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July 22, 2021

VIA: ELECTRONIC FILING

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

Re: Fuel and Purchased Power Cost Recovery Clause with Generating Performance
Incentive Factor; FPSC Docket No. 20210001-EI

Dear Mr. Teitzman:

Attached for filing in the above docket is Tampa Electric Company's Supplement to the Petition for Mid-Course Correction of its Fuel Cost Recovery Factors and Capacity Cost Recovery Factors, filed on July 19, 2021.

On July 21, 2022, Commission technical staff informally requested that Tampa Electric provide several documents to supplement the company's Mid-Course Correction filing. These documents include a Schedule E-1, which was not included in the original filing, as a supplement to Exhibit B. Staff also requested that Tampa Electric provide revised versions of Schedules E-3 and E-4, affecting December data only, as well as a revised Schedule H-1. Finally, Staff's Data Request No. 5(a) asked the company to recalculate Exhibits "A" and "B" with a recovery period of October through December instead of September through December. Since the company provided a Schedule E-1 for the original Exhibit "B" to the Mid-Course Correction, the company is also providing a supplement to its response to Data Request No. 5(a) to provide a revised Schedule E-1 based on Staff's proposed recalculation. Tampa Electric is submitting these supplemental documents at the request of staff and provided them informally to the technical staff on the evening of July 21, 2021.

The company has also corrected scrivener's errors in its mid-course correction petition at paragraphs 9, 13, and 15. None of the changes are material, nor do they change any of ending over/(under-)recovery amounts for the period. The changes also do not affect any of the company's calculated fuel and capacity mid-course factors because the correct values were carried forward in the current period true-up amounts. In paragraphs 9 and 13 of the petition, a rounding error is corrected to state \$3.8 million instead of \$3.7 million; the actual number included in the mid-

course calculations was not rounded and is therefore immaterial to the filing result. In paragraph 15 of the petition, a value was stated incorrectly as \$9.6 million for the total amount to be recovered in the mid-course capacity factors. The actual amount to be included in the mid-course factors is \$9.76 million; and the correct amount, \$9.76 million, is what is included in calculating the proposed mid-course capacity factors.

The changes affected by this revised petition are as follows:

SUPPLEMENT: Exhibit B

Schedule E-1; omitted in the original filing.

REVISED: Exhibit B

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Schedule E-3

Schedule E-4


Schedule H-1

REVISED Exhibit B – MS Excel File

REVISED: Petition Pages

Thank you for your assistance in connection with this matter.

Sincerely,


Malcolm N. Means

MNM/bmp

Attachment

cc: All Parties of Record (w/encl.)

Mark Futrell, FPSC (w/encl.)

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that a true and correct copy of the foregoing Supplement to Tampa Electric Company's Petition for Mid-Course Correction, has been furnished by electronic mail on this 22nd day of July, 2021 to the following:

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8. Since the filing, approval, and implementation of Tampa Electric's current factors, the company has monitored its fuel and purchased power cost recovery revenue and expenses on an ongoing basis. Based on updated estimates for 2021, the company now projects that an under-recovery in excess of the 10 percent threshold set forth in Order No. PSC-07-0333-PAA-EI is likely to occur absent a modification to the company's current fuel factors.

9. Tampa Electric expects its total fuel and purchased power under-recovery for 2021 to be \$73.7 million, including the \$3.8 million final 2020 over-recovery amount and actual January through June 2021 and estimated reforecast July through December 2021 fuel and purchased power costs, as shown in Exhibit "A". The re-projected total fuel and net power transactions amount for January 2021 through December 2021 of \$677.2 million reflects an increase of \$89.0 million, compared to the original projection. The projected under-recovery for 2021 is over 10 percent greater than Tampa Electric's forecasted jurisdictional system fuel costs for the period on which the current fuel factors are based.

10. The primary cause of the under-recovery is a significant increase, of approximately 29 percent, in natural gas prices compared to the natural gas prices used to set the company's current fuel factors. Unlike the temporary natural gas price movements Tampa Electric monitored earlier this year, this change is expected to be a fundamental market shift that continues for the current year and into 2022. The drivers of this change are low natural storage levels, high demand for liquefied natural gas exports, and static production.

11. With this filing, Tampa Electric also updated its planned power purchases with updated availability and pricing of market power purchases that may substitute for

Tampa Electric generation when cost-effective because the price of natural gas affects the power market.

12. Accordingly, Tampa Electric proposes modifications to its fuel factors, effective with the first billing cycle for September 2021. If approved, the fuel charge for a residential customer using 1,000 kWh (“typical bill”) will be \$39.38 per month for the four-month period. Attached hereto as Exhibit “B” are revised and updated “E” Schedules which take into account the company’s currently projected under-recovery of \$73.7 million and a recalculation of the September through December 2021 fuel factors in a manner designed to eliminate the projected under-recovery.

13. The re-projected 2021 under-recovery amount includes the carry-forward of the final 2020 \$3.8 million fuel over-recovery, will reduce the total amount to be collected in the 2021 mid-course factors, and returns the final 2020 over-recovery amount to customers more quickly than without the mid-course correction since that amount would typically be returned to customers in the determination of 2022 fuel factors. The revised fuel factors are shown on Exhibit “B,” Schedule E1-E. The calculation of the four-month fuel factors is shown on Exhibit “B,” Schedule E1-D.

14. Tampa Electric is also proposing an increase to its capacity cost recovery factors for use in 2021. Based on updated estimates for 2021, the company now projects that an under-recovery in excess of the 10 percent threshold set forth in Order No. PSC-07-0333-PAA-EI is likely to occur absent a modification to the company’s current capacity adjustment factors. The capacity clause projected under-recovery is caused primarily by greater projected amounts of economic power purchases due to the increased cost of natural gas. Based on these updated estimates for 2021, the company now projects an under-recovery of \$9.6 million. Accordingly, Tampa Electric

proposes modifications to its capacity factors, effective with the first billing cycle for September 2021. Attached hereto as Exhibit “C” is a schedule demonstrating the expected 2021 capacity under-recovery amount absent an adjustment.

15. The projected 2021 capacity under-recovery is \$9.6 million, including the final 2020 \$3.4 million under-recovery amount, and the total amount to be recovered in the mid-course capacity factors is \$9.76 million. If approved, the revised capacity charge for a residential customer using 1,000 kWh (“typical bill”) will be \$1.70 per month for the four-month period. Attached as Exhibit “D” are the revised capacity cost recovery schedules to reflect the proposed change in capacity cost recovery factors.

16. Attached hereto as Schedule E10 of Exhibit “B” is a comparison of an average residential bill reflecting the present fuel adjustment and capacity cost recovery factors approved in Order No. PSC-2020-0439-FOF-EI and the modified factors proposed herein. Beginning in September 2021 through December 2021, the residential typical bill will be \$12.82 higher than the current typical bill.

17. Revised tariff sheets in “clean” and “legislative” format are attached as Exhibit “E.”

18. Because the proposed fuel adjustment and capacity cost recovery factor modifications are based on an effective date beginning with the first billing cycle for September 2021, Tampa Electric asks that this petition be given expedited treatment and scheduled for consideration on or before the August 3, 2021 Commission Agenda Conference to allow the company to provide notice to customers. In addition, Tampa Electric requests a waiver of the 30-day customer notice requirement if the petition is considered at the August 3, 2021 Agenda Conference. The company’s first billing cycle for September 2021 will occur on September 1, 2021, or 29 days after the August 3rd

TAMPA ELECTRIC COMPANY

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4	Schedule E1-C GPIF & True-Up Adj. Factors	(")
5	Schedule E1-D Fuel Adjustment Factor for TOD	(SEP 2021 - DEC 2021)
6	Schedule E1-E Fuel Recovery Factor	(SEP 2021 - DEC 2021)
7	Schedule E2 Cost Recovery Clause Calculation (By Month)	(JAN 2021 - DEC 2021)
8-10	Schedule E2 Supplemental	(")
11-12	Schedule E3 Generating System Comparative Data	(")
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30	Schedule E8 Energy Payment to Qualifying Facilities	(")
31	Schedule E9 Economy Energy Purchases	(")
32	Schedule E10 Residential Bill Comparison	(")
33	Schedule H1 Generating System Comparative Data	(JAN - DEC 2018-2021)

**TAMPA ELECTRIC COMPANY
 FUEL AND PURCHASED POWER
 COST RECOVERY CLAUSE CALCULATION
 ACTUAL/ESTIMATED FOR THE PERIOD: JANUARY 2021 THROUGH DECEMBER 2021**

SCHEDULE E1

	DOLLARS	MWH	CENTS/KWH
1. Fuel Cost of System Net Generation (E3)	591,149,796	18,705,322	3.16033
2. Nuclear Fuel Disposal Cost	0	0	0.00000
3. Coal Car Investment	0	0	0.00000
4a. Adjustment	0	18,705,322 ⁽¹⁾	0.00000
4b. Adjustment	0	0	0.00000
5. TOTAL COST OF GENERATED POWER (LINES 1 THROUGH 4b)	591,149,796	18,705,322	3.16033
6. Fuel Cost of Purchased Power - System (Exclusive of Economy)(E7)	9,605,451	223,336	4.30090
7. Energy Cost of Economy Purchases (E9)	75,672,757	1,944,549	3.89153
8. Demand and Non-Fuel Cost of Purchased Power	0	0	0.00000
9. Energy Payments to Qualifying Facilities (E8)	2,059,868	78,593	2.62094
10. TOTAL COST OF PURCHASED POWER (LINES 6 THROUGH 9)	87,338,075	2,246,478	3.88778
11. TOTAL AVAILABLE MWH (LINE 5 + LINE 10)		20,951,800	
12. Fuel Cost of Schedule D Sales - Jurisd. (E6)	862,115	32,742	2.63306
13. Fuel Cost of Market Based Sales - Jurisd. (E6)	307,668	11,968	2.57076
14. Gains on Sales	163,962	NA	NA
15. TOTAL FUEL COST AND GAINS OF POWER SALES	1,333,746	44,710	2.98310
16. Net Inadvertant Interchange		0	
17. Wheeling Received Less Wheeling Delivered		0	
18. Interchange and Wheeling Losses		1,198	
19. TOTAL FUEL AND NET POWER TRANSACTIONS (LINE 5+10-15+16+17-18)	677,154,125	20,905,891	3.23906
20. Net Unbilled	NA ^{(1)(a)}	NA ^(a)	NA
21. Company Use	1,166,062 ⁽¹⁾	36,000	0.00585
22. T & D Losses	29,985,611 ⁽¹⁾	925,750	0.15035
23. System MWH Sales	677,154,125	19,944,141	3.39525
24. Wholesale MWH Sales	(0)	0	0.00000
25. Jurisdictional MWH Sales	677,154,125	19,944,141	3.39525
26. Jurisdictional Loss Multiplier			1.00000
27. Jurisdictional MWH Sales Adjusted for Line Loss	677,154,125	19,944,141	3.39525
28. Optimization Mechanism ⁽²⁾	1,180,820	19,944,141	0.00592
29. True-up ⁽²⁾	49,015,848	6,784,547	0.72246
30. Total Jurisdictional Fuel Cost (Excl. GPIF)	727,350,793	19,944,141	3.64694
31. Revenue Tax Factor			1.00072
32. Fuel Factor (Excl. GPIF) Adjusted for Taxes	727,874,486	19,944,141	3.64957
33. GPIF Adjusted for Taxes ⁽²⁾	2,858,056	19,944,141	0.01433
34. Fuel Factor Adjusted for Taxes Including GPIF	730,732,542	19,944,141	3.66390
35. Fuel Factor Rounded to Nearest .001 cents per KWH			3.664

^(a) Data not available at this time.

⁽¹⁾ Included For Informational Purposes Only

⁽²⁾ Calculation Based on Jurisdictional MWH Sales

TAMPA ELECTRIC COMPANY
 GENERATING SYSTEM COMPARATIVE DATA BY FUEL TYPE
 ACTUAL FOR THE PERIOD: JANUARY 2021 THROUGH JUNE 2021

SCHEDULE E3

	ACTUAL Jan-21	ACTUAL Feb-21	ACTUAL Mar-21	ACTUAL Apr-21	ACTUAL May-21	ACTUAL Jun-21
FUEL COST OF SYSTEM NET GENERATION (\$)						
1. HEAVY OIL	0	0	0	0	0	0
2. LIGHT OIL	17,031	87,245	17,929	57,370	25,842	51,354
3. COAL	2,523,735	7,498,306	4,799,736	2,803,672	3,851,041	6,065,132
4. NATURAL GAS	32,506,200	31,540,062	36,066,578	35,178,663	46,203,567	46,581,068
5. SOLAR	0	0	0	0	0	0
6. OTHER	0	0	0	0	0	0
7. TOTAL (\$)	35,046,966	39,125,613	40,884,243	38,039,705	50,080,450	52,697,554
SYSTEM NET GENERATION (MWH)						
8. HEAVY OIL	0	0	0	0	0	0
9. LIGHT OIL	178	101	115	96	51	85
10. COAL	83,163	196,789	126,454	63,348	108,168	178,944
11. NATURAL GAS	1,151,915	1,023,714	1,230,975	1,277,518	1,393,547	1,403,874
12. SOLAR	82,335	86,652	117,281	133,120	150,867	110,572
13. OTHER	0	0	0	0	0	0
14. TOTAL (MWH)	1,317,591	1,307,256	1,474,825	1,474,082	1,652,633	1,693,475
UNITS OF FUEL BURNED						
15. HEAVY OIL (BBL)	0	0	0	0	0	0
16. LIGHT OIL (BBL)	115	588	121	408	184	365
17. COAL (TON)	36,182	90,829	58,946	32,825	49,854	86,003
18. NATURAL GAS (MCF)	9,027,318	8,122,935	9,620,165	10,225,351	11,410,833	10,516,609
19. SOLAR	0	0	0	0	0	0
20. OTHER	0	0	0	0	0	0
BTUS BURNED (MMBTU)						
21. HEAVY OIL	0	0	0	0	0	0
22. LIGHT OIL	669	3,427	704	2,376	1,070	2,127
23. COAL	833,193	2,074,833	1,360,675	764,197	1,152,870	1,982,976
24. NATURAL GAS	9,244,078	8,329,906	9,831,194	10,430,648	11,687,186	10,778,573
25. SOLAR	0	0	0	0	0	0
26. OTHER	0	0	0	0	0	0
27. TOTAL (MMBTU)	10,077,940	10,408,166	11,192,573	11,197,222	12,841,126	12,763,677
GENERATION MIX (% MWH)						
28. HEAVY OIL	0.00	0.00	0.00	0.00	0.00	0.00
29. LIGHT OIL	0.01	0.01	0.01	0.01	0.00	0.01
30. COAL	6.31	15.05	8.57	4.29	6.55	10.56
31. NATURAL GAS	87.43	78.31	83.47	86.67	84.32	82.90
32. SOLAR	6.25	6.63	7.95	9.03	9.13	6.53
33. OTHER	0.00	0.00	0.00	0.00	0.00	0.00
34. TOTAL (%)	100.00	100.00	100.00	100.00	100.00	100.00
FUEL COST PER UNIT						
35. HEAVY OIL (\$/BBL)	0.00	0.00	0.00	0.00	0.00	0.00
36. LIGHT OIL (\$/BBL)	148.10	148.38	148.17	140.61	140.45	140.70
37. COAL (\$/TON)	69.75	82.55	81.43	85.41	77.25	70.52
38. NATURAL GAS (\$/MCF)	3.60	3.88	3.75	3.44	4.05	4.43
39. SOLAR	0.00	0.00	0.00	0.00	0.00	0.00
40. OTHER	0.00	0.00	0.00	0.00	0.00	0.00
FUEL COST PER MMBTU (\$/MMBTU)						
41. HEAVY OIL	0.00	0.00	0.00	0.00	0.00	0.00
42. LIGHT OIL	25.46	25.46	25.47	24.15	24.15	24.14
43. COAL	3.03	3.61	3.53	3.67	3.34	3.06
44. NATURAL GAS	3.52	3.79	3.67	3.37	3.95	4.32
45. SOLAR	0.00	0.00	0.00	0.00	0.00	0.00
46. OTHER	0.00	0.00	0.00	0.00	0.00	0.00
47. TOTAL (\$/MMBTU)	3.48	3.76	3.65	3.40	3.90	4.13
BTU BURNED PER KWH (BTU/KWH)						
48. HEAVY OIL	0	0	0	0	0	0
49. LIGHT OIL	3,758	33,931	6,124	24,752	20,980	25,024
50. COAL	10,019	10,543	10,760	12,063	10,658	11,082
51. NATURAL GAS	8,025	8,137	7,987	8,165	8,387	7,678
52. SOLAR	0	0	0	0	0	0
53. OTHER	0	0	0	0	0	0
54. TOTAL (BTU/KWH)	7,649	7,962	7,589	7,596	7,770	7,537
GENERATED FUEL COST PER KWH (CENTS/KWH)						
55. HEAVY OIL	0.00	0.00	0.00	0.00	0.00	0.00
56. LIGHT OIL	9.57	86.38	15.59	59.76	50.67	60.42
57. COAL	3.03	3.81	3.80	4.43	3.56	3.39
58. NATURAL GAS	2.82	3.08	2.93	2.75	3.32	3.32
59. SOLAR	0.00	0.00	0.00	0.00	0.00	0.00
60. OTHER	0.00	0.00	0.00	0.00	0.00	0.00
61. TOTAL (CENTS/KWH)	2.66	2.99	2.77	2.58	3.03	3.11

TAMPA ELECTRIC COMPANY
GENERATING SYSTEM COMPARATIVE DATA BY FUEL TYPE
ESTIMATED FOR THE PERIOD: JULY 2021 THROUGH DECEMBER 2021

SCHEDULE E3

	ESTIMATED Jul-21	ESTIMATED Aug-21	ESTIMATED Sep-21	ESTIMATED Oct-21	ESTIMATED Nov-21	ESTIMATED Dec-21	TOTAL
FUEL COST OF SYSTEM NET GENERATION (\$)							
1. HEAVY OIL	0	0	0	0	0	0	0
2. LIGHT OIL	93,217	92,828	92,445	92,069	45,941	91,513	764,784
3. COAL	5,248,735	5,533,990	4,972,764	1,109,083	952,197	5,503,061	50,861,452
4. NATURAL GAS	54,447,723	56,722,534	53,615,547	52,189,513	48,883,064	45,589,041	539,523,560
5. SOLAR	0	0	0	0	0	0	0
6. OTHER	0	0	0	0	0	0	0
7. TOTAL (\$)	59,789,675	62,349,352	58,680,756	53,390,665	49,881,202	51,183,615	591,149,796
SYSTEM NET GENERATION (MWH)							
8. HEAVY OIL	0	0	0	0	0	0	0
9. LIGHT OIL	300	300	300	300	150	300	2,276
10. COAL	140,060	155,160	137,900	28,490	25,870	158,610	1,402,956
11. NATURAL GAS	1,507,380	1,530,630	1,445,730	1,395,900	1,258,570	1,249,980	15,869,733
12. SOLAR	148,910	144,090	124,210	123,740	97,710	110,870	1,430,357
13. OTHER	0	0	0	0	0	0	0
14. TOTAL (MWH)	1,796,650	1,830,180	1,708,140	1,548,430	1,382,300	1,519,760	18,705,322
UNITS OF FUEL BURNED							
15. HEAVY OIL (BBL)	0	0	0	0	0	0	0
16. LIGHT OIL (BBL)	666	666	666	666	333	666	5,444
17. COAL (TON)	74,450	80,160	72,930	15,640	13,950	80,950	692,719
18. NATURAL GAS (MCF)	10,954,655	11,289,625	10,723,105	10,542,335	9,995,638	8,986,635	121,415,204
19. SOLAR	0	0	0	0	0	0	0
20. OTHER	0	0	0	0	0	0	0
BTUS BURNED (MMBTU)							
21. HEAVY OIL	0	0	0	0	0	0	0
22. LIGHT OIL	3,900	3,900	3,900	3,900	1,950	3,900	31,824
23. COAL	1,675,180	1,803,630	1,640,900	351,850	313,830	1,821,380	15,775,515
24. NATURAL GAS	11,236,060	11,577,820	10,986,420	10,809,590	10,229,600	9,227,110	124,368,185
25. SOLAR	0	0	0	0	0	0	0
26. OTHER	0	0	0	0	0	0	0
27. TOTAL (MMBTU)	12,915,140	13,385,350	12,631,220	11,165,340	10,545,380	11,052,390	140,175,523
GENERATION MIX (% MWH)							
28. HEAVY OIL	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29. LIGHT OIL	0.02	0.02	0.02	0.02	0.01	0.02	0.01
30. COAL	7.79	8.48	8.07	1.84	1.87	10.43	7.50
31. NATURAL GAS	83.90	83.63	84.64	90.15	91.05	82.25	84.84
32. SOLAR	8.29	7.87	7.27	7.99	7.07	7.30	7.65
33. OTHER	0.00	0.00	0.00	0.00	0.00	0.00	0.00
34. TOTAL (%)	100.00	100.00	100.00	100.00	100.00	100.00	100.00
FUEL COST PER UNIT							
35. HEAVY OIL (\$/BBL)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
36. LIGHT OIL (\$/BBL)	139.97	139.38	138.81	138.24	137.96	137.41	140.48
37. COAL (\$/TON)	70.50	69.04	68.19	70.91	68.26	67.98	73.42
38. NATURAL GAS (\$/MCF)	4.97	5.02	5.00	4.95	4.89	5.07	4.44
39. SOLAR	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40. OTHER	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FUEL COST PER MMBTU (\$/MMBTU)							
41. HEAVY OIL	0.00	0.00	0.00	0.00	0.00	0.00	0.00
42. LIGHT OIL	23.90	23.80	23.70	23.61	23.56	23.46	24.03
43. COAL	3.13	3.07	3.03	3.15	3.03	3.02	3.22
44. NATURAL GAS	4.85	4.90	4.88	4.83	4.78	4.94	4.34
45. SOLAR	0.00	0.00	0.00	0.00	0.00	0.00	0.00
46. OTHER	0.00	0.00	0.00	0.00	0.00	0.00	0.00
47. TOTAL (\$/MMBTU)	4.63	4.66	4.65	4.78	4.73	4.63	4.22
BTU BURNED PER KWH (BTU/KWH)							
48. HEAVY OIL	0	0	0	0	0	0	0
49. LIGHT OIL	13,000	13,000	13,000	13,000	13,000	13,000	13,982
50. COAL	11,960	11,624	11,899	12,350	12,131	11,483	11,244
51. NATURAL GAS	7,454	7,564	7,599	7,744	8,128	7,382	7,837
52. SOLAR	0	0	0	0	0	0	0
53. OTHER	0	0	0	0	0	0	0
54. TOTAL (BTU/KWH)	7,188	7,314	7,395	7,211	7,629	7,272	7,494
GENERATED FUEL COST PER KWH (CENTS/KWH)							
55. HEAVY OIL	0.00	0.00	0.00	0.00	0.00	0.00	0.00
56. LIGHT OIL	31.07	30.94	30.82	30.69	30.63	30.50	33.60
57. COAL	3.75	3.57	3.61	3.89	3.68	3.47	3.63
58. NATURAL GAS	3.61	3.71	3.71	3.74	3.88	3.65	3.40
59. SOLAR	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60. OTHER	0.00	0.00	0.00	0.00	0.00	0.00	0.00
61. TOTAL (CENTS/KWH)	3.33	3.41	3.44	3.45	3.61	3.37	3.16

SCHEDULE EA

TAMPA ELECTRIC COMPANY
 SYSTEM NET GENERATION AND FUEL COST
 ESTIMATED FOR THE PERIOD: DECEMBER 2021

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)
PLANT/UNIT	NET CAPABILITY (MW)	NET GENERATION (MWH)	NET CAPACITY FACTOR (%)	EQUIV. AVAIL. FACTOR (%)	NET OUTPUT FACTOR (%)	AVG. NET HEAT RATE (BTU/KWH)	FUEL TYPE	FUEL BURNED (UNITS)	FUEL HEAT VALUE (BTU/UNIT)	FUEL BURNED (MM BTU) ⁽¹⁾	AS BURNED FUEL COST (\$)	FUEL COST PER KWH (cents/KWH)	COST OF FUEL (\$/UNIT)
1. TIA SOLAR	1.6	260	21.8	-	21.8	-	SOLAR	-	-	-	-	-	-
2. BAYVIEW SOLAR	16.3	1,700	16.3	-	16.3	-	SOLAR	-	-	-	-	-	-
3. LEONARD SOLAR	14.3	2,700	241.0	-	241.0	-	SOLAR	-	-	-	-	-	-
4. PAYNE CREEK SOLAR	70.1	8,500	16.3	-	16.3	-	SOLAR	-	-	-	-	-	-
5. BALM SOLAR	74.2	8,800	15.9	-	15.9	-	SOLAR	-	-	-	-	-	-
6. LITHA SOLAR	74.3	10,420	18.8	-	18.8	-	SOLAR	-	-	-	-	-	-
7. GRANGE HALL SOLAR	60.8	7,070	15.6	-	15.6	-	SOLAR	-	-	-	-	-	-
8. PEACE CREEK SOLAR	54.8	6,480	15.9	-	15.9	-	SOLAR	-	-	-	-	-	-
9. BONHE MINE SOLAR	30.4	5,050	16.1	-	16.1	-	SOLAR	-	-	-	-	-	-
10. WINDY HILL SOLAR	49.4	5,840	18.9	-	18.9	-	SOLAR	-	-	-	-	-	-
11. WINDY HILL SOLAR	74.4	10,480	19.0	-	19.0	-	SOLAR	-	-	-	-	-	-
12. LITTLE MANATEE RIVER SOLAR	74.3	10,460	18.9	-	18.9	-	SOLAR	-	-	-	-	-	-
13. DURRANCE SOLAR	59.8	7,470	16.3	-	16.3	-	SOLAR	-	-	-	-	-	-
14. FUTURE SOLAR	24.9	3,020	16.3	-	16.3	-	SOLAR	-	-	-	-	-	-
15. FUTURE SOLAR	74.3	6,350	11.5	-	11.5	-	SOLAR	-	-	-	-	-	-
16. FUTURE SOLAR	52.3	9,010	23.2	-	23.2	-	SOLAR	-	-	-	-	-	-
17. FUTURE SOLAR	18.2	2,250	17.7	-	17.7	-	SOLAR	-	-	-	-	-	-
18. SOLAR TOTAL	⁽³⁾ 877.7	110,870	17.0	-	17.0	-	SOLAR	-	-	-	-	-	-
19. BIG BEND #1 TOTAL	0	0	0.0	0.0	0.0	0	GAS	0	0	0.0	0	0.00	0.00
20. BIG BEND #2 TOTAL	390	0	0.0	0.0	0.0	0	GAS	0	0	0.0	0	0.00	0.00
21. B.B.#3 (GAS)	355	19,290	7.3	-	-	-	GAS	220,730	1,027,998	226,910.0	1,119,759	5.81	5.07
22. B.B.#3 (COAL)	400	0	0.0	-	-	-	COAL	0	0	0.0	0	0.00	0.00
23. BIG BEND #3 TOTAL	355	19,290	7.3	83.9	53.8	11,769	-	-	-	226,910.0	1,119,759	5.81	-
24. B.B.#4 (GAS)	160	8,350	7.0	-	-	-	GAS	93,250	1,027,989	95,860.0	473,056	5.67	5.07
25. B.B.#4 (COAL)	432	158,610	49.3	-	-	-	COAL	80,950	22,500,062	1,821,390.0	5,503,061	3.47	67.98
26. BIG BEND #4 TOTAL	432	166,960	51.9	89.7	56.5	11,483	-	-	-	1,817,240.0	5,976,117	3.58	-
27. B.B. IGNITION	-	-	-	-	-	-	-	10,860	1,027,624	11,180.0	55,093	-	5.07
28. B.B.C.T.#4 TOTAL	61	380	0.8	98.3	56.6	13,184	GAS	4,880	1,026,639	5,010.0	24,756	6.51	5.07
29. B.B.C.T.#5 TOTAL	350	39,200	14.7	57.3	66.1	9,626	GAS	353,980	1,027,968	363,880.0	1,795,734	4.70	5.07
30. B.B.C.T.#6 TOTAL	350	13,880	5.3	97.1	52.2	9,656	GAS	130,380	1,027,995	134,030.0	661,415	4.77	5.07
31. BIG BEND STATION TOTAL	1,888	238,700	16.9	67.7	57.3	11,090	-	-	-	2,847,070.0	9,632,874	40.4	-
32. POLK #1 GASIFIER	220	0	0.0	-	0.0	0	COAL	0	0	0.0	0	0.00	0.00
33. POLK #1 CT (GAS)	192	0	0.0	-	0.0	0	GAS	0	0	0.0	0	0.00	0.00
34. POLK #1 TOTAL	220	0	0.0	0.0	0.0	0	-	-	-	0.0	0	0.00	-
35. POLK #2 ST DUCT FIRING	120	8,590	9.6	-	88.1	8,175	GAS	68,230	1,027,984	70,140.0	346,130	4.03	5.07
36. POLK #2 ST DUCT FIRING	80	613,590	174.5	-	-	-	GAS	4,141,165	1,028,003	4,257,280.0	21,394,839	3.45	5.07
37. POLK #2 ST TOTAL	480	622,180	174.5	-	185.1	6,945	-	-	-	4,327,280.0	21,394,839	3.45	-
38. POLK #2 CT (GAS)	180	1,380	1.0	-	76.7	11,000	GAS	14,770	1,027,759	15,180.0	74,927	5.43	5.07
39. POLK #2 CT (OIL)	187	150	0.1	-	80.2	13,000	LGT OIL	333	5,855,856	1,950.0	45,757	30.50	137.41
40. POLK #2 TOTAL	⁽⁴⁾ 180	1,530	1.1	-	77.0	11,196	-	-	-	17,130.0	120,684	7.89	-
41. POLK #5 CT (GAS)	180	0	0.0	-	0.0	0	GAS	0	0	0.0	0	0.00	0.00
42. POLK #5 CT (OIL)	182	150	0.1	-	80.2	13,000	LGT OIL	333	5,855,856	1,950.0	45,756	30.50	137.41
43. POLK #5 TOTAL	⁽⁴⁾ 180	150	0.1	-	80.2	13,000	-	-	-	1,950.0	45,756	30.50	-
44. POLK #4 CT (GAS) TOTAL	⁽⁴⁾ 180	1,240	0.9	-	76.5	10,868	GAS	13,230	1,027,967	13,600.0	67,116	5.41	5.07
45. POLK #5 CT (GAS) TOTAL	⁽⁴⁾ 180	0	0.0	-	0.0	0	GAS	0	0	0.0	0	0.00	0.00
46. POLK #2 CC TOTAL	1,200	626,000	70.1	88.0	153.2	6,965	-	-	-	4,359,970.0	21,587,845	3.45	-
47. POLK STATION TOTAL	1,420	626,000	59.3	82.8	153.2	6,965	-	-	-	4,359,970.0	21,587,845	3.45	-
48. BAYSIDE #1	792	385,590	65.4	97.3	70.6	7,250	GAS	2,719,560	1,028,001	2,795,710.0	13,796,280	3.58	5.07
49. BAYSIDE #2	1,047	155,660	20.0	97.4	35.3	7,797	GAS	1,180,610	1,028,011	1,213,680.0	5,989,214	3.85	5.07
50. BAYSIDE #3	61	530	1.2	98.6	66.8	6,440	GAS	6,440	1,027,960	6,620.0	32,070	6.16	5.07
51. BAYSIDE #4	61	1,460	2.2	98.6	72.7	12,059	GAS	11,980	1,028,428	12,300.0	60,723	6.93	5.07
52. BAYSIDE #5	61	1,020	2.2	98.6	71.8	12,198	GAS	10,910	1,029,414	11,220.0	55,346	6.02	5.07
53. BAYSIDE #6	61	920	2.0	98.6	71.8	12,198	GAS	10,910	1,029,414	11,220.0	55,346	6.02	5.07
54. BAYSIDE STATION TOTAL	2,083	5,441,900	35.1	97.5	54.9	7,434	GAS	3,935,140	1,028,007	4,045,350.0	19,952,895	3.67	5.07
55. SYSTEM TOTAL	6,279	1,519,760	32.5	71.6	90.1	7,272	-	-	-	11,052,390.0	51,183,615	3.37	-

⁽¹⁾ As burned fuel cost system total includes ignition
⁽²⁾ As burned (MM BTU) system total excludes ignition
⁽³⁾ AC rating
⁽⁴⁾ In Simple Cycle Mode

SCHEDULE H1

TAMPA ELECTRIC COMPANY
GENERATING SYSTEM COMPARATIVE DATA BY FUEL TYPE
PERIOD: JANUARY THROUGH DECEMBER

	ACTUAL 2018	ACTUAL 2019	ACTUAL 2020	ACT/EST 2021	DIFFERENCE (%)		
					2019-2018	2020-2019	2021-2020
FUEL COST OF SYSTEM NET GENERATION (\$)							
1 HEAVY OIL ⁽¹⁾	0	0	0	0	0.0%	0.0%	0.0%
2 LIGHT OIL ⁽¹⁾	51,583	183,150	636,201	764,784	255.1%	247.4%	20.2%
3 COAL	125,828,296	45,241,314	33,991,967	50,861,452	-64.0%	-24.9%	49.6%
4 NATURAL GAS	505,830,903	480,359,200	379,848,073	539,523,560	-5.0%	-20.9%	42.0%
5 NUCLEAR	0	0	0	0	0.0%	0.0%	0.0%
6 OTHER	0	0	0	0	0.0%	0.0%	0.0%
7 TOTAL (\$)	631,710,782	525,783,664	414,476,241	591,149,796	-16.8%	-21.2%	42.6%
SYSTEM NET GENERATION (MWH)							
8 HEAVY OIL ⁽¹⁾	0	0	0	0	0.0%	0.0%	0.0%
9 LIGHT OIL ⁽¹⁾	173	582	1,901	2,276	236.4%	226.6%	19.7%
10 COAL	3,533,451	1,194,254	903,680	1,402,956	-66.2%	-24.3%	55.2%
11 NATURAL GAS	16,096,514	17,513,363	16,519,857	15,869,733	8.8%	-5.7%	-3.9%
12 NUCLEAR	118,322	756,215	1,119,822	1,430,357	539.1%	48.1%	27.7%
13 OTHER	0	0	0	0	0.0%	0.0%	0.0%
14 TOTAL (MWH)	19,748,460	19,464,414	18,545,260	18,705,322	-1.4%	-4.7%	0.9%
UNITS OF FUEL BURNED							
15 HEAVY OIL (BBL) ⁽¹⁾	0	0	0	0	0.0%	0.0%	0.0%
16 LIGHT OIL (BBL) ⁽¹⁾	405	1,436	4,345	5,444	254.6%	202.6%	25.3%
17 COAL (TON)	1,626,026	570,012	431,512	692,719	-64.9%	-24.3%	60.5%
18 NATURAL GAS (MCF)	121,581,188	137,873,625	127,992,191	121,415,204	13.4%	-7.2%	-5.1%
19 NUCLEAR (MMBTU)	0	0	0	0	0.0%	0.0%	0.0%
20 OTHER	0	0	0	0	0.0%	0.0%	0.0%
BTUS BURNED (MMBTU)							
21 HEAVY OIL ⁽¹⁾	0	0	0	0	0.0%	0.0%	0.0%
22 LIGHT OIL ⁽¹⁾	1,349	8,362	25,328	31,824	519.9%	202.9%	25.6%
23 COAL	38,881,879	13,177,799	9,830,729	15,775,515	-66.1%	-25.4%	60.6%
24 NATURAL GAS	124,229,756	140,983,651	131,021,110	124,368,185	13.5%	-7.1%	-5.1%
25 NUCLEAR	0	0	0	0	0.0%	0.0%	0.0%
26 OTHER	0	0	0	0	0.0%	0.0%	0.0%
27 TOTAL (MMBTU)	163,112,984	154,169,812	140,877,167	140,175,523	-5.5%	-8.6%	-0.5%
GENERATION MIX (% MWH)							
28 HEAVY OIL ⁽¹⁾	0.00	0.00	0.00	0.00	0.0%	0.0%	0.0%
29 LIGHT OIL ⁽¹⁾	0.00	0.00	0.01	0.01	0.0%	0.0%	0.0%
30 COAL	17.89	6.13	4.87	7.50	-65.7%	-20.6%	54.0%
31 NATURAL GAS	81.51	89.98	89.08	84.84	10.4%	-1.0%	-4.8%
32 NUCLEAR	0.60	3.89	6.04	7.65	548.3%	55.3%	26.7%
33 OTHER	0.00	0.00	0.00	0.00	0.0%	0.0%	0.0%
34 TOTAL (%)	100.00	100.00	100.00	100.00	0.0%	0.0%	0.0%
FUEL COST PER UNIT							
35 HEAVY OIL (\$/BBL) ⁽¹⁾	0.00	0.00	0.00	0.00	0.0%	0.0%	0.0%
36 LIGHT OIL (\$/BBL) ⁽¹⁾	127.37	127.54	146.42	140.48	0.1%	14.8%	-4.1%
37 COAL (\$/TON)	77.38	79.37	78.77	73.42	2.6%	-0.8%	-6.8%
38 NATURAL GAS (\$/MCF)	4.16	3.48	2.97	4.44	-16.3%	-14.7%	49.5%
39 NUCLEAR (\$/MMBTU)	0.00	0.00	0.00	0.00	0.0%	0.0%	0.0%
40 OTHER	0.00	0.00	0.00	0.00	0.0%	0.0%	0.0%
FUEL COST PER MMBTU (\$/MMBTU)							
41 HEAVY OIL ⁽¹⁾	0.00	0.00	0.00	0.00	0.0%	0.0%	0.0%
42 LIGHT OIL ⁽¹⁾	38.24	21.90	25.12	24.03	-42.7%	14.7%	-4.3%
43 COAL	3.24	3.43	3.46	3.22	5.9%	0.9%	-6.9%
44 NATURAL GAS	4.07	3.41	2.90	4.34	-16.2%	-15.0%	49.7%
45 NUCLEAR	0.00	0.00	0.00	0.00	0.0%	0.0%	0.0%
46 OTHER	0.00	0.00	0.00	0.00	0.0%	0.0%	0.0%
47 TOTAL (\$/MMBTU)	3.87	3.41	2.94	4.22	-11.9%	-13.8%	43.5%
BTU BURNED PER KWH (BTU/KWH)							
48 HEAVY OIL ⁽¹⁾	0	0	0	0	0.0%	0.0%	0.0%
49 LIGHT OIL ⁽¹⁾	7,798	14,368	13,324	13,982	84.3%	-7.3%	4.9%
50 COAL	11,004	11,034	10,879	11,244	0.3%	-1.4%	3.4%
51 NATURAL GAS	7,718	8,050	7,931	7,837	4.3%	-1.5%	-1.2%
52 NUCLEAR	0	0	0	0	0.0%	0.0%	0.0%
53 OTHER	0	0	0	0	0.0%	0.0%	0.0%
54 TOTAL (BTU/KWH)	8,260	7,921	7,596	7,494	-4.1%	-4.1%	-1.3%
GENERATED FUEL COST PER KWH (cents/KWH)							
55 HEAVY OIL ⁽¹⁾	0.00	0.00	0.00	0.00	0.0%	0.0%	0.0%
56 LIGHT OIL ⁽¹⁾	29.82	31.47	33.47	33.60	5.5%	6.4%	0.4%
57 COAL	3.56	3.79	3.76	3.63	6.5%	-0.8%	-3.5%
58 NATURAL GAS	3.14	2.74	2.30	3.40	-12.7%	-16.1%	47.8%
59 NUCLEAR	0.00	0.00	0.00	0.00	0.0%	0.0%	0.0%
60 OTHER	0.00	0.00	0.00	0.00	0.0%	0.0%	0.0%
61 TOTAL (cents/KWH)	3.20	2.70	2.23	3.16	-15.6%	-17.4%	41.7%

⁽¹⁾ DISTILLATE (BBLs, MWH & \$) USED FOR FIRING, HOT STANDBY, ETC. IS INCLUDED IN FOSSIL STEAM PLANTS.