COMMISSIONERS: NANCY ARGENZIANO, CHAIRMAN LISA POLAK EDGAR NATHAN A. SKOP



OFFICE OF THE GENERAL COUNSEL S. CURTIS KISER GENERAL COUNSEL (850) 413-6199

**JUN 25** 

## Hublic Service Commission

June 25, 2010

STAFF'S SECOND DATA REOUEST

James D. Beasley Ausley & McMullen P.O. Box 391 Tallahassee, FL 32302

Re: Docket No. 100159-EG - Petition of approval of demand-side management plan of Tampa **Electric Company.** 

**Dear Mr. Beasley:** 

By this letter, the Commission staff requests that Tampa Electric Company (TECO or Company) provide responses to the following data requests.

1. Please refer to Staff's First Data Request, No. 14. For each audit program, please provide, for behavioral changes and CFLs separately, 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.

	Audit C	omponent Information	
Audit Program Name	6		
Components	(-)	Behavioral Modification	Compact Fluorescents
	Savings A	ssociated with Measure	
Summer Demand	(MW)		
Winter Demand	(MW)		
Annual Energy	(GWh)		
	Contraction of the second	% of Program	
Summer Demand	(%)		
Winter Demand	(%)		
Annual Energy	(%)		
	% of Com	mission Authorized Goal	
Summer Demand	(%)		
Winter Demand	(%)		
Annual Energy	(%)		

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- 2. Please refer to Staff's First Data Request, No. 7. Please explain or describe the steps in calculating the Residential Rate Impact and Percent of Total ECCR Rate.
- 3. Please refer to Staff's First Data Request, No. 7. Please provide for each audit measure, the estimated cumulative net present value of all expenditures required over the period 2010 through 2019. If available, please provide the values broken down into categories including administrative, marketing, equipment (CFLs, other items provided to customers). As part of this response, please also provide the percentage that each category represents of the total measure expenditures. Please provide an electronic copy in Excel (.xls file format) with the hard copy response.

Audit Informati	on	
Audit Program Name	$(\cdot)$	
Measure Cost (Cumula	tive NP	V)
Total Cost	(\$)	
Administrative	(\$)	
Education, Surveys, Marketing	(\$)	
CFLs, Other Provided Items	(\$)	
Measure Cost (% of P	rogram	l
Total Cost	(%)	
Administrative	(%)	
Education, Surveys, Marketing	(%)	
CFLs, Other Provided Items	(%)	

- 4. Please refer to Staff's First Data Request, No. 7. Please provide for each audit measure, the estimated Lost Revenues associated with the demand and energy savings of the program.
- 5. Please conduct a cost-effectiveness analysis on each audit program, using the E-TRC, E-RIM, and Participants Tests. As part of this response, please include the cumulative net present values of all benefits and costs. Please provide an electronic copy in Excel (.xls file format) with the hard copy response.

Audit	Informati	on
Audit Program Name	(-)	
E-TRC	Test Rest	uls 👘
Total Benefits	(\$)	
Total Costs	(\$)	
Ratio	(-)	
B-Rim	Test Rest	ilts
Total Benefits	(\$)	
Total Costs	(\$)	
Ratio	(-)	
Participa	nts Test R	esults
Total Benefits	(\$)	
Total Costs	(\$)	
Ratio	(-)	

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6. Please refer to TECO's petition, pages 9 through 28 and 124 through 132. Please provide, for each audit program, the estimated cost per audit. As part of this response, please indicate the amount spent on administrative & other costs, separate from the cost of compact fluorescent light bulbs and other items provided to the customer for free. Please provide an electronic copy in Excel (.xls file format) with the hard copy response.

Audit In	formation
Audit Program Name	(-)
Audi	t Costs
Administrative & Other Costs	(\$/Customer)
CFLs, Other Free Items	(\$/Customer)

- 7. Please refer to Staff's First Data Request, No. 14. Please provide the estimated duration of behavioral changes that result from an energy audit. Please provide supporting documentation of these values.
- 8. Please explain or describe how TECO intends to measure and monitor actual savings of its audit programs, as required by Commission Rules. As part of this response, please explain and describe the procedures used to verify savings.
- 9. Please state whether TECO has historically included savings associated with energy audits towards its conservation goals. Please state whether this inclusion of audit savings were approved in the Commission's previous rulings on conservation goals for TECO.
- 10. Please refer to TECO's Petition, pages 315 through 317. Please provide, for the Renewable Energy Systems Initiative Program as a whole, and on an individual measure basis, the cumulative net present value of expenditures required over the period 2010 through 2019. Please provide the values broken down into categories including administrative, marketing, equipment, and incentives. As part of this response, please also provide the percentage that each category represents of the total program and measure expenditures. Please provide an electronic copy in Excel (.xls file format) with the hard copy response.

R	new	able Energy Syst	erns Initiati	¥6		
					Low Income	Total
Measure Name	(-)	Commercial PV	SWH	PV	SWH	Program
		Cost (Cumulativ	re NPV)			
Administrative	(\$)		<u> </u>	L		
Education, Surveys, Marketing	(\$)					
Equipment, Installation, O&M	(\$)					
Incentives / Rebates	(\$)			<u> </u>		
Total Cost	(\$)					<u> </u>
		Cost (% of Pro	gram)			
Administrative	(%)					
Education, Surveys, Marketing	(%)					L
Equipment, Installation, O&M	(%)					
Incentives / Rebates	(%)					

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11. Please refer to TECO's Petition, pages 315 through 317. Please provide, for the Renewable Energy Systems Initiative Program as a whole, and on an individual measure basis, the estimated customer costs for each measure of the Renewable Energy Systems Initiative Program. For each measure, provide the incentive / rebate rate, and its associated units. For example, in \$/Watt or in \$/Participant. Also provide the associated non-recurring and recurring expenses, including administrative, equipment, incentives, and O&M. Please provide an electronic copy in Excel (.xls file format) with the hard copy response.

	Renewab	le Energy Syster	ns Initiative		
		Residential &	Residential	School	Low Income
Measure Name	(-)	Commercial PV	SWH	PV	SWH
	Measu	re Incentives &	Duration		
Incentive / Reb	ate Rate				
Incentive / Reb	ate Unit				
Participant			1	(	
Equipment Cost	(\$)				
	Non-re	curring Measure	e Expenses		
Administrative	(\$/Part)				
Equipment	(\$/Part)				
Incentive / Rebate	(\$/Part)		l .		
A STATE AND A STAT	Recu	rring Measure <b>B</b>	xpenses		
Administrative	(\$/Part/Yr)			L	
Equipment	(\$/Part/Yr)				
0&M	(\$/Part/Yr)		L		

12. Please conduct a cost-effectiveness analysis on the Renewable Energy Systems Initiative, and its component measures, using the E-TRC, E-RIM, and Participants Tests. As part of this response, please include the cumulative net present values of all benefits and costs. Please provide an electronic copy in Excel (.xls file format) with the hard copy response.

		Renewable Ener	rgy Systèms	Initiati	7B	
		Residential &	Residential	School	Low Income	Total
Measure Name	(-)	Commercial PV	SWH	PV	SWH	Program
	en de la Ver	E-TRC	Test Result	<b>S</b>		
Total Benefits	(\$)					
Total Costs	(\$)					
Ratio	(-)			<u> </u>	L	
		E-Rim	Test Result	Ś	teriteria.	
Total Benefits	(\$)					
Total Costs	(\$)					
Ratio	(-)					
		Participa	nts Test Res	ults		
Total Benefits	(\$)					
Total Costs	(\$)					
Ratio	(-)					

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- 13. Please explain or describe why, for the School PV measure, the photovoltaic systems are not intended to be owned by the school from the outset of the measure, similar to the Low Income SWH program. As part of this response, please explain or describe any benefits or disadvantages that TECO's suggested five year ownership period may provide over providing the system initially. For example, does the five year period correspond to any major maintenance requirement?
- 14. Please provide the estimated savings if the total funds allocated to the Renewable Energy System Initiative Program were split equally between the four measures: Residential & Commercial PV, Residential SWH, PV for Schools, and Low Income SWH.
- 15. Please refer to TECO's Petition, pages 331. Please provide, for the Renewable Energy Program as a whole, the cumulative net present value of expenditures required over the period 2010 through 2019. Please provide the values broken down into categories including administrative, marketing, and other. As part of this response, please also provide the percentage that each category represents of the total program expenditures. Please provide an electronic copy in Excel (.xls file format) with the hard copy response.

Renewable Energy	Program
Cost (Cumulativ	ve NPV)
Administrative	(\$)
Education, Surveys, Marketing	(\$)
Other	(\$)
Cost (% of Pro	<b>igram)</b>
Administrative	(%)
Education, Surveys, Marketing	(%)
Other	(%)

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16. Please refer to TECO's Petition, page 314. Please provide, for the Industrial Load Management Program, the cumulative net present value of expenditures required over the period 2010 through 2019. Please provide the values broken down into categories including administrative, marketing, equipment, and incentives. As part of this response, please also provide the percentage that each category represents of the total program and measure expenditures. Please provide an electronic copy in Excel (.xls file format) with the hard copy response.

Industrial Load Man	agement						
Program Cost (Cumulative NPV)							
Administrative	(\$)						
Education, Surveys, Marketing	(\$)						
Equipment, Installation, O&M	(\$)						
Incentives / Rebates							
Total Cost	(\$)						
Program Cost (% of I	Program)						
Administrative	(%)						
Education, Surveys, Marketing	(%)						
Equipment, Installation, O&M	(%)						
Incentives / Rebates	(%)						

17. Please refer to page 314 of TECO's Petition. Please provide, for the Industrial Load Management Program, the estimated incentive, non-recurring (first time), and recurring costs for the Program. Please provide an electronic copy in Excel (.xls file format) with the hard copy response.

Industrial Load.	Management
Measure Incentiv	es & Duration
Incentive / Rebate Rate	(\$/kW)
Non-recurring Me	asure Expenses
Administrative	(\$/Part)
Equipment	(\$/Part)
Recurring Meas	ure Expenses
Administrative	(\$/Part/Yr)
Equipment	(\$/Part/Yr)
0&M	(\$/Part/Yr)
Incentive / Rebate (Typical)	(\$/Part/Yr)

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18. Please conduct a cost-effectiveness analysis on the Industrial Load Management, and its component measures, using the E-TRC, E-RIM, and Participants Tests. As part of this response, please include the cumulative net present values of all benefits and costs. Please provide an electronic copy in Excel (.xls file format) with the hard copy response.

Industrial Load Management							
E-TRC	E-TRC Test Results						
Total Benefits	(\$)						
Total Costs	(\$)						
Ratio	(-)						
E-Rim	Test Results						
Total Benefits	(\$)						
Total Costs	(\$)						
Ratio	(-)	-					
Participa	nts Test Result	S					
Total Benefits	(\$)						
Total Costs	(\$)						
Ratio	(-)						

- 19. Please explain or describe whether the methodology established by Order No. PSC-99-1778-FOF-EI, requires usage of the RIM Test, or the E-RIM Test. Please provide the approximate values of the rebate of with a cost effectiveness ratio of 1.2 for each of these tests, and the E-TRC Test.
- 20. Please explain or describe the continued justification for a cost-effectiveness ratio of 1.2 for the Industrial Load Management Program. Please explain or describe any and all analyses conducted that support the 1.2 ratio, compared to higher or lower (to 1.0) ratios for the cost-effectiveness tests.

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21. Please provide, on an individual program basis, the Lost Revenues resulting from the projected savings for the period 2010 through 2019, by year. Please provide an electronic copy in Excel (.xls file format) with the hard copy response.

	Lost Revenues By Year									
Program Name	2010	2011	2012			2015		2017	2018	2019
Walk-Through Audit						·				
Customer Assisted Audit	1									
Computer-Assisted Audit										
Phone Assisted Audit	1						·			
Heating & Cooling										
Electronically Commutated Motors	1									
HVAC Re-commissioning							-			
Duct Repair										
Building Envelope										
New Construction										
Neighborhood Weatherization & Agency Outreach	1									
Education Outreach										
Energy Planner										
Sum of All Residential Programs								<b>.</b>		
Free Audit	<u>-</u>									
Paid Audit										 
Duct Repair										
Building Envelope						• • • • • • • • • • • • • • • • • • • •				
Energy Efficient Motors .										
Cooling										
Chiller										
Lighting										
Lighting Occupancy Sensors										
Water Heating										
Conservation Value										
Commercial Load Management										
Demand Response										
Standby Generator					·					
HVAC Re-commissioning										
Electronically Commutated Motors					-					
Cool Roof						·				
Energy Recovery Ventilation	····									
Refigeration (Anti-Condensate)										
Cogeneration										
Industrial Load Management										
Research and Development										
Renewable Energy Systems Initiative										
Renewable Energy Program										
Sum of All Programs										

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22. Please provide, on an individual program basis, the estimated ECCR expenditures required for the period 2010 through 2019, by year. Please provide an electronic copy in Excel (.xls file format) with the hard copy response.

Program Name	ECCR Expenditures (\$000)										
	2010	2011							2018	2019	
Walk-Through Audit											
Customer Assisted Audit											
Computer-Assisted Audit											
Phone Assisted Audit											
Heating & Cooling											
Electronically Commutated Motors											
HVAC Re-commissioning			ļ								
Duct Repair											
Building Envelope	1										
New Construction											
Neighborhood Weatherization & Agency Outreach											
Education Outreach											
Energy Planner											
Sum of All Residential Programs											
Free Audit											
Paid Audit	1				[						
Duct Repair											
Building Envelope			1								
Energy Efficient Motors	1										
Cooling											
Chiller											
Lighting											
Lighting Occupancy Sensors											
Water Heating											
Conservation Value											
Commercial Load Management											
Demand Response											
Standby Generator											
HVAC Re-commissioning											
Electronically Commutated Motors											
Cool Roof											
Energy Recovery Ventilation											
Refigeration (Anti-Condensate)											
Cogeneration											
Industrial Load Management											
Research and Development											
Renewable Energy Systems Initiative											
Renewable Energy Program											
Sum of All Programs											

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23. Please provide, on an individual program basis, the estimated residential rate impact required for the period 2010 through 2019, by year. Please provide an electronic copy in Excel (.xls file format) with the hard copy response.

Program Name	Residential Rate Impact (\$/mo)									
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Walk-Through Audit										
Customer Assisted Audit										
Computer-Assisted Audit										
Phone Assisted Audit	1						·····			
Heating & Cooling										
Electronically Commutated Motors	<u> </u>	[								
HVAC Re-commissioning	ţ									
Duct Repair	1									
Building Envelope										
New Construction			t							
Neighborhood Weatherization & Agency Outreach	1					ļ				
Education Outreach										
Energy Planner										
Sum of All Residential Programs									· · · -	
Free Audit		<u> </u>	<u> </u>	-						
Paid Audit	1								1	
Duct Repair	-									
Building Envelope	-								· · ·	
Energy Efficient Motors										
Cooling	-								, , , , , , , , , , , , , , , , , , ,	
Chiller										
Lighting				<u> </u>						
Lighting Occupancy Sensors	-									
Water Heating										
Conservation Value										
Commercial Load Management										
Demand Response										
Standby Generator										
HVAC Re-commissioning		[		_						
Electronically Commutated Motors										
Cool Roof										
Energy Recovery Ventilation				_						
Refigeration (Anti-Condensate)										
Cogeneration										
Industrial Load Management										
Research and Development										
Renewable Energy Systems Initiative										
Renewable Energy Program										
Sum of All Programs				-						

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Please file the original and five copies of the requested information by July 15, 2010, with Ms. Ann Cole, Commission Clerk, Office of Commission Clerk, 2540 Shumard Oak Boulevard, Tallahassee, Florida, 32399-0850. Please feel free to call me at (850) 413-6218 if you have any questions.

Sincerely,

the

Katherine E. Fleming Senior Attorney Office of the General Counsel

KEF/sh

cc: Office of Commission Clerk Paula Brown Vicki Kaufman/Jon Moyle John McWhirter George Cavros Suzanne Brownless Rick D. Chamberlain

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