

# AUSLEY & McMULLEN

ATTORNEYS AND COUNSELORS AT LAW

123 SOUTH CALHOUN STREET  
P.O. BOX 391 (ZIP 32302)  
TALLAHASSEE, FLORIDA 32301  
(850) 224-9115 FAX (850) 222-7560

January 25, 2019

**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. 20190001-EI

Dear Mr. Teitzman:

Attached for filing in the above docket is Tampa Electric Company's GPIF Actual Unit  
Performance Data Schedules for the month of December 2018.

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 25th day of January 2019 to the following:

Ms. Suzanne Brownless  
Office of the General Counsel  
Florida Public Service Commission  
2540 Shumard Oak Boulevard  
Tallahassee, FL 32399-0850  
[sbrownle@psc.state.fl.us](mailto:sbrownle@psc.state.fl.us)

Ms. Patricia A. Christensen  
Associate Public Counsel  
Office of Public Counsel  
111 West Madison Street – Room 812  
Tallahassee, FL 32399-1400  
[christensen.patty@leg.state.fl.us](mailto:christensen.patty@leg.state.fl.us)

Ms. Dianne M. Triplett  
Duke Energy Florida  
299 First Avenue North  
St. Petersburg, FL 33701  
[Dianne.triplett@duke-energy.com](mailto:Dianne.triplett@duke-energy.com)

Mr. Matthew R. Bernier  
Senior Counsel  
Duke Energy Florida  
106 East College Avenue, Suite 800  
Tallahassee, FL 32301-7740  
[Matthew.bernier@duke-energy.com](mailto:Matthew.bernier@duke-energy.com)

Mr. Jon C Moyle, Jr.  
Moyle Law Firm  
118 North Gadsden Street  
Tallahassee, FL 32301  
[jmoyle@moylelaw.com](mailto:jmoyle@moylelaw.com)

Holly Henderson  
Senior Manager Regulatory Affairs  
Gulf Power Company  
215 South Monroe Street, Suite 618  
Tallahassee FL 32301  
[holly.henderson@nexteraenergy.com](mailto:holly.henderson@nexteraenergy.com)

Ms. Beth Keating  
Gunster, Yoakley & Stewart, P.A.  
215 S. Monroe St., Suite 601  
Tallahassee, FL 32301  
[bkeating@gunster.com](mailto:bkeating@gunster.com)

Maria Moncada  
Senior Attorney  
Mr. Joel T. Baker  
Principal Attorney  
Florida Power & Light Company  
700 Universe Boulevard (LAW/JB)  
Juno Beach, FL 33408-0420  
[maria.moncada@fpl.com](mailto:maria.moncada@fpl.com)  
[joel.baker@fpl.com](mailto:joel.baker@fpl.com)

Mr. Kenneth Hoffman  
Vice President, Regulatory Relations  
Florida Power & Light Company  
215 South Monroe Street, Suite 810  
Tallahassee, FL 32301-1859  
[ken.hoffman@fpl.com](mailto:ken.hoffman@fpl.com)

Mr. Mike Cassel  
Regulatory and Governmental Affairs  
Florida Public Utilities Company  
Florida Division of Chesapeake Utilities Corp.  
1750 SW 14th Street, Suite 200  
Fernandina Beach, FL 32034  
[mcassel@fpuc.com](mailto:mcassel@fpuc.com)

Mr. Russell A. Badders  
Vice President & Associate General Counsel  
Gulf Power Company  
One Energy Place  
Pensacola FL 32520  
[russell.badders@nexteraenergy.com](mailto:russell.badders@nexteraenergy.com)

Mr. Robert Scheffel Wright  
Mr. John T. LaVia, III  
Gardner, Bist, Wiener, Wadsworth,  
Bowden, Bush, Dee, LaVia & Wright, P.A.  
1300 Thomaswood Drive  
Tallahassee, FL 32308  
[Schef@gbwlegal.com](mailto:Schef@gbwlegal.com)  
[Jlavia@gbwlegal.com](mailto:Jlavia@gbwlegal.com)

Mr. Steven R. Griffin  
Beggs & Lane  
P.O. Box 12950  
Pensacola FL 32591  
[srg@beggslane.com](mailto:srg@beggslane.com)

Mr. James W. Brew  
Ms. Laura A. Wynn  
Stone Mattheis Xenopoulos & Brew, PC  
1025 Thomas Jefferson Street, NW  
Eighth Floor, West Tower  
Washington, D.C. 20007-5201  
[jbrew@smxblaw.com](mailto:jbrew@smxblaw.com)  
[laura.wynn@smxblaw.com](mailto:laura.wynn@smxblaw.com)

  
\_\_\_\_\_  
ATTORNEY

ORIGINAL SHEET NO. 8.401.17A  
TAMPA ELECTRIC COMPANY

ACTUAL UNIT PERFORMANCE DATA

JANUARY 2018 - DECEMBER 2018

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
BIG BEND 2	JAN 18	FEB 18	MAR 18	APR 18	MAY 18	JUN 18	JUL 18	AUG 18	SEP 18	OCT 18	NOV 18	DEC 18	2018
1. EAF (%)	63.7	66.6	80.1	33.5	0.3	92.5	90.1	89.1	98.3	99.96	99.9	33.9	70.0
2. PH	744	672	743	720	744	720	744	744	720	744	721	744	8760
3. SH	503.5	549.5	743.0	271.0	0.0	224.3	150.6	356.0	720.0	475.9	173.7	0.0	4167.6
4. RSH	180.2	36.8	0.0	0.0	2.3	442.7	519.7	313.0	0.0	268.1	547.3	252.4	2562.5
5. UH	60.3	85.7	0.0	449.0	741.7	53.0	73.6	75.0	0.0	0.0	0.0	491.6	2029.9
6. POH	0.0	0.0	0.0	449.0	741.7	0.0	0.0	0.0	0.0	0.0	0.0	491.6	1682.2
7. FOH	60.3	85.7	0.0	0.0	0.0	53.0	34.3	0.0	0.0	0.0	0.0	0.0	233.3
8. MOH	0.0	0.0	0.0	0.0	0.0	0.0	39.3	75.0	0.0	0.0	0.0	0.0	114.3
9. PFOH	327.6	235.1	0.0	0.0	0.0	0.0	0.0	11.6	39.4	19.4	47.9	0.0	680.9
10. LR PF (MW)	44.1	9.6	0.0	0.0	0.0	0.0	0.0	175.0	104.3	5.0	5.0	0.0	34.0
11. PMOH	744.0	672.3	743.5	720.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	2880.8
12. LR PM (MW)	91.9	78.1	78.4	15.9	0.0	235.0	0.0	0.0	0.0	0.0	0.0	0.0	66.3
13. NSC (MW)	395	395	395	385	340	340	340	340	340	340	340	350	358
14. OPR BTU(GBTU)	732.3050	1006.8930	1196.0500	500.0300	0.0000	306.2350	224.0410	587.8920	1240.1611	757.6492	347.5705	0.0000	6898.8268
15. NET GEN (MWH)	62029	94369	105001	48780	0	26562	19643	47786	102138	61799	30668	0	598775
16. ANOHR (BTU/KWH)	11806	10670	11391	10251	0	11529	11406	12303	12142	12260	11333	0	11522
17. NOF (%)	31.2	43.5	35.8	46.8	0.0	34.8	38.3	39.5	41.7	38.2	51.9	0.0	40.1
18. NPC (MW)	395	395	395	385	340	340	340	340	340	340	340	350	358
19. ANOHR EQUATION	ANOHR = NOF ( -17.276 ) + 12,362												

ORIGINAL SHEET NO. 8.401.17A  
TAMPA ELECTRIC COMPANY

ACTUAL UNIT PERFORMANCE DATA

JANUARY 2018 - DECEMBER 2018

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
BIG BEND 3	JAN 18	FEB 18	MAR 18	APR 18	MAY 18	JUN 18	JUL 18	AUG 18	SEP 18	OCT 18	NOV 18	DEC 18	2018
1. EAF (%)	57.3	35.3	30.7	66.2	91.3	95.6	95.7	94.3	68.0	90.4	99.5	93.3	76.5
2. PH	744	672	743	720	744	720	744	744	720	744	721	744	8760
3. SH	492.1	390.2	384.5	540.9	679.6	691.9	664.0	741.1	506.2	546.3	721.0	215.6	6573.4
4. RSH	0.0	23.6	0.0	0.0	0.0	28.1	50.1	0.0	0.0	133.7	0.0	478.4	713.8
5. UH	251.9	258.2	358.5	179.1	64.4	0.0	29.9	2.9	213.8	64.0	0.0	50.0	1472.7
6. POH	0.0	0.0	358.5	112.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	470.8
7. FOH	251.9	258.2	0.0	0.0	64.4	0.0	0.8	2.9	72.0	0.0	0.0	0.0	650.1
8. MOH	0.0	0.0	0.0	66.8	0.0	0.0	29.2	0.0	141.9	64.0	0.0	50.0	351.8
9. PFOH	787.0	672.0	743.0	645.0	1.7	264.4	57.2	141.1	55.5	22.1	50.8	0.0	3439.8
10. LR PF (MW)	33.4	105.2	84.2	38.8	40.0	46.4	0.0	96.9	101.9	110.9	23.6	0.0	63.9
11. PMOH	0.0	0.0	0.0	2.0	0.0	2.4	2.7	0.0	0.7	0.0	0.0	0.0	7.7
12. LR PM (MW)	0.0	0.0	0.0	120.0	0.0	120.0	240.0	0.0	165.0	0.0	0.0	0.0	165.3
13. NSC (MW)	400	400	400	395	395	395	345	345	345	345	345	400	376
14. OPR BTU(GBTU)	1798.7949	987.5843	1084.0753	1965.2639	2635.8096	2359.6073	991.3420	1213.2032	903.2102	1186.3123	1708.9480	497.4518	17331.6028
15. NET GEN (MWH)	163854	85845	90768	181082	247448	219091	87639	100627	77828	106431	149843	42260	1552716
16. ANOHR BTU/KWH	10978	11504	11943	10853	10652	10770	11312	12056	11605	11146	11405	11771	11162
17. NOF (%)	83.2	55.0	59.0	84.8	92.2	80.2	38.3	39.4	44.6	56.5	60.2	49.0	62.8
18. NPC (MW)	400	400	400	395	395	395	345	345	345	345	345	400	376
19. ANOHR EQUATION	ANOHR = NOF ( -17.826 ) + 12,060												

2

ORIGINAL SHEET NO. 8.401.17A  
TAMPA ELECTRIC COMPANY

ACTUAL UNIT PERFORMANCE DATA

JANUARY 2018 - DECEMBER 2018

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
BIG BEND 4	JAN 18	FEB 18	MAR 18	APR 18	MAY 18	JUN 18	JUL 18	AUG 18	SEP 18	OCT 18	NOV 18	DEC 18	2018
1. EAF (%)	78.7	13.1	8.0	87.7	68.2	60.1	80.3	78.5	78.7	81.0	18.5	65.0	60.2
2. PH	744	672	743	720	744	720	744	744	720	744	721	744	8760
3. SH	744.0	69.0	59.2	720.0	635.9	523.4	744.0	744.0	720.0	610.5	165.1	571.2	6306.3
4. RSH	0.0	147.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	133.5	7.0	0.0	287.6
5. UH	0.0	456.0	683.8	0.0	108.1	196.6	0.0	0.0	0.0	0.0	548.9	172.8	2166.1
6. POH	0.0	456.0	683.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	537.0	0.0	1676.7
7. FOH	0.0	0.0	0.0	0.0	108.1	196.6	0.0	0.0	0.0	0.0	11.9	1.9	318.5
8. MOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	170.9	170.9
9. PFOH	1611.4	672.0	743.0	762.4	2361.8	1557.0	744.0	744.0	720.0	744.0	721.0	744.0	12124.6
10. LR PF (MW)	43.4	84.2	0.0	49.9	23.3	25.0	81.8	93.9	82.0	83.2	23.6	52.2	46.7
11. PMOH	0.0	0.0	0.0	6.3	5.9	5.0	16.4	0.0	34.6	0.0	0.0	0.0	68.4
12. LR PM (MW)	0.0	0.0	0.0	119.5	171.1	113.8	199.1	0.0	228.1	0.0	0.0	0.0	197.7
13. NSC (MW)	442	442	442	437	437	437	437	437	437	437	437	442	439
14. OPR BTU(GBTU)	2713.8402	129.6618	163.7140	2755.0214	2397.7246	1977.6829	2766.8860	2680.4266	2552.4226	1977.4108	533.9564	2015.4523	22664.1996
15. NET GEN (MWH)	254243	13470	15848	260531	213939	181524	249646	247319	238823	192564	46324	184874	2099105
16. ANOHR BTU/KWH	10674	9626	10330	10575	11208	10895	11083	10838	10688	10269	11527	10902	10797
17. NOF (%)	77.3	44.2	60.5	82.8	77.0	79.4	76.8	76.1	75.9	72.2	64.2	73.2	75.9
18. NPC (MW)	442	442	442	437	437	437	437	437	437	437	437	442	439
19. ANOHR EQUATION	ANOHR = NOF ( -12.371 ) + 11,518												

ORIGINAL SHEET NO. 8.401.18A  
TAMPA ELECTRIC COMPANY

ACTUAL UNIT PERFORMANCE DATA

JANUARY 2018 - DECEMBER 2018

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 18	FEB 18	MAR 18	APR 18	MAY 18	JUN 18	JUL 18	AUG 18	SEP 18	OCT 18	NOV 18	DEC 18	2018
1. EAF (%)	75.1	97.1	49.1	72.8	82.9	89.6	89.1	97.1	46.3	0.0	0.0	31.4	60.7
2. PH	744	672	743	720	744	720	744	744	720	744	721	744	8760
3. SH	567.8	669.2	384.2	454.4	648.7	603.2	708.1	740.3	363.2	0.0	0.0	8.1	5147.0
4. RSH	0.0	0.0	12.6	136.7	47.5	108.8	0.0	0.0	0.0	0.0	0.0	225.8	531.4
5. UH	176.2	2.8	346.2	129.0	47.8	8.0	35.9	3.8	356.8	744.0	721.0	510.1	3081.6
6. POH	0.0	0.0	147.2	0.0	0.0	0.0	0.0	0.0	356.8	744.0	721.0	491.0	2460.1
7. FOH	176.2	2.8	199.0	95.3	3.3	8.0	35.9	3.8	0.0	0.0	0.0	6.3	530.6
8. MOH	0.0	0.0	0.0	33.6	44.5	0.0	0.0	0.0	0.0	0.0	0.0	12.9	91.0
9. PFOH	236.6	121.2	171.5	720.0	744.0	577.2	239.6	100.9	3.3	0.0	0.0	0.0	2914.3
10. LR PF (MW)	8.2	29.8	30.0	20.5	23.4	25.6	46.4	44.0	70.0	0.0	0.0	0.0	25.2
11. PMOH	0.0	0.0	420.7	0.0	0.0	0.0	0.0	0.0	497.5	0.0	0.0	0.0	918.2
12. LR PM (MW)	0.0	0.0	4.4	0.0	0.0	0.0	0.0	0.0	14.1	0.0	0.0	0.0	9.7
13. NSC (MW)	220	220	220	220	220	220	245	245	245	245	245	220	230
14. OPR BTU(GBTU)	1332.1999	1559.7320	703.7845	552.8960	629.9650	969.9011	1435.0611	1760.5749	652.5832	0.0000	0.0000	12.3490	9609.0467
15. NET GEN (MWH)	126117	152887	69570	60461	67992	79644	141705	167216	68117	-2588	-2515	-2225	926381
16. ANOHR BTU/KWH	10563	10202	10116	9145	9265	12178	10127	10529	9580	0	0	0	10373
17. NOF (%)	101.0	103.9	82.3	60.5	47.6	60.0	81.7	92.2	76.6	0.0	0.0	0.0	78.1
18. NPC (MW)	220	220	220	220	220	220	245	245	245	245	245	220	230
19. ANOHR EQUATION	ANOHR = NOF ( 16.584 ) + 8,334												

ORIGINAL SHEET NO. 8.401.18A  
TAMPA ELECTRIC COMPANY

ACTUAL UNIT PERFORMANCE DATA

JANUARY 2018 - DECEMBER 2018

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 2 CC	JAN 18	FEB 18	MAR 18	APR 18	MAY 18	JUN 18	JUL 18	AUG 18	SEP 18	OCT 18	NOV 18	DEC 18	2018
1. EAF (%)	89.0	88.1	97.1	98.9	88.6	99.9	99.8	99.7	98.4	94.9	88.9	83.1	93.8
2. PH	744	672	743	720	744	720	744	744	720	744	721	744	8760
3. SH	743.0	672.0	743.0	720.0	656.7	720.0	744.0	741.0	712.0	702.0	712.0	722.7	8588.4
4. RSH	44.6	29.5	6.8	35.7	105.1	15.8	13.5	30.9	22.5	19.1	36.7	21.3	381.4
5. UH	42.5	47.3	10.6	4.4	79.9	0.0	0.0	1.7	7.0	22.3	72.0	76.6	364.3
6. POH	20.6	47.3	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	72.0	29.8	175.3
7. FOH	11.8	0.0	5.1	4.4	6.0	0.0	0.0	0.5	6.4	0.5	0.0	5.8	40.4
8. MOH	10.1	0.0	0.0	0.0	73.9	0.0	0.0	1.2	0.7	21.8	0.0	41.0	148.6
9. PFOH	656.7	0.9	91.8	30.4	6.2	6.1	6.0	4.9	44.5	5.1	0.0	267.5	1120.1
10. LR PF (MW)	33.9	125.0	95.2	115.0	108.9	42.9	235.0	106.0	115.0	106.0	0.0	123.8	68.1
11. PMOH	204.7	315.3	37.3	0.0	49.5	5.8	0.0	0.0	0.0	154.1	244.4	215.0	1226.0
12. LR PM (MW)	123.0	125.0	125.0	0.0	95.5	115.0	0.0	0.0	0.0	106.0	33.9	118.6	101.8
13. NSC (MW)	1200	1200	1200	1061	1061	1061	1061	1061	1061	1061	1061	1200	1107
14. OPR BTU(GBTU)	4009.5850	3482.8960	4694.5570	4117.4190	3268.5620	4321.0599	4692.8080	4404.2980	4397.2187	4430.9404	3924.7980	3838.1350	49582.2771
15. NET GEN (MWH)	586465	538133	728981	634576	473543	648403	674389	634827	624890	638721	571331	551368	7305628
16. ANOHR BTU/KWH	6837	6472	6440	6488	6902	6664	6959	6938	7037	6937	6870	6961	6787
17. NOF (%)	65.8	66.7	81.8	83.1	68.0	84.9	85.4	80.7	82.7	85.8	75.6	63.6	76.8
18. NPC (MW)	1200	1200	1200	1061	1061	1061	1061	1061	1061	1061	1061	1200	1107
19. ANOHR EQUATION	ANOHR = NOF (-13.653) + 8,424												

5



ORIGINAL SHEET NO. 8.401.18A  
TAMPA ELECTRIC COMPANY

ACTUAL UNIT PERFORMANCE DATA

JANUARY 2018 - DECEMBER 2018

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
BAYSIDE UNIT 1	JAN 18	FEB 18	MAR 18	APR 18	MAY 18	JUN 18	JUL 18	AUG 18	SEP 18	OCT 18	NOV 18	DEC 18	2018
1. EAF (%)	96.9	99.7	97.8	57.2	99.2	100.0	100.0	97.5	99.9	77.9	90.3	98.8	93.0
2. PH	744	672	743	720	744	720	744	744	720	744	721	744	8760
3. SH	670.6	672.0	743.0	422.0	744.0	720.0	744.0	734.0	720.0	582.0	711.2	743.8	8206.6
4. RSH	58.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	58.5
5. UH	15.0	0.0	8.3	298.4	0.0	0.0	0.0	10.2	0.0	161.6	9.8	0.1	503.4
6. POH	0.0	0.0	0.0	298.4	0.0	0.0	0.0	0.0	0.0	160.1	9.8	0.0	468.3
7. FOH	0.0	0.0	8.3	0.0	0.0	0.0	0.0	1.6	0.0	1.5	0.0	0.1	11.6
8. MOH	15.0	0.0	0.0	0.0	0.0	0.0	0.0	8.5	0.0	0.0	0.0	0.0	23.5
9. PFOH	39.6	10.0	19.4	10.3	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	88.5
10. LR PF (MW)	82.0	82.0	82.0	79.0	69.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.3
11. PMOH	39.9	9.9	55.6	48.8	45.0	0.0	0.0	75.6	7.7	23.3	444.4	88.8	839.1
12. LR PM (MW)	82.0	82.0	82.0	128.2	79.0	0.0	0.0	79.0	79.0	79.0	94.8	79.0	90.6
13. NSC (MW)	792	792	792	701	701	701	701	701	701	701	701	792	731
14. OPR BTU(GBTU)	1633.0960	2454.5140	2329.2960	1223.2730	2130.9140	2323.0760	2270.9850	2084.9620	2209.4130	1653.3620	1888.3810	1994.5176	24195.7896
15. NET GEN (MWH)	217843	332848	308710	162902	285477	306014	307294	281179	295733	217768	255869	266201	3237839
16. ANOHR (BTU/KWH)	7497	7374	7545	7509	7464	7591	7390	7415	7471	7592	7380	7493	7473
17. NOF (%)	41.0	62.5	52.5	55.1	54.7	60.6	58.9	54.6	58.6	53.4	51.3	45.2	53.9
18. NPC (MW)	792	792	792	701	701	701	701	701	701	701	701	792	731
19. ANOHR EQUATION	ANOHR = NOF ( -1.982 ) + 7,468												

ORIGINAL SHEET NO. 8.401.18A  
TAMPA ELECTRIC COMPANY

ACTUAL UNIT PERFORMANCE DATA

JANUARY 2018 - DECEMBER 2018

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
BAYSIDE UNIT 2	JAN 18	FEB 18	MAR 18	APR 18	MAY 18	JUN 18	JUL 18	AUG 18	SEP 18	OCT 18	NOV 18	DEC 18	2018
1. EAF (%)	89.7	0.0	0.0	55.2	93.9	97.0	97.5	97.1	97.6	98.2	92.1	99.6	77.1
2. PH	744	672	743	720	744	720	744	744	720	744	721	744	8760
3. SH	695.6	0.0	0.0	405.0	708.2	720.0	743.0	736.0	720.0	744.0	721.0	744.0	6936.8
4. RSH	0.0	0.0	0.0	12.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.8
5. UH	58.1	672.0	743.0	317.4	40.8	0.0	1.0	7.5	0.0	0.0	1.2	0.0	1841.0
6. POH	12.6	672.0	743.0	290.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1718.0
7. FOH	45.5	0.0	0.0	27.0	0.0	0.0	1.0	7.5	0.0	0.0	1.2	0.0	82.3
8. MOH	0.0	0.0	0.0	0.0	40.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.8
9. PFOH	9.4	0.0	0.0	65.5	51.0	0.0	3.8	0.9	0.0	0.0	0.0	0.0	130.5
10. LR PF (MW)	79.0	0.0	0.0	74.3	77.0	0.0	77.0	77.0	0.0	0.0	0.0	0.0	75.8
11. PMOH	231.8	0.0	0.0	3.5	8.3	272.0	475.6	176.2	210.8	171.3	355.7	35.4	1940.5
12. LR PM (MW)	79.3	0.0	0.0	77.0	77.0	72.7	34.2	75.5	77.0	73.0	145.3	77.0	78.2
13. NSC (MW)	1047	1047	1047	929	929	929	929	929	929	929	929	1047	968
14. OPR BTU(GBTU)	1818.3620	0.0000	0.0000	1418.0970	2605.2610	2515.5910	2584.7760	2907.1750	2938.8620	3123.0520	2635.4040	2907.8789	25454.4589
15. NET GEN (MWH)	232588	-3128	-3411	187162	347726	330641	349617	392400	394088	412229	348754	388516	3377182
16. ANOHR (BTU/KWH)	7818	0	0	7577	7492	7608	7393	7409	7457	7576	7557	7485	7537
17. NOF (%)	31.9	0.0	0.0	49.7	52.9	49.4	50.7	57.4	58.9	59.6	52.1	49.9	50.3
18. NPC (MW)	1047	1047	1047	929	929	929	929	929	929	929	929	1047	968
19. ANOHR EQUATION	ANOHR = NOF ( -4.675 ) + 7,715												

7

**Tampa Electric Company  
Outage Listing  
(12/01/2018 - 12/31/2018)**

**Unit: BIG BEND 2      MDC: 420      Run Date: 1/7/2019**

Event Number	Event Type	Start Date	Start Time	End Date	End Time	Duration (Hours)	Unit Cap	Cause Code	Equipment Group	Event Description
EVNT_NO	EVNT_TYPE	START_DATE	START_TIME	EV_DATE	EV_TIME	CALCHRS	GAC	CAUSE_CODE	GRPNAME	VERB_DESC
51	Planned Outage	12/01/2018	05:00:00	12/21/2018	16:35:00	491.58	0	3270	BLPT	Structural work at screenwell. Circulating water pumps
52	Reserve Shutdown	12/21/2018	16:35:00	01/01/2019	00:00:00	247.42	0	0000	UNKN	RESERVE SHUTDOWN
53	Reserve Shutdown	11/29/2018	09:52:00	12/01/2018	05:00:00	5	0	0000	UNKN	RESERVE SHUTDOWN

**Tampa Electric Company  
Outage Listing  
(12/01/2018 - 12/31/2018)**

**Unit: BIG BEND 3      MDC: 425      Run Date: 1/7/2019**

Event Number	Event Type	Start Date	Start Time	End Date	End Time	Duration (Hours)	Unit Cap	Cause Code	Equipment Group	Event Description
EVNT_NO	EVNT_TYPE	START_DATE	START_TIME	EV_DATE	EV_TIME	CALCHRS	GAC	CAUSE_CODE	GRPNAME	VERB_DESC
65	Reserve Shutdown	12/09/2018	23:35:00	12/11/2018	10:00:00	34.42	0	0000	UNKN	RESERVE SHUTDOWN
66	Maintenance Outage	12/11/2018	10:00:00	12/13/2018	12:00:00	50	0	1040	BLR	SH header leak repairs.
67	Reserve Shutdown	12/13/2018	12:00:00	01/01/2019	00:00:00	444	0	0000	UNKN	RESERVE SHUTDOWN

**Tampa Electric Company  
Outage Listing  
(12/01/2018 - 12/31/2018)**

**Unit: BIG BEND 4 MDC: 475 Run Date: 1/7/2019**

Event Number	Event Type	Start Date	Start Time	End Date	End Time	Duration (Hours)	Unit Cap	Cause Code	Equipment Group	Event Description
EVNT_NO	EVNT_TYPE	START_DATE	START_TIME	EV_DATE	EV_TIME	CALCHRS	GAC	CAUSE_CODE	GRPNAME	VERB_DESC
46	Partial Forced Immed	06/22/2018	09:00:00	12/11/2018	07:00:00	0.75	400	8262	POLL	C Booster fan amp limits
46	Partial Forced Immed	06/22/2018	09:00:00	12/11/2018	07:00:00	1.93	400	8262	POLL	C Booster fan amp limits
46	Partial Forced Immed	06/22/2018	09:00:00	12/11/2018	07:00:00	2.87	400	8262	POLL	C Booster fan amp limits
46	Partial Forced Immed	06/22/2018	09:00:00	12/11/2018	07:00:00	170.88	400	8262	POLL	C Booster fan amp limits
46	Partial Forced Immed	06/22/2018	09:00:00	12/11/2018	07:00:00	70.57	400	8262	POLL	C Booster fan amp limits
59	Partial Forced Immed	07/24/2018	14:30:00	12/11/2018	07:00:00	0.75	390	1455	BLR	ID Fans high amp limits
59	Partial Forced Immed	07/24/2018	14:30:00	12/11/2018	07:00:00	1.93	390	1455	BLR	ID Fans high amp limits
59	Partial Forced Immed	07/24/2018	14:30:00	12/11/2018	07:00:00	2.87	390	1455	BLR	ID Fans high amp limits
59	Partial Forced Immed	07/24/2018	14:30:00	12/11/2018	07:00:00	170.88	390	1455	BLR	ID Fans high amp limits
59	Partial Forced Immed	07/24/2018	14:30:00	12/11/2018	07:00:00	70.57	390	1455	BLR	ID Fans high amp limits
76	Partial Forced Immed	09/30/2018	14:43:00	12/08/2018	08:26:00	0.75	385	8551	POLL	High PM indications.T/R sets grounded
76	Partial Forced Immed	09/30/2018	14:43:00	12/08/2018	08:26:00	1.93	385	8551	POLL	High PM indications.T/R sets grounded
76	Partial Forced Immed	09/30/2018	14:43:00	12/08/2018	08:26:00	2.87	385	8551	POLL	High PM indications.T/R sets grounded
76	Partial Forced Immed	09/30/2018	14:43:00	12/08/2018	08:26:00	170.88	385	8551	POLL	High PM indications.T/R sets grounded
89	Partial Forced Immed	11/29/2018	00:00:00	12/08/2018	08:26:00	0.75	335	4260	TURB	Main steam stop valve strainer indicates high different
89	Partial Forced Immed	11/29/2018	00:00:00	12/08/2018	08:26:00	1.93	335	4260	TURB	Main steam stop valve strainer indicates high different
89	Partial Forced Immed	11/29/2018	00:00:00	12/08/2018	08:26:00	2.87	335	4260	TURB	Main steam stop valve strainer indicates high different
89	Partial Forced Immed	11/29/2018	00:00:00	12/08/2018	08:26:00	170.88	335	4260	TURB	Main steam stop valve strainer indicates high different
90	Full Forced Immed	12/01/2018	00:45:00	12/01/2018	02:41:00	1.93	0	0359	BLR	1N Gas igniter trifecta valve failed to close causing a n
91	Maintenance Outage	12/01/2018	05:33:00	12/08/2018	08:26:00	170.88	0	4260	TURB	Main steam stop valve strainer cleaning.
92	Partial Forced Immed	12/11/2018	07:00:00	01/01/2019	00:00:00	26.5	410	1455	BLR	ID Fans high amp limits
92	Partial Forced Immed	12/11/2018	07:00:00	01/01/2019	00:00:00	20.5	410	1455	BLR	ID Fans high amp limits
92	Partial Forced Immed	12/11/2018	07:00:00	01/01/2019	00:00:00	84.92	410	1455	BLR	ID Fans high amp limits
92	Partial Forced Immed	12/11/2018	07:00:00	01/01/2019	00:00:00	1.17	410	1455	BLR	ID Fans high amp limits
92	Partial Forced Immed	12/11/2018	07:00:00	01/01/2019	00:00:00	363.92	410	1455	BLR	ID Fans high amp limits
93	Partial Forced Immed	12/12/2018	09:30:00	12/13/2018	06:00:00	20.5	405	1510	BLR	FGD common inlet duct leaks causing excessive partic
94	Partial Forced Immed	12/13/2018	06:00:00	01/01/2019	00:00:00	84.92	400	1510	BLR	FGD common inlet duct leaks causing excessive partic
94	Partial Forced Immed	12/13/2018	06:00:00	01/01/2019	00:00:00	1.17	400	1510	BLR	FGD common inlet duct leaks causing excessive partic

**Tampa Electric Company  
Outage Listing  
(12/01/2018 - 12/31/2018)**

**Unit: BIG BEND 4      MDC: 475      Run Date: 1/7/2019**

Event Number	Event Type	Start Date	Start Time	End Date	End Time	Duration (Hours)	Unit Cap	Cause Code	Equipment Group	Event Description
EVNT_NO	EVNT_TYPE	START_DATE	START_TIME	EV_DATE	EV_TIME	CALCHRS	GAC	CAUSE_CODE	GRPNAME	VERB_DESC
94	Partial Forced Immed	12/13/2018	06:00:00	01/01/2019	00:00:00	363.92	400	1510	BLR	FGD common inlet duct leaks causing excessive partic
95	Partial Forced Immed	12/16/2018	18:55:00	12/16/2018	20:05:00	1.17	225	1400	BLR	A FD fan tripped due to high vibration
96	Noncurtailing	12/20/2018	08:00:00	12/20/2018	11:25:00	3.42	120	3631	BLPT	Ground on Substation C caused three mills to trip. Gas

**Tampa Electric Company  
Outage Listing  
(12/01/2018 - 12/31/2018)**

**Unit: POLK 1 MDC: 290 Run Date: 1/7/2019**

Event Number	Event Type	Start Date	Start Time	End Date	End Time	Duration (Hours)	Unit Cap	Cause Code	Equipment Group	Event Description
EVNT_NO	EVNT_TYPE	START_DATE	START_TIME	EV_DATE	EV_TIME	CALCHRS	GAC	CAUSE_CODE	GRPNAME	VERB_DESC
62	Planned Outage Extension	11/21/2018	18:00:00	12/21/2018	11:01:00	491.02	0	5260	GAST	Alignmet issues with rotor required teardown to pedest
63	Planned Derating	11/21/2018	18:00:00	01/01/2019	00:00:00	491.02	200	6399	GASF	Gasification planned outage extension due to economi
63	Planned Derating	11/21/2018	18:00:00	01/01/2019	00:00:00	0.08	200	6399	GASF	Gasification planned outage extension due to economi
63	Planned Derating	11/21/2018	18:00:00	01/01/2019	00:00:00	4.02	200	6399	GASF	Gasification planned outage extension due to economi
63	Planned Derating	11/21/2018	18:00:00	01/01/2019	00:00:00	2.63	200	6399	GASF	Gasification planned outage extension due to economi
63	Planned Derating	11/21/2018	18:00:00	01/01/2019	00:00:00	7.4	200	6399	GASF	Gasification planned outage extension due to economi
63	Planned Derating	11/21/2018	18:00:00	01/01/2019	00:00:00	2.25	200	6399	GASF	Gasification planned outage extension due to economi
63	Planned Derating	11/21/2018	18:00:00	01/01/2019	00:00:00	136.62	200	6399	GASF	Gasification planned outage extension due to economi
63	Planned Derating	11/21/2018	18:00:00	01/01/2019	00:00:00	5.35	200	6399	GASF	Gasification planned outage extension due to economi
63	Planned Derating	11/21/2018	18:00:00	01/01/2019	00:00:00	57.78	200	6399	GASF	Gasification planned outage extension due to economi
63	Planned Derating	11/21/2018	18:00:00	01/01/2019	00:00:00	24	200	6399	GASF	Gasification planned outage extension due to economi
63	Planned Derating	11/21/2018	18:00:00	01/01/2019	00:00:00	12.85	200	6399	GASF	Gasification planned outage extension due to economi
64	Full Forced Immed	12/21/2018	11:06:00	12/21/2018	15:07:00	4.02	0	9300	EXTL	Issues with Generator protection project items
65	Full Forced Immed	12/21/2018	17:45:00	12/21/2018	20:00:00	2.25	0	5250	GAST	GTG tripped, NOx Steam injection flamed GTG out
66	Reserve Shutdown	12/21/2018	20:00:00	12/27/2018	12:37:00	136.62	0	0000	UNKN	RESERVE SHUTDOWN, Emergency use only...conce
67	Reserve Shutdown	12/27/2018	17:58:00	12/30/2018	03:45:00	57.78	0	0000	UNKN	RESERVE SHUTDOWN
68	Maintenance Outage	12/31/2018	03:45:00	12/31/2018	16:36:00	12.85	0	5261	GAST	GTG Water wash system post outage checkout functio
69	Reserve Shutdown	12/31/2018	16:36:00	01/01/2019	00:00:00	7.4	0	0000	UNKN	RESERVE SHUTDOWN

12

**Tampa Electric Company  
Outage Listing  
(12/01/2018 - 12/31/2018)**

**Unit: POLK 2ST MDC: 499 Run Date: 1/7/2019**

Event Number	Event Type	Start Date	Start Time	End Date	End Time	Duration (Hours)	Unit Cap	Cause Code	Equipment Group	Event Description
EVNT_NO	EVNT_TYPE	START_DATE	START_TIME	EV_DATE	EV_TIME	CALCHRS	GAC	CAUSE_CODE	GRPNAME	VERB_DESC
62	Planned Derating	11/25/2018	21:02:00	12/02/2018	12:00:00	36	359	5272	GAST	GTG4 EBI, HRSG Gas Path Inspections, Blowdown T
63	Planned Derating	11/25/2018	22:36:00	12/07/2018	18:48:00	36	239	5272	GAST	GTG3 EBI, HRSG Drum Internal Inspections, Gas Path
63	Planned Derating	11/25/2018	22:36:00	12/07/2018	18:48:00	126.8	239	5272	GAST	GTG3 EBI, HRSG Drum Internal Inspections, Gas Path
64	Full Forced Immed	12/07/2018	20:29:00	12/07/2018	21:09:00	0.67	0	4199	TURB	Hot Reheat differential trip, GTG2 load reduce for liqui
65	Partial Forced Immed	12/08/2018	00:32:00	12/08/2018	03:41:00	3.15	250	5120	GAST	GTG5 Return to service from Simple Cycle
66	Partial Forced Immed	12/07/2018	20:32:00	12/08/2018	00:32:00	0.62	125	5109	GAST	HRSG#4 and #5 DivDamp rolled by operator upon STC
66	Partial Forced Immed	12/07/2018	20:32:00	12/08/2018	00:32:00	3.38	125	5109	GAST	HRSG#4 and #5 DivDamp rolled by operator upon STC
67	Partial Forced Immed	12/07/2018	19:51:00	12/07/2018	20:32:00	0.63	374	9910	PERS	HRSG3 MP Door Gasket leak following internal inspec
67	Partial Forced Immed	12/07/2018	19:51:00	12/07/2018	20:32:00	0.05	374	9910	PERS	HRSG3 MP Door Gasket leak following internal inspec
68	Partial Forced Immed	12/11/2018	03:42:00	12/11/2018	04:42:00	1	359	6299	COMB	GTG3 tripped due to high superheat temperature
69	Partial Forced Immed	12/08/2018	03:41:00	12/08/2018	05:30:00	1.37	375	6299	COMB	GTG4 Return to service from Simple Cycle
69	Partial Forced Immed	12/08/2018	03:41:00	12/08/2018	05:30:00	0.45	375	6299	COMB	GTG4 Return to service from Simple Cycle
70	Planned Derating	12/08/2018	05:03:00	12/08/2018	21:16:00	0.45	250	6299	COMB	HRSG#2 Internal Drum inspections & sampling & GTG3
70	Planned Derating	12/08/2018	05:03:00	12/08/2018	21:16:00	15.77	250	6299	COMB	HRSG#2 Internal Drum inspections & sampling & GTG3
71	Partial Forced Immed	12/08/2018	21:16:00	12/19/2018	14:08:00	54.43	375	6299	COMB	HRSG#2 Internal Drum inspections & sampling
71	Partial Forced Immed	12/08/2018	21:16:00	12/19/2018	14:08:00	1	375	6299	COMB	HRSG#2 Internal Drum inspections & sampling
71	Partial Forced Immed	12/08/2018	21:16:00	12/19/2018	14:08:00	201.43	375	6299	COMB	HRSG#2 Internal Drum inspections & sampling



**Tampa Electric Company  
Outage Listing  
(12/01/2018 - 12/31/2018)**

**Unit: POLK 2      MDC: 181      Run Date: 1/7/2019**

Event Number	Event Type	Start Date	Start Time	End Date	End Time	Duration (Hours)	Unit Cap	Cause Code	Equipment Group	Event Description
EVNT_NO	EVNT_TYPE	START_DATE	START_TIME	EV_DATE	EV_TIME	CALCHRS	GAC	CAUSE_CODE	GRPNAME	VERB_DESC
65	Maintenance Outage	12/08/2018	05:03:00	12/19/2018	14:08:00	273.08	0	6299	COMB	HRSG Internal Drum inspections & sampling
66	Reserve Shutdown	12/20/2018	21:25:00	12/21/2018	07:00:00	9.58	0	0000	UNKN	RESERVE SHUTDOWN
67	Reserve Shutdown	12/24/2018	21:13:00	12/25/2018	07:29:00	10.27	0	0000	UNKN	RESERVE SHUTDOWN
68	Reserve Shutdown	12/25/2018	22:34:00	12/26/2018	06:24:00	7.83	0	0000	UNKN	RESERVE SHUTDOWN
69	Reserve Shutdown	12/27/2018	22:20:00	12/28/2018	05:50:00	7.5	0	0000	UNKN	RESERVE SHUTDOWN

**Tampa Electric Company  
Outage Listing  
(12/01/2018 - 12/31/2018)**

**Unit: POLK 3      MDC: 181      Run Date: 1/7/2019**

Event Number	Event Type	Start Date	Start Time	End Date	End Time	Duration (Hours)	Unit Cap	Cause Code	Equipment Group	Event Description
EVNT_NO	EVNT_TYPE	START_DATE	START_TIME	EV_DATE	EV_TIME	CALCHRS	GAC	CAUSE_CODE	GRPNAME	VERB_DESC
72	Planned Outage	11/25/2018	22:36:00	12/07/2018	18:48:00	162.8	0	5272	GAST	EBI, Drum Internal Inspections, HRSG Inspections
73	Full Forced Immed	12/07/2018	18:53:00	12/07/2018	19:03:00	0.17	0	5109	GAST	Exhaust Frame Blower not starting properly, tripped G`
74	Full Forced Immed	12/07/2018	19:07:00	12/07/2018	19:11:00	0.07	0	5109	GAST	Exhaust Frame Blower not starting properly, tripped G`
75	Full Forced Immed	12/07/2018	19:51:00	12/08/2018	21:16:00	25.42	0	9910	PERS	HRSG MP Door Gasket leak following internal inspecti
76	Reserve Shutdown	12/11/2018	01:02:00	12/11/2018	03:15:00	2.22	0	0000	UNKN	RESERVE SHUTDOWN
77	Full Forced Immed	12/11/2018	03:42:00	12/11/2018	04:42:00	1	0	6299	COMB	GTG tripped due to high superheat temperature, HP S
78	Reserve Shutdown	12/11/2018	04:42:00	12/11/2018	10:23:00	5.68	0	0000	UNKN	RESERVE SHUTDOWN
79	Reserve Shutdown	12/23/2018	08:08:00	12/23/2018	17:03:00	8.92	0	0000	UNKN	RESERVE SHUTDOWN
80	Reserve Shutdown	12/26/2018	23:31:00	12/27/2018	10:44:00	11.22	0	0000	UNKN	RESERVE SHUTDOWN

**Tampa Electric Company  
Outage Listing  
(12/01/2018 - 12/31/2018)**

**Unit: POLK 4      MDC: 181      Run Date: 1/7/2019**

Event Number	Event Type	Start Date	Start Time	End Date	End Time	Duration (Hours)	Unit Cap	Cause Code	Equipment Group	Event Description
EVNT_NO	EVNT_TYPE	START_DATE	START_TIME	EV_DATE	EV_TIME	CALCHRS	GAC	CAUSE_CODE	GRPNAME	VERB_DESC
60	Planned Outage	11/25/2018	21:02:00	12/02/2018	12:00:00	36	0	5274	GAST	EBI,HRSG Inspections
61	Full Forced Immed	12/02/2018	12:00:00	12/02/2018	20:12:00	8.2	0	5120	GAST	Hydraulic System oil leak, discovered upon start, requi
62	Reserve Shutdown	12/08/2018	01:29:00	12/08/2018	02:17:00	0.8	0	0000	UNKN	Reserve Shutdown, DivDamp to SimCyc by operator, s
63	Full Forced Immed	12/08/2018	02:55:00	12/08/2018	03:41:00	0.77	0	9900	PERS	HRSG MP Drum Low Level trip GTG, operator has Lvl
64	Reserve Shutdown	12/09/2018	00:39:00	12/09/2018	07:40:00	7.02	0	0000	UNKN	RESERVE SHUTDOWN
65	Reserve Shutdown	12/28/2018	21:54:00	12/29/2018	07:35:00	9.68	0	0000	UNKN	RESERVE SHUTDOWN

**Tampa Electric Company  
Outage Listing  
(12/01/2018 - 12/31/2018)**

**Unit: POLK 5      MDC: 181      Run Date: 1/7/2019**

Event Number	Event Type	Start Date	Start Time	End Date	End Time	Duration (Hours)	Unit Cap	Cause Code	Equipment Group	Event Description
EVNT_NO	EVNT_TYPE	START_DATE	START_TIME	EV_DATE	EV_TIME	CALCHRS	GAC	CAUSE_CODE	GRPNAME	VERB_DESC
74	Reserve Shutdown	12/07/2018	21:37:00	12/07/2018	22:24:00	0.78	0	0000	UNKN	Reserve Shutdown, DivDamp to SimCyc by operator, 5
75	Full Forced Immed	12/07/2018	23:12:00	12/08/2018	00:32:00	1.33	0	5120	GAST	Hydraulic System low Oil Pressure trip, pressure cyclir
76	Reserve Shutdown	12/10/2018	00:06:00	12/10/2018	07:56:00	7.83	0	0000	UNKN	RESERVE SHUTDOWN
77	Reserve Shutdown	12/15/2018	00:50:00	12/15/2018	07:30:00	6.67	0	0000	UNKN	RESERVE SHUTDOWN
78	Reserve Shutdown	12/16/2018	00:29:00	12/16/2018	08:42:00	8.22	0	0000	UNKN	RESERVE SHUTDOWN
79	Reserve Shutdown	12/19/2018	20:52:00	12/21/2018	10:20:00	37.47	0	0000	UNKN	RESERVE SHUTDOWN

**Tampa Electric Company  
Outage Listing  
(12/01/2018 - 12/31/2018)**

**Unit: BAYSIDE ST1      MDC: 246      Run Date: 1/7/2019**

Event Number	Event Type	Start Date	Start Time	End Date	End Time	Duration (Hours)	Unit Cap	Cause Code	Equipment Group	Event Description
EVNT_NO	EVNT_TYPE	START_DATE	START_TIME	EV_DATE	EV_TIME	CALCHRS	GAC	CAUSE_CODE	GRPNAME	VERB_DESC
40	Partial Maintenance	12/04/2018	03:14:00	12/05/2018	20:37:00	41.38	167	0670	BLR	ST1 Derated - 1A LP piping leak
41	Partial Maintenance	12/10/2018	02:56:00	12/11/2018	23:07:00	44.18	167	1090	BLR	ST1 Derated - 1C Expansion and LP Tube leak
42	Partial Maintenance	12/17/2018	05:41:00	12/17/2018	08:56:00	3.25	167	4720	GEN	ST1 Derated - 1C Mark VI Card Failure

**Tampa Electric Company  
Outage Listing  
(12/01/2018 - 12/31/2018)**

**Unit: BAYSIDE CT1A MDC: 185 Run Date: 1/7/2019**

Event Number	Event Type	Start Date	Start Time	End Date	End Time	Duration (Hours)	Unit Cap	Cause Code	Equipment Group	Event Description
EVNT_NO	EVNT_TYPE	START_DATE	START_TIME	EV_DATE	EV_TIME	CALCHRS	GAC	CAUSE_CODE	GRPNAME	VERB_DESC
170	Reserve Shutdown	12/01/2018	22:09:00	12/02/2018	09:44:00	11.58	0	0000	UNKN	RESERVE SHUTDOWN
171	Reserve Shutdown	12/03/2018	23:06:00	12/04/2018	03:13:00	4.12	0	0000	UNKN	RESERVE SHUTDOWN
172	Maintenance Outage	12/04/2018	03:14:00	12/05/2018	20:37:00	41.38	0	3834	BLPT	LP piping tube leak
173	Reserve Shutdown	12/05/2018	20:38:00	12/06/2018	05:22:00	8.73	0	0000	UNKN	RESERVE SHUTDOWN
174	Reserve Shutdown	12/07/2018	22:51:00	12/08/2018	06:58:00	8.12	0	0000	UNKN	RESERVE SHUTDOWN
175	Reserve Shutdown	12/08/2018	22:12:00	12/10/2018	04:42:00	30.5	0	0000	UNKN	RESERVE SHUTDOWN
176	Reserve Shutdown	12/12/2018	10:37:00	12/13/2018	15:20:00	28.72	0	0000	UNKN	RESERVE SHUTDOWN
177	Reserve Shutdown	12/13/2018	20:55:00	12/14/2018	07:03:00	10.13	0	0000	UNKN	RESERVE SHUTDOWN
178	Reserve Shutdown	12/16/2018	22:59:00	12/17/2018	05:50:00	6.85	0	0000	UNKN	RESERVE SHUTDOWN
179	Reserve Shutdown	12/17/2018	23:37:00	12/18/2018	05:53:00	6.27	0	0000	UNKN	RESERVE SHUTDOWN
180	Reserve Shutdown	12/18/2018	21:14:00	12/20/2018	05:52:00	32.63	0	0000	UNKN	RESERVE SHUTDOWN
181	Reserve Shutdown	12/21/2018	22:08:00	12/22/2018	07:28:00	9.33	0	0000	UNKN	RESERVE SHUTDOWN
182	Reserve Shutdown	12/22/2018	23:58:00	12/23/2018	07:09:00	7.18	0	0000	UNKN	RESERVE SHUTDOWN
183	Reserve Shutdown	12/23/2018	23:17:00	12/25/2018	08:36:00	33.32	0	0000	UNKN	RESERVE SHUTDOWN
184	Reserve Shutdown	12/28/2018	00:14:00	12/28/2018	12:46:00	12.53	0	0000	UNKN	RESERVE SHUTDOWN
185	Reserve Shutdown	12/28/2018	20:02:00	12/29/2018	10:58:00	14.93	0	0000	UNKN	RESERVE SHUTDOWN
186	Reserve Shutdown	12/31/2018	20:51:00	12/31/2018	23:59:00	3.13	0	0000	UNKN	RESERVE SHUTDOWN

**Tampa Electric Company  
Outage Listing  
(12/01/2018 - 12/31/2018)**

**Unit: BAYSIDE CT1B      MDC: 185      Run Date: 1/7/2019**

Event Number	Event Type	Start Date	Start Time	End Date	End Time	Duration (Hours)	Unit Cap	Cause Code	Equipment Group	Event Description
EVNT_NO	EVNT_TYPE	START_DATE	START_TIME	EV_DATE	EV_TIME	CALCHRS	GAC	CAUSE_CODE	GRPNAME	VERB_DESC
177	Reserve Shutdown	12/01/2018	00:00:00	12/01/2018	10:50:00	10.83	0	0000	UNKN	RESERVE SHUTDOWN
178	Reserve Shutdown	12/01/2018	23:44:00	12/02/2018	08:23:00	8.65	0	0000	UNKN	RESERVE SHUTDOWN
179	Reserve Shutdown	12/02/2018	23:09:00	12/03/2018	09:22:00	10.22	0	0000	UNKN	RESERVE SHUTDOWN
180	Reserve Shutdown	12/06/2018	22:27:00	12/07/2018	05:33:00	7.1	0	0000	UNKN	RESERVE SHUTDOWN
181	Reserve Shutdown	12/08/2018	20:46:00	12/09/2018	09:39:00	12.88	0	0000	UNKN	RESERVE SHUTDOWN
182	Reserve Shutdown	12/10/2018	21:21:00	12/11/2018	04:14:00	6.88	0	0000	UNKN	RESERVE SHUTDOWN
183	Reserve Shutdown	12/12/2018	22:26:00	12/13/2018	16:45:00	18.32	0	0000	UNKN	RESERVE SHUTDOWN
185	Reserve Shutdown	12/14/2018	21:30:00	12/16/2018	06:17:00	32.78	0	0000	UNKN	RESERVE SHUTDOWN
186	Reserve Shutdown	12/17/2018	21:53:00	12/18/2018	05:22:00	7.48	0	0000	UNKN	RESERVE SHUTDOWN
187	Startup Failure	12/18/2018	05:22:00	12/18/2018	06:00:00	0.63	0	5079	GAST	Interstage pressure high caused trip
188	Reserve Shutdown	12/18/2018	06:01:00	12/19/2018	05:06:00	23.08	0	0000	UNKN	RESERVE SHUTDOWN
189	Reserve Shutdown	12/19/2018	22:08:00	12/23/2018	03:44:00	77.6	0	0000	UNKN	RESERVE SHUTDOWN
190	Reserve Shutdown	12/24/2018	10:33:00	12/26/2018	16:16:00	53.72	0	0000	UNKN	RESERVE SHUTDOWN
191	Reserve Shutdown	12/26/2018	21:46:00	12/27/2018	06:39:00	8.88	0	0000	UNKN	RESERVE SHUTDOWN
192	Reserve Shutdown	12/28/2018	23:15:00	12/29/2018	14:40:00	15.42	0	0000	UNKN	RESERVE SHUTDOWN
193	Reserve Shutdown	12/30/2018	00:01:00	12/30/2018	14:00:00	13.98	0	0000	UNKN	RESERVE SHUTDOWN
194	Reserve Shutdown	12/30/2018	20:21:00	12/31/2018	06:23:00	10.03	0	0000	UNKN	RESERVE SHUTDOWN

20

**Tampa Electric Company  
Outage Listing  
(12/01/2018 - 12/31/2018)**

**Unit: BAYSIDE CT1C MDC: 185 Run Date: 1/7/2019**

Event Number	Event Type	Start Date	Start Time	End Date	End Time	Duration (Hours)	Unit Cap	Cause Code	Equipment Group	Event Description
EVNT_NO	EVNT_TYPE	START_DATE	START_TIME	EV_DATE	EV_TIME	CALCHRS	GAC	CAUSE_CODE	GRPNAME	VERB_DESC
185	Reserve Shutdown	12/04/2018	22:21:00	12/05/2018	06:35:00	8.23	0	0000	UNKN	RESERVE SHUTDOWN
186	Reserve Shutdown	12/06/2018	23:52:00	12/08/2018	05:10:00	29.3	0	0000	UNKN	RESERVE SHUTDOWN
187	Reserve Shutdown	12/09/2018	21:55:00	12/10/2018	02:55:00	5	0	0000	UNKN	RESERVE SHUTDOWN
188	Maintenance Outage	12/10/2018	02:56:00	12/11/2018	23:07:00	44.18	0	6299	COMB	Expansion joint leak, and HRSG LP leak
189	Reserve Shutdown	12/11/2018	23:08:00	12/11/2018	23:32:00	0.4	0	0000	UNKN	RESERVE SHUTDOWN
190	Reserve Shutdown	12/13/2018	23:09:00	12/17/2018	05:40:00	78.52	0	0000	UNKN	RESERVE SHUTDOWN
191	Maintenance Outage	12/17/2018	05:41:00	12/17/2018	08:56:00	3.25	0	4720	GEN	Mark VI card failure
192	Reserve Shutdown	12/17/2018	08:57:00	12/17/2018	09:30:00	0.55	0	0000	UNKN	RESERVE SHUTDOWN
193	Reserve Shutdown	12/23/2018	10:01:00	12/24/2018	05:40:00	19.65	0	0000	UNKN	RESERVE SHUTDOWN
194	Reserve Shutdown	12/25/2018	11:12:00	12/28/2018	08:51:00	69.65	0	0000	UNKN	RESERVE SHUTDOWN
195	Reserve Shutdown	12/29/2018	22:56:00	12/30/2018	09:56:00	11	0	0000	UNKN	RESERVE SHUTDOWN
196	Reserve Shutdown	12/30/2018	23:06:00	12/31/2018	13:19:00	14.22	0	0000	UNKN	RESERVE SHUTDOWN
197	Reserve Shutdown	12/31/2018	23:53:00	12/31/2018	23:59:00	0.1	0	0000	UNKN	RESERVE SHUTDOWN



**Tampa Electric Company  
Outage Listing  
(12/01/2018 - 12/31/2018)**

**Unit: BAYSIDE ST2      MDC: 318      Run Date: 1/7/2019**

Event Number	Event Type	Start Date	Start Time	End Date	End Time	Duration (Hours)	Unit Cap	Cause Code	Equipment Group	Event Description
EVNT_NO	EVNT_TYPE	START_DATE	START_TIME	EV_DATE	EV_TIME	CALCHRS	GAC	CAUSE_CODE	GRPNAME	VERB_DESC
66	Partial Maintenance	12/14/2018	02:35:00	12/14/2018	09:03:00	6.47	241	1999	BLR	ST2 Derated - 2B Economizer vent piping repair
67	Partial Maintenance	12/30/2018	19:01:00	12/31/2018	23:59:00	28.97	241	3499	BLPT	ST2 Derated - 2D water valve replacement

**Tampa Electric Company  
Outage Listing  
(12/01/2018 - 12/31/2018)**

**Unit: BAYSIDE CT2A      MDC: 185      Run Date: 1/7/2019**

Event Number	Event Type	Start Date	Start Time	End Date	End Time	Duration (Hours)	Unit Cap	Cause Code	Equipment Group	Event Description
EVNT_NO	EVNT_TYPE	START_DATE	START_TIME	EV_DATE	EV_TIME	CALCHRS	GAC	CAUSE_CODE	GRPNAME	VERB_DESC
197	Reserve Shutdown	12/02/2018	22:23:00	12/03/2018	06:41:00	8.3	0	0000	UNKN	RESERVE SHUTDOWN
198	Reserve Shutdown	12/04/2018	23:58:00	12/05/2018	16:25:00	16.45	0	0000	UNKN	RESERVE SHUTDOWN
199	Reserve Shutdown	12/06/2018	08:32:00	12/07/2018	04:32:00	20	0	0000	UNKN	RESERVE SHUTDOWN
200	Reserve Shutdown	12/07/2018	08:55:00	12/07/2018	21:01:00	12.1	0	0000	UNKN	RESERVE SHUTDOWN
201	Reserve Shutdown	12/08/2018	02:17:00	12/08/2018	16:20:00	14.05	0	0000	UNKN	RESERVE SHUTDOWN
202	Reserve Shutdown	12/08/2018	22:50:00	12/10/2018	16:39:00	41.82	0	0000	UNKN	RESERVE SHUTDOWN
203	Reserve Shutdown	12/11/2018	11:52:00	12/11/2018	18:47:00	6.92	0	0000	UNKN	RESERVE SHUTDOWN
204	Reserve Shutdown	12/12/2018	21:37:00	12/13/2018	04:59:00	7.37	0	0000	UNKN	RESERVE SHUTDOWN
205	Reserve Shutdown	12/13/2018	15:49:00	12/14/2018	13:03:00	21.23	0	0000	UNKN	RESERVE SHUTDOWN
206	Reserve Shutdown	12/14/2018	23:14:00	12/15/2018	09:48:00	10.57	0	0000	UNKN	RESERVE SHUTDOWN
207	Reserve Shutdown	12/15/2018	22:01:00	12/17/2018	04:36:00	30.58	0	0000	UNKN	RESERVE SHUTDOWN
208	Reserve Shutdown	12/18/2018	22:57:00	12/20/2018	11:59:00	37.03	0	0000	UNKN	RESERVE SHUTDOWN
209	Reserve Shutdown	12/20/2018	22:04:00	12/23/2018	06:23:00	56.32	0	0000	UNKN	RESERVE SHUTDOWN
210	Reserve Shutdown	12/23/2018	13:02:00	12/29/2018	09:06:00	140.07	0	0000	UNKN	RESERVE SHUTDOWN
211	Reserve Shutdown	12/29/2018	21:25:00	12/30/2018	08:34:00	11.15	0	0000	UNKN	RESERVE SHUTDOWN
212	Reserve Shutdown	12/30/2018	21:41:00	12/31/2018	09:42:00	12.02	0	0000	UNKN	RESERVE SHUTDOWN
213	Reserve Shutdown	12/31/2018	19:47:00	12/31/2018	23:59:00	4.2	0	0000	UNKN	RESERVE SHUTDOWN

23

**Tampa Electric Company  
Outage Listing  
(12/01/2018 - 12/31/2018)**

**Unit: BAYSIDE CT2B      MDC: 185      Run Date: 1/7/2019**

Event Number	Event Type	Start Date	Start Time	End Date	End Time	Duration (Hours)	Unit Cap	Cause Code	Equipment Group	Event Description
EVNT_NO	EVNT_TYPE	START_DATE	START_TIME	EV_DATE	EV_TIME	CALCHRS	GAC	CAUSE_CODE	GRPNAME	VERB_DESC
174	Reserve Shutdown	12/01/2018	00:00:00	12/01/2018	09:02:00	9.03	0	0000	UNKN	RESERVE SHUTDOWN
175	Reserve Shutdown	12/03/2018	21:29:00	12/04/2018	06:44:00	9.25	0	0000	UNKN	RESERVE SHUTDOWN
176	Reserve Shutdown	12/04/2018	20:28:00	12/05/2018	05:40:00	9.2	0	0000	UNKN	RESERVE SHUTDOWN
177	Reserve Shutdown	12/05/2018	14:38:00	12/06/2018	05:13:00	14.58	0	0000	UNKN	RESERVE SHUTDOWN
178	Reserve Shutdown	12/06/2018	10:04:00	12/07/2018	07:03:00	20.98	0	0000	UNKN	RESERVE SHUTDOWN
179	Reserve Shutdown	12/08/2018	00:51:00	12/08/2018	15:01:00	14.17	0	0000	UNKN	RESERVE SHUTDOWN
180	Reserve Shutdown	12/08/2018	21:45:00	12/10/2018	06:41:00	32.93	0	0000	UNKN	RESERVE SHUTDOWN
181	Reserve Shutdown	12/10/2018	22:48:00	12/11/2018	05:37:00	6.82	0	0000	UNKN	RESERVE SHUTDOWN
182	Reserve Shutdown	12/12/2018	08:34:00	12/12/2018	18:38:00	10.07	0	0000	UNKN	RESERVE SHUTDOWN
183	Reserve Shutdown	12/12/2018	23:39:00	12/14/2018	02:33:00	26.9	0	0000	UNKN	RESERVE SHUTDOWN
184	Maintenance Outage	12/14/2018	02:34:00	12/14/2018	09:03:00	6.48	0	3831	BLPT	Economizer vent piping replacement
185	Reserve Shutdown	12/14/2018	09:04:00	12/19/2018	04:35:00	115.52	0	0000	UNKN	RESERVE SHUTDOWN
186	Reserve Shutdown	12/19/2018	23:17:00	12/20/2018	08:40:00	9.38	0	0000	UNKN	RESERVE SHUTDOWN
187	Reserve Shutdown	12/21/2018	11:22:00	12/23/2018	05:32:00	42.17	0	0000	UNKN	RESERVE SHUTDOWN
188	Reserve Shutdown	12/23/2018	10:59:00	12/24/2018	07:27:00	20.47	0	0000	UNKN	RESERVE SHUTDOWN
189	Reserve Shutdown	12/24/2018	19:01:00	12/28/2018	10:46:00	87.75	0	0000	UNKN	RESERVE SHUTDOWN
190	Reserve Shutdown	12/29/2018	19:36:00	12/30/2018	12:01:00	16.42	0	0000	UNKN	RESERVE SHUTDOWN
191	Reserve Shutdown	12/31/2018	00:21:00	12/31/2018	11:31:00	11.17	0	0000	UNKN	RESERVE SHUTDOWN
192	Reserve Shutdown	12/31/2018	21:58:00	12/31/2018	23:59:00	2.02	0	0000	UNKN	RESERVE SHUTDOWN

**Tampa Electric Company  
Outage Listing  
(12/01/2018 - 12/31/2018)**

**Unit: BAYSIDE CT2C      MDC: 185      Run Date: 1/7/2019**

Event Number	Event Type	Start Date	Start Time	End Date	End Time	Duration (Hours)	Unit Cap	Cause Code	Equipment Group	Event Description
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
EVNT_NO	EVNT_TYPE	START_DATE	START_TIME	EV_DATE	EV_TIME	CALCHRS	GAC	CAUSE_CODE	GRPNAME	VERB_DESC

**Tampa Electric Company  
Outage Listing  
(12/01/2018 - 12/31/2018)**

**Unit: BAYSIDE CT2D      MDC: 185      Run Date: 1/7/2019**

Event Number	Event Type	Start Date	Start Time	End Date	End Time	Duration (Hours)	Unit Cap	Cause Code	Equipment Group	Event Description
EVNT_NO	EVNT_TYPE	START_DATE	START_TIME	EV_DATE	EV_TIME	CALCHRS	GAC	CAUSE_CODE	GRPNAME	VERB_DESC
93	Reserve Shutdown	12/29/2018	01:11:00	12/30/2018	19:00:00	41.82	0	0000	UNKN	RESERVE SHUTDOWN
94	Maintenance Outage	12/30/2018	19:01:00	12/31/2018	23:59:00	28.97	0	3839	BLPT	water sample valve replacement and clean up outage

Tampa Electric Company  
Actual Unit Performance  
Outage Listing Abbreviations and Descriptions

AGA	Acid Gas Absorber	IP	Intermediate Pressure
APH	Air Preheater	KO	Knock Out
ASU	Air Separation Unit	LCI	Load Commutated Inverter
BFP	Boiler Feed Pump	LOTO	Lock Out Tag Out
BFPT	Boiler Feed Pump Turbine	LOX	Low Oxygen
CO	Carbon Monoxide	LP	Low Pressure
CO <sub>2</sub>	Carbon Dioxide	LVDT	Linear Variable Differential Transducer
COS	Carbonyl Sulfide	MAC	Main Air Compressor
CRH	Cold Reheat	MkVIe	Mark 6e GE Logic Controller
CSC	Convective Syngas Coolers	MOC	Motor Operated Control
CT	Combustion Turbine	MOV	Motor Operated Valve
DA	Deaerator	N <sub>2</sub>	Nitrogen
DCS	Digital Control System	PLC	Programmable Logic Controller
EGT	Exit Gas Temperature	Pp	Pump
EH	Electro Hydraulic	R/R	Remove and replace
FAT	Final Absorber Tower	RATA	Relative Accuracy Test Audit
FD	Forced Draft	RSV	Reheat Stop Valve
Fdwtr	Feed water	RTD	Resistance Temperature Device
FGD	Flue Gas Desulfurization	SAP	Sulfuric Acid Plant
GEHO	Manufacturer of Slurry Pump	ST	Steam Turbine
GTG	Gas Turbine Generator	STARSS	Strategic Anti-Rotating Stall Schedule
HP	High Pressure	T/R	Transformer Rectifier
HRSR	Heat Recovery Steam Generator	TC	Thermocouple
HX	Heat Exchanger	WWTL	Water wall tube leak
IAS	Instrument Air Supply	ZBL	Zero Ball Loss condenser cleaning system
ID	Induced Draft		