting
 - ii. LED Lighting
 - iii. Occupancy Sensors
 - f. Reflective Roof
- 17. HVAC Occupancy Sensor Program
- 18. High Efficiency Motor Program
 - a. 1 to 5 HP
 - b. 6 to 50 HP
 - c. 51 HP and up
- 19. Food Service Efficiency Program
 - a. Convection Oven
 - b. Fryer
 - c. Griddle
 - d. Steamer
 - e. Holding Cabinet
 - f. Ice Machine
- 20. Commercial/Industrial Custom Incentive Program
- 21. Real Time Pricing Program
- 22. Solar for Schools Program
- 23. Solar Thermal Water Heating Program
- 24. Solar Photovoltaic Program
- 25. Solar Thermal Water Heating for Low-Income Housing Program

Staff's First Data Request Docket No. 100154 Gulf Power Company June 3, 2010 Item No. 6 Page 1 of 2

For the following questions (6-9), only consider those programs which feature multiple measures. Please provide the name of each measure, and indicate with which program it is associated. Include all measures on a single table, adding columns as necessary.

6. Please provide, for each measure identified by the criteria above, the cumulative projected savings over the period 2010 through 2019. As part of this response, please also provide the percentage of the Commission's Authorized Goals and the Company's proposed demand and energy savings met by the measure. Please complete the table below and provide an electronic copy in Excel (.xls file format) with the hard copy response.

ANSWER:

See the table on the following page (Item No. 6, Page 2 of 2).

									Name of the last	-			SECRETARIA DE LA CONTRACTORIO	SHEW					100000000000000000000000000000000000000				T
	Energy Star		Energy Star	Energy Star	Compact	HVAC	Geothermal Heat Pump	Heat Pump Water Heater	Ceiling/Roof Insulation	Window Film	Interior Lighting	Interior Lighting- LED	Occupancy Sensor Interior Lighting	Reflective Roof	Energy Efficiency Motor 1-5 HP	Energy Efficiency Motor 6-50 HP	Energy Efficiency Motor 51+ HP	Convection Oven	Fryer	Griddle	Steamer	Holding Cabinet Food Service	Ice Machi
Window Film		Energy Star Freeze Self-Install Energy	King out	Clothers Washer Self-Install Energy	Fluorescent Lamp Self-Install Energy	Commercial Building	Commercial Building	Commercial Building	Commercial Building	Commercial Building	Commercial Building Efficiency	Commercial Building Efficiency	Commercial Building Efficiency	Commercial Building Efficiency	High Efficiency Motors	High Efficiency Motors	High Efficiency Motors	Food Service Equipment	Food Service Equipment	Food Service Equipment	Food Service Equipment	Equipment	Equipme
High Performano Window	Efficiency	Efficiency	Efficiency	Efficiency	Efficiency	Efficiency	Efficiency	Efficiency	Efficiency	Efficiency	Ethiciency	Efficiency	Linoiday		THE PARK BEEN						a transaction		0.03
										1.422	1.379	0.657	1.681	4.302	0.019	0.376	0.18	0.021	0.013	0.01	0.091	0.158 0.158	0.03
0.46	1.4	0.087	1.1	1.67	1.4	0.985	0.844	0.236	0.783	1.422	1.379	0.657	1.681	0	0.019	0.376 1.831	0.18	0.021	0.063	0.041	0.327	0.712	0.223
0	1.3 8.862	0.079	1.789	9.77	26.928	3.553	1.654	0.809	1.081	4.032	5.013	2.387	5,581	9.614	0.082			1 0.00/	0.0%	0.0%	0.1%	0.1%	0.09
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0.3%	0.8%	0.0%	0.6%	1.0%	0.8%	0.0%	0.5%	0.2%	0.1%	0.0%	0.9%	0.4%	1.0%	0.0%	0.0%	0.3%	0.2%	0.0%	0.0%	0.0%	0.1%	0.176	THE REAL PROPERTY.
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0.3%	1.2%	0.1%	0.0%	1.5%	1.8%	0.0%	0.7%	0.3%	0.2%	0.7%	0.9%	0.4%	1.0%	1.7%	0.0%	0.3%	0.2%	0.076	0.074				
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	54 S 911,18	9 \$ 93,31	9 \$ 181,439			\$ 678,460	\$ 710,958 7 \$ 937,043	\$ 182,185	\$ 241,213	\$ 1,004,535	\$ 788,982	\$ 407,880	\$ 857,200	\$ 3,337,465	5 \$ 17,28	5 \$ 322,844	293,09	113 3451				1	9
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aponent Measure Name		Light Bulbs	Adjust	Wrap	Aerators	Showerheads	Switch Gaskets	Coil Brush	Maintenance HVAC Efficiency	HVAC Efficiency	HVAC Efficiency	HVAC Efficiency	HVAC Efficiency	HVAC Efficiency	HVAC Efficiency Improvement	HVAC Efficiency Improvement	HVAC Efficiency Improvement	High Po
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^{1.} The cost estimates to achieve the Commission approved conservation goals are based on the Iron Achievable Potential Study projections for the E-TRC High incentive scenario plus estimated costs to achieve the additional savings associated with the two-year payback measures. These cost projections include estimates for expenses related to creating awareness, program administration. For purposes of evaluating cost-effectiveness, Gulf allocated these total portion outs across programs based on the amount of energy savings each program contributes to the total DSM Plan target. Gulf utilized this approach the to nature of more all programs pering and without any historical experience of actual program operation costs. Upon Plan approval, Gulf anticipates fanishing "bottom-up" program costs estimates in order to more accurately estimate annual cost-recovery projections for Corumission review and approval

2. Per 1700 Mb average monthly energy consumption

3. For N/A — RIM ratio less than 1.0 has no payback period

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7. Please provide, for each measure identified by the criteria above, the cumulative net present value of expenditures required over the period 2010 through 2019. Please indicate the type of expenditure, separating them into categories including administrative, marketing, equipment, operations & maintenance, and incentives/rebates to customers. As part of this response, please also provide the percentage that each category represents of the total measure expenditures. Indicate the first year rate impact of these expenditures, percentage of the total Energy Conservation Cost Recovery Clause for the first year of these expenditures, and the lost revenues associated with the measure. Please complete the table below and provide an electronic copy in Excel (.xls file format) with the hard copy response.

ANSWER:

See the table in Gulf's response to Item No. 6, Page 2 of 2.

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8. Please provide, for each measure identified by the criteria above, the results of the E-TRC, E-RIM, and Participants Tests. Include the cumulative net present values of all benefits and costs. As part of this response, please also provide the payback period for each measure. Please complete the table below and provide an electronic copy in Excel (.xls file format) with the hard copy response.

ANSWER:

See the table in Gulf's response to Item No. 6, Page 2 of 2.

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9. Please provide, for each measure identified by the criteria above, the incentive rate provided and the estimated customer equipment cost. Indicate the amount of nonrecurring expenses by category, including administrative, equipment, and incentives/rebates to customers. As part of this response, please also provide the rate for recurring expenses by category. Please complete the table below and provide an electronic copy in Excel (.xls file format) with the hard copy response.

ANSWER:

See the table in Gulf's response to Item No. 6, Page 2 of 2.

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10. Please complete the following table regarding the Company's Avoided Unit selected for purposes of program development and cost-effectiveness testing. Include the unit's seasonal capacity, technology type, primary fuel, and commercial in-service date. Please also provide financial data sufficient to calculate the avoided cost of the unit, including its capital and operations & maintenance cost. In addition, please indicate the avoided energy rate utilized for energy savings in programs. Please complete the table below and provide an electronic copy in Excel (.xls file format) with the hard copy response.

	Avoided Unit	Infort	nation						
Plant Name			Gen	eric					
Unit #			Unloc	ated					
Technical In	ormation								
Capacity	Summer		840	(MW)					
Сараску	Winter	900 (MW							
Technology '	Гуре	Combined Cycle							
Primary Fuel			Natura	al Gas					
Commercial In	n-service Date	2014							
Performance	Data								
Capacity Fac	tor		40.8	(%)					
Heat Rate			6,874	(BTU/kWh)					
Financial Da	a								
Book Life			40	(Years)					
Total Installe	d Cost	\$	915	(\$/kW)					
Fixed O&M C	Cost*	\$	8.11	(\$/kW-year)					
Variable O&N	1	\$	1.71	(\$/MWh)					
Avoided Fuel									
Avoided Ene	rgy Rate	\$	83.26	(\$/MWh)					

^{*}Does not include firm gas transportation cost

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11. Please complete the following table regarding the Company's projected customer rates for non-fuel energy rates and demand that are utilized in the Company's cost-effectiveness tests. Please complete the table below and provide an electronic copy in Excel (.xls file format) with the hard copy response.

Projected Rat	e Informa	tion
Residential		
Non-Fuel Energy Rate	5.085	(cents/kWh)
Escalation Rate*	2.68	(%)
Commercial		
Non-Fuel Energy Rate	2.458	(cents/kWh)
Escalation Rate*	2.68	(%)
Demand Rate	5.42	(\$/kW-mo)
Escalation Rate*	2.68	(%)

^{*}Compound Average Growth Rate 2009-2038

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12. Please complete the following table regarding the Company's estimations of line loss utilized in the estimation of generator savings. As part of this response, please indicate the values used for residential and commercial customers separately. Please complete the table below and provide an electronic copy in Excel (.xls file format) with the hard copy response.

Line Loss V	alues	
Residential		
Energy Percentage	9.1	(%)
Demand Percentage	14.2	(%)
Commercial		
Energy Percentage	9.1	(%)
Demand Percentage	14.2	(%)

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13. Please describe how costs associated with CO₂ Emissions are included in the Company's cost-effectiveness tests. As part of this response, please provide the annual cost assumed per ton of carbon dioxide equivalent, and the projected emission rate per megawatt-hour. Please indicate if there is any difference between these values and the values provided in the Commission's review of numeric conservation goals dockets.

ANSWER:

During the conservation goal setting process, Gulf included the projected future cost of CO₂ emissions as a component of the avoided energy cost when performing cost-effectiveness evaluations. Effectively, the CO₂ cost increases the benefit associated with avoiding energy with a conservation measure. While there is currently no federal or state regulation of CO₂ emissions, this method is consistent with how other environmental compliance costs are included in Gulf's analysis.

Gulf provided the following table of CO₂ assumptions in response to Staff's Eighth Set of Interrogatories, No. 46 in Docket No. 080410-EG. Gulf utilized the "\$20/Ton" scenario in development of the E-RIM High and E-TRC High achievable potential projections. The table also provides the emissions rate of the avoided unit used in Gulf's analysis. Gulf utilized the same assumptions in calculating the cost-effectiveness results provided in the proposed DSM plan.

Year	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Cost of CO ₂ (10\$/Ton)						\$11.41	\$11.83	\$12.61	\$13.43	\$14.32
Cost of CO ₂ (20\$/Ton)						\$22.82	\$23.66	\$25.21	\$26.87	\$28.64
Cost of CO ₂ (30\$/Ton)						\$33.30	\$35.48	\$37.82	\$40.30	\$42.95
CO ₂ Emission Rate ¹ (Ton/MWh)					.402	.402	.402	.402	.402	.402

<u>Footnote 1</u>: The CO₂ emission rate provided is for the combined cycle unit with a heat rate of 6,874 BTU/kWh designated as Gulf's avoided unit. The emission rate is a function of the CO₂ content of natural gas (117.1 lbs/MMBtu) and the heat rate of the unit.

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14. Please describe how the savings from conducting energy audits are calculated. As part of this response, please provide the percentage difference between savings associated with any equipment provided or installed (such as Compact Fluorescent Light Bulbs), and other sources.

ANSWER:

Gulf Power's proposed DSM Plan does not count savings associated with energy audits for the purpose of meeting the Commission-approved goals. However, if a customer adopts one or more conservation or energy efficiency measures as a result of participation in an energy audit, savings associated with such measure(s) are counted for purposes of goal achievement.

Staff's First Data Request Docket No. 100154 Gulf Power Company June 3, 2010 Item No. 15 Page 1 of 1

15. Please explain or describe any tax rebates that may be available to customers during the 2010 through 2019 period for installation of any measures discussed in response to questions 6-9 above, including energy efficiency and customer-owned renewable generation. As part of this response, please include the associated program name, specific measure, and expiration dates as appropriate for each tax rebate, and whether the rebate was included in cost-effectiveness tests.

ANSWER:

The current federal tax code provides a 30% tax credit for certain energy efficiency products installed in a homeowner's primary residence. This tax credit is available through December 31, 2010 and has a maximum benefit of \$1,500 to the homeowner for any combination of products installed.

The federal tax code also provides a 30% tax credit for installation of solar thermal water heaters, solar PV, and geothermal heat pumps. This tax credit is available through December 31, 2016 and has no cap.

Program	Measure	Expiration date of tax credit ¹	Amount of credit included in cost-effectiveness test
HVAC Efficiency	Retirement, tier 2	Dec 31, 2010	\$1,260
HVAC Efficiency	Retirement, tier 3	Dec 31, 2016	\$2,175
HVAC Efficiency	Upgrade, tier 2	Dec 31, 2010	\$1,365
HVAC Efficiency	Upgrade, tier 3	Dec 31, 2016	\$2,175
Heat Pump Water Heater	Heat pump water heater	Dec 31, 2010	\$0 ²
Ceiling Insulation	Ceiling insulation	Dec 31, 2010	\$0 ²
High Performance Window	Windows	Dec 31, 2010	\$0 ²
Reflective Roof	Cool roof	Dec 31, 2010	\$0 ²
Renewable Energy	Solar thermal water heater	Dec 31, 2016	N/A ³
Renewable Energy	Solar PV	Dec 31, 2016	N/A ³

<u>Footnote 1</u>: For the cost-effectiveness calculations, Gulf assumed all tax credits extend through the end of the program or 2019, whichever comes first. Since the energy efficiency equipment tax credit is capped at \$1,500, Gulf assumed all tax credit would be applied to the HVAC program measures, thus no tax credit was applied to non-HVAC measures.

<u>Footnote 2</u>: Since the energy efficiency equipment tax credit is capped at \$1,500, Gulf assumed all tax credit would be applied to the HVAC program measures, thus no tax credit was applied to non-HVAC measures.

<u>Footnote 3</u>: Cost-effectiveness results for Renewable Energy Programs were not provided in the DSM Plan filed with the Commission.

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16. Regarding photovoltaic panels for schools, please explain or describe the difference in ownership of the solar facility between this program and other customer-side renewable energy installations. Please indicate when ownership would be transferred to the school. Also, please discuss anticipated maintenance costs over the life of the photovoltaic panels.

ANSWER:

Under Gulf Power's proposed Solar for Schools Program, Gulf has proposed to provide the full capital funding for the installation of up to 10 kW solar photovoltaic (PV) systems at various schools served by Gulf. Gulf would own and ensure proper maintenance of the solar equipment for a period of five years. At the end of the five-year period, ownership and maintenance of the system would be transferred to the respective schools for their continued use. Systems installed under the other solar incentive programs proposed by Gulf would be funded by the customer with the upfront cost being reduced by the Gulf Power incentive. Customers installing systems under these programs would immediately take ownership of the systems upon installation and would be completely responsible for the proper maintenance and operation of the systems.

Based on direct input from the Florida Solar Energy Center (FSEC), normal maintenance costs for major components over the life of a PV system with battery back-up is estimated to be as follows:

Component	Expected Life	Cost to	Occurrences	Total
		Replace	over System Life	Maintenance
				Cost
Batteries	10-15 years	\$15,000	2	\$30,000
Inverter	10 years	\$6,000	2	\$12,000
Modules	30 years	N/A	0	\$300/yr

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17. Please explain or describe the impact of other state or local programs that provide renewable generation to emergency shelters or other facilities that may offset, reduce the cost, or be an source of funding for photovoltaic systems for schools designated as an emergency alternate shelter.

ANSWER:

The Florida Solar Energy Center (FSEC) received a \$10 million economic stimulus grant to fund the new SunSmart Emergency Shelter (E-Shelter) Program. Under this program, ninety schools designated as emergency shelters across the state of Florida are expected to receive solar electric systems with battery backup. These systems will provide power to critical loads in each shelter in the event of a power outage and will serve as an educational tool for teachers to use in their energy curriculum. Gulf Power's proposed Solar for Schools Program would supplement the reach of this program by funding PV installations in additional schools within Gulf Power's service area that would otherwise not be able to participate in the program due to limited program funding. FSEC's E-Shelter Program is the only program that Gulf is currently aware of that is expected to provide renewable generation to emergency shelters in the state of Florida.

Staff's First Data Request Docket No. 100154 Gulf Power Company June 3, 2010 Item No. 18 Page 1 of 5

18. For each program for which modifications have been proposed in 2010, please describe the specific modification(s) made to the program and the reason for each modification. As part of this response, please provide the savings estimates associated with the program prior to the proposed modifications.

ANSWER:

The Residential Energy Audit Program has been re-named Residential Energy Audit and Education Program and modified to add the following components:

- 1. Home Energy Reporting
- 2. School-based Awareness and Education
- 3. Community Awareness and Education
- 4. Technical Training

The Home Energy Reporting component is a behavior modification measure that is based on increasing a customer's awareness about their energy use and ways to save money and energy. This is similar to how an energy audit might result in customer behavioral changes and, therefore, is included as part of the Energy Audit and Education Program. Specific program savings are based on projections of actual savings experienced by other utilities and are included as part of Gulf's plan for years 2011-2013.

The School-based and Community Awareness and Education components and the Technical Training component are aspects of Gulf's Energy Education Program Pilot approved by the Commission in Order No. PSC-08-0802-PAA-EG in December 2008. These educational initiatives are being combined into the audit program as complementary educational initiatives related to increasing customers' awareness of their energy usage and ways to save money and energy.

The Energy Select Program participation projections have been decreased from projections made in the 2005 DSM Plan. This reduction is intended to reflect Gulf's actual program experience since 2005.

The Residential Geothermal Heat Pump Program has been incorporated as the Retirement Tier 3 and Upgrade Tier 3 component of the HVAC Efficiency Program. The maximum rebate for each of these measures is also increased from \$400/ton to \$500/ton. These modifications facilitate a more seamless delivery of HVAC efficiency options in the program. In addition, the total program savings projections are revised to reflect changes in participation and per-installation savings.

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The Commercial Geothermal Heat Pump Program has been modified to increase the incentive from \$400/ton to \$500/ton and to eliminate the maximum tonnage limit for incentive qualification. This modification is being made to increase the availability and certainty of an incentive to prospective commercial customers considering geothermal heating and cooling equipment in new and existing construction. In addition, the total program savings projections are revised to reflect changes in participation and perinstallation savings.

The Energy Services Program is being renamed the Commercial/Industrial Custom Incentive Program. This program is renamed in order to eliminate confusion with Gulf Power's Energy Services business unit which provides project management services to large commercial and industrial customers.

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		Ge	oodCents Select Pro	gram		en e
经 证明 排出			At the Meter			
	Per	Per	Per	Total	Total	Total
l	Customer	Customer	Customer	Annual	Annual	Annual
	kWh	Winter kW	Summer kW	kWh	Winter kW	Summer kW
<u>Year</u>	Reduction	Reduction	<u>Reduction</u>	<u>Reduction</u>	Reduction	Reduction
2005	762	2.20	1.73	2,286,000	6,600	5,190
2006	762	2.20	1.73	2,286,000	6,600	5,190
2007	762	2.20	1.73	2,286,000	6,600	5,190
2008	762	2.20	1.73	2,286,000	6,600	5,190
2009	762	2,20	1.73	2,286,000	6,600	5,190
2010	762	2.20	1.73	2,286,000	6,600	5,190
2011	762	2.20	1.73	2,286,000	6,600	5,190
2012	762	2.20	1.73	2,286,000	6,600	5,190
2013	762	2.20	1.73	2,286,000	6,600	5,190
2014	762	2.20	1.73	2,286,000	6,600	5,190
			At the Generator			
	Per	Per	Per	Total	Total	Total
	Customer	Customer	Customer	Annual	Annual	Annual
	kWh	Winter kW	Summer kW	kWh	Winter kW	Summer kW
<u>Year</u>	Reduction	Reduction	Reduction	Reduction	Reduction	Reduction
2005	831	2.89	2.27	2,491,740	8,668	6,816
2006	831	2.89	2.27	2,491,740	8,668	6,816
2007	831	2.89	2.27	2,491,740	8,668	6,816
2008	831	2.89	2.27	2,491,740	8,668	6,816
2009	831	2.89	2.27	2,491,740	8,668	6,816
2010	831	2.89	2.27	2,491,740	8,668	6,816
2011	831	2.89	2.27	2,491,740	8,668	6,816
2012	831	2.89	2.27	2,491,740	8,668	6,816
2013	831	2.89	2.27	2,491,740	8,668	6,816
2014	831	2.89	2.27	2,491,740	8,668	6,816
		Custo	mers and Participati	on Rates	i Guinne Grange	
		Total	Annual	Cumulative	Cum	ulative
	Total	Number of	Number of	Penetration	Num	ber of
	Number of	Eligible	Program	Level	Pro	gram
<u>Year</u>	Customers	Customers	<u>Participants</u>	<u>%</u>	<u>Partic</u>	cipants
2005	351,803	349,866	3,000	0.9%	3,	000
2006	357,806	355,829	3,000	1.7%	6,	000
2007	364,154	362,137	3,000	2.5%	9,	000
2008	371,344	369,287	3,000	3.2%	12	,000
2009	379,588	377,489	3,000	4.0%	15.	,000
2010	388,245	386,104	3,000	4.7%	18.	,000
2011	396,743	394,558	3,000	5.3%	21.	.000
2012	405,204	402,974	3,000	6.0%	24.	,000
2013	414,998	412,723	3,000	6.5%	27,	,000
2014	425,904	423,583	3,000	7.1%	30.	,000

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		Kesidential	Geothermal Heat P	ump Program		
	有可能的特殊证据		At the Meter		植物色的岩色的	
	Per	Per	Per	Total	Total	Total
	Customer	Customer	Customer	Annual	Annual	Annual
	kWh	Winter kW	Summer kW	kWh	Winter kW	Summer kV
<u>Year</u>	Reduction	Reduction	Reduction	<u>Reduction</u>	Reduction	Reduction
2005	1,107	0.77	1.04	332,100	231	312
2006	1,107	0.77	1.04	332,100	231	312
2007	647	-0.60	0.99	194,100	-180	297
2008	647	-0.60	0.99	194,100	-180	297
2009	647	-0.60	0.99	194,100	-180	297
2010	647	-0.60	0.99	129,400	-120	198
2011	647	-0.60	0.99	129,400	-120	198
2012	647	-0.60	0.99	129,400	-120	198
2013	647	-0.60	0.99	129,400	-120	198
2014	647	-0.60	0.99	129,400	-120	198
			At the Generator			
	Per	Per	Per	Total	Total	Total
	Customer	Customer	Customer	Annual	Annual	Annual
	kWh	Winter kW	Summer kW	kWh	Winter kW	Summer kV
Year	Reduction	Reduction	Reduction	Reduction	Reduction	Reduction
2005	1,207	1.01	1.37	361,989	303	410
2006	1,207	1.01	1,37	361,989	303	410
2007	705	-0.79	1.30	211,569	-236	390
2008	705	-0.79	1.30	211,569	-236	390
2009	705	-0.79	1.30	211,569	-236	390
2010	705	-0.79	1.30	141,046	-158	260
2011	705	-0.79	1.30	141,046	-158	260
2012	705	-0.79	1.30	141,046	-158	260
2013	705	-0.79	1.30	141,046	***	260
2014	705	-0.79	1.30	Annual Control of the	-158	record of the control of the second
2014	703	I TO BE A PROCESSION OF THE PARTY OF THE PAR	mers and Participati	141,046	-158	260
		Total	Annual	Cumulative	C	-1-4:
	Total	Number of	Number of	Penetration	Cumulative Number of Program	
	Number of	Eligible	Program	Level		
Year	Customers	Customers	graduation in Transcription and			
2005	351,803	349,866	Participants 300	<u>%</u>	Participants 300	
2006	357,805	355,829	the second of the second of the second	0.1%		
2007	364,154	362,137	300	0.2%	600	
2007	371,344	erener in the first time in the contract of th	300	0.2%	900	
	control of the state of the sta	369,287	300	0.3%	1,200	
2009	379,588	377,489	300	0.4%	1,500	
2010	388,245	386,104	200	0.4%	1,700	
2011	396,743	394,558	200	0.5%	1,900	
2012	405,204	402,974	200	0.5%	2,100	
2013	414,998	412,723	200	0.6%	2,300	
2014	425,904	423,583	200	0.6%	2,500	

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		Commercia	l Geothermal Heat l				
autero de			At the Meter	nacomba sa		用真相告接着	
	Per	Per	Per	Total	Total	Total	
	Customer	Customer	Customer	Annual	Annual	Annual	
	kWh	Winter kW	Summer kW	kWh	Winter kW	Summer kW	
<u>Year</u>	Reduction	Reduction	Reduction	Reduction	Reduction	Reduction	
2005	14,167	8.52	6.59	70,835	43	33	
2006	14,167	8.52	6.59	141,670	85	66	
2007	769	1.69	4.77	11,535	25	72	
2008	769	1.69	4.77	15,380	34	95	
2009	769	1.69	4.77	15,380	34	95	
2010	769	1.69	4.77	15,380	34	95	
2011	769	1.69	4.77	15,380	34	95	
2012	769	1.69	4.77	15,380	34	95	
2013	769	1.69	4.77	15,380	34	95	
2014	769	1.69	4.77	15,380	34	95	
			At the Generator				
	Per	Per	Per	Total	Total	Total	
	Customer	Customer	Customer	Annual	Annual	Annual	
	kWh	Winter kW	Summer kW	kWh	Winter kW	Summer kW	
<u>Year</u>	Reduction	Reduction	Reduction	Reduction	Reduction	Reduction	
2005	15,442	11.19	8.65	77,210	56	43	
2006	15,442	11.19	8.65	154,420	112	87	
2007	838	2.22	6.26	12,573	33	94	
2008	838	2.22	6.26	16,764	44	125	
2009	838	2.22	6.26	16,764	44	125	
2010	838	2.22	6.26	16,764	44	125	
2011	838	2.22	6.26	16,764	. 44	125	
2012	838	2.22	6.26	16,764	44	125	
2013	838	2,22	6.26	16,764	44	125	
2014	838	2.22	6.26	16,764	44	125	
	0,70		ners and Participati		44	123	
		Total	Annual	Cumulative	Com	ulative	
	Total	Number of	Number of	Penetration	and the second of the second	111111111111111111111111111111111111111	
	Number of	Eligible	Program	Level		Number of	
Year	Customers	Customers	Participants	%	Program		
2005	53,201	46,070	5	0.0%	Participants		
2006	54,246	46,926	10	0.0%	5		
2007	55,343	47,833	15	0.1%	15		
2008	56,575	48,869	20	0.1%	30		
2009	57,977	50,058	20	0.1%	50		
2010	59,448	51,305	20		70		
2011	60,894	and the second control of the second control	Contract the first of the contract of the cont	0.2%	90		
2012	62,331	52,528	20	0.2%	110		
2012	63,983	53,743	20	0.2%	130		
		55,148	20	0.3%	150		
2014	65,635	56,553	20	0.3%	170		