

# AUSLEY McMULLEN

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July 27, 2020

## **ELECTRONIC FILING**

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

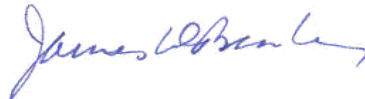
Re: Fuel and Purchased Power Cost Recovery Clause with Generating Performance  
Incentive Factor; FPSC Docket No. 20200001-EI

Dear Mr. Teitzman:

Attached for filing in the above docket are Tampa Electric Company's GPIF Actual Unit  
Performance Data Schedules for the month of June 2020.

Thank you for your assistance in connection with this matter.

Sincerely,



James D. Beasley

JDB/ne

Attachment

cc: All parties of record (w/attachment)

## CERTIFICATE OF SERVICE

I HEREBY CERTIFY that a true and correct copy of the foregoing Schedules, filed on behalf of Tampa Electric Company, has been furnished by electronic mail on this 27th day of July 2020 to the following:

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ATTORNEY

ORIGINAL SHEET NO. 8.401.19A  
TAMPA ELECTRIC COMPANY

ACTUAL UNIT PERFORMANCE DATA

JANUARY 2020 - DECEMBER 2020

PLANT/UNIT		MOCTH OF:	MOCTH OF:	MOCTH OF:	MOCTH OF:	MOCTH OF:	MOCTH OF:	MOCTH OF:	MOCTH OF:	MOCTH OF:	MOCTH OF:	MOCTH OF:	PERIOD	
BAYSIDE 1		Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	2020
1. Equivalent Availability Factor (%)	EAF	99.1	88.3	48.0	99.9	97.3	98.7							88.8
2. Period Hours	PH	744.0	696.0	743.0	720.0	744.0	720.0							4,367.0
3. Service Hours	SH	739.2	480.7	348.7	717.4	730.6	713.9							3,730.5
4. Reserve Shutdown Hours	RSH	0.0	142.0	10.1	1.7	0.0	0.0							153.8
5. Unavailable Hours	UH	4.8	73.3	384.2	0.9	13.4	6.1							482.7
6. Planned Outage Hours	POH	0.0	57.5	275.0	0.0	0.0	0.0							332.5
7. Forced Outage Hours	FOH	1.2	0.0	109.2	0.9	13.4	0.0							124.7
8. Maintenance Outage Hours	MOH	3.6	15.8	0.0	0.0	0.0	6.1							25.5
9a. Partial Planned Outage Hours	PPOH	0.0	0.0	0.0	0.0	0.0	0.0							0.0
9b. Load Reduction Partial Planned (MW)	LRPP	0.0	0.0	0.0	0.0	0.0	0.0							0.0
10a. Partial Forced Outage Hours	PFOH	2.1	0.0	7.6	0.0	16.8	0.0							26.5
10b. Load Reduction Partial Forced (MW)	LRPF	69.4	0.0	79.0	0.0	94.1	0.0							87.8
11a. Partial Maintenance Outage Hours	PMOH	4.8	23.9	0.0	0.0	0.0	9.1							37.8
11b. Load Reduction Partial Maintenance (MW)	LRPM	78.0	80.4	0.0	0.0	0.0	79.0							79.8
12. Net Summer Continuous Rating (MW)	NSC	701.0	701.0	701.0	701.0	701.0	702.0							701.2
13. Operating British Thermal Units (GBTU)	OPR BTU	1,875.0	1,493.5	1,050.7	2,025.6	2,499.8	2,267.2							11,211.8
14. Net Generation (MWH)	NETGEN	248,230.8	203,342.1	140,773.6	274,428.4	339,658.8	290,222.0							1,496,655.7
15. Avg. Net Operating Heat Rate (BTU/KWH)	ANOHR	7,554.0	7,345.0	7,464.0	7,381.0	7,360.0	7,812.0							7,491.3
16. Net Output Factor (%)	NOF	42.1	53.4	50.8	54.6	65.1	57.5							53.7
17. Net Period Continuous Rating (MW)	NPC	792.0	792.0	792.0	701.0	701.0	701.0							746.5
18. Avg. Net Operating Heat Rate Equation		ANOHR = NOF ( -2.852 ) + 7,630												

ORIGINAL SHEET NO. 8.401.19A  
TAMPA ELECTRIC COMPANY

ACTUAL UNIT PERFORMANCE DATA

JANUARY 2020 - DECEMBER 2020

PLANT/UNIT		MOCTH OF:	MOCTH OF:	MOCTH OF:	MOCTH OF:	MOCTH OF:	MOCTH OF:	MOCTH OF:	MOCTH OF:	MOCTH OF:	MOCTH OF:	MOCTH OF:	PERIOD	
BAYSIDE 2		Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	2020
1. Equivalent Availability Factor (%)	EAF	71.3	95.4	99.9	98.5	83.8	97.8							91.9
2. Period Hours	PH	744.0	696.0	743.0	720.0	744.0	720.0							4,367.0
3. Service Hours	SH	85.2	672.4	742.3	712.7	663.8	709.4							3,585.8
4. Reserve Shutdown Hours	RSH	448.8	0.0	0.0	0.0	0.0	0.0							448.8
5. Unavailable Hours	UH	210.0	23.6	0.7	7.3	80.2	10.6							332.4
6. Planned Outage Hours	POH	0.0	0.0	0.0	0.0	0.0	0.0							0.0
7. Forced Outage Hours	FOH	3.5	6.5	0.0	7.3	26.2	3.9							47.4
8. Maintenance Outage Hours	MOH	206.5	17.1	0.7	0.0	54.0	6.7							285.0
9a. Partial Planned Outage Hours	PPOH	0.0	0.0	0.0	0.0	0.0	0.0							0.0
9b. Load Reduction Partial Planned (MW)	LRPP	0.0	0.0	0.0	0.0	0.0	0.0							0.0
10a. Partial Forced Outage Hours	PFOH	4.8	11.2	0.0	14.2	47.9	7.7							85.8
10b. Load Reduction Partial Forced (MW)	LRPF	77.1	77.0	0.0	77.0	89.4	67.0							83.0
11a. Partial Maintenance Outage Hours	PMOH	9.6	20.2	1.2	0.0	105.6	13.1							149.7
11b. Load Reduction Partial Maintenance (MW)	LRPM	77.0	92.4	77.4	0.0	77.0	77.0							79.1
12. Net Summer Continuous Rating (MW)	NSC	929.0	929.0	929.0	929.0	929.0	929.0							929.0
13. Operating British Thermal Units (GBTU)	OPR BTU	189.5	2,657.5	3,038.4	3,056.0	2,699.8	3,308.5							14,949.8
14. Net Generation (MWH)	NETGEN	22,308.2	357,443.8	406,847.3	417,285.6	366,298.4	431,349.1							2,001,532.4
15. Avg. Net Operating Heat Rate (BTU/KWH)	ANOHR	8,496.0	7,435.0	7,468.0	7,324.0	7,371.0	7,670.0							7,469.2
16. Net Output Factor (%)	NOF	25.0	49.1	52.2	62.4	53.0	64.5							56.5
17. Net Period Continuous Rating (MW)	NPC	1,047.0	1,047.0	1,047.0	929.0	929.0	929.0							988.0
18. Avg. Net Operating Heat Rate Equation		ANOHR = NOF (-6.673) + 7,965												

ORIGINAL SHEET NO. 8.401.19A  
TAMPA ELECTRIC COMPANY

ACTUAL UNIT PERFORMANCE DATA

JANUARY 2020 - DECEMBER 2020

PLANT/UNIT		MOCTH OF:	MOCTH OF:	MOCTH OF:	MOCTH OF:	MOCTH OF:	MOCTH OF:	MOCTH OF:	MOCTH OF:	MOCTH OF:	MOCTH OF:	MOCTH OF:	PERIOD	
BIG BEND 4		Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	2020
1. Equivalent Availability Factor (%)	EAF	0.9	0.0	0.0	0.0	0.2	31.6							20.7
2. Period Hours	PH	744.0	696.0	744.0	720.0	744.0	720.0							4,368.0
3. Service Hours	SH	629.2	0.0	0.0	0.0	1.4	580.8							1,211.4
4. Reserve Shutdown Hours	RSH	97.3	0.0	0.0	0.0	0.0	0.0							97.3
5. Unavailable Hours	UH	17.5	696.0	744.0	720.0	742.6	139.2							3,059.3
6. Planned Outage Hours	POH	17.5	696.0	744.0	720.0	659.8	0.0							2,837.3
7. Forced Outage Hours	FOH	0.0	0.0	0.0	0.0	0.0	2.0							2.0
8. Maintenance Outage Hours	MOH	0.0	0.0	0.0	0.0	82.8	137.2							220.0
9a. Partial Planned Outage Hours	PPOH	0.0	0.0	0.0	0.0	0.0	0.0							0.0
9b. Load Reduction Partial Planned (MW)	LRPP	0.0	0.0	0.0	0.0	0.0	0.0							0.0
10a. Partial Forced Outage Hours	PFOH	509.5	0.0	0.0	0.0	0.0	471.0							980.5
10b. Load Reduction Partial Forced (MW)	LRPF	37.1	0.0	0.0	0.0	0.0	182.0							106.7
11a. Partial Maintenance Outage Hours	PMOH	0.0	0.0	0.0	0.0	0.0	138.2							138.2
11b. Load Reduction Partial Maintenance (MW)	LRPM	0.0	0.0	0.0	0.0	0.0	267.0							267.0
12. Net Summer Continuous Rating (MW)	NSC	347.0	347.0	347.0	347.0	347.0	347.0							347.0
13. Operating British Thermal Units (GBTU)	OPR BTU	1,977.2	0.0	0.0	0.0	0.0	1,280.5							3,257.7
14. Net Generation (MWH)	NETGEN	188,162.0	0.0	1.0	0.0	-2,245.0	106,678.0							292,596.0
15. Avg. Net Operating Heat Rate (BTU/KWH)	ANOHR	10,508.0	0.0	0.0	0.0	0.0	12,003.0							11,133.7
16. Net Output Factor (%)	NOF	85.0	0.0	0.0	0.0	-455.6	52.9							69.1
17. Net Period Continuous Rating (MW)	NPC	352.0	352.0	352.0	347.0	347.0	347.0							349.5
18. Avg. Net Operating Heat Rate Equation		ANOHR = NOF (-5.6236) + 11,149												



ORIGINAL SHEET NO. 8.401.19A  
TAMPA ELECTRIC COMPANY

ACTUAL UNIT PERFORMANCE DATA

JANUARY 2020 - DECEMBER 2020

PLANT/UNIT		MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD
POLK 1		Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	2020
1. Equivalent Availability Factor (%)	EAF	97.9	81.1	89.2	61.4	27.7	91.7							74.6
2. Period Hours	PH	744.0	696.0	743.0	720.0	744.0	720.0							4,367.0
3. Service Hours	SH	211.9	120.4	662.4	438.8	206.3	717.9							2,357.7
4. Reserve Shutdown Hours	RSH	516.8	444.0	0.0	44.0	0.0	0.0							1,004.8
5. Unavailable Hours	UH	15.3	131.6	80.6	237.2	537.7	2.1							1,004.5
6. Planned Outage Hours	POH	0.0	0.0	0.0	0.0	0.0	0.0							0.0
7. Forced Outage Hours	FOH	1.6	10.7	0.0	154.1	537.7	2.1							706.2
8. Maintenance Outage Hours	MOH	13.7	120.9	80.6	83.1	0.0	0.0							298.3
9a. Partial Planned Outage Hours	PPOH	0.0	0.0	0.0	0.0	0.0	0.0							0.0
9b. Load Reduction Partial Planned (MW)	LRPP	0.0	0.0	0.0	0.0	0.0	0.0							0.0
10a. Partial Forced Outage Hours	PFOH	0.0	0.0	0.0	107.1	0.0	717.9							825.0
10b. Load Reduction Partial Forced (MW)	LRPF	0.0	0.0	0.0	90.0	0.0	18.9							28.1
11a. Partial Maintenance Outage Hours	PMOH	0.0	0.0	0.0	0.0	0.0	0.0							0.0
11b. Load Reduction Partial Maintenance (MW)	LRPM	0.0	0.0	0.0	0.0	0.0	0.0							0.0
12. Net Summer Continuous Rating (MW)	NSC	210.0	210.0	210.0	210.0	210.0	210.0							210.0
13. Operating British Thermal Units (GBTU)	OPR BTU	256.3	157.0	877.3	555.1	298.1	1,068.7							3,212.4
14. Net Generation (MWH)	NETGEN	30,426.0	15,360.0	101,937.0	62,777.0	33,685.0	130,490.0							374,675.0
15. Avg. Net Operating Heat Rate (BTU/KWH)	ANOHR	8,424.0	10,218.0	8,606.0	8,843.0	8,849.0	8,188.0							8,573.9
16. Net Output Factor (%)	NOF	59.3	52.7	63.4	60.9	69.0	77.4							72.2
17. Net Period Continuous Rating (MW)	NPC	230.0	230.0	230.0	210.0	210.0	210.0							220.0
18. Avg. Net Operating Heat Rate Equation		ANOHR = NOF (-7.778) + 10,842												

ORIGINAL SHEET NO. 8.401.19A  
TAMPA ELECTRIC COMPANY

ACTUAL UNIT PERFORMANCE DATA

JANUARY 2020 - DECEMBER 2020

PLANT/UNIT		MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD	
POLK 2		Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	2020
1. Equivalent Availability Factor (%)	EAF	99.4	92.2	99.3	96.1	91.4	82.8							94.7
2. Period Hours	PH	744.0	696.0	743.0	720.0	744.0	720.0							4,367.0
3. Service Hours	SH	741.6	675.1	733.0	714.9	709.0	597.6							4,171.2
4. Reserve Shutdown Hours	RSH	0.0	0.0	4.5	0.0	0.0	0.0							4.5
5. Unavailable Hours	UH	2.4	20.9	5.5	5.1	35.0	122.4							191.3
6. Planned Outage Hours	POH	0.0	0.0	0.0	0.0	0.0	0.0							0.0
7. Forced Outage Hours	FOH	0.1	7.7	5.5	0.1	0.0	122.4							135.8
8. Maintenance Outage Hours	MOH	2.3	13.2	0.0	5.0	35.0	0.0							55.5
9a. Partial Planned Outage Hours	PPOH	0.0	0.0	0.0	0.0	0.0	0.0							0.0
9b. Load Reduction Partial Planned (MW)	LRPP	0.0	0.0	0.0	0.0	0.0	0.0							0.0
10a. Partial Forced Outage Hours	PFOH	9.2	14.3	0.0	33.6	0.4	6.0							63.5
10b. Load Reduction Partial Forced (MW)	LRPF	166.1	179.5	0.0	338.2	126.2	241.0							267.0
11a. Partial Maintenance Outage Hours	PMOH	0.0	106.6	0.0	15.4	107.7	0.0							229.7
11b. Load Reduction Partial Maintenance (MW)	LRPM	0.0	125.0	0.0	125.0	125.0	0.0							125.0
12. Net Summer Continuous Rating (MW)	NSC	1,061.0	1,061.0	1,061.0	1,061.0	1,061.0	1,061.0							1,061.0
13. Operating British Thermal Units (GBTU)	OPR BTU	4,418.6	4,119.3	4,573.1	4,030.8	3,911.8	3,627.4							24,680.9
14. Net Generation (MWH)	NETGEN	636,822.0	593,139.0	665,332.0	581,812.0	559,597.0	514,715.0							3,551,417.0
15. Avg. Net Operating Heat Rate (BTU/KWH)	ANOHR	6,938.0	6,945.0	6,873.0	6,928.0	6,990.0	7,048.0							6,949.6
16. Net Output Factor (%)	NOF	71.3	71.0	75.5	76.2	70.9	78.3							75.3
17. Net Period Continuous Rating (MW)	NPC	1,200.0	1,200.0	1,200.0	1,061.0	1,061.0	1,061.0							1,130.5
18. Avg. Net Operating Heat Rate Equation		ANOHR = NOF ( -53.862 ) + 11,266												

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Tampa Electric Company  
Outage Listing  
June 2020

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Unit	Event Number	Event Type	Event Begin Date	Event Begin Time	Event End Date	Event End Time	Event Duration	Cause Code	Cause Code Description	Narrative	Net Available Capacity	Net Dependable Capacity
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**Tampa Electric Company**  
**Outage Listing**  
**June 2020**

Unit	Event Number	Event Type	Event Begin Date	Event Begin Time	Event End Date	Event End Time	Event Duration	Cause Code	Cause Code Description	Narrative	Net Available Capacity	Net Dependable Capacity
BS CT1(B)	145	Reserve Shutdown	6/1/2020	0:00:00	6/1/2020	12:29:00	12.48			Reserve Shutdown		156
BS CT1(B)	146	Reserve Shutdown	6/2/2020	21:35:00	6/5/2020	12:53:00	63.3			Reserve Shutdown		156
BS CT1(B)	147	Reserve Shutdown	6/5/2020	19:06:00	6/7/2020	12:51:00	41.75			Reserve Shutdown		156
BS CT1(B)	148	Reserve Shutdown	6/10/2020	0:33:00	6/10/2020	13:54:00	13.35			Reserve Shutdown		156
BS CT1(B)	149	Reserve Shutdown	6/12/2020	4:45:00	6/12/2020	13:05:00	8.33			Reserve Shutdown		156
BS CT1(B)	150	Reserve Shutdown	6/13/2020	0:29:00	6/13/2020	12:50:00	12.35			Reserve Shutdown		156
BS CT1(B)	151	Reserve Shutdown	6/16/2020	23:38:00	6/17/2020	12:23:00	12.75			Reserve Shutdown		156
BS CT1(B)	152	Reserve Shutdown	6/19/2020	3:12:00	6/19/2020	14:17:00	11.08			Reserve Shutdown		156
BS CT1(B)	153	Reserve Shutdown	6/19/2020	23:29:00	6/20/2020	11:54:00	12.42			Reserve Shutdown		156
BS CT1(B)	154	Reserve Shutdown	6/21/2020	5:22:00	6/21/2020	13:18:00	7.93			Reserve Shutdown		156
BS CT1(B)	155	Reserve Shutdown	6/24/2020	3:06:00	6/24/2020	15:03:00	11.95			Reserve Shutdown		156
BS CT1(B)	156	Reserve Shutdown	6/25/2020	0:53:00	6/25/2020	14:36:00	13.72			Reserve Shutdown		156
BS CT1(B)	157	Reserve Shutdown	6/26/2020	1:31:00	6/26/2020	22:08:00	20.62			Reserve Shutdown		156

**Tampa Electric Company**  
**Outage Listing**  
**June 2020**

Unit	Event Number	Event Type	Event Begin Date	Event Begin Time	Event End Date	Event End Time	Event Duration	Cause Code	Cause Code Description	Narrative	Net Available Capacity	Net Dependable Capacity
BS CT1(C)	172	Reserve Shutdown	6/2/2020	2:18:00	6/4/2020	23:45:00	69.45			Reserve Shutdown		156
BS CT1(C)	173	Maintenance Outage	6/4/2020	23:45:00	6/5/2020	10:47:00	11.03	0540	Reheat steam piping up to turbine stop valve	1C CRH piping need to be repositioned back onto its supports		156
BS CT1(C)	174	Reserve Shutdown	6/5/2020	10:47:00	6/8/2020	11:29:00	72.7			Reserve Shutdown		156
BS CT1(C)	175	Reserve Shutdown	6/10/2020	20:06:00	6/11/2020	13:21:00	17.25			Reserve Shutdown		156
BS CT1(C)	176	Reserve Shutdown	6/11/2020	19:01:00	6/11/2020	22:28:00	3.45			Reserve Shutdown		156
BS CT1(C)	177	Maintenance Outage	6/11/2020	22:28:00	6/12/2020	14:55:00	16.45	0540	Reheat steam piping up to turbine stop valve	Readjusted the CRH piping back on the supports.		156
BS CT1(C)	178	Reserve Shutdown	6/12/2020	14:55:00	6/12/2020	17:57:00	3.03			Reserve Shutdown		156
BS CT1(C)	179	Reserve Shutdown	6/13/2020	2:01:00	6/13/2020	13:32:00	11.52			Reserve Shutdown		156
BS CT1(C)	180	Reserve Shutdown	6/16/2020	2:24:00	6/16/2020	15:20:00	12.93			Reserve Shutdown		156
BS CT1(C)	181	Reserve Shutdown	6/17/2020	0:43:00	6/17/2020	16:20:00	15.62			Reserve Shutdown		156
BS CT1(C)	182	Reserve Shutdown	6/17/2020	22:28:00	6/18/2020	12:39:00	14.18			Reserve Shutdown		156
BS CT1(C)	183	Reserve Shutdown	6/18/2020	20:31:00	6/19/2020	7:59:00	11.47			Reserve Shutdown		156
BS CT1(C)	184	Reserve Shutdown	6/20/2020	0:21:00	6/20/2020	13:42:00	13.35			Reserve Shutdown		156
BS CT1(C)	185	Reserve Shutdown	6/25/2020	3:07:00	6/26/2020	14:36:00	35.48			Reserve Shutdown		156
BS CT1(C)	186	Reserve Shutdown	6/27/2020	0:41:00	6/27/2020	13:54:00	13.22			Reserve Shutdown		156
BS CT1(C)	187	Reserve Shutdown	6/28/2020	0:41:00	6/29/2020	13:33:00	36.87			Reserve Shutdown		156
BS CT1(C)	169	Reserve Shutdown	6/30/2020	2:04:00	6/30/2020	12:15:00	10.18			Reserve Shutdown		156

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Unit	Event Number	Event Type	Event Begin Date	Event Begin Time	Event End Date	Event End Time	Event Duration	Cause Code	Cause Code Description	Narrative	Net Available Capacity	Net Dependable Capacity
85 ST 1	18	Maintenance Derating	6/4/2020	23:45:00	6/5/2020	10:47:00	11.03	3999	Other miscellaneous balance of plant problems	ST 1 Derated - 1C CRH repositioning of the pipe back onto the support	154	233
85 ST 1	19	Maintenance Derating	6/11/2020	22:28:00	6/12/2020	14:55:00	16.45	3999	Other miscellaneous balance of plant problems	ST 1 derated - 1C repositioning of the CRH piping	154	233

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Unit	Event Number	Event Type	Event Begin Date	Event Begin Time	Event End Date	Event End Time	Event Duration	Cause Code	Cause Code Description	Narrative	Net Available Capacity	Net Dependable Capacity
BS CT2(A)	29	Reserve Shutdown	6/10/2020	18:31:00	6/11/2020	12:22:00	17.85			Reserve Shutdown		156

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Unit	Event Number	Event Type	Event Begin Date	Event Begin Time	Event End Date	Event End Time	Event Duration	Cause Code	Cause Code Description	Narrative	Net Available Capacity	Net Dependable Capacity
BS CT2(B)	194	Reserve Shutdown	6/4/2020	1:41:00	6/5/2020	14:08:00	36.45			Reserve Shutdown		156
BS CT2(B)	195	Reserve Shutdown	6/9/2020	1:26:00	6/9/2020	16:05:00	14.65			Reserve Shutdown		156
BS CT2(B)	196	Reserve Shutdown	6/14/2020	1:59:00	6/15/2020	13:52:00	35.88			Reserve Shutdown		156
BS CT2(B)	197	Reserve Shutdown	6/15/2020	19:58:00	6/16/2020	1:30:00	5.53			Reserve Shutdown		156
BS CT2(B)	198	Maintenance Outage	6/16/2020	1:30:00	6/16/2020	20:08:00	18.63	5120	Hydraulic oil system	Replaced #2 hydraulic pump		156
BS CT2(B)	199	Reserve Shutdown	6/16/2020	20:08:00	6/17/2020	13:20:00	17.2			Reserve Shutdown		156
BS CT2(B)	200	Reserve Shutdown	6/18/2020	4:32:00	6/19/2020	13:03:00	32.52			Reserve Shutdown		156
BS CT2(B)	201	Reserve Shutdown	6/26/2020	3:15:00	6/26/2020	13:05:00	9.83			Reserve Shutdown		156

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Unit	Event Number	Event Type	Event Begin Date	Event Begin Time	Event End Date	Event End Time	Event Duration	Cause Code	Cause Code Description	Narrative	Net Available Capacity	Net Dependable Capacity
BS CT2(C)	128	Reserve Shutdown	6/6/2020	1:46:00	6/8/2020	10:45:00	56.98			Reserve Shutdown		156
BS CT2(C)	129	Reserve Shutdown	6/10/2020	1:34:00	6/10/2020	13:04:00	11.5			Reserve Shutdown		156
BS CT2(C)	130	Reserve Shutdown	6/13/2020	10:08:00	6/14/2020	11:06:00	24.97			Reserve Shutdown		156
BS CT2(C)	131	Reserve Shutdown	6/15/2020	1:13:00	6/16/2020	12:26:00	35.22			Reserve Shutdown		156
BS CT2(C)	132	Maintenance Outage	6/16/2020	20:09:00	6/17/2020	17:21:00	21.2	5120	Hydraulic oil system	2C - Repaired hydraulic pump manifold regulators and reliefs		156
BS CT2(C)	133	Reserve Shutdown	6/17/2020	17:21:00	6/18/2020	11:40:00	18.32			Reserve Shutdown		156
BS CT2(C)	134	Reserve Shutdown	6/19/2020	1:27:00	6/19/2020	10:58:00	9.52			Reserve Shutdown		156
BS CT2(C)	135	Reserve Shutdown	6/21/2020	7:54:00	6/22/2020	14:09:00	30.25			Reserve Shutdown		156
BS CT2(C)	136	Reserve Shutdown	6/24/2020	1:29:00	6/24/2020	12:22:00	10.88			Reserve Shutdown		156
BS CT2(C)	137	Reserve Shutdown	6/25/2020	1:29:00	6/25/2020	12:56:00	11.45			Reserve Shutdown		156
BS CT2(C)	138	Reserve Shutdown	6/28/2020	3:25:00	6/29/2020	11:57:00	32.53			Reserve Shutdown		156

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Unit	Event Number	Event Type	Event Begin Date	Event Begin Time	Event End Date	Event End Time	Event Duration	Cause Code	Cause Code Description	Narrative	Net Available Capacity	Net Dependable Capacity
BS CT2(D)	183	Unplanned (Forced) Outage - Immediate	6/1/2020	0:00:00	6/1/2020	23:30:00	23.5	5250	Controls and instrumentation	Ground fault on the fire detection sensor tripped the unit.		156
BS CT2(D)	184	Reserve Shutdown	6/1/2020	23:30:00	6/2/2020	11:30:00	12			Reserve Shutdown		156
BS CT2(D)	185	Reserve Shutdown	6/7/2020	2:02:00	6/8/2020	16:24:00	38.37			Reserve Shutdown		156
BS CT2(D)	186	Reserve Shutdown	6/12/2020	1:06:00	6/12/2020	12:05:00	10.98			Reserve Shutdown		156
BS CT2(D)	187	Reserve Shutdown	6/13/2020	20:56:00	6/14/2020	15:26:00	18.5			Reserve Shutdown		156
BS CT2(D)	188	Reserve Shutdown	6/18/2020	0:27:00	6/18/2020	13:31:00	13.07			Reserve Shutdown		156
BS CT2(D)	189	Reserve Shutdown	6/20/2020	5:40:00	6/21/2020	10:53:00	29.22			Reserve Shutdown		156
BS CT2(D)	190	Reserve Shutdown	6/28/2020	1:49:00	6/28/2020	13:56:00	12.12			Reserve Shutdown		156
BS CT2(D)	180	Reserve Shutdown	6/30/2020	1:06:00	6/30/2020	13:14:00	12.13			Reserve Shutdown		156



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Unit	Event Number	Event Type	Event Begin Date	Event Begin Time	Event End Date	Event End Time	Event Duration	Cause Code	Cause Code Description	Narrative	Net Available Capacity	Net Dependable Capacity
BS ST 2	27	Unplanned (Forced) Derating - Immediate	6/1/2020	0:00:00	6/1/2020	23:30:00	23.5	3999	Other miscellaneous balance of plant problems	ST2 Derated - 2D CT tripped on fire protection false indication	238	305
BS ST 2	28	Maintenance Derating	6/16/2020	1:30:00	6/16/2020	20:08:00	18.63	3999	Other miscellaneous balance of plant problems	ST 2 Derated - Replaced #2 hydraulic pump	228	305
BS ST 2	29	Maintenance Derating	6/16/2020	20:09:00	6/17/2020	17:21:00	21.2	3999	Other miscellaneous balance of plant problems	ST2 Derated - 2C repaired hydraulic pump manifold regulators and reliefs	228	305

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Unit	Event Number	Event Type	Event Begin Date	Event Begin Time	Event End Date	Event End Time	Event Duration	Cause Code	Cause Code Description	Narrative	Net Available Capacity	Net Dependable Capacity
Big Bend 4	35	Maintenance	6/1/2020	0:00:00	6/3/2020	14:25:00	62.42	4499	Other miscellaneous steam turbine problems	Exciter bearings and oil seal inspection. Turbine experienced high vibration on the ex		347
Big Bend 4	36	Maintenance	6/3/2020	14:44:00	6/4/2020	18:50:00	28.1	4499	Other miscellaneous steam turbine problems	Exciter bearings and oil seal inspection. Turbine experienced high vibration on the ex		347
Big Bend 4	37	Maintenance	6/4/2020	20:54:00	6/6/2020	10:50:00	37.93	4499	Other miscellaneous steam turbine problems	Exciter bearings and oil seal inspection. Turbine experienced high vibration on the ex		347
Big Bend 4	38	Maintenance	6/8/2020	10:59:00	6/8/2020	19:45:00	8.77			Fire detection conduit found laying on generator shaft between the generator and excit		347
Big Bend 4	39	Unplanned (F	6/8/2020	21:45:00	6/8/2020	23:45:00	2	3430	Feedwater regulating (boiler level control) v	Boiler feed pump suction valve opened/closed limit switch fell off causing a unit trip		347
Big Bend 4	40	Unplanned (F	6/11/2020	9:00:00	6/30/2020	23:59:00	471	3430	Feedwater regulating (boiler level control) v	Boiler Feed pump recirculation valve failed (stuck) in the open position limiting feed	165	347
Big Bend 4	41	Maintenance	6/14/2020	5:40:00	6/19/2020	23:53:00	138.22	1510	Flue gas ducts (except recirculation)	Flue gas duct insulation installation. Running unit on natural gas (no coal)	80	347

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Unit	Event Number	Event Type	Event Begin Date	Event Begin Time	Event End Date	Event End Time	Event Duration	Cause Code	Cause Code Description	Narrative	Net Available Capacity	Net Dependable Capacity
Polk 1	70	Unplanned (Forced) Derating - Immediate	6/1/2020	0:00:00	6/30/2020	23:59:00	720 5079	Other combustor problems	Combustion dynamic issues..hardware. Secondly, HRSG design exceeded on Natural gas or		135	150
Polk 1	71	Unplanned (Forced) Outage - Immediate	6/5/2020	17:56:00	6/5/2020	19:12:00	1:27 5079	Other combustor problems	GTG1 tripped on High Exhaust Thermocouple Temperature Spread. Combustion Dynamics are			150
Polk 1	72	Unplanned (Forced) Derating - Immediate	6/7/2020	11:14:00	6/7/2020	15:09:00	3:92 5190	Other auxiliary system problems	GTG# Steam Injection shutdown. Reduced load to 45MWs to remain in NOx compliance. Val		30	150
Polk 1	73	Unplanned (Forced) Derating - Immediate	6/13/2020	22:44:00	6/13/2020	23:01:00	0:28 5160	Cooling and seal air system	Compressor Bleed valve #2 failed open. Occurred Run-back occurred.		105	150
Polk 1	74	Noncurtailing	6/15/2020	10:25:00	6/17/2020	20:00:00	57:58 5250	Controls and instrumentation	Turbine Controls adjusted to improve performance in region of 90-150MWs for exhaust ti			150
Polk 1	75	Unplanned (Forced) Outage - Immediate	6/23/2020	16:52:00	6/23/2020	17:42:00	0:83 5299	Other miscellaneous gas turbine problems	GTG1 rolled back due to #2 Bleed Heat Valve switch failure. Went to FSNL...breaker op			150

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Unit	Event Number	Event Type	Event Begin Date	Event Begin Time	Event End Date	Event End Time	Event Duration	Cause Code	Cause Code Description	Narrative	Net Available Capacity	Net Dependable Capacity
Polk 1 ST	32	Unplanned (Forced) Derating - Immediate	6/1/2020	0:00:00	6/30/2020	23:59:00	720 3999	Other miscellaneous balance of jCombus	tion dynamic issues..hardware. Secondly, HRSG design exceeded on Natural gas onl		82	85
Polk 1 ST	33	Unplanned (Forced) Outage - Immediate	6/5/2020	17:59:00	6/5/2020	20:07:00	2.13 3999	Other miscellaneous balance of jGTG1 tripped on High Exhaust Thermocouple Temperature Spread. Combustion Dynamics are			85	85
Polk 1 ST	34	Unplanned (Forced) Derating - Immediate	6/7/2020	11:14:00	6/7/2020	15:09:00	3.92 3999	Other miscellaneous balance of jGTG# Steam Injection shutdown. Reduced load to 45MWs to remain in NOx compliance. Valv		59	85	85
Polk 1 ST	35	Unplanned (Forced) Derating - Immediate	6/13/2020	22:44:00	6/13/2020	23:01:00	0.28 3999	Other miscellaneous balance of jCompressor Bleed valve #2 failed open. Occurred Run-back occurred.		50	85	85
Polk 1 ST	36	Unplanned (Forced) Derating - Immediate	6/23/2020	16:52:00	6/23/2020	17:42:00	0.83 3999	Other miscellaneous balance of jGTG1 rolled back due to #2 Bleed Heat Valve switch failure. Went to FSNL...breaker ope		50	85	85

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Unit	Event Number	Event Type	Event Begin Date	Event Begin Time	Event End Date	Event End Time	Event Duration	Cause Code	Cause Code Description	Narrative	Net Available Capacity	Net Dependable Capacity
Polk 2	75	Noncurtailing	6/1/2020	0:00:00	6/3/2020	0:00:00	48	5250	Controls and instrumentation	Flow Divider not functioning properly.		150
Polk 2	76	Reserve Shutdown	6/2/2020	2:06:00	6/2/2020	21:34:00	19.47			Reserve Shutdown		150
Polk 2	77	Reserve Shutdown	6/2/2020	22:46:00	6/3/2020	18:37:00	19.85			Reserve Shutdown		150
Polk 2	78	Reserve Shutdown	6/3/2020	19:12:00	6/4/2020	9:26:00	14.23			Reserve Shutdown		150
Polk 2	79	Reserve Shutdown	6/8/2020	2:28:00	6/8/2020	9:21:00	6.88			Reserve Shutdown		150
Polk 2	80	Reserve Shutdown	6/10/2020	20:25:00	6/11/2020	11:26:00	15.02			Reserve Shutdown		150
Polk 2	81	Reserve Shutdown	6/12/2020	21:06:00	6/14/2020	12:33:00	39.45			Reserve Shutdown		150
Polk 2	82	Reserve Shutdown	6/17/2020	3:50:00	6/17/2020	11:15:00	7.42			Reserve Shutdown		150
Polk 2	83	Reserve Shutdown	6/19/2020	22:00:00	6/19/2020	22:59:00	0.98			Reserve Shutdown		150
Polk 2	84	Reserve Shutdown	6/21/2020	1:58:00	6/21/2020	9:40:00	7.7			Reserve Shutdown		150
Polk 2	85	Unplanned (Forced) Outage - Immediate	6/23/2020	0:46:00	6/23/2020	1:46:00	1	5042	Fuel nozzles	High Exhaust Spread Trip. Cans 1 or 14 have poor fuel delivery resulting in a cold spo		150
Polk 2	86	Reserve Shutdown	6/23/2020	1:46:00	6/23/2020	11:19:00	9.55			Reserve Shutdown		150
Polk 2	87	Reserve Shutdown	6/24/2020	0:05:00	6/24/2020	11:17:00	11.2			Reserve Shutdown		150
Polk 2	88	Reserve Shutdown	6/25/2020	19:52:00	6/26/2020	11:32:00	15.67					150
Polk 2	89	Unplanned (Forced) Derating - Immediate	6/25/2020	19:52:00	6/25/2020	20:52:00	1	5089	Other high pressure problems	Operator was attempting to run GTG3 on liquid fuel for testing. Inadvertently selected	30	150
Polk 2	72	Reserve Shutdown	6/29/2020	23:45:00	6/30/2020	12:08:00	12.38			Reserve Shutdown		150

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Unit	Event Number	Event Type	Event Begin Date	Event Begin Time	Event End Date	Event End Time	Event Duration	Cause Code	Cause Code Description	Narrative	Net Available Capacity	Net Dependable Capacity
Polk 2 ST	29	Unplanned (Forced) Derating - Immediate	6/1/2020	11:46:00	6/2/2020	0:55:00	13.15 3999	Other miscellaneous balance of plant problem:	GTG3 Failed to start. Water Injection and Liquid Fuel Cooling Lines had water in them		341	461
Polk 2 ST	30	Unplanned (Forced) Derating - Immediate	6/19/2020	15:27:00	6/19/2020	15:45:00	0.3 3999	Other miscellaneous balance of plant problem:	GTG4 went to full speed no load after lightning strikes in the area. Diverter remain		341	461
Polk 2 ST	31	Unplanned (Forced) Outage - Immediate	6/19/2020	15:37:00	6/19/2020	17:59:00	2.37 9020	Lightning	STG2 tripped during lightning storm.			461
Polk 2 ST	32	Unplanned (Forced) Derating - Immediate	6/19/2020	15:37:00	6/19/2020	15:45:00	0.13 3999	Other miscellaneous balance of plant problem:	GTG5 While shutting down to go into combined cycle, GTG5 tripped on High Exhaust Spre		221	461
Polk 2 ST	33	Unplanned (Forced) Derating - Immediate	6/19/2020	15:45:00	6/19/2020	19:21:00	3.6 3999	Other miscellaneous balance of plant problem:	GTG5 While shutting down to go into combined cycle, GTG5 tripped on High Exhaust Spre		339	461
Polk 2 ST	34	Unplanned (Forced) Derating - Immediate	6/19/2020	15:50:00	6/19/2020	19:21:00	3.52 3999	Other miscellaneous balance of plant problem:	HRSG2 Diverter Damper rolled after lightning strike; GTG2 ran on simple cycle until o		219	461
Polk 2 ST	35	Unplanned (Forced) Outage - Immediate	6/19/2020	18:02:00	6/30/2020	23:59:00	269.97 4430	Gland seal system	STG2 tripped upon restart due to Gland Steam System failing.			461
Polk 2 ST	36	Unplanned (Forced) Derating - Immediate	6/19/2020	18:33:00	6/19/2020	19:21:00	0.8 3999	Other miscellaneous balance of plant problem:	HRSG5 While shutting down to go into combined cycle, GTG5 tripped on High Exhaust Spr		341	461
Polk 2 ST	37	Unplanned (Forced) Derating - Immediate	6/19/2020	19:21:00	6/19/2020	22:59:00	3.63 3999	Other miscellaneous balance of plant problem:	HRSG2 Diverter Damper rolled after lightning strike; GTG2 ran on simple cycle until o		339	461
Polk 2 ST	38	Maintenance Derating	6/19/2020	20:11:00	6/19/2020	20:41:00	0.5 3999	Other miscellaneous balance of plant problem:	HRSG4 Diverter Damper rolled during start-up after lightning event. Shutdown to resta		341	461
Polk 2 ST	39	Unplanned (Forced) Derating - Immediate	6/23/2020	0:46:00	6/23/2020	1:46:00	1 3999	Other miscellaneous balance of plant problem:	GTG2 High Exhaust Spread Trip. Cans 1 or 14 have poor fuel delivery resulting in a cc		341	461
Polk 2 ST	40	Unplanned (Forced) Derating - Immediate	6/25/2020	20:00:00	6/26/2020	1:00:00	5 3999	Other miscellaneous balance of plant problem:	GTG3 load lowered and Diverter aligned to Simple Cycle for Liquid Fuel Testing. Opera		341	461
Polk 2 ST	41	Unplanned (Forced) Derating - Immediate	6/26/2020	23:01:00	6/27/2020	11:39:00	12.63 3999	Other miscellaneous balance of plant problem:	GTG3 Technician was checking the flow into each can and as soon as the selected Combu		341	461

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Unit	Event Number	Event Type	Event Begin Date	Event Begin Time	Event End Date	Event End Time	Event Duration	Cause Code	Cause Code Description	Narrative	Net Available Capacity	Net Dependable Capacity
Polk 3	80	Reserve Shutdown	6/1/2020	1:59:00	6/1/2020	11:45:00	9.77			Reserve Shutdown		150
Polk 3	81	Startup Failure	6/1/2020	11:45:00	6/2/2020	0:55:00	13.17	5190	Other auxiliary system problems	Failed start with flame. Trip at 2 minutes after flame on, fuel type = Natural Gas, ro		150
Polk 3	82	Reserve Shutdown	6/5/2020	1:47:00	6/5/2020	11:55:00	10.13			Reserve Shutdown		150
Polk 3	83	Reserve Shutdown	6/5/2020	12:26:00	6/5/2020	13:23:00	0.95			Reserve Shutdown		150
Polk 3	84	Reserve Shutdown	6/9/2020	1:07:00	6/9/2020	13:13:00	12.1			Reserve Shutdown		150
Polk 3	85	Reserve Shutdown	6/11/2020	20:48:00	6/12/2020	11:23:00	14.58			Reserve Shutdown		150
Polk 3	86	Reserve Shutdown	6/14/2020	21:32:00	6/15/2020	10:22:00	12.83			Reserve Shutdown		150
Polk 3	87	Reserve Shutdown	6/16/2020	1:04:00	6/16/2020	14:16:00	13.2			Reserve Shutdown		150
Polk 3	88	Reserve Shutdown	6/16/2020	14:41:00	6/16/2020	15:57:00	1.27			Reserve Shutdown		150
Polk 3	89	Reserve Shutdown	6/18/2020	2:22:00	6/18/2020	10:03:00	7.68			Reserve Shutdown		150
Polk 3	90	Reserve Shutdown	6/22/2020	0:00:00	6/22/2020	10:49:00	10.82			Reserve Shutdown		150
Polk 3	91	Reserve Shutdown	6/26/2020	0:21:00	6/26/2020	9:19:00	8.97			Reserve Shutdown		150
Polk 3	92	Unplanned (Forced) Outage - Immediate	6/26/2020	23:01:00	6/27/2020	11:39:00	12.63	5041	Fuel piping and valves	Technician was checking the flow into each can and as soon as the selected Combustion		150

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Unit	Event Number	Event Type	Event Begin Date	Event Begin Time	Event End Date	Event End Time	Event Duration	Cause Code	Cause Code Description	Narrative	Net Available Capacity	Net Dependable Capacity
Polk 4	84	Reserve Shutdown	6/5/2020	20:02:00	6/7/2020	8:55:00	36.88			Reserve Shutdown		150
Polk 4	85	Reserve Shutdown	6/8/2020	22:36:00	6/9/2020	11:05:00	12.48			Reserve Shutdown		150
Polk 4	86	Reserve Shutdown	6/11/2020	0:43:00	6/11/2020	12:36:00	11.88			Reserve Shutdown		150
Polk 4	87	Reserve Shutdown	6/13/2020	19:14:00	6/14/2020	10:29:00	15.25			Reserve Shutdown		150
Polk 4	88	Reserve Shutdown	6/16/2020	0:23:00	6/16/2020	11:35:00	11.2			Reserve Shutdown		150
Polk 4	89	Unplanned (Forced) Outage - Immediate	6/19/2020	15:27:00	6/19/2020	15:45:00	0.3	9020	Lightning	GTG#4 went to full speed no load after lightning strikes in the area. Diverter remaine		150
Polk 4	90	Unplanned (Forced) Outage - Immediate	6/19/2020	20:11:00	6/19/2020	21:10:00	0.98	9020	Lightning	HRSG Diverter Damper rolled during start-up after lightning event. Shutdown to restart		150
Polk 4	91	Reserve Shutdown	6/21/2020	0:37:00	6/21/2020	12:18:00	11.68			Reserve Shutdown		150
Polk 4	92	Reserve Shutdown	6/23/2020	1:31:00	6/23/2020	13:17:00	11.77			Reserve Shutdown		150
Polk 4	93	Reserve Shutdown	6/27/2020	2:01:00	6/27/2020	12:58:00	10.95			Reserve Shutdown		150
Polk 4	94	Reserve Shutdown	6/27/2020	13:31:00	6/28/2020	11:28:00	21.95			Reserve Shutdown		150



Tampa Electric Company  
 Outage Listing  
 June 2020

Unit	Event Number	Event Type	Event Begin Date	Event Begin Time	Event End Date	Event End Time	Event Duration	Cause Code	Cause Code Description	Narrative	Net Available Capacity	Net Dependable Capacity
Polk 5	73	Reserve Shutdown	6/9/2020	22:30:00	6/10/2020	11:24:00	12.9			Reserve Shutdown		150
Polk 5	74	Reserve Shutdown	6/11/2020	22:32:00	6/13/2020	12:23:00	37.85			Reserve Shutdown		150
Polk 5	75	Reserve Shutdown	6/15/2020	0:17:00	6/15/2020	11:52:00	11.58			Reserve Shutdown		150
Polk 5	76	Unplanned (Forced) Outage - Immediate	6/19/2020	18:33:00	6/19/2020	19:21:00	0.8 9020	Lightning		While shutting down to go into combined cycle, GTGS tripped on High Exhaust Spread Tri		150
Polk 5	77	Reserve Shutdown	6/20/2020	3:55:00	6/20/2020	11:05:00	7.17			Reserve Shutdown		150
Polk 5	78	Reserve Shutdown	6/22/2020	1:09:00	6/22/2020	11:40:00	10.52			Reserve Shutdown		150
Polk 5	79	Reserve Shutdown	6/24/2020	22:31:00	6/25/2020	8:52:00	10.35			Reserve Shutdown		150
Polk 5	80	Reserve Shutdown	6/29/2020	1:01:00	6/29/2020	10:12:00	9.18			Reserve Shutdown		150