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August 13, 2020

VIA: ELECTRONIC FILING

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

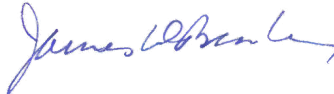
Re: Tampa Electric Company's 2020 Ten-Year Site Plan

Dear Mr. Teitzman:

At Staff's request, we attach a revised TYSP Schedule 8.1 for substitution in place of Schedule 8.1 contained in our April 1, 2020 initial filing. This revised filing is submitted in response to Staff's request for an updated Schedule 8.1 reflecting the summer and winter net capabilities of each of the solar generation additions in the schedule.

Thank you for your assistance in connection with this matter.

Sincerely,



James D. Beasley

JDB/bmp
Attachment

cc: Douglas Wright
Donald Phillips

Schedule 8.1 (Revised)
Planned and Prospective Generating Facility Additions and Changes

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
Plant Name	Unit No.	Location	Unit Type	Fuel Primary	Fuel Alternate	Fuel Primary	Fuel Alternate	Const. Start Mo/Yr	Commercial In-Service Mo/Yr	Expected Retirement Mo/Yr	Gen. Max. Nameplate kW	Firm Net Capacity Summer MW	Firm Net Capacity Winter MW	Status

2020														
Little Manatee River Solar ¹	1	Hillsborough	PV	SOLAR	NA	NA	NA	-	2/20	*	74,500	38.5	-	V
Wimauma Solar ¹	1	Hillsborough	PV	SOLAR	NA	NA	NA	-	4/20	*	74,800	42.6	-	V
Big Bend ST1 Modernization Outage	1	Big Bend	ST	BIT	NG	WA/RR	PL	**	1/23	*	445,500	(385.0)	(395.0)	OT
2020 Changes and Additions:														

2021														
Durance ¹	1	Polk	PV	SOLAR	NA	NA	NA	-	01/21	*	60,000	34.8	-	P
Mountain View Solar ¹	1	Pasco	PV	SOLAR	NA	NA	NA	-	12/21	*	52,500	29.6	-	P
Future Solar 1 ¹	1	Unknown	PV	SOLAR	NA	NA	NA	-	12/21	*	25,000	14.0	-	P
Future Solar 2 ¹	1	Unknown	PV	SOLAR	NA	NA	NA	-	12/21	*	70,000	39.1	-	P
Big Bend CT 5 ²	5M	Big Bend	GT	NG	NA	PL	NA	08/19	11/21	*	397,800	360.0	392.0	P
Big Bend CT 6 ²	6M	Big Bend	GT	NG	NA	PL	NA	08/19	11/21	*	397,800	360.0	392.0	P
Reciprocating Engine	1	Unknown	IC	NG	NA	PL	NA	-	12/21	*	18,500	18.5	18.5	P
Reciprocating Engine	2	Unknown	IC	NG	NA	PL	NA	-	12/21	*	18,500	18.5	18.5	P
Reciprocating Engine	3	Unknown	IC	NG	NA	PL	NA	-	12/21	*	18,500	18.5	18.5	P
Reciprocating Engine	4	Unknown	IC	NG	NA	PL	NA	-	12/21	*	18,500	18.5	18.5	P
Reciprocating Engine	5	Unknown	IC	NG	NA	PL	NA	-	12/21	*	18,500	18.5	18.5	P
Big Bend 2 Retirement	2	Big Bend	ST	BIT	NG	WA/RR	PL	-	04/73	11/21	445,500	(385.0)	(395.0)	RT
Solar Degradation ³	N/A											(1.2)	-	
2021 Changes and Additions:														

2022														
Battery Storage	1	Unknown	BA	N/A	N/A	N/A	N/A	-	01/22	*	10,000	10.0	10.0	P
Battery Storage	2	Unknown	BA	N/A	N/A	N/A	N/A	-	01/22	*	10,000	10.0	10.0	P
Battery Storage	3	Unknown	BA	N/A	N/A	N/A	N/A	-	01/22	*	10,000	10.0	10.0	P
Future Solar 3 ¹	1	Unknown	PV	SOLAR	NA	NA	NA	-	12/22	*	74,500	41.6	-	P
Future Solar 4 ¹	1	Unknown	PV	SOLAR	NA	NA	NA	-	12/22	*	74,500	41.6	-	P
Future Solar 5 ¹	1	Unknown	PV	SOLAR	NA	NA	NA	-	12/22	*	74,500	41.6	-	P
Solar Degradation ³	N/A											(1.4)	-	
2022 Changes and Additions:														

2023														
Big Bend ST 1	1M	Big Bend	ST	NG	NA	PL	NA	04/20	01/23	*	445,500	335.0	335.0	P
Bayside 1 Enhancement	1	Bayside	CC	NG	NA	PL	NA	-	01/23	*	50,000	47.0	50.0	P
Future Solar 6 ¹	1	Unknown	PV	SOLAR	NA	NA	NA	-	12/23	*	74,500	41.6	-	P
Future Solar 7 ¹	1	Unknown	PV	SOLAR	NA	NA	NA	-	12/23	*	74,500	41.6	-	P
Future Solar 8 ¹	1	Unknown	PV	SOLAR	NA	NA	NA	-	12/23	*	74,500	41.6	-	P
Solar Degradation ³	N/A											(1.7)	-	
2023 Changes and Additions:														

2024														
Bayside 2 Enhancement	2	Bayside	CC	NG	NA	PL	NA	-	01/24	*	66,000	62.0	66.0	P
Solar Degradation ³	N/A											(2.2)	-	
2024 Changes and Additions:														

2025	Reciprocating Engine	6	Unknown	IC	NG	NA	PL	NA	-	1/25	*	18,500	18.5	18.5	P		
	Battery Storage	4	Unknown	BA	N/A	N/A	N/A	N/A	-	1/25	*	10,000	62.0	66.0	P		
	Solar Degradation ³	N/A											(2.4)	-			
	2025 Changes and Additions:													78.1	64.5		
2026	Battery Storage	5	Unknown	BA	N/A	N/A	N/A	N/A	-	1/26	*	10,000	10.0	10.0	P		
	Battery Storage	6	Unknown	BA	N/A	N/A	N/A	N/A	-	1/26	*	10,000	10.0	10.0	P		
	Battery Storage	7	Unknown	BA	N/A	N/A	N/A	N/A	-	1/26	*	10,000	10.0	10.0	P		
	Battery Storage	8	Unknown	BA	N/A	N/A	N/A	N/A	-	1/26	*	10,000	10.0	10.0	P		
	Battery Storage	9	Unknown	BA	N/A	N/A	N/A	N/A	-	1/26	*	10,000	10.0	10.0	P		
	Battery Storage	10	Unknown	BA	N/A	N/A	N/A	N/A	-	1/26	*	10,000	62.0	66.0	P		
	Solar Degradation ³	N/A											(2.4)	-			
		2026 Changes and Additions:													109.6	116.0	
	2027	Reciprocating Engine	7	Unknown	IC	NG	NA	PL	NA	-	1/27	*	18,500	18.5	18.5	P	
		Reciprocating Engine	8	Unknown	IC	NG	NA	PL	NA	-	1/27	*	18,500	18.5	18.5	P	
Reciprocating Engine		9	Unknown	IC	NG	NA	PL	NA	-	1/27	*	18,500	18.5	18.5	P		
Reciprocating Engine		10	Unknown	IC	NG	NA	PL	NA	-	1/27	*	18,500	62.0	66.0	P		
Solar Degradation ³		N/A											(2.4)	-			
		2027 Changes and Additions:													115.1	121.5	
2028	Battery Storage	11	Unknown	BA	N/A	N/A	N/A	N/A	-	1/28	*	10,000	10.0	10.0	P		
	Battery Storage	12	Unknown	BA	N/A	N/A	N/A	N/A	-	1/28	*	10,000	10.0	10.0	P		
	Battery Storage	13	Unknown	BA	N/A	N/A	N/A	N/A	-	1/28	*	10,000	10.0	10.0	P		
	Battery Storage	14	Unknown	BA	N/A	N/A	N/A	N/A	-	1/28	*	10,000	10.0	10.0	P		
	Battery Storage	15	Unknown	BA	N/A	N/A	N/A	N/A	-	1/28	*	10,000	10.0	10.0	P		
	Battery Storage	16	Unknown	BA	N/A	N/A	N/A	N/A	-	1/28	*	10,000	62.0	66.0	P		
Solar Degradation ³	N/A											(2.4)	-				
	2028 Changes and Additions:													109.6	116.0		
2029	Battery Storage	17	Unknown	BA	N/A	N/A	N/A	N/A	-	1/29	*	10,000	10.0	10.0	P		
	Battery Storage	18	Unknown	BA	N/A	N/A	N/A	N/A	-	1/29	*	10,000	10.0	10.0	P		
	Battery Storage	19	Unknown	BA	N/A	N/A	N/A	N/A	-	1/29	*	10,000	10.0	10.0	P		
	Battery Storage	20	Unknown	BA	N/A	N/A	N/A	N/A	-	1/29	*	10,000	10.0	10.0	P		
	Battery Storage	21	Unknown	BA	N/A	N/A	N/A	N/A	-	1/29	*	10,000	10.0	10.0	P		
	Battery Storage	22	Unknown	BA	N/A	N/A	N/A	N/A	-	1/29	*	10,000	10.0	10.0	P		
Solar Degradation ³	N/A											(2.4)	-				
	2029 Changes and Additions:													57.6	60.0		

Notes:

- * Undetermined
 - ** Big Bend ST1 Modernization outage planned to start 06/20
 - 1 Solar MW values reflect capacity at time of peak.
 - 2 Net capability will be restricted to 330 MW winter / 350 MW summer / 350 MW winter until being placed into combined cycle mode in 2023.
 - 3 Solar capacity degrades at approximately 0.4% every year.
- Tampa Electric Company continually analyzes renewable energy and distributed generation alternatives with the objective to integrate them into its resource portfolio.