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February 24, 2021

**VIA: ELECTRONIC FILING**

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

In re: Petition of Tampa Electric Company for approval of Direct Current Microgrid  
Pilot Program; Docket No. 20200234-EI;

Dear Mr. Teitzman:

Attached for filing in the above docket are Tampa Electric Company's responses to Staff's  
Fourth Data Request (Nos. 1-4), propounded on February 10, 2021.

Thank you for your assistance in connection with this matter.

Sincerely,



Malcolm N. Means

MNM/bmp  
Attachment

cc: All Parties of Record (w/attachment)  
Suzanne Brownless, Special Counsel, FPSC (w/attachment)

**TAMPA ELECTRIC COMPANY  
DOCKET NO. 20200234-EI  
STAFF'S FOURTH DATA REQUEST  
REQUEST NO. 1  
PAGE 1 OF 2  
FILED: FEBRUARY 24, 2021**

1. Please refer to TECO's response to Staff's 2nd Data Request, No. 1.b. for the questions below:
  - a. Please explain when TECO will petition the Commission for approval of the identified new depreciation plant accounts/subaccounts.
  - b. Please identify the estimated total amount of the Pilot Program-related plant additions that will be booked to the new accounts.
  - c. Please clarify whether the plant investment discussed in Question 1.b is included in the Revenue Requirement Table, shown on TECO's response to Staff's 1st Data Request, No. 2, page 2 of 2.
  - d. If your response to Question 1.c is affirmative, please explain which new account's investment is related to which category of the revenue requirement.
  - e. If your response to Question 1.c is negative, please explain why the new account-related plant investments are not included in the revenue requirement analysis.

- A. a. Upon approval of this pilot program, the company will be submitting a request to initiate new depreciation plant accounts and depreciation rates.

b.

341.98	Str and Improvements-DC Microgrid	\$	-
343.98	Prime Movers-DC Microgrid:	\$	675,755
345.98	Accessory Elect Eq-DC Microgrid	\$	514,998
348.98	Energy Storage Battery Equip-DC Microgrid	\$	510,030
		\$	1,700,783

- c. Yes, the plant investment discussed in the response to Data Request No. 1.b is included in the Revenue Requirement Table.
- d. New subaccount investments for 341.98, 343.98 and 345.98 are reflected in the "Solar Panel" revenue requirement category on Staff's 1st Data Request, No. 2, page 2 of 2. New subaccount investment for

**TAMPA ELECTRIC COMPANY  
DOCKET NO. 20200234-EI  
STAFF'S FOURTH DATA REQUEST  
REQUEST NO. 1  
PAGE 2 OF 2  
FILED: FEBRUARY 24, 2021**

348.98 is reflected in the "CEP Batteries" revenue requirement category.

- e. Not Applicable.

**TAMPA ELECTRIC COMPANY  
DOCKET NO. 20200234-EI  
STAFF'S FOURTH DATA REQUEST  
REQUEST NO. 2  
PAGE 1 OF 1  
FILED: FEBRUARY 24, 2021**

2. Please refer to TECO's response to Staff's 2nd Data Request, No. 2.b, where TECO identified \$60,000 plant addition associated with the AC system.
  - a. Please clarify whether this plant cost identified is included in the Revenue Requirement Table, shown on TECO's Response to Staff's 1st Data Request, No. 2, page 2 of 2.
  - b. If your response to Question 2.a is affirmative, please explain in which category of the revenue requirement the \$60,000 is included.
  - c. If your response to Question 2.a is negative, please explain why this AC system-related plant costs is not included in the revenue requirement analysis.
  
- A.
  - a. The \$60,000 plant investment discussed in the response to Staff's 2<sup>nd</sup> Data Request No 2.a is not included in the Revenue Requirement Table.
  - b. Not Applicable.
  - c. These expenditures were not included in the Revenue Requirement Table for the DC microgrid pilot since they represent the traditional AC infrastructure that would be installed regardless of the DC microgrid pilot.

**TAMPA ELECTRIC COMPANY  
DOCKET NO. 20200234-EI  
STAFF'S FOURTH DATA REQUEST  
REQUEST NO. 3  
PAGE 1 OF 1  
FILED: FEBRUARY 24, 2021**

- 3.** Please refer to TECO's response to Staff's 2nd Data Request, No. 5.a, where TECO identified four lines of plant cost associated with the DC Equipment.
  - a. Please clarify whether the plant costs identified are included in the Revenue Requirement Table, shown on TECO's Response to Staff's 1st Data Request, No. 2, page 2 of 2.
  - b. If your response to Question 3.a is affirmative, please explain which line of the plant cost is related to which category of the revenue requirement.
  - c. If your response to Question 3.a is negative, please explain why these plant costs are not included in the revenue requirement analysis.
  
- A.**
  - a. The plant costs identified in response the Staff's 2<sup>nd</sup> Data Request No. 5a are not included in the Revenue Requirement Table.
  - b. Not Applicable.
  - c. The identified plant costs were not included given that these investments originated after ETL's initial microgrid design, which was the focus of the answer in Staff's 1st Data Request, No. 2, page 2 of 2.

**TAMPA ELECTRIC COMPANY  
DOCKET NO. 20200234-EI  
STAFF'S FOURTH DATA REQUEST  
REQUEST NO. 4  
PAGE 1 OF 2  
FILED: FEBRUARY 24, 2021**

4. Please refer to TECO's response to Staff's First Data Request No. 2. Is it correct that the revenue requirements for the DC conduit and conductor are not included "because that equipment is provided by Emera Technologies?"
- a. If your response is negative, please explain why the DC conduit and conductor-related costs are not included in the revenue requirement analysis.
  - b. If your response is affirmative, please clarify:
    - (i) Whether any portion of the costs resulting from the Emera Technologies-provided DC conduit and conductor will eventually be paid by TECO's customers.
    - (ii) The relationship, if any, between the Emera Technologies-provided DC conduit and conductor and the conduit and conductors discussed in TECO's response to Staff's 2nd Data Request, No. 5.a. of which the depreciation expense will be booked to Accounts 366 - Underground Conduit and 367 – Underground Conductors.
- A. a. The DC conduit and conductor-related costs are included in the revenue requirements. Given the small amount of dollars, the conduit and conductor were included together in the category titled "DC Infrastructure Conduit". A more accurate description for this column should be "Blockloop Infrastructure", which includes conduit, conductor, fiber, trenching and installation. The total revenue requirement for these items did not round to an amount that would show a value within the chart. However, the following amounts were included in the answer:

All amounts are in \$Millions:

2021	\$.00348 or in dollars \$3,480
2022	\$.00319 or in dollars \$3,190
2023	\$.00292 or in dollars \$2,920
2024	\$.00267 or in dollars \$2,670

The cumulative NPV by 2024 is \$.01225 in \$Millions.

**TAMPA ELECTRIC COMPANY  
DOCKET NO. 20200234-EI  
STAFF'S FOURTH DATA REQUEST  
REQUEST NO. 4  
PAGE 2 OF 2  
FILED: FEBRUARY 24, 2021**

- b. See answer to a.
- (i) Yes, these costs were included in the revenue requirement for the DC microgrid and to the extent that the microgrid pilot costs are recovered from customers in the future, these costs should be included in that recovery.
  - (ii) The DC conduit and conductors identified in Tampa Electric's response to Staff's 1st Data Request, No.2 are those assets supplied and installed by Emera Technologies within the envelop of the Block Energy System. The conduit and conductors discussed in Tampa Electric's response to Staff's 2nd Data Request, No. 5a are those assets supplied and installed by Tampa Electric to provide a means for the AC supply interface to the Block Energy System grid tie transformer.