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May 28, 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

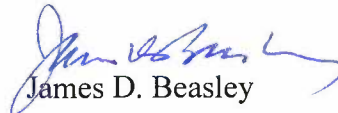
Re: Fuel and Purchased Power Cost Recovery Clause with Generating Performance  
Incentive Factor; FPSC Docket No. 20190001-EI

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 April 2019.

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 28th day of May, 2019 to the following:

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ATTORNEY

ORIGINAL SHEET NO. 8.401.19A  
TAMPA ELECTRIC COMPANY

ACTUAL UNIT PERFORMANCE DATA

JANUARY 2019 - DECEMBER 2019

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	
BAYSIDE 1		JAN 19	FEB 19	MAR 19	APR 19	MAY 19	JUN 19	JUL 19	AUG 19	SEP 19	OCT 19	NOV 19	DEC 19	2019
1. Equivalent Availability Factor (%)	EAF	99.9	87.8	23.1	87.9									74.2
2. Period Hours	PH	744.0	672.0	744.0	720.0									2,880.0
3. Service Hours	SH	744.0	597.1	0.0	586.9									1,928.000
4. Reserve Shutdown Hours	RSH	0.0	0.0	171.9	46.5									218.4
5. Unavailable Hours	UH	0.0	74.9	572.1	86.6									733.6
6. Planned Outage Hours	POH	0.0	74.9	572.1	8.5									655.5000
7. Forced Outage Hours	FOH	0.0	0.0	0.0	78.1									78.1
8. Maintenance Outage Hours	MOH	0.0	0.0	0.0	0.0									0.0
9a. Partial Planned Outage Hours	PPOH	0.0	48.5	0.0	0.0									48.5
9b. Load Reduction Partial Planned (MW)	LRPP	0.0	117.4	0.0	0.0									117.4
10a. Partial Forced Outage Hours	PFOH	2.1	0.0	0.0	0.9									3.000
10b. Load Reduction Partial Forced (MW)	LRPF	263.8	0.0	0.0	77.4									207.9
11a. Partial Maintenance Outage Hours	PMOH	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
12. Net Summer Continuous Rating (MW)	NSC	701.0	701.0	701.0	701.0									701.0
13. Operating British Thermal Units (GBTU)	OPR BTU	2,153.7	1,975.7	0.0	2,092.3									6,221.7
14. Net Generation (MWH)	NETGEN	281,105.8	268,363.3	-489.0	285,493.0									834,473.1
15. Avg. Net Operating Heat Rate (BTU/KWH)	ANOHR	7,661.4	7,362.0	0.0	7,329.0									7,455.8
16. Net Output Factor (%)	NOF	47.7	56.8	0.0	69.4									56.3
17. Net Period Continuous Rating (MW)	NPC	792.0	792.0	792.0	701.0									769.3
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 2019 - DECEMBER 2019

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	
BAYSIDE 2		JAN 19	FEB 19	MAR 19	APR 19	MAY 19	JUN 19	JUL 19	AUG 19	SEP 19	OCT 19	NOV 19	DEC 19	2019
1. Equivalent Availability Factor (%)	EAF	33.7	80.8	99.5	94.1									77.1
2. Period Hours	PH	744.0	672.0	744.0	720.0									2,880.0
3. Service Hours	SH	241.8	594.0	740.6	691.2									2,267.6
4. Reserve Shutdown Hours	RSH	24.0	0.0	0.0	0.0									24.0
5. Unavailable Hours	UH	478.2	78.0	3.4	28.8									588.4
6. Planned Outage Hours	POH	445.0	58.0	0.0	0.0									503.0
7. Forced Outage Hours	FOH	33.2	0.0	3.4	28.8									65.4
8. Maintenance Outage Hours	MOH	0.0	20.0	0.0	0.0									20.2
9a. Partial Planned Outage Hours	PPOH	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
10a. Partial Forced Outage Hours	PFOH	0.7	383.8	0.2	53.4									438.1
10b. Load Reduction Partial Forced (MW)	LRPF	261.8	138.4	78.8	77.0									131.1
11a. Partial Maintenance Outage Hours	PMOH	59.9	0.0	0.0	0.0									59.9
11b. Load Reduction Partial Maintenance (MW)	LRPM	261.8	0.0	0.0	0.0									261.8
12. Net Summer Continuous Rating (MW)	NSC	929.0	929.0	929.0	929.0									929.0
13. Operating British Thermal Units (GBTU)	OPR BTU	661.3	2,265.6	4,330.1	3,601.5									10,858.5
14. Net Generation (MWH)	NETGEN	80,708.2	305,544.7	572,174.0	492,205.4									1,450,632.3
15. Avg. Net Operating Heat Rate (BTU/KWH)	ANOHR	8,193.5	7,415.0	7,568.0	7,317.0									7,485.3
16. Net Output Factor (%)	NOF	31.9	49.1	86.9	73.6									62.9
17. Net Period Continuous Rating (MW)	NPC	1,047.0	1,047.0	1,047.0	929.0									1,017.5
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 2019 - DECEMBER 2019

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 1		JAN 19	FEB 19	MAR 19	APR 19	MAY 19	JUN 19	JUL 19	AUG 19	SEP 19	OCT 19	NOV 19	DEC 19	2019
1. Equivalent Availability Factor (%)	EAF	61.1	18.0	81.8	100.0									66.7
2. Period Hours	PH	744.0	672.0	744.0	720.0									2,880.0
3. Service Hours	SH	192.7	53.0	458.1	692.0									1,395.8
4. Reserve Shutdown Hours	RSH	322.9	0.0	179.0	28.0									529.9
5. Unavailable Hours	UH	213.9	539.6	106.9	0.0									860.4
6. Planned Outage Hours	POH	0.0	0.0	0.0	0.0									0.0
7. Forced Outage Hours	FOH	19.6	539.6	0.0	0.0									559.2
8. Maintenance Outage Hours	MOH	208.8	0.0	106.9	0.0									315.7
9a. Partial Planned Outage Hours	PPOH	744.0	493.0	30.9	0.0									1,267.9
9b. Load Reduction Partial Planned (MW)	LRPP	20.0	5.0	65.0	0.0									15.3
10a. Partial Forced Outage Hours	PFOH	0.0	0.0	0.0	0.0									0.0
10b. Load Reduction Partial Forced (MW)	LRPF	0.0	0.0	0.0	0.0									0.0
11a. Partial Maintenance Outage Hours	PMOH	0.0	0.0	46.7	0.0									46.7
11b. Load Reduction Partial Maintenance (MW)	LRPM	0.0	0.0	15.0	0.0									15.0
12. Net Summer Continuous Rating (MW)	NSC	220.0	220.0	220.0	235.0									223.8
13. Operating British Thermal Units (GBTU)	OPR BTU	247.0	62.5	551.9	884.0									1,745.4
14. Net Generation (MWH)	NETGEN	23,968.3	4,295.0	61,112.0	103,624.0									192,999.3
15. Avg. Net Operating Heat Rate (BTU/KWH)	ANOHR	10,304.7	14,559.0	9,032.0	8,531.0									9,043.5
16. Net Output Factor (%)	NOF	50.8	32.9	55.1	64.5									57.0
17. Net Period Continuous Rating (MW)	NPC	245.0	245.0	245.0	235.0									242.5
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 2019 - DECEMBER 2019

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 19	FEB 19	MAR 19	APR 19	MAY 19	JUN 19	JUL 19	AUG 19	SEP 19	OCT 19	NOV 19	DEC 19	2019
1. Equivalent Availability Factor (%)	EAF	98.7	95.3	99.5	64.2									89.5
2. Period Hours	PH	744.0	672.0	744.0	720.0									2,880.0
3. Service Hours	SH	742.3	643.0	741.8	396.0									2,523.1
4. Reserve Shutdown Hours	RSH	0.0	0.0	0.0	66.5									66.5
5. Unavailable Hours	UH	1.7	29.0	2.2	257.5									290.4
6. Planned Outage Hours	POH	0.0	0.0	0.0	245.0									245.0
7. Forced Outage Hours	FOH	1.7	29.0	2.2	10.1									43.0
8. Maintenance Outage Hours	MOH	0.0	0.0	0.0	2.4									2.4
9a. Partial Planned Outage Hours	PPOH	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
10a. Partial Forced Outage Hours	PFOH	5.0	8.4	5.8	0.0									19.2
10b. Load Reduction Partial Forced (MW)	LRPF	34.0	298.6	97.0	0.0									168.8
11a. Partial Maintenance Outage Hours	PMOH	32.3	0.0	0.0	0.0									32.3
11b. Load Reduction Partial Maintenance (MW)	LRPM	300.0	0.0	0.0	0.0									300.0
12. Net Summer Continuous Rating (MW)	NSC	1,061.0	1,061.0	1,061.0	1,061.0									1,061.0
13. Operating British Thermal Units (GBTU)	OPR BTU	4,703.9	2,665.0	3,704.2	1,627.1									12,700.2
14. Net Generation (MWH)	NETGEN	682,239.1	377,898.0	527,688.0	213,900.0									1,801,725.1
15. Avg. Net Operating Heat Rate (BTU/KWH)	ANOHR	6,894.7	7,052.0	7,020.0	7,607.0									7,048.9
16. Net Output Factor (%)	NOF	76.6	49.0	59.1	50.6									61.3
17. Net Period Continuous Rating (MW)	NPC	1,200.0	1,200.0	1,200.0	1,061.0									1,165.3
18. Avg. Net Operating Heat Rate Equation		ANOHR = NOF ( -53.862 ) + 11,266												

Tampa Electric Company  
Outage Listing  
April 2019

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(A)	25	Planned Outage	4/1/2019	0:00:00	4/1/2019	10:18:00	10.3	5260	Major overhaul (use for non-specific overha	Spring Major Outage	N\A	156
BS CT1(A)	25	Planned Outage	4/1/2019	0:00:00	4/1/2019	0:00:00	0	5260	Major overhaul (use for non-specific overha	Spring Major Outage	N\A	156
BS CT1(A)	26	Reserve Shutdown	4/1/2019	10:18:00	4/1/2019	14:09:00	3.85	N\A	N\A	Reserve Shutdown	N\A	156
BS CT1(A)	27	Unplanned (Forced)	4/1/2019	14:40:00	4/2/2019	12:00:00	21.33	5261	Gas turbine cleaning	Water wash valve leaking by	N\A	156
BS CT1(A)	28	Reserve Shutdown	4/2/2019	19:18:00	4/4/2019	6:55:00	35.62	N\A	N\A	Reserve Shutdown	N\A	156
BS CT1(A)	29	Reserve Shutdown	4/5/2019	22:01:00	4/6/2019	8:23:00	10.37	N\A	N\A	Reserve Shutdown	N\A	156
BS CT1(A)	30	Reserve Shutdown	4/8/2019	21:31:00	4/9/2019	6:16:00	8.75	N\A	N\A	Reserve Shutdown	N\A	156
BS CT1(A)	31	Reserve Shutdown	4/12/2019	21:55:00	4/13/2019	7:30:00	9.58	N\A	N\A	Reserve Shutdown	N\A	156
BS CT1(A)	32	Reserve Shutdown	4/15/2019	21:32:00	4/16/2019	5:23:00	7.85	N\A	N\A	Reserve Shutdown	N\A	156
BS CT1(A)	33	Unplanned (Forced)	4/16/2019	13:34:00	4/17/2019	17:00:00	27.43	3999	Other miscellaneous balance of plant probl	Oil in the ST generator made CT unavailable until tagging	N\A	156
BS CT1(A)	34	Reserve Shutdown	4/17/2019	17:00:00	4/19/2019	11:55:00	42.92	N\A	N\A	Reserve Shutdown	N\A	156
BS CT1(A)	35	Unplanned (Forced)	4/19/2019	11:55:00	4/20/2019	8:06:00	20.18	3999	Other miscellaneous balance of plant probl	ST unavailable due to oil in the generator, 1A CT unavail:	N\A	156
BS CT1(A)	36	Reserve Shutdown	4/20/2019	8:06:00	4/21/2019	11:53:00	27.78	N\A	N\A	Reserve Shutdown	N\A	156
BS CT1(A)	37	Reserve Shutdown	4/22/2019	22:01:00	4/23/2019	11:54:00	13.88	N\A	N\A	Reserve Shutdown	N\A	156



**Tampa Electric Company**  
**Outage Listing**  
**April 2019**

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)	40	Planned Outage	4/1/2019	0:00:00	4/1/2019	10:18:00	10.3	5260	Major overhaul (use for i	Planned major spring outage	N\A	156
BS CT1(B)	40	Planned Outage	4/1/2019	0:00:00	4/1/2019	0:00:00	0	5260	Major overhaul (use for i	Planned major spring outage	N\A	156
BS CT1(B)	41	Reserve Shutdown	4/1/2019	10:18:00	4/2/2019	4:48:00	18.5	N\A	N\A	Reserve Shutdown	N\A	156
BS CT1(B)	42	Reserve Shutdown	4/2/2019	21:58:00	4/5/2019	5:50:00	55.87	N\A	N\A	Reserve Shutdown	N\A	156
BS CT1(B)	43	Reserve Shutdown	4/6/2019	2:15:00	4/6/2019	13:55:00	11.67	N\A	N\A	Reserve Shutdown	N\A	156
BS CT1(B)	44	Reserve Shutdown	4/7/2019	2:02:00	4/7/2019	14:53:00	12.85	N\A	N\A	Reserve Shutdown	N\A	156
BS CT1(B)	45	Reserve Shutdown	4/10/2019	22:15:00	4/11/2019	11:11:00	12.93	N\A	N\A	Reserve Shutdown	N\A	156
BS CT1(B)	46	Reserve Shutdown	4/11/2019	23:51:00	4/12/2019	10:33:00	10.7	N\A	N\A	Reserve Shutdown	N\A	156
BS CT1(B)	47	Reserve Shutdown	4/14/2019	23:21:00	4/15/2019	10:15:00	10.9	N\A	N\A	Reserve Shutdown	N\A	156
BS CT1(B)	48	Unplanned (Forced)	4/16/2019	12:56:00	4/17/2019	17:00:00	28.07	3999	Other miscellaneous bal:	Oil in the ST generator made CT unavailable until tagg	N\A	156
BS CT1(B)	49	Reserve Shutdown	4/17/2019	17:00:00	4/19/2019	11:55:00	42.92	N\A	N\A	Reserve Shutdown	N\A	156
BS CT1(B)	50	Unplanned (Forced)	4/19/2019	11:55:00	4/20/2019	8:06:00	20.18	3999	Other miscellaneous bal:	ST unavailable due to oil in the generator, 1A CT unava	N\A	156
BS CT1(B)	51	Reserve Shutdown	4/20/2019	8:06:00	4/20/2019	15:50:00	7.73	N\A	N\A	Reserve Shutdown	N\A	156
BS CT1(B)	52	Reserve Shutdown	4/22/2019	22:45:00	4/23/2019	14:33:00	15.8	N\A	N\A	Reserve Shutdown	N\A	156
BS CT1(B)	53	Reserve Shutdown	4/29/2019	23:57:00	4/30/2019	6:50:00	6.88	N\A	N\A	Reserve Shutdown	N\A	156

Tampa Electric Company  
 Outage Listing  
 April 2019

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)	24	Planned Outage	4/1/2019	0:00:00	4/1/2019	2:11:00	2.18	5260	Major overhaul (use for non-specific ove	Planned major spring outage	N\A	156
BS CT1(C)	24	Planned Outage	4/1/2019	0:00:00	4/1/2019	0:00:00	0	5260	Major overhaul (use for non-specific ove	Planned major spring outage	N\A	156
BS CT1(C)	25	Reserve Shutdown	4/2/2019	19:06:00	4/3/2019	19:02:00	23.93	N\A	N\A	Reserve Shutdown	N\A	156
BS CT1(C)	26	Reserve Shutdown	4/6/2019	21:04:00	4/7/2019	9:21:00	12.28	N\A	N\A	Reserve Shutdown	N\A	156
BS CT1(C)	27	Reserve Shutdown	4/7/2019	23:02:00	4/8/2019	10:18:00	11.27	N\A	N\A	Reserve Shutdown	N\A	156
BS CT1(C)	28	Reserve Shutdown	4/9/2019	23:05:00	4/10/2019	6:57:00	7.87	N\A	N\A	Reserve Shutdown	N\A	156
BS CT1(C)	29	Reserve Shutdown	4/14/2019	23:32:00	4/15/2019	12:04:00	12.53	N\A	N\A	Reserve Shutdown	N\A	156
BS CT1(C)	30	Reserve Shutdown	4/15/2019	23:56:00	4/16/2019	13:34:00	13.63	N\A	N\A	Reserve Shutdown	N\A	156
BS CT1(C)	31	Unplanned (Forced]	4/16/2019	13:34:00	4/17/2019	17:00:00	27.43	3999	Other miscellaneous balance of plant prc	Oil in the ST generator made CT unavailable until taggir	N\A	156
BS CT1(C)	32	Reserve Shutdown	4/17/2019	17:00:00	4/19/2019	11:55:00	42.92	N\A	N\A	Reserve Shutdown	N\A	156
BS CT1(C)	33	Unplanned (Forced]	4/19/2019	11:55:00	4/20/2019	8:06:00	20.18	3999	Other miscellaneous balance of plant prc	ST unavailable due to oil in the generator, 1A CT unava	N\A	156
BS CT1(C)	34	Reserve Shutdown	4/21/2019	21:37:00	4/22/2019	5:25:00	7.8	N\A	N\A	Reserve Shutdown	N\A	156
BS CT1(C)	35	Reserve Shutdown	4/24/2019	0:02:00	4/24/2019	11:07:00	11.08	N\A	N\A	Reserve Shutdown	N\A	156
BS CT1(C)	36	Unplanned (Forced]	4/24/2019	15:28:00	4/24/2019	18:07:00	2.65	5110	Lube oil system - general	Trip oil pressure drop	N\A	156
BS CT1(C)	37	Reserve Shutdown	4/26/2019	0:27:00	4/26/2019	7:57:00	7.5	N\A	N\A	Reserve Shutdown	N\A	156
BS CT1(C)	38	Reserve Shutdown	4/26/2019	23:06:00	4/27/2019	11:11:00	12.08	N\A	N\A	Reserve Shutdown	N\A	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 1	6	Planned Outage	4/1/2019	0:00:00	4/1/2019	10:17:00	10.28	4400	Major turbine overhaul (use for non-specific	Planned spring major outage	N/A	233
BS ST 1	6	Planned Outage	4/1/2019	0:00:00	4/1/2019	0:00:00	0	4400	Major turbine overhaul (use for non-specific	Planned spring major outage	N/A	233
BS ST 1	7	Unplanned (Forced) Outage - Immediate	4/2/2019	19:37:00	4/3/2019	21:40:00	26.05	4609	Other exciter problems	Exciter cabinets burned	N/A	233
BS ST 1	8	Unplanned (Forced) Outage - Immediate	4/16/2019	13:37:00	4/20/2019	11:56:00	94.32	4619	Other hydrogen system problems	Hydrogen leak	N/A	233
BS ST 1	9	Unplanned (Forced) Outage - Immediate	4/20/2019	12:02:00	4/20/2019	14:31:00	2.48	4279	Miscellaneous turbine piping	Loss of pressure in the HP header	N/A	233
BS ST 1	10	Unplanned (Forced) Derating - Immediate	4/24/2019	15:28:00	4/24/2019	18:07:00	2.65	3999	Other miscellaneous balance of plant problems	ST1 Derated - 1C Trip oil pressure drop	156	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)	26	Reserve Shutdown	4/2/2019	13:15:00	4/2/2019	19:17:00	6.03	N/A	N/A	Reserve Shutdown	N/A	156
BS CT2(A)	27	Reserve Shutdown	4/3/2019	23:23:00	4/4/2019	12:41:00	13.3	N/A	N/A	Reserve Shutdown	N/A	156
BS CT2(A)	28	Reserve Shutdown	4/5/2019	0:16:00	4/5/2019	8:37:00	8.35	N/A	N/A	Reserve Shutdown	N/A	156
BS CT2(A)	29	Reserve Shutdown	4/6/2019	19:27:00	4/7/2019	8:33:00	13.1	N/A	N/A	Reserve Shutdown	N/A	156
BS CT2(A)	30	Reserve Shutdown	4/8/2019	0:11:00	4/8/2019	11:21:00	11.17	N/A	N/A	Reserve Shutdown	N/A	156
BS CT2(A)	31	Reserve Shutdown	4/10/2019	21:28:00	4/11/2019	5:14:00	7.77	N/A	N/A	Reserve Shutdown	N/A	156
BS CT2(A)	32	Reserve Shutdown	4/16/2019	1:10:00	4/16/2019	11:26:00	10.27	N/A	N/A	Reserve Shutdown	N/A	156
BS CT2(A)	33	Reserve Shutdown	4/21/2019	23:01:00	4/22/2019	7:26:00	8.42	N/A	N/A	Reserve Shutdown	N/A	156
BS CT2(A)	34	Reserve Shutdown	4/23/2019	21:35:00	4/24/2019	6:56:00	9.35	N/A	N/A	Reserve Shutdown	N/A	156
BS CT2(A)	35	Reserve Shutdown	4/28/2019	0:25:00	4/28/2019	10:49:00	10.4	N/A	N/A	Reserve Shutdown	N/A	156
BS CT2(A)	36	Reserve Shutdown	4/29/2019	0:02:00	4/29/2019	7:16:00	7.23	N/A	N/A	Reserve Shutdown	N/A	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)	39	Reserve Shutdown	4/2/2019	0:38:00	4/2/2019	7:34:00	6.93	N/A	N/A	Reserve Shutdown	N/A	156
BS CT2(B)	40	Reserve Shutdown	4/4/2019	22:54:00	4/5/2019	11:17:00	12.38	N/A	N/A	Reserve Shutdown	N/A	156
BS CT2(B)	41	Reserve Shutdown	4/6/2019	0:03:00	4/6/2019	11:01:00	10.97	N/A	N/A	Reserve Shutdown	N/A	156
BS CT2(B)	42	Reserve Shutdown	4/6/2019	23:04:00	4/7/2019	11:21:00	12.28	N/A	N/A	Reserve Shutdown	N/A	156
BS CT2(B)	43	Reserve Shutdown	4/12/2019	23:54:00	4/13/2019	10:11:00	10.28	N/A	N/A	Reserve Shutdown	N/A	156
BS CT2(B)	44	Reserve Shutdown	4/15/2019	22:55:00	4/16/2019	6:45:00	7.83	N/A	N/A	Reserve Shutdown	N/A	156
BS CT2(B)	45	Reserve Shutdown	4/20/2019	23:22:00	4/21/2019	16:39:00	17.28	N/A	N/A	Reserve Shutdown	N/A	156
BS CT2(B)	46	Reserve Shutdown	4/21/2019	23:52:00	4/22/2019	16:42:00	16.83	N/A	N/A	Reserve Shutdown	N/A	156
BS CT2(B)	47	Reserve Shutdown	4/22/2019	23:51:00	4/23/2019	13:38:00	13.78	N/A	N/A	Reserve Shutdown	N/A	156
BS CT2(B)	48	Reserve Shutdown	4/24/2019	22:44:00	4/25/2019	10:51:00	12.12	N/A	N/A	Reserve Shutdown	N/A	156
BS CT2(B)	49	Reserve Shutdown	4/25/2019	21:39:00	4/26/2019	13:43:00	16.07	N/A	N/A	Reserve Shutdown	N/A	156
BS CT2(B)	50	Reserve Shutdown	4/27/2019	0:01:00	4/27/2019	13:01:00	13	N/A	N/A	Reserve Shutdown	N/A	156
BS CT2(B)	51	Reserve Shutdown	4/27/2019	22:27:00	4/28/2019	9:34:00	11.12	N/A	N/A	Reserve Shutdown	N/A	156
BS CT2(B)	52	Reserve Shutdown	4/30/2019	23:13:00	4/30/2019	23:59:59	0.78	N/A	N/A	Reserve Shutdown	N/A	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
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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)	15	Unplanned (Forced) Outage - Immediate	4/5/2019	11:52:00	4/12/2019	6:39:00	162.78	799	Other miscellaneous piping system problems	2D HP Evap tube leak	N/A	156
BS CT2(D)	16	Reserve Shutdown	4/13/2019	21:15:00	4/14/2019	8:54:00	11.65	N/A	N/A	Reserve Shutdown	N/A	156
BS CT2(D)	17	Unplanned (Forced) Outage - Immediate	4/29/2019	13:12:00	4/29/2019	15:02:00	1.83	3999	Other miscellaneous balance of plant problems	2D Tripped - Steam temps high	N/A	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	17	Unplanned (Forced) Derating - Immediate	4/5/2019	11:52:00	4/12/2019	6:39:00	162.78	3999	Other miscellaneous balance of plant problems	ST Derated - 2D HP Evap tube leak	228	305
BS ST 2	18	Unplanned (Forced) Outage - Immediate	4/29/2019	12:40:00	4/29/2019	16:20:00	3.67	4609	Other exciter problems	ST tripped during NERC MOD 25 high load, high MegaVar testing	N/A	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
Polk 1	26	Reserve Shutdown	4/1/2019	22:43:00	4/3/2019	2:40:00	27.95	N/A	N/A	Reserve Shutdown	N/A	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	18	Reserve Shutdown	4/1/2019	22:43:00	4/3/2019	4:30:00	29.78	N\A	N\A	Reserve Shutdown	N\A	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	37	Reserve Shutdown	4/9/2019	0:58:00	4/10/2019	15:37:00	38.65	N\A	N\A	Reserve Shutdown	N\A	150
Polk 2	38	Reserve Shutdown	4/10/2019	23:20:00	4/11/2019	12:19:00	12.98	N\A	N\A	Reserve Shutdown	N\A	150
Polk 2	39	Reserve Shutdown	4/11/2019	22:28:00	4/14/2019	11:12:00	60.73	N\A	N\A	Reserve Shutdown	N\A	150
Polk 2	40	Planned Outage	4/14/2019	20:45:00	4/22/2019	23:00:00	194.25	700	Blowdown system valves	GTG/HRS#2...Enhanced Borescope Inspection	N\A	150
Polk 2	41	Reserve Shutdown	4/22/2019	23:00:00	4/24/2019	14:16:00	39.27	N\A	N\A	Reserve shutdown	N\A	150
Polk 2	42	Reserve Shutdown	4/25/2019	23:37:00	4/26/2019	10:26:00	10.82	N\A	N\A	Reserve Shutdown	N\A	150
Polk 2	43	Reserve Shutdown	4/26/2019	22:16:00	4/27/2019	14:52:00	16.6	N\A	N\A	Reserve Shutdown	N\A	150
Polk 2	44	Reserve Shutdown	4/29/2019	23:15:00	4/30/2019	10:40:00	11.42	N\A	N\A	Reserve Shutdown	N\A	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 3	34	Planned Outage	4/1/2019	0:00:00	4/7/2019	9:48:00	153.8	700	Blowdown system valves	Planned outage. Combustion Turbine 3 water wash	150	150
Polk 3	35	Reserve Shutdown	4/7/2019	9:48:00	4/9/2019	16:04:00	54.27	N/A	N/A	Reserve Shutdown	150	150
Polk 3	36	Unplanned (Forced) Outage - Immediate	4/9/2019	16:11:00	4/12/2019	15:58:00	71.78	5250	Controls and instrumentation	Initially some pressure switches in the gas fuel system were not valved-in properly, p	150	150
Polk 3	37	Reserve Shutdown	4/12/2019	16:21:00	4/12/2019	18:35:00	2.23	N/A	N/A	Reserve Shutdown	150	150
Polk 3	38	Reserve Shutdown	4/12/2019	21:30:00	4/17/2019	17:11:00	115.68	N/A	N/A	Reserve Shutdown	150	150
Polk 3	39	Reserve Shutdown	4/17/2019	22:18:00	4/18/2019	13:50:00	15.53	N/A	N/A	Reserve Shutdown	150	150
Polk 3	40	Reserve Shutdown	4/19/2019	1:05:00	4/22/2019	7:01:00	77.93	N/A	N/A	Reserve Shutdown	150	150
Polk 3	41	Reserve Shutdown	4/22/2019	7:22:00	4/22/2019	9:20:00	1.97	N/A	N/A	Reserve Shutdown	150	150
Polk 3	42	Reserve Shutdown	4/24/2019	21:21:00	4/25/2019	15:17:00	17.93	N/A	N/A	Reserve Shutdown	150	150
Polk 3	43	Reserve Shutdown	4/27/2019	20:56:00	4/28/2019	12:06:00	15.17	N/A	N/A	Reserve Shutdown	150	150
Polk 3	44	Reserve Shutdown	4/28/2019	23:07:00	4/29/2019	11:27:00	12.33	N/A	N/A	Reserve Shutdown	150	150
Polk 3	45	Reserve Shutdown	4/30/2019	22:37:00	4/30/2019	23:59:59	1.38	N/A	N/A	Reserve Shutdown	150	150

**Tampa Electric Company**  
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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	37	Reserve Shutdown	4/1/2019	23:24:00	4/2/2019	15:40:00	16.27	N\A	N\A	Reserve Shutdown	N\A	150
Polk 4	38	Reserve Shutdown	4/3/2019	22:47:00	4/6/2019	16:07:00	65.33	N\A	N\A	Reserve Shutdown	N\A	150
Polk 4	39	Planned Outage	4/7/2019	20:39:00	4/14/2019	14:05:00	161.43	700	Blowdown system valves	Planned outage - water wash	N\A	150
Polk 4	40	Reserve Shutdown	4/14/2019	21:21:00	4/16/2019	17:19:00	43.97	N\A	N\A	Reserve Shutdown	N\A	150
Polk 4	41	Reserve Shutdown	4/16/2019	23:12:00	4/18/2019	12:24:00	37.2	N\A	N\A	Reserve Shutdown	N\A	150
Polk 4	42	Reserve Shutdown	4/18/2019	23:17:00	4/19/2019	6:05:00	6.8	N\A	N\A	Reserve Shutdown	N\A	150
Polk 4	43	Reserve Shutdown	4/20/2019	0:00:00	4/22/2019	7:52:00	55.87	N\A	N\A	Reserve Shutdown	N\A	150
Polk 4	44	Maintenance Outage	4/23/2019	22:52:00	4/24/2019	15:55:00	17.05	3619	Other switchyard equipment	CT5 pole top work done made CT4 unavailable	N\A	150
Polk 4	45	Reserve Shutdown	4/29/2019	22:33:00	4/30/2019	11:22:00	12.82	N\A	N\A	Reserve Shutdown	N\A	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 5	38	Reserve Shutdown	4/1/2019	0:48:00	4/1/2019	7:21:00	6.55	N/A	N/A	Reserve Shutdown	N/A	150
Polk 5	39	Reserve Shutdown	4/7/2019	0:43:00	4/8/2019	7:08:00	30.42	N/A	N/A	Reserve Shutdown	N/A	150
Polk 5	40	Reserve Shutdown	4/8/2019	23:10:00	4/9/2019	13:48:00	14.63	N/A	N/A	Reserve Shutdown	N/A	150
Polk 5	41	Reserve Shutdown	4/9/2019	20:10:00	4/10/2019	15:37:00	19.45	N/A	N/A	Reserve Shutdown	N/A	150
Polk 5	42	Reserve Shutdown	4/10/2019	22:47:00	4/11/2019	12:19:00	13.53	N/A	N/A	Reserve Shutdown	N/A	150
Polk 5	43	Reserve Shutdown	4/11/2019	22:40:00	4/13/2019	15:11:00	40.52	N/A	N/A	Reserve Shutdown	N/A	150
Polk 5	44	Reserve Shutdown	4/13/2019	22:37:00	4/14/2019	13:15:00	14.63	N/A	N/A	Reserve Shutdown	N/A	150
Polk 5	45	Reserve Shutdown	4/14/2019	21:01:00	4/16/2019	18:44:00	45.72	N/A	N/A	Reserve Shutdown	N/A	150
Polk 5	46	Reserve Shutdown	4/17/2019	0:28:00	4/17/2019	11:42:00	11.23	N/A	N/A	Reserve Shutdown	N/A	150
Polk 5	47	Reserve Shutdown	4/17/2019	20:01:00	4/18/2019	15:16:00	19.25	N/A	N/A	Reserve Shutdown	N/A	150
Polk 5	48	Planned Outage	4/19/2019	22:38:00	4/29/2019	10:38:00	228	700	Blowdown system valves	GTG/HRSG#5...Enhanced Borescope Inspection BRS G Drums Blowdown Valve Replacement	N/A	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	7	Planned Outage	4/9/2019	0:11:00	4/22/2019	12:10:00	323.98	4260	Main stop valves	STG#2, LP Steam Admission Valve Repair/Condenser Hotwell Inspection	N/A	461
Polk 2 ST	2	Unplanned (Forced) Derating - Immediate	2/1/2019	9:52:00	2/1/2019	17:19:00	7.45	3310	Condensate/hotwell pumps	Lost power to Feedwater Pump electrical bus	355	480
Polk 2 ST	3	Unplanned (Forced) Outage - Immediate	2/14/2019	18:47:00	2/16/2019	0:00:00	29.22	3330	Condensate valves	The Hotwell emergency level controller swapped to manual preventing proper operation	N/A	480
Polk 2 ST	4	Unplanned (Forced) Derating - Immediate	2/26/2019	5:27:00	2/26/2019	6:24:00	0.95	3999	Other miscellaneous balance of plant problems	Hot Reheat Outlet Temperature High Temperature rolled damper tripped GTG	334	480
Polk 2 ST	5	Unplanned (Forced) Derating - Immediate	3/1/2019	23:03:00	3/2/2019	12:15:00	13.2	3999	Other miscellaneous balance of plant problems	CT2 tripped. Compressor bleed valve failed to open.	385	480
Polk 2 ST	6	Unplanned (Forced) Derating - Immediate	3/7/2019	11:27:00	3/7/2019	12:45:00	1.3	3999	Other miscellaneous balance of plant problems	CT2 bad point on a DCS card. Bypass damper closed shutting down the HRSG. CT2 run	364	480