

# AUSLEY & McMULLEN

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May 25, 2018

**ELECTRONIC FILING**

Ms. Carlotta Stauffer, Director  
Office of Commission Clerk  
Florida Public Service Commission  
2540 Shumard Oak Boulevard  
Tallahassee, Florida 32399-0850

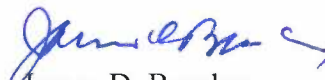
Re: Fuel and Purchased Power Cost Recovery Clause with Generating Performance  
Incentive Factor; FPSC Docket No. 20180001-EI

Dear Ms. Stauffer:

Attached for filing in the above docket is Tampa Electric Company's GPIF Actual Unit  
Performance Data Schedules for the month of April 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 May 2018 to the following:

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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									61.0
2. PH	744	672	743	720									2879
3. SH	503.5	549.5	743.0	271.0									2067.0
4. RSH	180.2	36.8	0.0	0.0									217.0
5. UH	60.3	85.7	0.0	449.0									595.0
6. POH	0.0	0.0	0.0	449.0									449.0
7. FOH	60.3	85.7	0.0	0.0									146.0
8. MOH	0.0	0.0	0.0	0.0									0.0
9. PFOH	327.6	235.1	0.0	0.0									562.6
10. LR PF (MW)	44.1	9.6	0.0	0.0									29.7
11. PMOH	744.0	672.3	743.5	720.0									2879.8
12. LR PM (MW)	91.9	78.1	78.4	15.9									66.2
13. NSC (MW)	395	395	395	385									393
14. OPR BTU(GBTU)	732.3050	1006.8930	1196.0500	500.0300									3435.2780
15. NET GEN (MWH)	62029	94369	105001	48780									310179
16. ANOHR (BTU/KWH)	11806	10670	11391	10251									11075
17. NOF (%)	31.2	43.5	35.8	46.8									38.2
18. NPC (MW)	395	395	395	385									393
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									47.5
2. PH	744	672	743	720									2879
3. SH	492.1	390.2	384.5	540.9									1807.8
4. RSH	0.0	23.6	0.0	0.0									23.6
5. UH	251.9	258.2	358.5	179.1									1047.6
6. POH	0.0	0.0	358.5	0.0									358.5
7. FOH	251.9	258.2	0.0	112.3									622.4
8. MOH	0.0	0.0	0.0	66.8									66.8
9. PFOH	787.0	1294.6	1486.0	645.0									4212.6
10. LR PF (MW)	33.4	54.6	42.1	38.8									43.8
11. PMOH	0.0	0.0	0.0	2.0									2.0
12. LR PM (MW)	0.0	0.0	0.0	120.0									120.0
13. NSC (MW)	400	400	400	395									399
14. OPR BTU(GBTU)	1798.7949	987.5843	1084.0753	1965.2639									5835.7184
15. NET GEN (MWH)	163854	85845	90768	181082									521549
16. ANOHR BTU/KWH	10978	11504	11943	10853									11189
17. NOF (%)	83.2	55.0	59.0	84.8									72.4
18. NPC (MW)	400	400	400	395									399
19. ANOHR EQUATION	ANOHR = NOF ( -17.826 ) + 12,060												

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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									47.4
2. PH	744	672	743	720									2879
3. SH	744.0	69.0	59.2	720.0									1592.2
4. RSH	0.0	147.0	0.0	0.0									147.0
5. UH	0.0	456.0	683.8	0.0									1139.8
6. POH	0.0	456.0	683.8	0.0									1139.8
7. FOH	0.0	0.0	0.0	0.0									0.0
8. MOH	0.0	0.0	0.0	0.0									0.0
9. PFOH	1611.4	2670.2	2735.1	762.4									7779.1
10. LR PF (MW)	43.4	21.2	0.0	49.9									21.2
11. PMOH	0.0	0.0	0.0	6.3									6.3
12. LR PM (MW)	0.0	0.0	0.0	119.5									119.5
13. NSC (MW)	442	442	442	437									441
14. OPR BTU(GBTU)	2713.8402	129.6618	163.7140	2755.0214									5762.2374
15. NET GEN (MWH)	254243	13470	15848	260531									544092
16. ANOHR BTU/KWH	10674	9626	10330	10575									10591
17. NOF (%)	77.3	44.2	60.5	82.8									77.5
18. NPC (MW)	442	442	442	437									441
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									73.0
2. PH	744	672	743	720									2879
3. SH	567.8	669.2	384.2	454.4									2075.5
4. RSH	0.0	0.0	12.6	136.7									149.2
5. UH	176.2	2.8	346.2	129.0									654.2
6. POH	0.0	0.0	147.2	0.0									147.2
7. FOH	176.2	2.8	199.0	95.3									473.3
8. MOH	0.0	0.0	0.0	33.6									33.6
9. PFOH	236.6	121.2	171.5	720.0									1249.3
10. LR PF (MW)	8.2	29.8	30.0	20.5									20.4
11. PMOH	0.0	0.0	420.7	0.0									420.7
12. LR PM (MW)	0.0	0.0	4.4	0.0									4.4
13. NSC (MW)	220	220	220	220									220
14. OPR BTU(GBTU)	1332.1999	1559.7320	703.7845	552.8960									4148.6124
15. NET GEN (MWH)	126117	152887	69570	60461									409035
16. ANOHR BTU/KWH	10563	10202	10116	9145									10142
17. NOF (%)	101.0	103.9	82.3	60.5									89.6
18. NPC (MW)	220	220	220	220									220
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	92.9	97.6	98.9									94.6
2. PH	744	672	743	720									2879
3. SH	743.0	672.0	743.0	720.0									2878.0
4. RSH	44.6	29.5	6.8	35.7									116.5
5. UH	42.5	47.3	10.6	4.4									104.8
6. POH	20.6	47.3	5.6	0.0									73.5
7. FOH	11.8	0.0	5.1	4.4									21.2
8. MOH	10.1	0.0	0.0	0.0									10.1
9. PFOH	656.7	0.9	91.8	30.4									779.8
10. LR PF (MW)	33.9	125.0	95.2	115.0									44.4
11. PMOH	204.7	315.3	37.3	0.0									557.2
12. LR PM (MW)	123.0	0.0	0.0	0.0									45.2
13. NSC (MW)	1200	1200	1200	1061									1165
14. OPR BTU(GBTU)	4009.5850	3482.8960	4694.5570	4117.4190									16304.4570
15. NET GEN (MWH)	586465	538133	728981	634576									2488155
16. ANOHR BTU/KWH	6837	6472	6440	6488									6553
17. NOF (%)	65.8	66.7	81.8	83.1									74.2
18. NPC (MW)	1200	1200	1200	1061									1165
19. ANOHR EQUATION	ANOHR = NOF ( -13.653 ) + 8,424												

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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 (%)	94.4	99.0	96.2	56.5									86.5
2. PH	744	672	743	720									2879
3. SH	670.6	672.0	743.0	422.0									2507.6
4. RSH	241.6	66.7	124.7	86.6									519.6
5. UH	33.4	4.6	20.3	302.9									361.1
6. POH	0.0	0.0	0.0	300.6									300.6
7. FOH	9.1	2.3	7.4	2.3									21.1
8. MOH	24.2	2.3	12.9	0.0									39.4
9. PFOH	39.6	10.0	19.4	10.3									79.3
10. LR PF (MW)	82.0	82.0	82.0	79.0									81.6
11. PMOH	39.9	9.9	55.6	48.8									154.3
12. LR PM (MW)	82.0	82.0	82.0	128.2									96.6
13. NSC (MW)	792	792	792	701									769
14. OPR BTU(GBTU)	1633.0960	2454.5140	2329.2960	1223.2730									7640.1790
15. NET GEN (MWH)	217843	332848	308710	162902									1022303
16. ANOHR (BTU/KWH)	7497	7374	7545	7509									7473
17. NOF (%)	41.0	62.5	52.5	55.1									53.0
18. NPC (MW)	792	792	792	701									769
19. ANOHR EQUATION	ANOHR = NOF ( -13.560 ) + 8,341												

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 (%)	87.8	0.0	0.0	56.1									36.7
2. PH	744	672	743	720									2879
3. SH	695.6	0.0	0.0	405.0									1100.6
4. RSH	243.7	0.0	0.0	114.2									357.9
5. UH	72.2	672.0	743.0	310.4									1797.6
6. POH	46.4	672.0	743.0	290.4									1751.8
7. FOH	15.5	0.0	0.0	19.4									34.9
8. MOH	10.3	0.0	0.0	0.6									10.9
9. PFOH	9.4	0.0	0.0	65.5									74.9
10. LR PF (MW)	79.0	0.0	0.0	74.3									74.9
11. PMOH	231.8	0.0	0.0	3.5									235.3
12. LR PM (MW)	79.3	0.0	0.0	77.0									79.3
13. NSC (MW)	1047	1047	1047	929									1018
14. OPR BTU(GBTU)	1818.3620	0.0000	0.0000	1418.0970									3236.4590
15. NET GEN (MWH)	232588	-3128	-3411	187162									413211
16. ANOHR (BTU/KWH)	7818	0	0	7577									7832
17. NOF (%)	31.9	0.0	0.0	49.7									36.9
18. NPC (MW)	1047	1047	1047	929									1018
19. ANOHR EQUATION	ANOHR = NOF (-11.437) + 8,274												

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**Tampa Electric Company  
Outage Listing  
(03/01/2018 - 03/31/2018)**

**Unit: BIG BEND 2      MDC: 420      Run Date: 4/10/2018**

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
11	Planned Derating	02/12/2018	14:00:00	03/29/2018	14:35:00	168.08	330	9180	EXTL	Natural gas only.
11	Planned Derating	02/12/2018	14:00:00	03/29/2018	14:35:00	0.47	330	9180	EXTL	Natural gas only.
11	Planned Derating	02/12/2018	14:00:00	03/29/2018	14:35:00	517.03	330	9180	EXTL	Natural gas only.
16	Partial Maintenance	03/08/2018	00:05:00	03/08/2018	00:33:00	0.47	330	4268	TURB	Main Turbine valve testing
17	Planned Derating	03/29/2018	14:35:00	04/03/2018	12:45:00	57.42	350	9180	EXTL	Natural gas only.

**Tampa Electric Company  
Outage Listing  
(03/01/2018 - 03/31/2018)**

**Unit: BIG BEND 3      MDC: 425      Run Date: 4/10/2018**

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
6	Partial Forced Immed	01/21/2018	12:15:00	01/01/2019	00:00:00	10	375	1455	BLR	B ID Fan vibration limits.
6	Partial Forced Immed	01/21/2018	12:15:00	01/01/2019	00:00:00	108.25	375	1455	BLR	B ID Fan vibration limits.
6	Partial Forced Immed	01/21/2018	12:15:00	01/01/2019	00:00:00	49.25	375	1455	BLR	B ID Fan vibration limits.
6	Partial Forced Immed	01/21/2018	12:15:00	01/01/2019	00:00:00	217.03	375	1455	BLR	B ID Fan vibration limits.
6	Partial Forced Immed	01/21/2018	12:15:00	01/01/2019	00:00:00	358.47	375	1455	BLR	B ID Fan vibration limits.
15	Partial Forced Immed	02/18/2018	17:00:00	03/01/2018	10:00:00	10	240	3260	BLPT	B screen R & R
16	Partial Forced Immed	03/01/2018	10:00:00	03/05/2018	22:15:00	108.25	250	3260	BLPT	B screen R & R
17	Partial Forced Immed	03/05/2018	22:15:00	03/07/2018	23:30:00	49.25	260	3260	BLPT	B screen R & R
18	Partial Forced Immed	03/07/2018	23:30:00	04/05/2018	16:20:00	217.03	270	3260	BLPT	B screen R & R
18	Partial Forced Immed	03/07/2018	23:30:00	04/05/2018	16:20:00	358.47	270	3260	BLPT	B screen R & R
19	Full Forced Delayed	03/17/2018	01:32:00	04/05/2018	16:20:00	358.47	0	0910	BLR	Both slag taps closed

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**Tampa Electric Company  
Outage Listing  
(03/01/2018 - 03/31/2018)**

**Unit: BIG BEND 4      MDC: 475      Run Date: 4/10/2018**

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
2	Partial Forced Immed	01/02/2018	19:50:00	03/29/2018	12:47:00	683.78	410	1455	BLR	A ID Fan vibration limits
7	Partial Forced Immed	01/12/2018	00:01:00	03/29/2018	12:47:00	683.78	390	8230	POLL	FGD inlet gas duct leak
15	Partial Forced Immed	01/27/2018	00:01:00	03/29/2018	12:47:00	683.78	380	8825	NOx	SCR inlet temperature limit
18	Partial Forced Delayed	02/02/2018	07:00:00	03/29/2018	12:47:00	683.78	190	0890	BLR	Bottom ash tanks buildup.Natural gas only.
19	Planned Outage	02/10/2018	00:01:00	03/29/2018	12:47:00	683.78	0	1512	BLR	Expansion joint repairs

**Tampa Electric Company  
Outage Listing  
(03/01/2018 - 03/31/2018)**

**Unit: POLK 1      MDC: 290      Run Date: 4/10/2018**

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
17	Planned Derating	03/03/2018	20:18:00	03/21/2018	10:00:00	12.47	200	6399	GASF	CSC Cleaning, Gasification repairs
17	Planned Derating	03/03/2018	20:18:00	03/21/2018	10:00:00	147.23	200	6399	GASF	CSC Cleaning, Gasification repairs
17	Planned Derating	03/03/2018	20:18:00	03/21/2018	10:00:00	199	200	6399	GASF	CSC Cleaning, Gasification repairs
17	Planned Derating	03/03/2018	20:18:00	03/21/2018	10:00:00	12.58	200	6399	GASF	CSC Cleaning, Gasification repairs
17	Planned Derating	03/03/2018	20:18:00	03/21/2018	10:00:00	49.42	200	6399	GASF	CSC Cleaning, Gasification repairs
18	Partial Forced Immed	03/21/2018	10:00:00	03/22/2018	13:31:00	27.52	200	6399	GASF	Gasifier Throat plugged after preheat removed.Preven
19	Partial Forced Immed	03/26/2018	18:54:00	03/28/2018	09:30:00	19.18	200	6399	GASF	Burner Cooling Water System shutdown, Flow Differen
19	Partial Forced Immed	03/26/2018	18:54:00	03/28/2018	09:30:00	18.92	200	6399	GASF	Burner Cooling Water System shutdown, Flow Differen
19	Partial Forced Immed	03/26/2018	18:54:00	03/28/2018	09:30:00	0.5	200	6399	GASF	Burner Cooling Water System shutdown, Flow Differen
20	Partial Forced Immed	03/28/2018	09:30:00	01/01/2019	00:00:00	86.5	200	6399	GASF	Gasifier Emergency Shutdown System hardware fire
21	Planned Outage	03/04/2018	08:46:00	03/10/2018	12:00:00	147.23	0	6299	COMB	Clean-up Ouitage, GTG borescope inspection
22	Full Forced Immed	03/10/2018	12:00:00	03/18/2018	20:00:00	199	0	6299	COMB	Superheat Dump steam crack repair, RSC merge valv
23	Reserve Shutdown	03/18/2018	20:00:00	03/19/2018	08:35:00	12.58	0	0000	UNKN	RESERVE SHUTDOWN
24	Partial Forced Immed	03/27/2018	14:05:00	03/28/2018	09:00:00	18.92	135	6299	COMB	Unable to maintain adequate demin make-up to conde

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**Tampa Electric Company  
Outage Listing  
(03/01/2018 - 03/31/2018)**

**Unit: POLK 2ST      MDC: 499      Run Date: 4/10/2018**

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
21	Planned Derating	02/26/2018	01:00:00	03/02/2018	13:15:00	37.25	374	6299	COMB	GTG#4, Clean-up Outage, GTG Waterwash, HRSG re
23	Partial Forced Immed	03/09/2018	00:16:00	03/09/2018	02:22:00	2.1	374	6000	COMB	GTG#2, DivDamp to SimCyc, Bad DCS Card tripped C
24	Partial Forced Immed	03/19/2018	07:37:00	03/19/2018	09:04:00	1.45	374	5060	GAST	GTG#3 tripped, High Atomizing Air Temperature, Air ir
25	Partial Forced Immed	03/19/2018	12:43:00	03/20/2018	21:00:00	32.28	374	5060	GAST	GTG#3 Investigated Atomizing Air Compressor Cooler
26	Partial Forced Immed	03/06/2018	17:03:00	03/07/2018	22:27:00	22.37	374	4269	TURB	GTG#4, DivDamp to SimCyc, Bad DCS Card tripped C
26	Partial Forced Immed	03/06/2018	17:03:00	03/07/2018	22:27:00	7.03	374	4269	TURB	GTG#4, DivDamp to SimCyc, Bad DCS Card tripped C
27	Partial Forced Immed	03/07/2018	15:25:00	03/08/2018	18:00:00	7.03	469	6299	COMB	HRSG#5 Duct Burner card failed
27	Partial Forced Immed	03/07/2018	15:25:00	03/08/2018	18:00:00	19.55	469	6299	COMB	HRSG#5 Duct Burner card failed

**Tampa Electric Company  
Outage Listing  
(03/01/2018 - 03/31/2018)**

**Unit: POLK 2      MDC: 181      Run Date: 4/10/2018**

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
19	Reserve Shutdown	03/03/2018	00:34:00	03/03/2018	07:08:00	6.57	0	0000	UNKN	RESERVE SHUTDOWN
20	Reserve Shutdown	03/03/2018	11:23:00	03/04/2018	06:00:00	18.62	0	0000	UNKN	RESERVE SHUTDOWN
21	Reserve Shutdown	03/09/2018	01:02:00	03/09/2018	02:22:00	1.33	0	0000	UNKN	Reserve Shutdown, DivDamp to SimCyc, Bad DCS Ca



**Tampa Electric Company  
Outage Listing  
(03/01/2018 - 03/31/2018)**

**Unit: POLK 3      MDC: 181      Run Date: 4/10/2018**

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
10	Full Forced Immed	03/19/2018	07:37:00	03/19/2018	09:04:00	1.45	0	5060	GAST	GTG#3 tripped, High Atomizing Air Temperature, Air ir
11	Full Forced Immed	03/19/2018	12:43:00	03/20/2018	21:00:00	32.28	0	5060	GAST	Investigated Atomizing Air Compressor Cooler, no leak
12	Reserve Shutdown	03/20/2018	21:00:00	03/21/2018	05:19:00	8.32	0	0000	UNKN	RESERVE SHUTDOWN

**Tampa Electric Company  
Outage Listing  
(03/01/2018 - 03/31/2018)**

**Unit: POLK 4      MDC: 181      Run Date: 4/10/2018**

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
14	Planned Outage	02/26/2018	01:00:00	03/02/2018	13:15:00	37.25	0	6299	COMB	HRSG Clean-up outage, GTG clean-up outage
15	Reserve Shutdown	03/02/2018	13:15:00	03/02/2018	15:03:00	1.8	0	0000	UNKN	RESERVE SHUTDOWN
16	Reserve Shutdown	03/06/2018	22:23:00	03/07/2018	06:48:00	8.42	0	0000	UNKN	Reserve Shutdown, DivDamp to SimCyc, Bad DCS Ca

**Tampa Electric Company  
Outage Listing  
(03/01/2018 - 03/31/2018)**

**Unit: POLK 5      MDC: 181      Run Date: 4/10/2018**

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

**Tampa Electric Company  
Outage Listing  
(03/01/2018 - 03/31/2018)**

**Unit: BAYSIDE ST1      MDC: 246      Run Date: 4/10/2018**

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
10	Partial Maintenance	03/02/2018	23:09:00	03/03/2018	11:33:00	12.4	164	3832	BLPT	ST1 derate - due to 1A CT HP feedwater check valve (
11	Partial Forced Immed	03/06/2018	04:50:00	03/06/2018	05:07:00	0.28	164	3899	BLPT	ST1 derate - due to 1A CT full speed no load due to LF
12	Partial Maintenance	03/09/2018	11:17:00	03/11/2018	01:15:00	37.97	164	3832	BLPT	ST1 derate - due to 1A CT replace HP feedwater block
13	Full Forced Immed	03/13/2018	21:31:00	03/14/2018	05:50:00	8.32	0	3133	COND	ST1 trip due to low vacuum, lost 1B air removal pump.
14	Partial Forced Immed	03/14/2018	05:50:00	03/15/2018	01:00:00	19.17	164	9613	RS&E	ST1 derate - due to 1B CT environmental hits.
15	Partial Maintenance	03/30/2018	04:44:00	03/30/2018	10:00:00	5.27	164	3832	BLPT	ST1 derate - due to 1A HRSG IP Economizer Safety V

**Tampa Electric Company  
Outage Listing  
(03/01/2018 - 03/31/2018)**

**Unit: BAYSIDE CT1A      MDC: 185      Run Date: 4/10/2018**

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
18	Reserve Shutdown	03/02/2018	20:11:00	03/02/2018	23:09:00	2.97	0	0000	UNKN	RESERVE SHUTDOWN
19	Maintenance Outage	03/02/2018	23:09:00	03/03/2018	11:33:00	12.4	0	3832	BLPT	1A CT HP feedwater check valve (V205) inspection.
20	Reserve Shutdown	03/03/2018	11:33:00	03/04/2018	07:55:00	20.37	0	0000	UNKN	RESERVE SHUTDOWN
21	Reserve Shutdown	03/05/2018	10:43:00	03/06/2018	04:49:00	18.1	0	0000	UNKN	RESERVE SHUTDOWN
22	Full Forced Immed	03/06/2018	04:50:00	03/06/2018	05:07:00	0.28	0	3899	BLPT	1A CT full speed no load due to LP drum level.
23	Reserve Shutdown	03/09/2018	10:01:00	03/09/2018	11:17:00	1.27	0	0000	UNKN	RESERVE SHUTDOWN
24	Maintenance Outage	03/09/2018	11:17:00	03/11/2018	01:15:00	37.97	0	3832	BLPT	1A HRSG replace HP feedwater block (FWS-V231) at
25	Reserve Shutdown	03/11/2018	01:15:00	03/11/2018	07:17:00	5.03	0	0000	UNKN	RESERVE SHUTDOWN
26	Reserve Shutdown	03/12/2018	00:45:00	03/12/2018	08:22:00	7.62	0	0000	UNKN	RESERVE SHUTDOWN
27	Reserve Shutdown	03/13/2018	22:20:00	03/14/2018	04:11:00	5.85	0	0000	UNKN	RESERVE SHUTDOWN
28	Reserve Shutdown	03/15/2018	10:50:00	03/16/2018	03:12:00	16.37	0	0000	UNKN	RESERVE SHUTDOWN
29	Reserve Shutdown	03/16/2018	11:53:00	03/17/2018	06:49:00	18.93	0	0000	UNKN	RESERVE SHUTDOWN
30	Reserve Shutdown	03/18/2018	22:45:00	03/19/2018	05:39:00	6.9	0	0000	UNKN	RESERVE SHUTDOWN
31	Reserve Shutdown	03/20/2018	23:47:00	03/21/2018	06:42:00	6.92	0	0000	UNKN	RESERVE SHUTDOWN
32	Reserve Shutdown	03/21/2018	23:15:00	03/22/2018	06:12:00	6.95	0	0000	UNKN	RESERVE SHUTDOWN
33	Reserve Shutdown	03/24/2018	10:54:00	03/24/2018	18:21:00	7.45	0	0000	UNKN	RESERVE SHUTDOWN
34	Reserve Shutdown	03/25/2018	22:39:00	03/26/2018	05:55:00	7.27	0	0000	UNKN	RESERVE SHUTDOWN
35	Reserve Shutdown	03/26/2018	23:37:00	03/27/2018	06:33:00	6.93	0	0000	UNKN	RESERVE SHUTDOWN
36	Reserve Shutdown	03/27/2018	22:43:00	03/28/2018	05:38:00	6.92	0	0000	UNKN	RESERVE SHUTDOWN
37	Reserve Shutdown	03/28/2018	22:31:00	03/29/2018	05:54:00	7.38	0	0000	UNKN	RESERVE SHUTDOWN
38	Reserve Shutdown	03/29/2018	22:30:00	03/30/2018	04:44:00	6.23	0	0000	UNKN	RESERVE SHUTDOWN
39	Maintenance Outage	03/30/2018	04:44:00	03/30/2018	10:00:00	5.27	0	3832	BLPT	1A HRSG IP Economizer Safety Valve (SDS-V377) R
40	Reserve Shutdown	03/30/2018	10:00:00	03/30/2018	10:21:00	0.35	0	0000	UNKN	RESERVE SHUTDOWN

**Tampa Electric Company  
Outage Listing  
(03/01/2018 - 03/31/2018)**

**Unit: BAYSIDE CT1B      MDC: 185      Run Date: 4/10/2018**

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
25	Reserve Shutdown	02/28/2018	22:27:00	03/01/2018	05:38:00	5.63	0	0000	UNKN RESERVE SHUTDOWN	
26	Reserve Shutdown	03/01/2018	23:28:00	03/02/2018	06:25:00	6.95	0	0000	UNKN RESERVE SHUTDOWN	
27	Reserve Shutdown	03/02/2018	22:42:00	03/03/2018	09:06:00	10.4	0	0000	UNKN RESERVE SHUTDOWN	
28	Reserve Shutdown	03/03/2018	23:49:00	03/04/2018	18:05:00	18.27	0	0000	UNKN RESERVE SHUTDOWN	
29	Reserve Shutdown	03/04/2018	23:03:00	03/05/2018	06:24:00	7.35	0	0000	UNKN RESERVE SHUTDOWN	
30	Reserve Shutdown	03/06/2018	10:02:00	03/06/2018	16:59:00	6.95	0	0000	UNKN RESERVE SHUTDOWN	
31	Reserve Shutdown	03/08/2018	10:08:00	03/09/2018	04:34:00	18.43	0	0000	UNKN RESERVE SHUTDOWN	
32	Reserve Shutdown	03/09/2018	23:46:00	03/10/2018	06:41:00	6.92	0	0000	UNKN RESERVE SHUTDOWN	
33	Reserve Shutdown	03/10/2018	23:33:00	03/12/2018	05:17:00	28.73	0	0000	UNKN RESERVE SHUTDOWN	
34	Reserve Shutdown	03/12/2018	10:03:00	03/13/2018	05:28:00	19.42	0	0000	UNKN RESERVE SHUTDOWN	
35	Full Forced Immed	03/14/2018	04:18:00	03/15/2018	01:00:00	20.7	0	9613	RS&E 1B CT off due to environmental hits.	
36	Reserve Shutdown	03/15/2018	01:00:00	03/15/2018	03:40:00	2.67	0	0000	UNKN RESERVE SHUTDOWN	
37	Reserve Shutdown	03/16/2018	10:42:00	03/17/2018	05:03:00	18.35	0	0000	UNKN RESERVE SHUTDOWN	
38	Reserve Shutdown	03/17/2018	11:26:00	03/17/2018	18:27:00	7.02	0	0000	UNKN RESERVE SHUTDOWN	
39	Reserve Shutdown	03/22/2018	11:05:00	03/23/2018	04:36:00	17.52	0	0000	UNKN RESERVE SHUTDOWN	
40	Reserve Shutdown	03/23/2018	11:03:00	03/24/2018	05:30:00	18.45	0	0000	UNKN RESERVE SHUTDOWN	
41	Reserve Shutdown	03/24/2018	23:10:00	03/25/2018	13:03:00	13.88	0	0000	UNKN RESERVE SHUTDOWN	
42	Reserve Shutdown	03/30/2018	00:09:00	03/30/2018	07:09:00	7	0	0000	UNKN RESERVE SHUTDOWN	
43	Reserve Shutdown	03/31/2018	02:28:00	04/01/2018	06:43:00	21.53	0	0000	UNKN RESERVE SHUTDOWN	

**Tampa Electric Company  
Outage Listing  
(03/01/2018 - 03/31/2018)**

**Unit: BAYSIDE CT1C MDC: 185 Run Date: 4/10/2018**

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
34	Reserve Shutdown	02/28/2018	23:24:00	03/01/2018	06:31:00	6.52	0	0000	UNKN	RESERVE SHUTDOWN
35	Reserve Shutdown	03/02/2018	01:10:00	03/02/2018	08:06:00	6.93	0	0000	UNKN	RESERVE SHUTDOWN
36	Reserve Shutdown	03/04/2018	12:00:00	03/05/2018	05:12:00	17.2	0	0000	UNKN	RESERVE SHUTDOWN
37	Reserve Shutdown	03/05/2018	22:38:00	03/06/2018	06:18:00	7.67	0	0000	UNKN	RESERVE SHUTDOWN
38	Reserve Shutdown	03/07/2018	08:09:00	03/08/2018	05:32:00	21.38	0	0000	UNKN	RESERVE SHUTDOWN
39	Reserve Shutdown	03/13/2018	11:58:00	03/14/2018	06:41:00	18.72	0	0000	UNKN	RESERVE SHUTDOWN
40	Reserve Shutdown	03/14/2018	11:34:00	03/14/2018	18:47:00	7.22	0	0000	UNKN	RESERVE SHUTDOWN
41	Reserve Shutdown	03/15/2018	14:00:00	03/16/2018	05:10:00	15.17	0	0000	UNKN	RESERVE SHUTDOWN
42	Reserve Shutdown	03/17/2018	23:05:00	03/18/2018	06:58:00	7.88	0	0000	UNKN	RESERVE SHUTDOWN
43	Reserve Shutdown	03/21/2018	10:42:00	03/21/2018	17:30:00	6.8	0	0000	UNKN	RESERVE SHUTDOWN
44	Reserve Shutdown	03/24/2018	00:31:00	03/24/2018	07:33:00	7.03	0	0000	UNKN	RESERVE SHUTDOWN
45	Reserve Shutdown	03/25/2018	00:02:00	03/25/2018	07:02:00	7	0	0000	UNKN	RESERVE SHUTDOWN
46	Reserve Shutdown	03/26/2018	00:13:00	03/26/2018	07:32:00	7.32	0	0000	UNKN	RESERVE SHUTDOWN
47	Reserve Shutdown	03/31/2018	00:49:00	03/31/2018	07:42:00	6.88	0	0000	UNKN	RESERVE SHUTDOWN
48	Reserve Shutdown	03/31/2018	23:15:00	04/01/2018	09:53:00	0.75	0	0000	UNKN	RESERVE SHUTDOWN

**Tampa Electric Company  
Outage Listing  
(03/01/2018 - 03/31/2018)**

**Unit: BAYSIDE ST2      MDC: 318      Run Date: 4/10/2018**

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
11	Planned Outage	01/31/2018	11:25:00	01/01/2019	00:00:00	743	0	4400	TURB	Unit 2 spring 2018 major planned outage.



**Tampa Electric Company  
Outage Listing  
(03/01/2018 - 03/31/2018)**

**Unit: BAYSIDE CT2A      MDC: 185      Run Date: 4/10/2018**

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
13	Planned Outage	01/29/2018	19:00:00	01/01/2019	00:00:00	743	0	3832	BLPT	2A CT spring 2018 planned outage.

**Tampa Electric Company  
Outage Listing  
(03/01/2018 - 03/31/2018)**

**Unit: BAYSIDE CT2B      MDC: 185      Run Date: 4/10/2018**

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
19	Planned Outage	01/31/2018	11:20:00	01/01/2019	00:00:00	743	0	3832	BLPT	2B CT spring 2018 planned outage.

**Tampa Electric Company  
Outage Listing  
(03/01/2018 - 03/31/2018)**

**Unit: BAYSIDE CT2C      MDC: 185      Run Date: 4/10/2018**

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
15	Planned Outage	01/28/2018	18:21:00	01/01/2019	00:00:00	743	0	3832	BLPT	2C CT spring 2018 planned outage.

**Tampa Electric Company  
Outage Listing  
(03/01/2018 - 03/31/2018)**

**Unit: BAYSIDE CT2D      MDC: 185      Run Date: 4/10/2018**

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
17	Planned Outage	01/27/2018	19:41:00	01/01/2019	00:00:00	743	0	3832	BLPT	2D CT spring 2018 planned 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		