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February 7, 2019

VIA: ELECTRONIC FILING

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

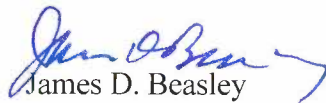
Re: Fuel and Purchased Power Cost Recovery Clause with Generating Performance
Incentive Factor; FPSC Docket No. 20190001-EI

Dear Mr. Teitzman:

Attached for filing in the above docket is Tampa Electric Company's Responses to Staff's
Second Data Request (Nos. 1-7) dated February 1, 2019.

Thank you for your assistance in connection with this matter.

Sincerely,


James D. Beasley

JDB/pp
Attachment

cc: Suzanne Brownless

**TAMPA ELECTRIC COMPANY
DOCKET NO. 20190001-EI
STAFF'S SECOND DATA REQUEST
REQUEST NO. 1
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For the purpose of questions 1-6, please refer to the data in Tables 1 and 2 below, which were presented in two different filings the Company has made in Docket Nos. 20180001-EI and 20190001-EI.

Table 1 (2019 Projection)

Source of Data	Plant	Net Capability (MW)	Net Generation (MWH)	Net Capacity Factor (%)
Schedule E4, Projection Filing, August 24, 2018	TIA Solar	1.6	220	18.5
	Big Bend Solar	19.4	2,400	16.6
	Legoland Solar	1.5	150	13.4
	Future Solar	405	56,930	18.9
	TOTAL	427.5	59,700	18.8

Table 2 (Mid Course Correction filing – revision to 2019 Projection)

Source of Data	Plant	Net Capability (MW)	Net Generation (MWH)	Net Capacity Factor (%)
Schedule E4, Mid-Course Filing, January 15, 2019	TIA Solar	1.6	230	19.3
	Big Bend Solar	19.4	2,600	18
	Legoland Solar	1.5	170	15.2
	Future Solar	405	61,330	20.4
	TOTAL	427.5	64,330	20.2

1. Is the Lake Hancock project included in the data that is presently identified Tables 1 and 2 as "Future Solar?" Please explain your response.
 - A. Yes. The full 49.5 MW_{ac} of Lake Hancock is included in the model's capacities and the projected MWh shown in Tables 1 and 2. However, on Schedule E4, the company inadvertently omitted the additional MW of solar capacity from Lake Hancock that were not included in the Second SoBRA for cost recovery.

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- 2.** Are the megawatt-hours for the Shared Solar program (referenced in Docket No. 20180204-EI) included in the data that is presently identified in Tables 1 and 2 as "Future Solar?" Please explain your response.
 - A.** Yes, the MWh associated with the 17.5 MW_{ac} Shared Solar Program are included in the values shown in Tables 1 and 2. See the response to Data Request No. 1.

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3. Did TECO include the Lake Hancock project and/or the megawatt-hours for the Shared Solar program (referenced in Docket No. 20180204-EI) in the Company's Mid Course Correction Schedule E4 filing? Explain in your response why or why not, discussing the impact on a typical bill for a residential customer using 1,000 kilowatt-hours of electricity.

A. Yes. The full output of the Lake Hancock project is included in the company's mid-course correction modeling and filing. However, in the net capability column on Schedule E4, the company inadvertently omitted the additional MW of solar capacity from Lake Hancock that were not included in the Second SoBRA for cost recovery.

At the time of the projection filing, the company had not proposed the Shared Solar program, so all energy from the additional solar capacity was included in the system. At the time of the mid-course filing, the company still did not have an approved Shared Solar program, and the timing and amount of subscriptions if the program is approved were not known. Therefore, all energy from the 17.5 MW_{ac} of capacity associated with the Shared Solar Program was treated as a system resource.

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- 4.** Please identify the Net Capability, Net Generation, and Net Capacity Factor for each plant that is presently identified in Tables 1 and 2 as “Future Solar.”
 - A.** Table 1 represents December 2019 data from the projection filing Schedule E4 submitted in August 2018. Table 2 provides January 2019 data from the January 2019 mid-course correction filing Schedule E4. See the tables below, which are corrected to include the inadvertently omitted additional MW of solar capacity from Lake Hancock that were not included in the Second SoBRA for cost recovery, in the Net Capability column of Schedule E4. The additional MW of solar capacity from Lake Hancock that were not included in the Second SoBRA were included in the model and resulting projected net generation amounts in both the projection filing and the mid-course filing.

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December 2019

Data Source	Plant	Net Capability (MW)	Net Generation (MWH)	Net Capacity Factor (%)
Schedule E4, Projection Filing, 24-Aug-18	TIA Solar	1.6	220	18.5
	Big Bend Solar	19.4	2,400	16.6
	Legoland Solar	1.5	150	13.4
	Balm Solar	74.4	9,970	18.0
	Payne Creek Solar	70.3	9,380	17.9
	Lithia Solar	74.5	10,040	18.1
	Grange Hall Solar	61.1	8,240	18.1
	Peace Creek Solar	55.4	7,500	18.2
	Bonnie Mine Solar	37.5	5,120	18.4
	Lake Hancock Solar	49.5	6,680	18.1
	TOTAL	445.2	59,700	18.0

Future Solar 422.7 56,930 18.1

December 2019

Source of Data	Plant	Net Capability (MW)	Net Generation (MWH)	Net Capacity Factor (%)
Schedule E4, Mid-Course Filing, 15-Jan-19	TIA Solar	1.6	220	18.5
	Big Bend Solar	19.4	2,400	16.6
	Legoland Solar	1.5	150	13.4
	Balm Solar	74.4	9,970	18.0
	Payne Creek Solar	70.3	9,380	17.9
	Lithia Solar	74.5	10,040	18.1
	Grange Hall Solar	61.1	8,240	18.1
	Peace Creek Solar	55.4	7,500	18.2
	Bonnie Mine Solar	37.5	5,120	18.4
	Lake Hancock Solar	49.5	6,680	18.1
	TOTAL	445.2	59,700	18.0

Future Solar 422.7 56,930 18.1

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January 2019

Source of Data	Plant	Net Capability (MW)	Net Generation (MWH)	Net Capacity Factor (%)
Schedule E4, Projection Filing, 24-Aug-18	TIA Solar	1.6	230	19.3
	Big Bend Solar	19.4	2,600	18.0
	Legoland Solar	1.5	170	15.2
	Balm Solar	74.4	11,010	19.9
	Payne Creek Solar	70.3	10,360	19.8
	Lithia Solar	74.5	10,650	19.2
	Grange Hall Solar	61.1	8,620	19.0
	Peace Creek Solar	55.4	7,900	19.2
	Bonnie Mine Solar	37.5	5,500	19.7
	Lake Hancock Solar	49.5	7,290	19.8
	TOTAL	445.2	64,330	19.4

Future Solar 422.7 61,330 19.5

January 2019

Source of Data	Plant	Net Capability (MW)	Net Generation (MWH)	Net Capacity Factor (%)
Schedule E4, Mid-Course Filing, 15-Jan-19	TIA Solar	1.6	230	19.3
	Big Bend Solar	19.4	2,600	18.0
	Legoland Solar	1.5	170	15.2
	Balm Solar	74.4	11,010	19.9
	Payne Creek Solar	70.3	10,360	19.8
	Lithia Solar	74.5	10,650	19.2
	Grange Hall Solar	61.1	8,620	19.0
	Peace Creek Solar	55.4	7,900	19.2
	Bonnie Mine Solar	37.5	5,500	19.7
	Lake Hancock Solar	49.5	7,290	19.8
	TOTAL	445.2	64,330	19.4

Future Solar 422.7 61,330 19.5

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- 5.** Please explain why the Net Generation (MWH) amounts that are shown in Tables 1 and 2 changed in the revised Schedule E4 filing.
 - A.** The Net Generation amounts shown in Tables 1 and 2 are different because they are for different months' projected performance. The Net Generation amounts for solar project generation from the filings in Docket Nos. 20180001-EI and 20190001-EI did not change. Table 1 shows Net Generation for December 2019 from the August 2018 projection filing whereas Table 2 shows Net Generation for January 2019 from the mid-course filing.

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- 6.** Please explain why the Net Capacity Factor values that are shown in Tables 1 and 2 changed in the revised Schedule E4 filing.
- A.** The Net Capacity Factors shown in Tables 1 and 2 are different because they are calculated for different months' performance. The capacity values expected for solar projects in the two filings in Docket Nos. 20180001-EI and 20190001-EI did not change. The additional MW of solar from Lake Hancock that are not included in the Second SoBRA for cost recovery were inadvertently omitted from the total for the Net Capability column in each filing but were included in the model and resulting Net Generation in each filing.

Correcting the total MW in the Net Capability column of Schedule E4 results in a revised Net Capacity Factor for Future Solar of 19.5 percent for January 2019, as shown in the company's response to Data Request No. 4, instead of the 20.4 percent shown in Table 2.

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- 7.** Please provide a full set of E-Schedules and revised April-December 2019 cost recovery factors prepared using the final fuel and capacity cost recovery results from 2018 only.
 - A.** See the attached E Schedules that reflect revised April-December 2019 cost recovery factors prepared using the final fuel and capacity cost recovery results from 2018 only. Only Schedules E1, E1-C, E1-D, E1-E, E2, and E10 differ from the schedules previously provided in Exhibit B to the petition. In addition, a revised Schedule E2 Supplemental, previously provided as Exhibit A to the petition, and revised capacity schedules are also attached.

E Schedules

**Recovery of 2018 Final True-up Amount Only in
Mid-Course Adjustment Fuel Factor for the
Period April 2019 – December 2019 and
Projected End-of-Period 2019 Over-/(Under-) Recovery Amount**

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**TAMPA ELECTRIC COMPANY
FUEL AND PURCHASED POWER
COST RECOVERY CLAUSE CALCULATION
ESTIMATED FOR THE PERIOD: JANUARY 2019 THROUGH DECEMBER 2019**

SCHEDULE E1

	DOLLARS	MWH	CENTS/KWH
1. Fuel Cost of System Net Generation (E3)	496,918,382	18,789,550	2.64465
2. Nuclear Fuel Disposal Cost	0	0	0.00000
3. Coal Car Investment	0	0	0.00000
4a. Big Bend Units 1-4 Igniters Conversion Project	4,462,045	18,789,550 ⁽¹⁾	0.02375
4b. Adjustment	0	0	0.00000
5. TOTAL COST OF GENERATED POWER (LINES 1 THROUGH 4b)	501,380,427	18,789,550	2.66840
6. Fuel Cost of Purchased Power - System (Exclusive of Economy)(E7)	0	0	0.00000
7. Energy Cost of Economy Purchases (E9)	34,396,960	1,589,960	2.16339
8. Demand and Non-Fuel Cost of Purchased Power	0	0	0.00000
9. Energy Payments to Qualifying Facilities (E8)	2,641,870	90,120	2.93150
10. TOTAL COST OF PURCHASED POWER (LINES 6 THROUGH 9)	37,038,830	1,680,080	2.20459
11. TOTAL AVAILABLE KWH (LINE 5 + LINE 10)		20,469,630	
12. Fuel Cost of Schedule D Sales - Jurisd. (E6)	223,760	10,330	2.16612
13. Fuel Cost of Market Based Sales - Jurisd. (E6)	285,826	11,990	2.38387
14. Gains on Sales	37,918	NA	NA
15. TOTAL FUEL COST AND GAINS OF POWER SALES	547,504	22,320	2.45297
16. Net Inadvertant Interchange		0	
17. Wheeling Received Less Wheeling Delivered		0	
18. Interchange and Wheeling Losses		524	
19. TOTAL FUEL AND NET POWER TRANSACTIONS (LINE 5+10-15+16+17-18)	537,871,753	20,446,786	2.63059
20. Net Unbilled	NA ^{(1)(a)}	NA ^(a)	NA
21. Company Use	978,579 ⁽¹⁾	37,200	0.00502
22. T & D Losses	24,389,616 ⁽¹⁾	927,154	0.12519
23. System MWH Sales	537,871,753	19,482,432	2.76080
24. Wholesale MWH Sales	0	0	0.00000
25. Jurisdictional MWH Sales	537,871,753	19,482,432	2.76080
26. Jurisdictional Loss Multiplier			1.00000
27. Jurisdictional MWH Sales Adjusted for Line Loss	537,871,753	19,482,432	2.76080
28. True-up ⁽²⁾	43,986,397	15,300,631	0.28748
29. Total Jurisdictional Fuel Cost (Excl. GPIF)	581,858,150	19,482,432	3.04828
30. Revenue Tax Factor			1.00072
31. Fuel Factor (Excl. GPIF) Adjusted for Taxes	582,277,088	19,482,432	3.05047
32. GPIF Adjusted for Taxes ⁽²⁾	(2,261,019)	19,482,432	(0.01161)
33. Fuel Factor Adjusted for Taxes Including GPIF	580,016,069	19,482,432	3.03886
34. Fuel Factor Rounded to Nearest .001 cents per KWH			3.039

^(a) Data not available at this time.

⁽¹⁾ Included For Informational Purposes Only

⁽²⁾ Calculation Based on Jurisdictional MWH Sales

TAMPA ELECTRIC COMPANY
INCENTIVE FACTOR AND TRUE-UP FACTOR
FOR THE PERIOD: APRIL 2019 THROUGH DECEMBER 2019

SCHEDULE E1-C

1. TOTAL AMOUNT OF ADJUSTMENTS			
A. GENERATING PERFORMANCE INCENTIVE REWARD / (PENALTY) (January 2019 through December 2019)		(\$2,261,019)	
B. TRUE-UP OVER / (UNDER) RECOVERED (April 2019 through December 2019)		(\$43,986,397)	
2. TOTAL SALES			
(April 2019 through December 2019)		15,300,631	MWh
(January 2019 through December 2019)		19,482,432	MWh
3. ADJUSTMENT FACTORS			
A. GENERATING PERFORMANCE INCENTIVE FACTOR (January-December)		(0.0116)	Cents/kWh
B. TRUE-UP FACTOR (April-December)		0.2875	Cents/kWh

**DETERMINATION OF FUEL RECOVERY FACTOR
TIME OF USE RATE SCHEDULES
TAMPA ELECTRIC COMPANY
ESTIMATED FOR THE PERIOD: APRIL 2019 THROUGH DECEMBER 2019**

SCHEDULE E1-D

		NET ENERGY FOR LOAD (%)	FUEL COST (%)
	ON PEAK	29.77	\$23.94
	OFF PEAK	70.23	\$22.10
		100.00	1.0833
		<u>TOTAL</u>	
		ON PEAK	OFF PEAK
1	Total Fuel & Net Power Trans (Jurisd) (Sch E1 line 25)	\$413,138,866	
2	MWH Sales (Jurisd) (Sch E1 line 25)	15,300,631	
2a	Effective MWH Sales (Jurisd)	15,279,017	
3	Cost Per KWH Sold (line 1 / line 2)	2.7001	
4	Jurisdictional Loss Factor	1.00000	
5	Jurisdictional Fuel Factor	NA	
6	True-Up (Sch E1 line 28)	\$43,986,397	
7	TOTAL (line 1 x line 4)+line 6	\$457,125,263	
8	Revenue Tax Factor	1.00072	
9	Recovery Factor (line 7 x line 8) / line 2a / 10	2.9940	
10	GPIF Factor (Sch E1-C line 3a)	(0.0111)	
11	Recovery Factor Including GPIF (line 9 + line 10)	2.9829	3.1531
12	Recovery Factor Rounded to the Nearest .001 cents/KWH	2.983	3.153
13	Hours: ON PEAK	25.48%	
14	OFF PEAK	74.52%	
		100.00%	

Metering Voltage:	Jurisdictional Sales (MWH) April - December	
	Meter	Secondary
Distribution Secondary	13,610,891	13,610,891
Distribution Primary	1,218,108	1,205,927
Transmission	471,632	462,199
Total	15,300,631	15,279,017

	Standard	On-Peak	Off-Peak
Distribution Secondary	2.983	3.153	2.911
Distribution Primary	2.953	3.121	2.882
Transmission	2.923	3.090	2.853
RS 1st Tier	2.669		
RS 2nd Tier	3.669		
Lighting	2.952		

SCHEDULE E1-E

TAMPA ELECTRIC COMPANY
FUEL COST RECOVERY FACTORS
ESTIMATED FOR THE PERIOD: APRIL 2019 THROUGH DECEMBER 2019

METERING VOLTAGE LEVEL	LEVELIZED FUEL RECOVERY FACTOR cents/kWh	FIRST TIER (Up to 1000 kWh) cents/kWh	SECOND TIER (OVER 1000 kWh) cents/kWh
STANDARD			
Distribution Secondary (RS only)		2.669	3.669
Distribution Secondary	2.983		
Distribution Primary	2.953		
Transmission	2.923		
Lighting Service ⁽¹⁾	2.952		
TIME-OF-USE			
Distribution Secondary - On-Peak	3.153		
Distribution Secondary - Off-Peak	2.911		
Distribution Primary - On-Peak	3.121		
Distribution Primary - Off-Peak	2.882		
Transmission - On-Peak	3.090		
Transmission - Off-Peak	2.853		

(1) Lighting service is based on distribution secondary, 17% on-peak and 83% off-peak

TAMPA ELECTRIC COMPANY
 FUEL AND PURCHASED POWER COST RECOVERY CLAUSE CALCULATION
 ESTIMATED FOR THE PERIOD: JANUARY 2019 THROUGH DECEMBER 2019

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)
	Jan-19	Feb-19	Mar-19	Apr-19	May-19	ESTIMATED Jun-19	ESTIMATED Jul-19	ESTIMATED Aug-19	ESTIMATED Sep-19	ESTIMATED Oct-19	ESTIMATED Nov-19	ESTIMATED Dec-19	TOTAL PERIOD
1. Fuel Cost of System Net Generation	41,958,073	36,073,386	40,155,844	35,953,752	42,124,305	44,821,262	47,004,083	48,260,417	43,681,292	40,877,758	35,599,897	40,408,313	496,918,382
2. Nuclear Fuel Disposal	0	0	0	0	0	0	0	0	0	0	0	0	0
3. Fuel Cost of Power Sold ⁽¹⁾	51,654	40,748	48,694	47,717	43,810	45,172	45,859	52,038	45,983	45,746	33,305	46,778	547,504
4. Fuel Cost of Purchased Power	0	0	0	0	0	0	0	0	0	0	0	0	0
5. Demand and Non-Fuel Cost of Purchased Power	0	0	0	0	0	0	0	0	0	0	0	0	0
6. Payments to Qualifying Facilities	290,630	236,240	189,240	163,260	224,660	187,380	226,500	266,490	188,810	248,690	225,080	194,890	2,641,870
7. Energy Cost of Economy Purchases	1,297,380	1,673,580	1,854,620	2,778,930	2,403,530	3,663,800	4,230,490	3,928,210	4,022,310	3,520,280	2,787,990	2,235,840	34,396,960
8. Big Bend Units 1-4 Igniters Conversion Project	383,847	381,864	379,479	377,296	375,113	372,930	370,745	368,562	366,378	364,194	362,010	359,827	4,462,045
9. Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0
10. TOTAL FUEL & NET POWER TRANSACTIONS	43,878,276	38,324,122	42,530,489	39,225,521	45,083,798	49,000,200	51,785,959	52,771,641	48,212,807	44,965,176	38,941,672	43,152,092	537,871,753
11. Jurisdictional MWh Sold	1,499,964	1,343,529	1,338,308	1,424,660	1,566,247	1,825,998	1,906,515	1,897,443	1,960,452	1,781,369	1,486,481	1,451,466	19,482,432
12. Jurisdictional % of Total Sales	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	
13. Jurisdictional Total Fuel & Net Power Transactions (Line 10 * Line 12)	43,878,276	38,324,122	42,530,489	39,225,521	45,083,798	49,000,200	51,785,959	52,771,641	48,212,807	44,965,176	38,941,672	43,152,092	537,871,753
14. Jurisdictional Loss Multiplier	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	
15. JURISD. TOTAL FUEL & NET PWR. TRANS. Adjusted for Line Losses (Line 13 * Line 14)	43,878,276	38,324,122	42,530,489	39,225,521	45,083,798	49,000,200	51,785,959	52,771,641	48,212,807	44,965,176	38,941,672	43,152,092	537,871,753
16. Cost Per kWh Sold (Cents/kWh)	2.9253	2.8525	3.1779	2.7533	2.8785	2.6835	2.7163	2.7812	2.4593	2.5242	2.6197	2.9730	2.7608
17. True-up (Cents/kWh) ⁽²⁾	(0.0360)	(0.0360)	(0.0360)	0.2875	0.2875	0.2875	0.2875	0.2875	0.2875	0.2875	0.2875	0.2875	0.2875
18. Total (Cents/kWh) (Line 16+17)	2.8893	2.8165	3.1419	3.0408	3.1660	2.9710	3.0038	3.0687	2.7468	2.8117	2.9072	3.2605	3.0483
19. Revenue Tax Factor	1.00072	1.00072	1.00072	1.00072	1.00072	1.00072	1.00072	1.00072	1.00072	1.00072	1.00072	1.00072	1.00072
20. Recovery Factor Adjusted for Taxes (Cents/kWh) (Excluding GPIF)	2.8914	2.8185	3.1442	3.0430	3.1683	2.9731	3.0060	3.0709	2.7488	2.8137	2.9093	3.2628	3.0505
21. GPIF Adjusted for Taxes (Cents/kWh) ⁽²⁾	(0.0116)	(0.0116)	(0.0116)	(0.0116)	(0.0116)	(0.0116)	(0.0116)	(0.0116)	(0.0116)	(0.0116)	(0.0116)	(0.0116)	(0.0116)
22. TOTAL RECOVERY FACTOR (LINE 20+21)	2.8798	2.8069	3.1326	3.0314	3.1567	2.9615	2.9944	3.0593	2.7372	2.8021	2.8977	3.2512	3.0389
23. RECOVERY FACTOR ROUNDED TO NEAREST 0.001 CENTS/KWH	2.880	2.807	3.133	3.031	3.157	2.962	2.994	3.059	2.737	2.802	2.898	3.251	3.039

⁽¹⁾ Includes Gains

⁽²⁾ Based on Jurisdictional Sales Only

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TAMPA ELECTRIC COMPANY
 CALCULATION OF TRUE-UP AND INTEREST PROVISION
 ESTIMATED FOR THE PERIOD: JANUARY 2019 THROUGH DECEMBER 2019

SCHEDULE E2
 SUPPLEMENTAL
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	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	TOTAL
A. Fuel Cost and Net Power Transactions													
1. Fuel Cost of System Net Generation	55,450,306	46,332,675	49,739,014	44,924,422	48,860,560	48,145,031	52,050,700	52,186,875	48,288,859	43,274,434	40,603,623	44,322,631	574,179,130
1a. Fuel Related R&D and Demo. Cost	0	0	0	0	0	0	0	0	0	0	0	0	0
2. Fuel Cost of Power Sold ⁽¹⁾	81,474	65,692	73,540	68,936	66,229	70,352	57,555	67,392	55,072	69,754	43,415	64,079	783,490
3. Fuel Cost of Purchased Power	0	0	0	0	0	0	0	0	0	0	0	0	0
3a. Demand and Non-Fuel Cost of Purchased Power	0	0	0	0	0	0	0	0	0	0	0	0	0
3b. Payments to Qualifying Facilities	290,630	236,240	189,240	163,260	224,660	187,380	226,500	266,490	188,810	248,690	225,080	194,890	2,641,870
4. Energy Cost of Economy Purchases	102,520	492,910	796,830	593,710	575,020	5,716,820	5,713,760	5,516,000	5,572,520	5,974,220	823,900	1,008,830	32,887,040
5. Total Fuel and Net Power Transactions	55,761,982	46,996,133	50,651,544	45,612,456	49,594,011	53,978,879	57,933,405	57,901,973	53,995,117	49,427,590	41,609,188	45,462,272	608,924,550
6. Adj. Big Bend Units 1-4 Igniters Conversion Project	383,847	381,664	379,479	377,296	375,113	372,930	370,745	368,562	366,378	364,194	362,010	359,827	4,462,045
6a. Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0
7. ADJUSTED TOTAL FUEL AND NET POWER TRANSACTIONS	<u>56,145,829</u>	<u>47,377,797</u>	<u>51,031,023</u>	<u>45,989,752</u>	<u>49,969,124</u>	<u>54,351,809</u>	<u>58,304,150</u>	<u>58,270,535</u>	<u>54,361,495</u>	<u>49,791,784</u>	<u>41,971,198</u>	<u>45,822,099</u>	<u>613,386,595</u>
B. MWh Sales													
1. Jurisdictional Sales	1,499,964	1,343,529	1,338,308	1,424,660	1,566,247	1,825,998	1,906,515	1,897,443	1,960,452	1,781,369	1,486,481	1,451,466	19,482,432
2. Non-Jurisdictional Sales	0	0	0	0	0	0	0	0	0	0	0	0	0
3. TOTAL SALES	1,499,964	1,343,529	1,338,308	1,424,660	1,566,247	1,825,998	1,906,515	1,897,443	1,960,452	1,781,369	1,486,481	1,451,466	19,482,432
4. Jurisdictional % of Total Sales	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	

⁽¹⁾ Includes Gains

TAMPA ELECTRIC COMPANY
 CALCULATION OF TRUE-UP AND INTEREST PROVISION
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SCHEDULE E2
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	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	TOTAL
C. True-Up Calculation													
1. Jurisdictional Fuel Revenue	40,334,459	35,773,497	35,513,669	41,815,921	46,454,513	54,965,838	57,671,218	57,356,332	59,329,246	53,176,456	43,599,396	42,460,534	568,451,079
2. Adjustment to Fuel Revenue	0	0	0	0	0	0	0	0	0	0	0	0	0
2a. True-up Provision	584,624	584,624	584,624	0	0	0	0	0	0	0	0	0	1,753,872
2b. Incentive Provision	188,418	188,418	188,418	188,418	188,418	188,418	188,418	188,418	188,418	188,418	188,418	188,421	2,261,019
2c. Mid-Course True Up	0	0	0	(4,887,377)	(4,887,377)	(4,887,377)	(4,887,377)	(4,887,377)	(4,887,377)	(4,887,377)	(4,887,377)	(4,887,377)	(43,986,397)
3. JURISD. FUEL REVENUE APPLICABLE TO PERIOD	41,107,501	36,546,539	36,286,711	37,116,962	41,755,554	50,266,879	52,972,259	52,657,373	54,630,287	48,477,497	38,900,437	37,761,578	528,479,573
4. Adjusted Total Fuel and Net Power Transactions (Line A7)	56,145,829	47,377,797	51,031,023	45,989,752	49,969,124	54,351,809	58,304,150	58,270,535	54,361,495	49,791,784	41,971,198	45,822,099	613,386,595
5. Jurisdictional % of Total Sales (Line B4)	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	-
6. Jurisdictional Total Fuel and Net Power Transactions	56,145,829	47,377,797	51,031,023	45,989,752	49,969,124	54,351,809	58,304,150	58,270,535	54,361,495	49,791,784	41,971,198	45,822,099	613,386,595
6a. Jurisdictional Loss Multiplier	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	-
6b. JURISD. TOTAL FUEL & NET POWER TRANSACTIONS Adjusted for Line Losses	56,145,829	47,377,797	51,031,023	45,989,752	49,969,124	54,351,809	58,304,150	58,270,535	54,361,495	49,791,784	41,971,198	45,822,099	613,386,595
7. True-up Provision for Month +/- Collected (Line 3-6b-6b)	(15,038,328)	(10,831,258)	(14,744,312)	(8,872,790)	(8,213,570)	(4,084,930)	(5,331,891)	(5,613,162)	268,792	(1,314,287)	(3,070,761)	(8,060,521)	(84,907,022)
8. Interest Provision for the Month	(95,386)	(131,394)	(168,967)	(201,049)	(210,537)	(214,159)	(214,245)	(216,212)	(219,884)	(218,265)	(211,653)	(214,029)	(2,315,780)
9. True-up and Interest Provision Beginning of Month (Schedule E1-A, Line 1)	(36,970,912)	(52,689,250)	(64,236,526)	(79,734,429)	(83,920,891)	(87,457,621)	(86,869,333)	(87,528,092)	(88,470,089)	(83,533,804)	(80,178,979)	(78,574,016)	
10. True-up Collected (Refunded)	(584,624)	(584,624)	(584,624)	4,887,377	4,887,377	4,887,377	4,887,377	4,887,377	4,887,377	4,887,377	4,887,377	4,887,377	42,232,525
11. END OF PERIOD TOTAL NET TRUE-UP	(52,689,250)	(64,236,526)	(79,734,429)	(83,920,891)	(87,457,621)	(86,869,333)	(87,528,092)	(88,470,089)	(83,533,804)	(80,178,979)	(78,574,016)	(81,961,189)	

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 CALCULATION OF TRUE-UP AND INTEREST PROVISION
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SCHEDULE E2
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	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	TOTAL
D. Interest Provision													
1. Beginning True-up Amount	(36,970,912)	(52,689,250)	(64,236,526)	(79,734,429)	(83,920,891)	(87,457,621)	(86,869,333)	(87,528,092)	(88,470,089)	(83,533,804)	(80,178,979)	(78,574,016)	
2. Ending True-up Amount Before Interest	<u>(52,593,864)</u>	<u>(64,105,132)</u>	<u>(79,565,462)</u>	<u>(83,719,842)</u>	<u>(87,247,084)</u>	<u>(86,655,174)</u>	<u>(87,313,847)</u>	<u>(88,253,877)</u>	<u>(83,313,920)</u>	<u>(79,960,714)</u>	<u>(78,362,363)</u>	<u>(81,747,160)</u>	
3. Total Beginning and Ending True-up Amount	(89,564,776)	(116,794,382)	(143,801,988)	(163,454,271)	(171,167,975)	(174,112,795)	(174,183,180)	(175,781,969)	(171,784,009)	(163,494,518)	(158,541,342)	(160,321,176)	
4. Average True-up Amount	(44,782,388)	(58,397,191)	(71,900,994)	(81,727,136)	(85,583,988)	(87,056,398)	(87,091,590)	(87,890,985)	(85,892,005)	(81,747,259)	(79,270,671)	(80,160,588)	
5. Interest Rate @ First Day of Month	2.420	2.700	2.700	2.950	2.950	2.950	2.950	2.950	2.950	3.200	3.200	3.200	
6. Interest Rate @ Last Day of Month	<u>2.700</u>	<u>2.700</u>	<u>2.950</u>	<u>2.950</u>	<u>2.950</u>	<u>2.950</u>	<u>2.950</u>	<u>2.950</u>	<u>3.200</u>	<u>3.200</u>	<u>3.200</u>	<u>3.200</u>	
7. Total Beginning and Ending Interest Rate	5.120	5.400	5.650	5.900	5.900	5.900	5.900	5.900	6.150	6.400	6.400	6.400	
8. Average Interest Rate	2.560	2.700	2.825	2.950	2.950	2.950	2.950	2.950	3.075	3.200	3.200	3.200	
9. Monthly Average Interest Rate	0.213	0.225	0.235	0.246	0.246	0.246	0.246	0.246	0.256	0.267	0.267	0.267	
10. Interest Provision	<u>(95,386)</u>	<u>(131,394)</u>	<u>(168,967)</u>	<u>(201,049)</u>	<u>(210,537)</u>	<u>(214,159)</u>	<u>(214,245)</u>	<u>(216,212)</u>	<u>(219,884)</u>	<u>(218,265)</u>	<u>(211,653)</u>	<u>(214,029)</u>	<u>(2,315,780)</u>

SCHEDULE E10

TAMPA ELECTRIC COMPANY
 RESIDENTIAL BILL COMPARISON
 FOR MONTHLY USAGE OF 1,000 KWH

	Current	Projected	Difference	
	Jan 19 - Mar 19	Apr 19 - Dec 19	\$	%
Base Rate Revenue	66.53	66.53	0.00	0.0%
Fuel Recovery Revenue	24.05	26.69	2.64	11.0%
Conservation Revenue	3.21	3.21	0.00	0.0%
Capacity Revenue	1.03	1.28	0.25	24.3%
Environmental Revenue	2.22	2.22	0.00	0.0%
Florida Gross Receipts Tax Revenue	2.49	2.56	0.07	2.8%
TOTAL REVENUE	\$99.53	\$102.49	\$2.96	3.0%

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Capacity Schedules

Recovery of 2018 Final True-up Amount Only in
Mid-Course Adjustment Capacity Factor for the
Period April 2019 – December 2019 and
Projected End-of-Period 2019 Over-/ (Under-) Recovery Amount

**TAMPA ELECTRIC COMPANY
CAPACITY COST RECOVERY CLAUSE
CALCULATION OF ENERGY & DEMAND ALLOCATION BY RATE CLASS
APRIL 2019 THROUGH DECEMBER 2019
PROJECTED**

RATE CLASS	(1) AVG 12 CP LOAD FACTOR AT METER (%)	(2) PROJECTED SALES AT METER (MWH)	(3) PROJECTED AVG 12 CP AT METER (MW)	(4) DEMAND LOSS EXPANSION FACTOR	(5) ENERGY LOSS EXPANSION FACTOR	(6) PROJECTED SALES AT GENERATION (MWH)	(7) PROJECTED AVG 12 CP AT GENERATION (MW)	(8) PERCENTAGE OF SALES AT GENERATION (%)	(9) PERCENTAGE OF DEMAND AT GENERATION (%)	(10) 12 CP & 1/13 AVG DEMAND FACTOR (%)
RS,RSVP	53.88%	7,498,454	1,988	1.08036	1.05201	7,888,428	2,148	49.14%	57.04%	56.43%
GS, CS	65.19%	745,725	167	1.08036	1.05199	784,496	181	4.89%	4.81%	4.82%
GSD Optional	3.72%	311,474	60	1.07581	1.04842	326,555	65	2.03%	1.73%	1.75%
GSD, SBF	72.02%	6,042,361	1,171	1.07581	1.04842	6,334,921	1,260	39.46%	33.47%	33.93%
IS,SBI	90.33%	574,933	101	1.02952	1.01769	585,104	104	3.64%	2.76%	2.83%
LS1	305.67%	127,684	6	1.08036	1.05201	134,324	7	0.84%	0.19%	0.24%
TOTAL		15,300,631	3,494			16,053,828	3,765	100.00%	100.00%	100.00%

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- (1) AVG 12 CP load factor based on 2018 projected calendar data.
 - (2) Projected MWH sales for the period April 2019 thru December 2019.
 - (3) Based on 12 months average CP at meter.
 - (4) Based on 2018 projected demand losses.
 - (5) Based on 2018 projected energy losses.
 - (6) Col (2) * Col (5).
 - (7) Col (3) * Col (4).
 - (8) Based on 12 months average percentage of sales at generation.
 - (9) Based on 12 months average percentage of demand at generation.
 - (10) Col (8) * 0.0769 + Col (9) * 0.9231

**TAMPA ELECTRIC COMPANY
CAPACITY COST RECOVERY CLAUSE
CALCULATION OF ENERGY & DEMAND ALLOCATION BY RATE CLASS
JANUARY 2019 THROUGH DECEMBER 2019
PROJECTED**

	January	February	March	April	May	June	July	August	September	October	November	December	Total
1 UNIT POWER CAPACITY CHARGES	1,126,500	1,126,500	1,126,500	751,000	2,112,500	2,112,500	2,112,500	2,112,500	2,112,500	2,112,500	0	0	16,805,500
2 CAPACITY PAYMENTS TO COGENERATORS	0	0	0	0	0	0	0	0	0	0	0	0	0
3 (UNIT POWER CAPACITY REVENUES)	(206,501)	(206,501)	(206,501)	(206,501)	(206,501)	(206,501)	(206,501)	(206,501)	(206,501)	(206,501)	(206,501)	(206,502)	(2,478,013)
4 TOTAL CAPACITY DOLLARS	\$919,999	\$919,999	\$919,999	\$544,499	\$1,905,999	\$1,905,999	\$1,905,999	\$1,905,999	\$1,905,999	\$1,905,999	(\$206,501)	(\$206,502)	\$14,327,487
5 SEPARATION FACTOR	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	
6 JURISDICTIONAL CAPACITY DOLLARS	\$919,999	\$919,999	\$919,999	\$544,499	\$1,905,999	\$1,905,999	\$1,905,999	\$1,905,999	\$1,905,999	\$1,905,999	(\$206,501)	(\$206,502)	\$14,327,487
7 ACTUAL 2018 FINAL TRUE-UP FOR THE PERIOD ENDING DECEMBER 2018													<u>2,673,898</u>
8 TOTAL													\$17,001,385
9 REVENUE TAX FACTOR													1.00072
10 TOTAL RECOVERABLE CAPACITY DOLLARS													<u>\$17,013,626</u>

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**TAMPA ELECTRIC COMPANY
CAPACITY COST RECOVERY CLAUSE
CALCULATION OF ENERGY & DEMAND ALLOCATION BY RATE CLASS
APRIL 2019 THROUGH DECEMBER 2019
PROJECTED**

RATE CLASS	(1) PERCENTAGE OF SALES AT GENERATION (%)	(2) PERCENTAGE OF DEMAND AT GENERATION (%)	(3) ENERGY RELATED COSTS (\$)	(4) DEMAND RELATED COSTS (\$)	(5) TOTAL CAPACITY COSTS (\$)	(6) PROJECTED SALES AT METER (MWH)	(7) EFFECTIVE AT SECONDARY LEVEL (MWH)	(8) BILLING KW LOAD FACTOR (%)	(9) PROJECTED BILLED KW AT METER (kw)	(10) CAPACITY RECOVERY FACTOR (\$/kw)	(11) CAPACITY RECOVERY FACTOR (\$/kwh)
RS	49.14%	57.04%	642,923	8,958,290	9,601,213	7,498,454	7,498,454				0.00128
GS, CS	4.89%	4.81%	63,978	755,424	819,402	745,725	745,725				0.00110
GSD, SBF											
Secondary						4,937,500	4,937,500			0.42	
Primary						1,097,318	1,086,345			0.42	
Transmission						7,543	7,392			0.41	
GSD, SBF - Standard	39.46%	33.47%	516,274	5,256,557	5,772,831	6,042,361	6,031,237	59.85%	13,804,012		
GSD - Optional	2.03%	1.73%	26,559	271,701	298,260						
Secondary						301,528	301,528				0.00096
Primary						9,946	9,847				0.00095
Transmission						0	0				0.00094
IS, SBI											
Primary						110,844	109,736			0.33	
Transmission						464,089	454,807			0.32	
Total IS, SBI	3.64%	2.76%	47,624	433,466	481,090	574,933	564,543	52.51%	1,472,689		
LS1	0.84%	0.19%	10,990	29,840	40,830	127,684	127,684				0.00032
TOTAL	100.00%	100.00%	1,308,348	15,705,278	17,013,626	15,300,631	15,279,018				0.00111

- (1) Obtained from page 1.
(2) Obtained from page 1.
(3) Total capacity costs * 0.0769 * Col (1).
(4) Total capacity costs * 0.9231 * Col (2).
(5) Col (3) + Col (4).
(6) Projected kWh sales for the period April 2019 through December 2019.
(7) Projected kWh sales at secondary for the period April 2019 through December 2019.
(8) Col 7 / (Col 9 * 730) * 1000
(9) Projected kw demand for the period April 2019 through December 2019.
(10) Total Col (5) / Total Col (9).
(11) {Col (5) / Total Col (7)} / 1000.

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TAMPA ELECTRIC COMPANY
CAPACITY COST RECOVERY CLAUSE
CALCULATION OF ESTIMATED TRUE-UP AMOUNT
JANUARY 2019 THROUGH DECEMBER 2019

	Estimated Jan-19	Estimated Feb-19	Estimated Mar-19	Estimated Apr-19	Estimated May-19	Estimated Jun-19	Estimated Jul-19	Estimated Aug-19	Estimated Sep-19	Estimated Oct-19	Estimated Nov-19	Estimated Dec-19	Estimated Total
1 UNIT POWER CAPACITY CHARGES	0	0	0	0	0	0	0	0	0	0	0	0	0
2 CAPACITY PAYMENTS TO COGENERATORS	0	0	0	0	0	0	0	0	0	0	0	0	0
3 (UNIT POWER CAPACITY REVENUES)	(206,501)	(206,501)	(206,501)	(206,501)	(206,501)	(206,501)	(206,501)	(206,501)	(206,501)	(206,501)	(206,501)	(206,502)	(2,478,013)
4 TOTAL CAPACITY DOLLARS	(206,501)	(206,501)	(206,501)	(206,501)	(206,501)	(206,501)	(206,501)	(206,501)	(206,501)	(206,501)	(206,501)	(206,502)	(2,478,013)
5 SEPARATION FACTOR	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	1.0000000	
6 JURISDICTIONAL CAPACITY DOLLARS	(206,501)	(206,501)	(206,501)	(206,501)	(206,501)	(206,501)	(206,501)	(206,501)	(206,501)	(206,501)	(206,501)	(206,502)	(2,478,013)
7 CAPACITY COST RECOVERY REVENUES (Net of Revenue Taxes)	1,311,970	1,204,416	1,184,132	1,581,916	1,740,482	2,033,227	2,116,902	2,109,153	2,167,302	1,984,200	1,661,342	1,622,257	20,717,299
8 PRIOR PERIOD TRUE-UP PROVISION	(232,082)	(232,082)	(232,082)	-	-	-	-	-	-	-	-	-	(696,246)
8a MID-COURSE TRUE-UP PROVISION	-	-	-	(297,100)	(297,100)	(297,100)	(297,100)	(297,100)	(297,100)	(297,100)	(297,100)	(297,098)	(2,673,898)
9 CAPACITY COST RECOVERY REVENUES APPLICABLE TO CURRENT PERIOD (Net of Revenue Taxes)	1,079,888	972,334	952,050	1,284,816	1,443,382	1,736,127	1,819,802	1,812,053	1,870,202	1,687,100	1,364,242	1,325,159	17,347,155
10 TRUE-UP PROVISION FOR MONTH OVER/(UNDER) RECOVERY (Line 9 - Line 6)	1,286,389	1,178,835	1,158,551	1,491,317	1,649,883	1,942,628	2,026,303	2,018,554	2,076,703	1,893,601	1,570,743	1,531,661	19,825,168
11 INTEREST PROVISION FOR MONTH	(10,010)	(7,301)	(4,351)	(655)	3,938	9,097	14,732	20,474	27,362	34,704	40,215	45,257	173,462
12 ADJUSTMENT	0	0	0	0	0	0	0	0	0	0	0	0	0
13 TRUE-UP AND INT. PROVISION BEGINNING OF MONTH - OVER/(UNDER) RECOVERY (Actual ending December 2018)	(5,458,886)	(3,950,425)	(2,546,809)	(1,160,527)	627,235	2,578,156	4,826,981	7,165,116	9,501,244	11,902,409	14,127,814	16,035,872	(5,458,886)
14 PRIOR PERIOD TRUE-UP PROVISION COLLECTED/(REFUNDED) THIS MONTH	232,082	232,082	232,082	297,100	297,100	297,100	297,100	297,100	297,100	297,100	297,100	297,098	3,370,144
15 END OF PERIOD TRUE-UP - OVER/(UNDER) RECOVERY (SUM OF LINES 10 - 14)	(3,950,425)	(2,546,809)	(1,160,527)	627,235	2,578,156	4,826,981	7,165,116	9,501,244	11,902,409	14,127,814	16,035,872	17,909,888	17,909,888

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CALCULATION OF ESTIMATED TRUE-UP AMOUNT
JANUARY 2019 THROUGH DECEMBER 2019

	Estimated Jan-19	Estimated Feb-19	Estimated Mar-19	Estimated Apr-19	Estimated May-19	Estimated Jun-19	Estimated Jul-19	Estimated Aug-19	Estimated Sep-19	Estimated Oct-19	Estimated Nov-19	Estimated Dec-19	Total
1 BEGINNING TRUE-UP AMOUNT	(5,458,886)	(3,950,425)	(2,546,809)	(1,160,527)	627,235	2,578,156	4,826,981	7,165,116	9,501,244	11,902,409	14,127,814	16,035,872	(5,458,886)
2 ENDING TRUE-UP AMOUNT BEFORE INTEREST	(3,940,415)	(2,539,508)	(1,156,176)	627,890	2,574,218	4,817,884	7,150,384	9,480,770	11,875,047	14,093,110	15,995,657	17,864,631	17,736,426
3 TOTAL BEGINNING & ENDING TRUE-UP AMT. (LINE 1 + LINE 2)	(9,399,301)	(6,489,933)	(3,702,985)	(532,637)	3,201,453	7,396,040	11,977,365	16,645,886	21,376,291	25,995,519	30,123,471	33,900,503	12,277,540
4 AVERAGE TRUE-UP AMOUNT (50% OF LINE 3)	(4,699,651)	(3,244,967)	(1,851,493)	(266,319)	1,600,726	3,698,020	5,988,682	8,322,943	10,688,145	12,997,759	15,061,735	16,950,251	6,138,770
5 INTEREST RATE % - 1ST DAY OF MONTH	2.420	2.700	2.700	2.950	2.950	2.950	2.950	2.950	2.950	3.200	3.200	3.200	NA
6 INTEREST RATE % - 1ST DAY OF NEXT MONTH	2.700	2.700	2.950	2.950	2.950	2.950	2.950	2.950	3.200	3.200	3.200	3.200	NA
7 TOTAL (LINE 5 + LINE 6)	5.120	5.400	5.650	5.900	5.900	5.900	5.900	5.900	6.150	6.400	6.400	6.400	NA
8 AVERAGE INTEREST RATE % (50% OF LINE 7)	2.560	2.700	2.825	2.950	2.950	2.950	2.950	2.950	3.075	3.200	3.200	3.200	NA
9 MONTHLY AVERAGE INTEREST RATE % (LINE 8/12)	0.213	0.225	0.235	0.246	0.246	0.246	0.246	0.246	0.256	0.267	0.267	0.267	NA
10 INTEREST PROVISION (LINE 4 X LINE 9)	(10,010)	(7,301)	(4,351)	(655)	3,938	9,097	14,732	20,474	27,362	34,704	40,215	45,257	173,462