

# AUSLEY & McMULLEN

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April 24, 2020

**VIA: ELECTRONIC FILING**

Mr. Adam J. Teitzman  
Commission Clerk  
Florida Public Service Commission  
2540 Shumard Oak Boulevard  
Tallahassee, FL 32399-0850

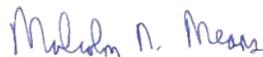
Re: Petition for Approval of Demand Side Management Plan for Tampa Electric Company; Docket Number 20200053-EG

Dear Mr. Teitzman:

Attached for filing in the above docket are Tampa Electric Company's responses to Staff's Third Data Request (Nos. 1-10) as requested on April 16, 2020.

Thank you for your assistance in connection with this matter.

Sincerely,



Malcolm N. Means

MNM/bmp  
Attachment

cc: Takira Thompson, Engineering Specialist  
Ashley Weisenfeld, Office of General Counsel

**TAMPA ELECTRIC COMPANY  
DOCKET NO. 2020053-EG  
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1. For each of the Company's existing Commission-approved demand-side management programs (Existing Programs), please identify the cost-effectiveness test results (Participants Test (PCT), Rate Impact Measure Test, and Total Resource Cost Test) using current financial assumptions.
  - a. As part of this response, please provide a table comparing the results requested above with the cost-effectiveness test results for the Company's proposed modified programs in its petition (Proposed Programs).
  
- A. Tampa Electric updates all of the cost-effectiveness inputs on June 1<sup>st</sup> of each year in preparation for the performance of the Discovery Request that typically follows the company's submittal of the true-up filing for the prior year requesting cost-effectiveness to be updated on all of the company's Commission's approved DSM programs. Because of this process on June 1<sup>st</sup>, the company does not have all of the updated inputs for 2020. The company is including in this request the cost-effectiveness evaluation scores that were performed and filed with the Commission on July 29, 2019. It is important to recognize that this comparison is being asked to be done on two load forecasts that are quite different in the process to develop them. For annual cost-effectiveness runs, the load forecast which assists in the development of the next avoided unit and many of the inputs to be used assumes that Demand Side Management ("DSM") activities are continuing each year. The load forecast used for DSM Goals development and subsequent development of the DSM Plan assumes that all DSM activity stops at the beginning of the DSM Goals setting period (December 31, 2019 in this DSM Goals Setting Process). The cost-effectiveness comparison showing the cost-effectiveness test results: Participants Cost Test ("PCT"), Rate Impact Measure Test ("RIM"), and Total Resource Cost (TRC) Test for the company's existing Commission approved DSM Portfolio using the most recent financial assumptions as explained above is contained in Response No. 1a below.
  - a. The tables below compare the results requested above with the cost-effectiveness test results for the company's proposed modified programs in its petition (Proposed Programs) and the company's existing Commission approved DSM Portfolio:

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<b>Tampa Electric's Residential Portfolio Cost Effectiveness 2015-2024 DSM Portfolio versus proposed 2020-2029 DSM Portfolio</b>							
<b>Existing Residential DSM Programs</b>	<b>RIM Value</b>	<b>PCT Value</b>	<b>TRC Value</b>	<b>2020-2029 DSM Proposed Residential</b>	<b>RIM Value</b>	<b>PCT Value</b>	<b>TRC Value</b>
Ceiling Insulation	0.80	2,789	1.04	Ceiling Insulation	1.02	1,285	1.01
Residential Duct Repair	0.78	373	1.07	Residential Duct Repair	1.02	1,120	1.95
Electronically Commutated Motors (ECM)	0.74	3	0.58				
Energy Education, Awareness and Agency Outreach	0.59	624	9.83	Energy and Renewable Education, Awareness and Agency Outreach	0.73	660	4.03
ENERGY STAR for Multi-Family Residences	0.82	1,545	0.80	ENERGY STAR for Multi-Family Residences	1.01	1,152	1.12
ENERGY STAR for New Homes	0.70	1,403	0.84	ENERGY STAR for New Homes	1.09	5,677	1.10
				ENERGY STAR Pool Pumps	1.04	3,145	1.51
				ENERGY STAR Thermostats	1.11	241	1.31
Heating and Cooling	0.92	628	1.16	Heating and Cooling	1.01	-318	0.53
Neighborhood Weatherization	0.59	34,394	6.19	Neighborhood Weatherization	0.68	27,881	1.56
Energy Planner	3.28	1,299	4.03	Energy Planner	1.98	3,997	3.52
				Prime Time Plus	1.05	1,443	2.69
Wall Insulation	0.78	20	0.89				
Window replacement	0.79	1,881	1.35	Window replacement	1.02	188	0.93

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<b>Tampa Electric's Commercial Portfolio Cost Effectiveness 2015-2024 DSM Portfolio versus proposed 2020-2029 DSM Portfolio</b>							
<b>Existing Commercial DSM Programs</b>	<b>RIM Value</b>	<b>PCT Value</b>	<b>TRC Value</b>	<b>2020-2029 DSM Proposed Commercial</b>	<b>RIM Value</b>	<b>PCT Value</b>	<b>TRC Value</b>
Ceiling Insulation	0.96	969	2.56				
Chiller	0.79	691	1.25	Chiller	1.03	214	2.22
Conservation Value	0.53	1,649	1.52	Conservation Value	1.00	220	1.94
Cool roof	0.85	117	0.58				
Cooling - DX	0.65	640	1.05	Cooling - DX	1.02	15	0.83
Demand Response	1.01	2,103	86.89	Demand Response	1.45	911	6.91
Duct repair	1.06	4,078	6.64				
Electronically Commutated Motors (ECM)	1.12	36	3.53				
				Facility Energy Management System	1.02	1,167	1.53
LED Street and Outdoor Lighting Conversion	1.18	61,395	2.36	LED Street and Outdoor Lighting Conversion	1.40	46,169	2.61
Lighting - Conditioned	1.11	8,576	4.03	Lighting - Conditioned	1.13	5,834	1.12
Lighting - Non-Conditioned	1.32	4,918	2.01	Lighting - Non-Conditioned	1.22	492	0.79
Lighting - Occupancy sensors	0.80	1,617	5.23	Lighting - Occupancy sensors	1.04	1,999	3.69
Commercial Load Management (GSLM - 1) Cyclic	2.17	11	5.02	Commercial Load Management (GSLM - 1) Cyclic	2.75	9	6.29
Commercial Load Management (GSLM - 1) Extended	2.15	160	42.44	Commercial Load Management (GSLM - 1) Extended	2.55	124	49.47
Refrigeration Anti-Condensate Control	1.00	58	2.25				
				Smart Thermostats	1.06	106	0.65
Standby Generator	1.44	1,282	7.07	Standby Generator	1.76	1,002	6.93
Thermal Energy Storage	0.53	4,122	1.54				
				Variable Frequency Drive Control for Compressors	1.22	2,131	1.58
Wall Insulation	0.75	3	0.85				
Water heating	0.88	7	1.15	Water heating	1.02	42	1.46

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2. Please identify the total projected annual bill impact (at 1,000 kilowatt-hours (kWh) and 1,200 kWh) on the general body of ratepayers' monthly bills by program for each of TECO's Existing Programs for the years 2020 through 2024.
  - a. As part of this response, please provide a table comparing the results requested above with the total projected annual bill impact (at 1,000 kWh and 1,200 kWh) on the general body of ratepayers for each of the Company's Proposed Programs for the years 2020 through 2024.
  
- A. The table that provides the total projected annual bill impact (at 1,000 kilowatt-hours (kWh) and 1,200 kWh) on the general body of ratepayers' monthly bills by program for each of Tampa Electric's Existing DSM Programs for the years 2020 through 2024 is included in the folder entitled, "Staff's Request No.2" in the provided zipped folder named, "Staff's Third Data Request - 20200053".
  - a. The table that provides the comparison with the results requested above with the total projected annual bill impact (at 1,000 kWh and 1,200 kWh) on the general body of ratepayers for each of Tampa Electric's Proposed DSM Programs for the years 2020 through 2024 is in the folder entitled, "Staff's Request No.2A" in the provided zipped folder named, "Staff's Third Data Request - 20200053".

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3. For the Company's Existing Programs, please complete the table below by identifying the projected average residential monthly bill amount for the Energy Conservation Cost Recovery (ECCR) Clause for 2020 through 2024 (at 1,000 kWh and 1,200 kWh).

<b>Total Monthly Bill ECCR Amount</b>						
<b>Month</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>

- a. As part of this response, please provide a table comparing the results requested above with the projected average residential monthly bill amount for the ECCR Clause for 2020 through 2024 (at 1,000 kWh and 1,200 kWh) for the Company's Proposed Programs for the years 2020 through 2024.

- A. The table below identifies the actual for 2020 and projected for 2021 through 2024 average residential monthly bill amount for the Energy Conservation Cost Recovery (ECCR) Clause (at 1,000 kWh and 1,200 kWh) for the company's existing DSM programs.

<b>Total Monthly Bill ECCR Amount</b>					
	<b>Actual</b>	<b>Projected</b>			
<b>(\$/Month)</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>
1,000 kWh	\$2.32	\$2.81	\$2.81	\$2.47	\$2.38
1,200 kWh	\$2.78	\$3.37	\$3.37	\$2.97	\$2.86

- a. The table below provides the comparison of the results requested above with the projected average residential monthly bill amount for the ECCR Clause for the actual 2020 and projected 2021 through 2024 (at 1,000 kWh and 1,200 kWh) for Tampa Electric's Proposed DSM Programs for the years 2020 through 2024.

<b>Total Monthly Bill ECCR Amount</b>					
	<b>Actual</b>	<b>Projected</b>			
<b>(\$/Month)</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>
1,000 kWh	\$2.32	\$2.75	\$2.75	\$2.42	\$2.33
1,200 kWh	\$2.78	\$3.30	\$3.30	\$2.90	\$2.80

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- 4.** For each of TECO's Existing Programs, please identify the current and projected annual program savings that would contribute to the Commission-approved DSM goals for the years 2020 through 2024.
  - a. As part of this response, please provide a table comparing the results requested above with the projected annual program savings for each of the Company's Proposed Programs for the years 2020 through 2024.
  
- A.** The table providing the current and projected annual program savings that would contribute to the Commission-approved DSM goals for the years 2020 through 2024 based upon Tampa Electric's Existing DSM Programs is included in the folder entitled, "Staff's Request No. 4" in the provided zipped folder named, "Staff's Third Data Request - 20200053".
  - a. The table that provides the comparison of the results requested above with the projected annual program savings for each of the company's Proposed Programs for the years 2020 through 2024 Programs is included in the folder entitled, "Staff's Request No. 4A" in the provided zipped folder named, "Staff's Third Data Request - 20200053".

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- 5.** Please identify the current and projected annual program participation for each of TECO's Existing Programs for the years 2020 through 2024.
  - a. As part of this response, please provide a table comparing the results requested above with the projected annual program participation for each of the Company's Proposed Programs for the years 2020 through 2024.
  
- A.** The table providing the current and projected annual program participation for each of Tampa Electric's Existing DSM Programs for the years 2020 through 2024 is included in the folder entitled, "Staff's Request No. 5" in the provided zipped folder named, "Staff's Third Data Request - 20200053".
  - a. The table providing the comparison of the results requested above with the projected annual program participation for each of the company's Proposed DSM Programs for the years 2020 through 2024 is included in the folder entitled, "Staff's Request No. 5A" in the provided zipped folder named, "Staff's Third Data Request - 20200053".

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- 6.** Please identify the total projected annual program costs for each of TECO's Existing Programs for the years 2020 through 2024.
  - a. As part of this response, please provide a table comparing the results requested above with the projected annual program costs for each of the Company's Proposed Programs for the years 2020 through 2024.
  
- A.** The table providing the total projected annual program costs for each of Tampa Electric's Existing DSM Programs for the years 2020 through 2024 is included in the folder entitled, "Staff's Request No. 6" in the provided zipped folder named, "Staff's Third Data Request - 20200053".
  - a. The table providing the comparison of the results requested above with the projected annual program costs for each of the company's Proposed DSM Programs for the years 2020 through 2024 is included in the folder entitled, "Staff's Request No. 6A" in the provided zipped folder named, "Staff's Third Data Request - 20200053".

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7. Please identify the total historical annual program costs for each of TECO's Existing Programs for the years 2015 through 2019.
  - A. Tampa Electric's total historical annual program costs for each of the company's Existing Programs for the years 2015 through 2019 is included in the folder entitled, "Staff's Request No. 7-8-9" in the provided zipped folder named, "Staff's Third Data Request - 20200053". The table is included on the tab labeled, "No.7 AnnualPgmCosts 2015-2019".

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- 8.** Please identify the total historical annual program participation for each of TECO's Existing Programs for the years 2015 through 2019.
  - A.** Tampa Electric's total historical annual program participation for each of the company's Existing Programs for the years 2015 through 2019 is included in the folder entitled, "Staff's Request No. 7-8-9" in the provided zipped folder named, "Staff's Third Data Request - 20200053". The table is included on the tab labeled, "No.8 AnnualPgmPart 2015-2019".

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- 9.** Please provide the total historical annual bill impact (at 1,000 kilowatt-hours (kWh) and 1,200 kWh) on the general body of ratepayers' monthly bills by program for each of TECO's Existing Programs for the years 2015 through 2019.
  - A.** Tampa Electric's total historical annual bill impact (at 1,000 kilowatt-hours ("kWh") and 1,200 kWh) on the general body of ratepayers' monthly bills by program for each of the company's Existing Programs for the years 2015 through 2019 is included in the folder entitled, "Staff's Request No. 7-8-9" in the provided zipped folder named, "Staff's Third Data Request - 20200053" The table is included on the tab labeled, " No.9 ECCRbyPg 2015-2019".

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10. Please provide the total historical annual bill impact (at 1,000 kilowatt-hours (kWh) and 1,200 kWh) on the general body of ratepayers' monthly bills by program for each of TECO's Existing Programs for the years 2015 through 2019.

<b>Total Monthly Bill ECCR Amount</b>					
<b>Month</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>

- A. The table below provides the total historical annual bill impact (at 1,000 kWh and 1,200 kWh) on the general body of ratepayers' monthly bills for the years 2015 through 2019 in the format above.

<b>Tampa Electric's Historical Total Monthly Bill ECCR Amount (2015-2019)</b>					
	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>
1,000 kWh	\$2.47	\$1.91	\$2.25	\$2.46	\$3.21
1,200 kWh	\$2.96	\$2.29	\$2.70	\$2.95	\$3.85

The table provided in Response No. 9 above provides the total historical annual bill impact (at 1,000 kWh and 1,200 kWh) on the general body of ratepayers' monthly bills by program for each of the company's Existing Programs for the years 2015 through 2019.