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Public Service Commission

April 6, 2015

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P.O. Box 391
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STAFF'S FIRST DATA REQUEST

RE: Docket No. 150081-EG- Petition for 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) provide responses to the following data requests.

1. Please provide the estimated costs of each program's incentives, administrative & equipment costs, and total costs for the ten-year goals period (nominal and net present value). Also, please provide the percentage of total costs that are used for incentives by program. As part of this response, please provide an electronic version of the table below in Excel format with your response.

Program Costs (Nominal)				
Program Name	Incentives	Administrative & Equipment	Total	Percent Incentives
[Residential]				
Residential Subtotal				
[Comm/Industrial]				
Comm/Ind. Subtotal				
Common Expenses				
Total				

3. For each program that includes "Outside Services" costs in Data Request No. 2 above, please detail what those "Outside Services" costs include.

4. For each program that includes "Other" costs in Data Request No. 2 above, please detail what those "Other" costs include.

5. Please provide the estimated costs of each program's incentive costs, costs for the ten-year goals period (nominal and net present value), broken into the categories detailed in the table below. As part of this response, please provide an electronic version of the table below in Excel format with your response.

Program Incentives (Nominal)			
Program Name	Incentives (Non-Recurring)	Incentives (Recurring)	Total
[Residential]			
Residential Subtotal			
[Comm/Industrial]			
Comm/Ind. Subtotal			
Common Expenses			
Total			

Program Incentives (NPV)			
Program Name	Incentives (Non-Recurring)	Incentives (Recurring)	Total
[Residential]			
Residential Subtotal			
[Comm/Industrial]			
Comm/Ind. Subtotal			
Common Expenses			
Total			

6. Please provide for each program with demand and energy savings the net present value of the benefits and costs described in the Rate Impact Measure Test and detailed in the table below. As part of this response, please provide an electronic version of the table below in Excel format with your response.

Program Name	Benefits					Costs					Net Benefit
	Gen	T&D	Fuel	Other	Total	Utility	Incentives	Lost Revenues	Other	Total	
[Residential]											
Residential Subtotal											
[Comm/Industrial]											
Comm/Ind. Subtotal											
Total											

7. Please provide for each program with demand and energy savings the net present value of the benefits and costs described in the Total Resource Cost (TRC) Test and detailed in the table below. As part of this response, please provide an electronic version of the table below in Excel format with your response.

Program Name	Benefits					Costs				Net Benefit
	Gen	T&D	Fuel	Other	Total	Utility	Participant	Other	Total	
[Residential]										
Residential Subtotal										
[Comm/Industrial]										
Comm/Ind. Subtotal										
Total										

8. Please provide for each program with demand and energy savings the net present value of the benefits and costs described in the Participants Test and detailed in the table below.

As part of this response, please provide an electronic version of the table below in Excel format with your response.

Program Name	Benefits					Costs				Net Benefit
	Bill Savings	Tax Credits	Incentive	Other	Total	Equipment	O&M	Other	Total	
[Residential]										
Residential Subtotal										
[Comm/Industrial]										
Comm/Ind. Subtotal										
Total										

9. Please provide the actual and projected Energy Conservation Cost Recovery (ECCR) annual funds in nominal dollars for the period 2010 through 2024.

Year	ECCR Expenditures
2010	
2011	
2012	
2013	
2014	
2015	
2016	
2017	
2018	
2019	
2020	
2021	
2022	
2023	
2024	

10. Please provide the actual and projected monthly customer bill associated with the ECCR for a residential and commercial/industrial customer with the usage described in the table below, in nominal dollars. Please also provide the actual and projected total monthly customer bill. As part of this response, please provide an electronic version of the table below in Excel format with your response.

Year	Residential Customer 1,200 kWh/mo		Commercial/Industrial Customer 400,000 kWh/mo & 1,000 kW Peak	
	ECCR Portion (\$)	Total Bill (\$)	ECCR Portion (\$)	Total Bill (\$)
2010				
2011				
2012				
2013				
2014				
2015				
2016				
2017				
2018				
2019				
2020				
2021				
2022				
2023				
2024				

11. For TECO's audit programs, please provide a list of measures used to determine energy and demand savings. Please identify each measure and specify whether the measure is equipment provided by the Company and installed by the auditor, equipment provided by the Company but installed by the home or business owner, or a behavioral measure savings. As part of this response, please complete the table below for each measure and please provide an electronic version of the table below in Excel format with your response.

[Measure Name]						
Year	Audit Measure Savings (Savings @ Generator)					
	Per Customer			Total Annual		
	kWh Reduction	Winter kW Reduction	Summer kW Reduction	kWh Reduction	Winter kW Reduction	Summer kW Reduction
2015						
2016						
2017						
2018						
2019						
2020						
2021						
2022						
2023						
2024						

12. If TECO's audit programs include behavioral savings, please describe the empirical basis for asserting such savings (i.e. double blind experiments, transfer of findings from other utilities, engineering guesses) and how the savings are monitored and verified.
13. Do any of the programs in TECO's DSM Plan include savings associated with Compact Fluorescent Lightbulbs? If so, what baseline is used?

14. Please identify each program in TECO's DSM Plan that include measures with an estimated 2-year or less payback period, and which measures are included by each program.
15. For each program that includes measures with an estimated 2-year or less payback period, please provide the amount of savings (kWh, Win kW, and Sum kW) associated with these measures for each program and for the entire DSM Plan. As part of this response, please provide an electronic version of the table below in Excel format with your response.

[Program Name or DSM Plan Combined]						
Year	Program Savings from 2-Year Payback Measures (Savings @ Generator)					
	Per Customer			Total Annual		
	kWh Reduction	Winter kW Reduction	Summer kW Reduction	kWh Reduction	Winter kW Reduction	Summer kW Reduction
2015						
2016						
2017						
2018						
2019						
2020						
2021						
2022						
2023						
2024						

16. Please describe how TECO's avoided generator, transmission and distribution costs were developed. In the description, please discuss the resources relied upon.

17. Please describe the avoided unit used in TECO's cost-effectiveness evaluations of the programs in its DSM Plan. Is the avoided unit the same as the one TECO used in the goal-setting docket? If not, please explain why, and the differences in avoided costs resulting from the change.

18. Please discuss whether any measure's demand and energy savings used in TECO's cost-effectiveness evaluations of the programs in its DSM Plan differed from the one used in the goal-setting docket. If so, please explain why and the differences in demand and energy savings resulting from the change.

19. Please provide the annual avoided cost savings associated with each of the following four scenarios for a measure that reduces energy or demand by: 1,000 kWh, 1 kW Summer Demand, 1 kW Winter Demand, or 1 kW Summer and Winter Demand. Please provide the savings through the longest time period used to evaluate the programs in your DSM Plan.

22. For each demand response program, use the table below to provide the information listed on an annual basis for seasonal peak activations. Please also provide a summary of all demand response programs using the chart below. As part of this response, please provide an electronic version of the table below in Excel format with your response.

[All Demand Response Programs Combined or By Demand Response Program Name]							
Year	Average Number of Participants	Summer Peak			Winter Peak		
		Activated During Peak?	# of Participants Activated	Capacity Activated	Activated During Peak?	# of Participants Activated	Capacity Activated
		(Y/N)	(MW)	(MW)	(Y/N)	(MW)	(MW)
2005							
2006							
2007							
2008							
2009							
2010							
2011							
2012							
2013							
2014							

23. For each demand response program, please describe whether the current credit is based upon TECO's most recent avoided unit. If not, please explain why, and provide how the credit was derived.

24. For each demand response program, please provide the credit amount that would reduce the value of the program's RIM Test to 1.0.

25. For each demand response program, please discuss whether TECO considered reducing the credit provided to customers. As part of this response, please discuss the impacts a lower credit would have on existing participation levels.

26. Please discuss the methodology used to estimate expected participation for each program proposed by TECO.

27. Please compare the projected participation rates of continuing programs with the actual participation rates for the previous 10 years (or less, depending upon the start date of the program).

28. For all existing DSM programs that are being continued, please complete the chart below.
 - a. For any existing program that TECO is projecting lesser participation than has been previously realized, please explain the reason for the decrease in the projection.
 - b. For any existing program that TECO is projecting greater participation than has been previously realized, please explain the reason for the increase in the projection.

[Program Name]		
Year	Actual Annual Number of Program Participants	Projected Annual Number of Program Participants (Docket No. 150081)
2008		
2009		
2010		
2011		
2012		
2013		
2014		
2015		
2016		
2017		
2018		
2019		
2020		
2021		
2022		
2023		
2024		

29. Please describe how TECO determined the rebate amounts provided in its DSM Plan.

30. For each rebate listed on the table below, please discuss both the reason for the rebate revision, as well as the methodology used to revise and calculate each rebate.

Title of Rebate	Rebate Revisions	
	Reason(s)	Methodology
Residential Ceiling Insulation		
Residential Duct Repair		
Residential Electronically Commutated Motors		
Residential Heating and Cooling		
Residential Wall Insulation		
Residential Window Replacement		
Commercial Ceiling Insulation		
Commercial Chiller		
Conservation Value		
Cool Roof		
Commercial Cooling-Direct Expansion ("DX:)		
Commercial Duct Repair		
Commercially Electronically Commutated Motors ("ECM")		
Lighting Conditioned Space		
Lighting Non-Conditioned Space		
Lighting Occupancy Sensors		
Refrigeration Anti-Condensate Control		
Commercial Wall Insulation		
Commercial Water Heating		

31. Please describe how TECO selected its new programs to implement.

32. Please refer to page 3 of TECO's DSM Plan, where TECO its plan to discontinue the residential Heating, Ventilating, and Air Conditioning (HVAC) Re-commissioning program. TECO stated that the program is not cost-effective based on the RIM and TRC tests. The stated main driver for this decision is a shortened useful life of the program, compared to the prior goal setting period.
- a. What were the additional drivers, if any, that caused this program to fail the RIM and TRC tests in the instant proceeding as compared to the prior goal-setting period?
 - b. What was the assumed useful life of the measure or program during the prior goal-setting period?
 - c. Please explain why TECO believes that the useful life of the measure or program has been shortened, and provide the documents relied on by TECO in response to this question.
 - d. What is the minimum number of years of useful life that would have been necessary for the program to be cost-effective?
33. Please refer to page 3 of TECO's DSM Plan, where TECO discusses its plan to discontinue the Residential Window Film program. TECO stated that the program is not cost-effective based on the RIM and TRC tests. The stated main drivers are a shortened useful life, as well as reductions in both demand and energy savings, when compared to the prior goal-setting period.
- a. Please indicate whether TECO is referring to a shortened useful life of the actual residential window film product itself, or referring to a shortened useful life of the entire program.

- b. If TECO is referring to a shortened useful life of the window film product itself, please:
 - Explain why TECO believes that the useful life of the window film product has been shortened;
 - Provide the document(s) relied on by TECO in response to this question; and
 - Provide the estimated useful life of the window film product that was used in both the instant docket and the prior goal-setting docket.
 - c. If TECO is referring to a shortened useful life of the entire program, please:
 - Explain why TECO believes that the useful life of the program has been shortened, and
 - Provide the document(s) relied on by TECO in response to this question.
 - d. What additional drivers, if any, caused this program to fail the RIM and TRC tests in the instant proceeding as compared to the prior goal-setting period?
 - e. What is the minimum number of years of useful life that would have been necessary for the program to be cost-effective?
34. Please refer to page 3 of TECO's DSM Plan, where TECO discusses its plan to discontinue the Commercial HVAC Re-commissioning program. TECO stated that the program is not cost-effective based on the RIM test. The stated reasons for failing the RIM test are a reduction in demand savings of 49 percent and a shortened useful life of 6 years as compared to the prior goal-setting period.
- a. What are the reasons for a reduction of demand savings of 49 percent?
 - b. What was the useful life of the measure or program during the prior goal-setting period?
 - c. Please explain why TECO believes that the useful life of the program has been shortened, and provide the documents relied on by TECO in response to this question.
 - d. What is the minimum number of years of useful life that would have been necessary for the program to be cost-effective?

35. Please refer to pages 3 and 4 of TECO's DSM Plan, where TECO discusses its plan to discontinue the Commercial Window Film program. The reasons stated for TECO's decision are: that the program is not a cost-effective offering based on the RIM and TRC tests, a shortened useful life of ten years, and a 136 percent increase in incremental installation costs as compared to the prior goal-setting period.
- a. What was the useful life of the measure or program during the prior goal-setting period?
 - b. Is TECO referring to a shortened useful life of the actual commercial window film product itself, or the commercial window film program?
 - c. If TECO is referring to a shortened useful life of the window film product itself, please:
 - Explain why TECO believes that the useful life of the window film product has been shortened;
 - Provide the document(s) relied on by TECO in response to this question; and
 - Provide the estimated useful life of the window film product that was used in both the instant docket and the prior goal-setting docket.
 - d. If TECO is referring to a shortened useful life of the entire program, please:
 - Explain why TECO believes that the useful life of the program has been shortened, and
 - Provide the document(s) relied on by TECO in response to this question.
 - e. What is the minimum number of years of useful life that would have been necessary for the program to be cost-effective?
 - f. Please list the reasons why the incremental installation costs for commercial facilities increased 136 percent as compared to the prior goal-setting period.
 - g. Did TECO consider the possibility of any cost saving methods that might have offset some or all of the incremental increases in the installation costs for this program?
 - h. If the response to (g) is affirmative, please explain.

36. Please refer to page 7 of TECO's DSM Plan, where TECO discusses its Standby Generator, Cogeneration, Renewable Energy and Renewable Energy Systems Initiative. TECO stated that there were no modifications necessary to these programs. Please discuss the reason(s) why no modifications were necessary to these programs.

37. On page 8 of TECO's DSM Plan it states that TECO has conducted Research & Development (R&D) projects on conservation and demand response technologies in the past which have led to the successful launch of DSM programs. Please list the successful DSM programs referenced in this statement.

38. Please refer to page 8 of TECO's DSM Plan, where TECO discusses its Conservation R&D Program.
 - a. What R&D projects is TECO currently working on?
 - b. Does the \$200,000 annual R&D figure provided represent an anticipated annual cap to be spent on R&D programs?
 - c. If the response to (c) is negative, what is the significance of the \$200,000 figure?
 - d. Please provide the amount spent on R&D programs for each of the past 5 years (2010 – 2014).

39. Please provide the following information regarding TECO's current and proposed

Conservation R&D program:

- a. Please describe the technologies TECO plans to research over the next 5 years, and explain the reason(s) TECO believes each technology should be researched. Please be as specific as possible with regards to each program's estimated potential annual reductions in both demand and energy.
- b. Please provide any information/documentation regarding any planned areas of research under the proposed program.
- c. Please provide any information/documentation regarding how TECO plans to implement any proposed or future projects.

40. What projects are currently being evaluated under TECO's Conservation R&D program?

As part of your response, please complete the table below providing the following information: name and description of the project, initial startup date of the project, and year-to-date dollars spent on each project. Additionally, please provide whether or not TECO believes said project(s) could result in a potential conservation program. If TECO perceives a program(s) is imminent, please provide expected startup date.

Conservation Research and Development			
Project Name	Description	Implementation Date	Expenditures

41. What current programs has TECO offered to its customers as a result of the Conservation R&D program? In addition to the name of the program, please provide the description, startup date and year-to-date expenditures for each program.
42. Please provide the amount spent on Conservation R&D programs for each of the past 5 years. Please provide the corresponding project name, implementation date, and dollar amount for each project.
43. Please complete the table below to illustrate TECO's expected projects in Conservation R&D. As part of this response, please provide an electronic version of the table below in Excel format with your response.

Conservation Research and Development – Project Name			
Year	Project Name	Description	Expected Expenditures
2015			
2016			
2017			
2018			
2019			
2020			
2021			
2022			
2023			
2024			

Please file the original and five (5) copies of the requested information by **Monday, April 27, 2015**, with Carlotta Stauffer, Commission Clerk, Office of Commission Clerk, 2540 Shumard Oak Boulevard, Tallahassee, Florida, 32399-0850. Should you have any questions, please do not hesitate to contact me at (850) 413-6234.

Sincerely,

s/ Kelley F. Corbari
Kelley F. Corbari,
Senior Attorney

KFC/dml
cc: Office of Commission Clerk