

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

August 26, 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

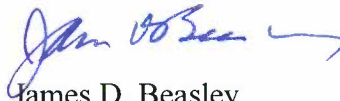
Re: Fuel and Purchased Power Cost Recovery Clause with Generating Performance
Incentive Factor; FPSC Docket No. 20190001-EI

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 July 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 26th day of August, 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

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

Ms. Dianne M. Triplett
Duke Energy Florida
299 First Avenue North
St. Petersburg, FL 33701
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

Mr. Jon C Moyle, Jr.
Moyle Law Firm
118 North Gadsden Street
Tallahassee, FL 32301
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

Ms. Beth Keating
Gunster, Yoakley & Stewart, P.A.
215 S. Monroe St., Suite 601
Tallahassee, FL 32301
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
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


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

Mr. Russell A. Badders
Vice President & Associate General Counsel
Gulf Power Company
One Energy Place
Pensacola FL 32520
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
Jlavia@gbwlegal.com

Mr. Steven R. Griffin
Beggs & Lane
P.O. Box 12950
Pensacola FL 32591
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
laura.wynn@smxblaw.com



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:	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	93.9	95.4	86.7						82.7
2. Period Hours	PH	744.0	672.0	744.0	720.0	744.0	720.0	744.0						5,088.0
3. Service Hours	SH	744.0	597.1	0.0	586.9	714.1	700.1	672.5						4,014.700
4. Reserve Shutdown Hours	RSH	0.0	0.0	171.9	46.5	0.0	0.0	0.0						218.4
5. Unavailable Hours	UH	0.0	74.9	572.1	86.6	29.9	19.9	71.5						854.9
6. Planned Outage Hours	POH	0.0	74.9	572.1	8.5	0.0	0.0	0.0						655.5000
7. Forced Outage Hours	FOH	0.0	0.0	0.0	78.1	0.0	19.9	68.5						166.5
8. Maintenance Outage Hours	MOH	0.0	0.0	0.0	0.0	29.9	0.0	3.0						32.9
9a. Partial Planned Outage Hours	PPOH	0.0	48.5	0.0	0.0	0.0	0.0	0.0						48.5
9b. Load Reduction Partial Planned (MW)	LRPP	0.0	117.4	0.0	0.0	0.0	0.0	0.0						117.4
10a. Partial Forced Outage Hours	PFOH	2.1	0.0	0.0	0.9	0.0	39.7	81.7						124.400
10b. Load Reduction Partial Forced (MW)	LRPF	263.8	0.0	0.0	77.4	0.0	94.2	79.0						87.0
11a. Partial Maintenance Outage Hours	PMOH	0.0	0.0	0.0	0.0	44.6	7.7	0.0						52.4
11b. Load Reduction Partial Maintenance (MW)	LRPM	0.0	0.0	0.0	0.0	79.0	75.0	0.0						78.4
12. Net Summer Continuous Rating (MW)	NSC	701.0	701.0	701.0	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	2,623.6	2,709.4	2,338.2						13,892.9
14. Net Generation (MWH)	NETGEN	281,105.8	268,363.3	-489.0	285,493.0	357,594.0	371,287.2	316,400.6						1,879,754.9
15. Avg. Net Operating Heat Rate (BTU/KWH)	ANOHR	7,661.4	7,362.0	0.0	7,329.0	7,337.0	7,297.0	7,390.0						7,390.8
16. Net Output Factor (%)	NOF	47.7	56.8	0.0	69.4	68.6	73.6	64.1						63.3
17. Net Period Continuous Rating (MW)	NPC	792.0	792.0	792.0	701.0	701.0	701.0	701.0						740.0
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:	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	99.6	99.3	100.0						86.9
2. Period Hours	PH	744.0	672.0	744.0	720.0	744.0	720.0	744.0						5,088.0
3. Service Hours	SH	241.8	594.0	740.6	691.2	742.1	717.2	743.0						4,469.9
4. Reserve Shutdown Hours	RSH	24.0	0.0	0.0	0.0	0.0	0.0	1.0						25.0
5. Unavailable Hours	UH	478.2	78.0	3.4	28.8	1.9	2.8	0.0						593.1
6. Planned Outage Hours	POH	445.0	58.0	0.0	0.0	0.0	0.0	0.0						503.0
7. Forced Outage Hours	FOH	33.2	0.0	3.4	28.8	0.5	2.8	0.0						68.7
8. Maintenance Outage Hours	MOH	0.0	20.0	0.0	0.0	1.4	0.0	0.0						21.6
9a. Partial Planned Outage Hours	PPOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0						0.0
9b. Load Reduction Partial Planned (MW)	LRPP	0.0	0.0	0.0	0.0	0.0	0.0	0.0						0.0
10a. Partial Forced Outage Hours	PFOH	0.7	383.8	0.2	53.4	1.0	0.0	0.0						439.1
10b. Load Reduction Partial Forced (MW)	LRPF	261.8	138.4	78.8	77.0	77.5	0.0	0.0						131.0
11a. Partial Maintenance Outage Hours	PMOH	59.9	0.0	0.0	0.0	2.7	8.3	0.0						70.9
11b. Load Reduction Partial Maintenance (MW)	LRPM	261.8	0.0	0.0	0.0	77.1	85.0	0.0						234.1
12. Net Summer Continuous Rating (MW)	NSC	929.0	929.0	929.0	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	4,030.2	3,898.4	3,798.3						22,585.4
14. Net Generation (MWH)	NETGEN	80,708.2	305,544.7	572,174.0	492,205.4	551,479.2	538,434.7	520,587.5						3,061,133.7
15. Avg. Net Operating Heat Rate (BTU/KWH)	ANOHR	8,193.5	7,415.0	7,568.0	7,317.0	7,308.0	7,240.0	7,296.0						7,378.1
16. Net Output Factor (%)	NOF	31.9	49.1	86.9	73.6	77.5	80.5	75.3						69.4
17. Net Period Continuous Rating (MW)	NPC	1,047.0	1,047.0	1,047.0	956.0	956.0	929.0	929.0						987.3
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:	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	68.9	98.5	98.8						76.2
2. Period Hours	PH	744.0	672.0	744.0	720.0	744.0	720.0	744.0						5,088.0
3. Service Hours	SH	192.7	53.0	458.1	692.0	509.0	667.2	319.9						2,891.9
4. Reserve Shutdown Hours	RSH	322.9	0.0	179.0	28.0	3.4	42.0	415.5						990.8
5. Unavailable Hours	UH	213.9	539.6	106.9	0.0	231.6	10.8	8.6						1,111.4
6. Planned Outage Hours	POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0						0.0
7. Forced Outage Hours	FOH	19.6	539.6	0.0	0.0	41.5	8.7	0.0						609.4
8. Maintenance Outage Hours	MOH	208.8	0.0	106.9	0.0	190.1	2.1	8.6						516.5
9a. Partial Planned Outage Hours	PPOH	744.0	493.0	30.9	0.0	0.0	0.0	0.0						1,267.9
9b. Load Reduction Partial Planned (MW)	LRPP	20.0	5.0	65.0	0.0	0.0	0.0	0.0						15.3
10a. Partial Forced Outage Hours	PFOH	0.0	0.0	0.0	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	0.0	0.0						0.0
11a. Partial Maintenance Outage Hours	PMOH	0.0	0.0	46.7	0.0	0.0	0.0	0.0						46.7
11b. Load Reduction Partial Maintenance (MW)	LRPM	0.0	0.0	15.0	0.0	0.0	0.0	0.0						15.0
12. Net Summer Continuous Rating (MW)	NSC	220.0	220.0	220.0	235.0	235.0	235.0	235.0						228.6
13. Operating British Thermal Units (GBTU)	OPR BTU	247.0	62.5	551.9	884.0	657.3	872.8	386.1						3,661.6
14. Net Generation (MWH)	NETGEN	23,968.3	4,295.0	61,112.0	103,624.0	75,289.0	101,034.8	40,693.3						410,016.4
15. Avg. Net Operating Heat Rate (BTU/KWH)	ANOHR	10,304.7	14,559.0	9,032.0	8,531.0	8,731.0	8,639.0	9,789.0						8,930.3
16. Net Output Factor (%)	NOF	50.8	32.9	55.1	64.5	62.9	64.4	54.1						59.3
17. Net Period Continuous Rating (MW)	NPC	245.0	245.0	245.0	235.0	235.0	235.0	235.0						239.3
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:	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	99.4	80.4	97.0						91.7
2. Period Hours	PH	744.0	672.0	744.0	720.0	744.0	720.0	744.0						5,088.0
3. Service Hours	SH	742.3	643.0	741.8	396.0	744.0	643.1	730.9						4,641.1
4. Reserve Shutdown Hours	RSH	0.0	0.0	0.0	66.5	0.0	0.0	1.0						67.5
5. Unavailable Hours	UH	1.7	29.0	2.2	257.5	0.0	76.9	12.1						379.4
6. Planned Outage Hours	POH	0.0	0.0	0.0	245.0	0.0	0.0	0.0						245.0
7. Forced Outage Hours	FOH	1.7	29.0	2.2	10.1	0.0	76.9	2.5						122.4
8. Maintenance Outage Hours	MOH	0.0	0.0	0.0	2.4	0.0	0.0	9.6						12.0
9a. Partial Planned Outage Hours	PPOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0						0.0
9b. Load Reduction Partial Planned (MW)	LRPP	0.0	0.0	0.0	0.0	0.0	0.0	0.0						0.0
10a. Partial Forced Outage Hours	PFOH	5.0	8.4	5.8	0.0	18.3	237.6	7.6						282.7
10b. Load Reduction Partial Forced (MW)	LRPF	34.0	298.6	97.0	0.0	138.0	125.2	124.9						129.0
11a. Partial Maintenance Outage Hours	PMOH	32.3	0.0	0.0	0.0	0.0	0.0	29.7						62.0
11b. Load Reduction Partial Maintenance (MW)	LRPM	300.0	0.0	0.0	0.0	0.0	0.0	125.0						216.1
12. Net Summer Continuous Rating (MW)	NSC	1,061.0	1,061.0	1,061.0	1,061.0	1,061.0	1,061.0	1,061.0						1,061.0
13. Operating British Thermal Units (GBTU)	OPR BTU	4,703.9	2,665.0	3,704.2	1,627.1	3,689.5	3,213.4	4,270.8						23,873.9
14. Net Generation (MWH)	NETGEN	682,239.1	377,898.0	527,688.0	213,900.0	517,263.0	449,778.0	592,883.0						3,361,649.1
15. Avg. Net Operating Heat Rate (BTU/KWH)	ANOHR	6,894.7	7,052.0	7,020.0	7,607.0	7,134.0	7,144.0	7,204.0						7,101.8
16. Net Output Factor (%)	NOF	76.6	49.0	59.1	50.6	65.5	58.9	75.1						64.6
17. Net Period Continuous Rating (MW)	NPC	1,200.0	1,200.0	1,200.0	1,061.0	1,061.0	1,061.0	1,061.0						1,120.6
18. Avg. Net Operating Heat Rate Equation		ANOHR = NOF (-53.862) + 11,266												

Tampa Electric Company
Outage Listing
July 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)	77	Reserve Shutdown	7/12/2019	23:13:00	7/13/2019	9:39:00	10.43	N\A	N\A	Reserve Shutdown	N\A	156
BS CT1(A)	78	Reserve Shutdown	7/14/2019	1:08:00	7/14/2019	10:58:00	9.83	N\A	N\A	Reserve Shutdown	N\A	156
BS CT1(A)	79	Reserve Shutdown	7/17/2019	0:16:00	7/17/2019	10:10:00	9.9	N\A	N\A	Reserve Shutdown	N\A	156
BS CT1(A)	80	Reserve Shutdown	7/17/2019	22:02:00	7/18/2019	12:10:00	14.13	N\A	N\A	Reserve Shutdown	N\A	156
BS CT1(A)	81	Reserve Shutdown	7/19/2019	20:42:00	7/20/2019	6:08:00	9.43	N\A	N\A	Reserve Shutdown	N\A	156
BS CT1(A)	82	Reserve Shutdown	7/20/2019	19:30:00	7/21/2019	11:23:00	15.88	N\A	N\A	Reserve Shutdown	N\A	156
BS CT1(A)	83	Reserve Shutdown	7/23/2019	23:34:00	7/26/2019	1:17:00	49.72	N\A	N\A	Reserve Shutdown	N\A	156
BS CT1(A)	84	Reserve Shutdown	7/26/2019	17:13:00	7/27/2019	0:28:00	7.25	N\A	N\A	Reserve Shutdown	N\A	156
BS CT1(A)	85	Reserve Shutdown	7/27/2019	3:16:00	7/28/2019	12:03:00	32.78	N\A	N\A	Reserve Shutdown	N\A	156
BS CT1(A)	86	Reserve Shutdown	7/29/2019	0:16:00	7/29/2019	11:48:00	11.53	N\A	N\A	Reserve Shutdown	N\A	156

Tampa Electric Company
 Outage Listing
 July 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)	73	Reserve Shutdown	7/18/2019	18:35:00	7/19/2019	10:59:00	16.4	N/A	N/A	Reserve Shutdown	N/A	156
BS CT1(B)	74	Reserve Shutdown	7/26/2019	18:25:00	7/28/2019	11:13:00	40.8	N/A	N/A	Reserve Shutdown	N/A	156

Tampa Electric Company
Outage Listing
July 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)	55	Unplanned (Forced)	7/1/2019	0:00:00	7/11/2019	5:46:00	245.77	540	Reheat steam piping up to turbine stop val 1C CRH line leak		N/A	156
BS CT1(C)	56	Reserve Shutdown	7/13/2019	0:24:00	7/13/2019	12:14:00	11.83	N/A	N/A	Reserve Shutdown	N/A	156
BS CT1(C)	57	Unplanned (Forced)	7/13/2019	12:24:00	7/13/2019	13:40:00	1.27	5190	Other auxiliary system problems	Quaternary valve - stuck open	N/A	156
BS CT1(C)	58	Unplanned (Forced)	7/13/2019	13:51:00	7/13/2019	14:37:00	0.77	800	Drums and drum internals	HP Steam high temp	N/A	156
BS CT1(C)	59	Reserve Shutdown	7/16/2019	23:18:00	7/17/2019	11:30:00	12.2	N/A	N/A	Reserve Shutdown	N/A	156
BS CT1(C)	60	Maintenance Outage	7/18/2019	23:08:00	7/19/2019	12:37:00	13.48	5299	Other miscellaneous gas turbine problems	Turbine compartment flange had a leak NOTE: Flange leak	N/A	156
BS CT1(C)	61	Reserve Shutdown	7/21/2019	18:09:00	7/22/2019	11:59:00	17.83	N/A	N/A	Reserve Shutdown	N/A	156
BS CT1(C)	62	Reserve Shutdown	7/26/2019	18:58:00	7/28/2019	5:25:00	34.45	N/A	N/A	Reserve Shutdown	N/A	156
BS CT1(C)	63	Reserve Shutdown	7/31/2019	21:32:00	7/31/2019	23:59:59	2.47	N/A	N/A	Reserve Shutdown	N/A	156

Tampa Electric Company
 Outage Listing
 July 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 ST 1	19	Unplanned (Forced) Derating - Immediate	7/1/2019	0:00:00	7/11/2019	5:46:00	245.77	3999	Other miscellaneous balance of plant problems	ST1 Derated - 1C CRH Line Leak	154	233
BS ST 1	20	Unplanned (Forced) Outage - Immediate	7/26/2019	17:13:00	7/28/2019	9:21:00	40.13	4610	Hydrogen cooling system piping and valves	Steam turbine tripped with exciter issues	N/A	233

Tampa Electric Company
Outage Listing
July 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 CT2(A)	87	Reserve Shutdown	7/2/2019	17:51:00	7/3/2019	7:13:00	13.37	N/A	N/A	Reserve Shutdown	N/A	156
BS CT2(A)	88	Reserve Shutdown	7/5/2019	18:43:00	7/6/2019	9:43:00	15	N/A	N/A	Reserve Shutdown	N/A	156
BS CT2(A)	89	Reserve Shutdown	7/13/2019	23:23:00	7/14/2019	9:37:00	10.23	N/A	N/A	Reserve Shutdown	N/A	156
BS CT2(A)	90	Reserve Shutdown	7/18/2019	0:27:00	7/18/2019	10:16:00	9.82	N/A	N/A	Reserve Shutdown	N/A	156
BS CT2(A)	91	Unplanned (Forced) Outage - Immediate	7/18/2019	10:22:00	7/18/2019	10:27:00	0.08	3499	Other feedwater system problems	HP Drum Level High Note: Too much water was added to t	N/A	156
BS CT2(A)	92	Reserve Shutdown	7/20/2019	0:28:00	7/20/2019	12:50:00	12.37	N/A	N/A	Reserve Shutdown	N/A	156
BS CT2(A)	93	Reserve Shutdown	7/20/2019	18:11:00	7/21/2019	9:16:00	15.08	N/A	N/A	Reserve Shutdown	N/A	156
BS CT2(A)	94	Reserve Shutdown	7/21/2019	18:48:00	7/22/2019	5:43:00	10.92	N/A	N/A	Reserve Shutdown	N/A	156
BS CT2(A)	95	Reserve Shutdown	7/22/2019	23:45:00	7/23/2019	8:24:00	8.65	N/A	N/A	Reserve Shutdown	N/A	156
BS CT2(A)	96	Reserve Shutdown	7/24/2019	20:11:00	7/25/2019	6:50:00	10.65	N/A	N/A	Reserve Shutdown	N/A	156
BS CT2(A)	97	Reserve Shutdown	7/25/2019	10:55:00	7/26/2019	5:02:00	18.12	N/A	N/A	Reserve Shutdown	N/A	156
BS CT2(A)	98	Reserve Shutdown	7/28/2019	23:47:00	7/29/2019	10:09:00	10.37	N/A	N/A	Reserve Shutdown	N/A	156

Tampa Electric Company
Outage Listing
July 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 CT2(B)	98	Reserve Shutdown	7/2/2019	22:38:00	7/3/2019	9:37:00	10.98	N/A	N/A	Reserve Shutdown	N/A	156
BS CT2(B)	99	Reserve Shutdown	7/5/2019	21:55:00	7/6/2019	11:40:00	13.75	N/A	N/A	Reserve Shutdown	N/A	156
BS CT2(B)	100	Reserve Shutdown	7/12/2019	1:10:00	7/12/2019	11:39:00	10.48	N/A	N/A	Reserve Shutdown	N/A	156
BS CT2(B)	101	Reserve Shutdown	7/13/2019	1:17:00	7/13/2019	10:29:00	9.2	N/A	N/A	Reserve Shutdown	N/A	156
BS CT2(B)	102	Reserve Shutdown	7/16/2019	22:11:00	7/17/2019	9:12:00	11.02	N/A	N/A	Reserve Shutdown	N/A	156
BS CT2(B)	103	Reserve Shutdown	7/19/2019	23:10:00	7/20/2019	10:37:00	11.45	N/A	N/A	Reserve Shutdown	N/A	156
BS CT2(B)	104	Reserve Shutdown	7/21/2019	0:12:00	7/21/2019	12:29:00	12.28	N/A	N/A	Reserve Shutdown	N/A	156
BS CT2(B)	105	Reserve Shutdown	7/21/2019	17:16:00	7/22/2019	9:11:00	15.92	N/A	N/A	Reserve Shutdown	N/A	156
BS CT2(B)	106	Reserve Shutdown	7/23/2019	0:40:00	7/23/2019	11:10:00	10.5	N/A	N/A	Reserve Shutdown	N/A	156
BS CT2(B)	107	Reserve Shutdown	7/23/2019	18:15:00	7/24/2019	6:35:00	12.33	N/A	N/A	Reserve Shutdown	N/A	156
BS CT2(B)	108	Reserve Shutdown	7/25/2019	0:04:00	7/25/2019	9:18:00	9.23	N/A	N/A	Reserve Shutdown	N/A	156
BS CT2(B)	109	Reserve Shutdown	7/25/2019	22:57:00	7/26/2019	8:41:00	9.73	N/A	N/A	Reserve Shutdown	N/A	156
BS CT2(B)	110	Reserve Shutdown	7/27/2019	0:32:00	7/27/2019	10:52:00	10.33	N/A	N/A	Reserve Shutdown	N/A	156
BS CT2(B)	111	Reserve Shutdown	7/28/2019	0:37:00	7/28/2019	8:23:00	7.77	N/A	N/A	Reserve Shutdown	N/A	156
BS CT2(B)	112	Reserve Shutdown	7/28/2019	20:06:00	7/29/2019	8:57:00	12.85	N/A	N/A	Reserve Shutdown	N/A	156
BS CT2(B)	113	Reserve Shutdown	7/31/2019	23:02:00	7/31/2019	23:59:59	0.97	N/A	N/A	Reserve Shutdown	N/A	156

Tampa Electric Company
Outage Listing
July 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
------	--------------	------------	------------------	------------------	----------------	----------------	----------------	------------	------------------------	-----------	------------------------	-------------------------

Tampa Electric Company
Outage Listing
July 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 CT2(D)	22	Reserve Shutdown	7/25/2019	21:51:00	7/26/2019	5:36:00	7.75	N/A	N/A	Reserve Shutdown	N/A	156

Tampa Electric Company
Outage Listing
July 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
------	--------------	------------	------------------	------------------	----------------	----------------	----------------	------------	------------------------	-----------	------------------------	-------------------------

Tampa Electric Company
 Outage Listing
 July 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
Polk 1	31	Reserve Shutdown	7/1/2019	0:00:00	7/1/2019	10:44:00	10:73	N/A	N/A	Reserve Shutdown. Shutdown to conserve operating CT-1 firing hours (unit has an alloca	N/A	150
Polk 1	32	Reserve Shutdown	7/6/2019	5:29:00	7/16/2019	9:51:00	244.37	N/A	N/A	Reserve Shutdown	N/A	150
Polk 1	33	Maintenance Outage	7/16/2019	11:52:00	7/16/2019	14:13:00	2.35	5041	Fuel piping and valves	Replaced both natural gas regulators on Unit 1 CT.	N/A	150
Polk 1	34	Maintenance Outage	7/19/2019	21:29:00	7/20/2019	3:45:00	6.27	5041	Fuel piping and valves	Replaced pilot on natural gas regulator.	N/A	150
Polk 1	35	Reserve Shutdown	7/20/2019	3:45:00	7/26/2019	20:08:00	160.38	N/A	N/A		N/A	150

Tampa Electric Company
Outage Listing

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	30	Reserve Shutdown	7/1/2019	0:00:00	7/1/2019	12:32:00	12.53	N/A	N/A	Reserve Shutdown	N/A	85
Polk 1 ST	31	Reserve Shutdown	7/6/2019	5:25:00	7/16/2019	11:52:00	246.45	N/A	N/A	Reserve Shutdown	N/A	85
Polk 1 ST	32	Maintenance Outage	7/16/2019	11:52:00	7/16/2019	14:13:00	2.35	3999	Other miscellaneous balance (Replaced both natural gas regulators on unit 1 CT. This made ST 1 unavailable also.		N/A	85
Polk 1 ST	33	Maintenance Outage	7/19/2019	21:24:00	7/20/2019	3:45:00	6.35	3999	Other miscellaneous balance (CT1 natural gas regulator pilot replacement made the ST unavailable.		N/A	85
Polk 1 ST	34	Reserve Shutdown	7/20/2019	3:45:00	7/26/2019	21:57:00	162.2	N/A	N/A		N/A	85

Tampa Electric Company
Outage Listing
July 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
Polk 2	56	Reserve Shutdown	7/4/2019	17:16:00	7/5/2019	10:22:00	17.1 N/A	N/A		Reserve Shutdown	N/A	150
Polk 2	57	Reserve Shutdown	7/5/2019	11:16:00	7/5/2019	12:14:00	0.97 N/A	N/A			N/A	150
Polk 2	58	Reserve Shutdown	7/7/2019	18:50:00	7/8/2019	10:02:00	15.2 N/A	N/A		Reserve Shutdown	N/A	150
Polk 2	59	Reserve Shutdown	7/10/2019	0:04:00	7/10/2019	6:44:00	6.67 N/A	N/A		Reserve Shutdown	N/A	150
Polk 2	60	Reserve Shutdown	7/15/2019	0:19:00	7/15/2019	9:47:00	9.47 N/A	N/A		Reserve Shutdown	N/A	150
Polk 2	61	Reserve Shutdown	7/18/2019	23:53:00	7/19/2019	6:24:00	6.52 N/A	N/A		Reserve Shutdown	N/A	150
Polk 2	62	Reserve Shutdown	7/19/2019	7:12:00	7/19/2019	9:14:00	2.03 N/A	N/A		Reserve Shutdown	N/A	150
Polk 2	65	Reserve Shutdown	7/24/2019	0:39:00	7/24/2019	6:59:00	6.33 N/A	N/A		Reserve Shutdown	N/A	150
Polk 2	66	Reserve Shutdown	7/24/2019	7:38:00	7/24/2019	10:01:00	2.38 N/A	N/A		Reserve Shutdown	N/A	150
Polk 2	122	Reserve Shutdown	7/31/2019	1:59:00	7/31/2019	11:17:00	9.3 N/A	N/A		Reserve Shutdown	N/A	150

Tampa Electric Company
Outage Listing
July 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
Polk 3	63	Reserve Shutdown	7/1/2019	0:00:00	7/1/2019	9:51:00	9.85 N/A	N/A		Reserve Shutdown	N/A	150
Polk 3	64	Reserve Shutdown	7/6/2019	18:17:00	7/7/2019	9:40:00	15.38 N/A	N/A		Reserve Shutdown	N/A	150
Polk 3	65	Reserve Shutdown	7/9/2019	1:12:00	7/9/2019	15:01:00	13.82 N/A	N/A		Reserve Shutdown	N/A	150
Polk 3	66	Maintenance Outage	7/11/2019	0:45:00	7/13/2019	21:10:00	68.42	5250	Controls and instrumentation	Replaced flow divider for distillate feed to the CT.	N/A	150
Polk 3	67	Unplanned (Forced) Outage - Immediate	7/13/2019	21:19:00	7/14/2019	13:19:00	16	5060	Atomizing air system	Atomizing air compressor supply valve BAA-2 failed and caused a trip when CT was on li	N/A	150
Polk 3	68	Reserve Shutdown	7/16/2019	0:12:00	7/16/2019	10:05:00	9.88 N/A	N/A		Reserve Shutdown	N/A	150
Polk 3	69	Reserve Shutdown	7/17/2019	20:34:00	7/18/2019	9:34:00	13 N/A	N/A		Reserve Shutdown	N/A	150
Polk 3	70	Unplanned (Forced) Outage - Immediate	7/18/2019	9:44:00	7/18/2019	11:03:00	1.32	5079	Other combustor problems	CT tripped on high exhaust temperatures during liquid fuel combustion test.	N/A	150
Polk 3	71	Reserve Shutdown	7/18/2019	11:17:00	7/18/2019	13:44:00	2.45 N/A	N/A		Reserve Shutdown	N/A	150
Polk 3	72	Reserve Shutdown	7/22/2019	0:03:00	7/22/2019	10:45:00	10.7 N/A	N/A		Reserve Shutdown	N/A	150
Polk 3	73	Reserve Shutdown	7/29/2019	22:42:00	7/30/2019	10:21:00	11.65 N/A	N/A		Reserve Shutdown	N/A	150
Polk 3	74	Reserve Shutdown	7/30/2019	11:27:00	7/30/2019	12:46:00	1.32 N/A	N/A		Reserve Shutdown	N/A	150

Tampa Electric Company
 Outage Listing
 July 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
Polk 4	119	Reserve Shutdown	7/5/2019	0:42:00	7/5/2019	9:53:00	9:18	N/A	N/A		N/A	150
Polk 4	120	Reserve Shutdown	7/7/2019	23:59:00	7/8/2019	15:26:00	15:45	N/A	N/A	Reserve Shutdown	N/A	150
Polk 4	121	Reserve Shutdown	7/15/2019	1:10:00	7/15/2019	11:17:00	10:12	N/A	N/A	Reserve Shutdown	N/A	150
Polk 4	122	Reserve Shutdown	7/20/2019	1:58:00	7/20/2019	9:51:00	7:88	N/A	N/A	Reserve Shutdown	N/A	150
Polk 4	123	Reserve Shutdown	7/29/2019	23:03:00	7/30/2019	7:18:00	8:25	N/A	N/A	Reserve Shutdown	N/A	150

Tampa Electric Company
Outage Listing
July 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
Polk 5	65	Reserve Shutdown	7/2/2019	0:04:00	7/2/2019	11:50:00	11.77 N/A	N/A		Reserve Shutdown	N/A	150
Polk 5	66	Reserve Shutdown	7/3/2019	23:57:00	7/4/2019	10:56:00	10.98 N/A	N/A		Reserve Shutdown	N/A	150
Polk 5	67	Reserve Shutdown	7/7/2019	0:02:00	7/7/2019	11:19:00	11.28 N/A	N/A		Reserve Shutdown	N/A	150
Polk 5	68	Reserve Shutdown	7/8/2019	11:58:00	7/9/2019	9:58:00	22 N/A	N/A		Reserve Shutdown	N/A	150
Polk 5	69	Reserve Shutdown	7/12/2019	0:04:00	7/12/2019	9:15:00	9.18 N/A	N/A		Reserve Shutdown	N/A	150
Polk 5	70	Reserve Shutdown	7/12/2019	21:23:00	7/13/2019	14:30:00	17.12 N/A	N/A		Reserve Shutdown	N/A	150
Polk 5	71	Unplanned (Forced) Outage - Immediate	7/13/2019	14:31:00	7/13/2019	14:35:00	0.07	4700	Generator voltage control	Beckwith backup generator protection relay was replaced. Unit tripped subsequently due	N/A	150
Polk 5	72	Reserve Shutdown	7/15/2019	23:18:00	7/16/2019	12:01:00	12.72 N/A	N/A		Reserve Shutdown	N/A	150
Polk 5	73	Reserve Shutdown	7/21/2019	2:56:00	7/21/2019	10:04:00	7.13 N/A	N/A		Reserve Shutdown	N/A	150
Polk 5	74	Reserve Shutdown	7/22/2019	21:21:00	7/23/2019	5:52:00	8.52 N/A	N/A		Reserve Shutdown	N/A	150
Polk 5	75	Reserve Shutdown	7/26/2019	0:16:00	7/26/2019	11:32:00	11.27 N/A	N/A		Reserve Shutdown	N/A	150
Polk 5	76	Reserve Shutdown	7/31/2019	0:01:00	7/31/2019	7:27:00	7.43 N/A	N/A		Reserve Shutdown	N/A	150

Tampa Electric Company
Outage Listing
July 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
Polk 2 ST	12	Maintenance Derating	7/11/2019	0:45:00	7/13/2019	21:10:00	68.42	3999	Other miscellaneous balance of plant problems	Replaced flow divider for distillate feed to the CT.	336	461
Polk 2 ST	13	Unplanned (Forced) Derating - Immediate	7/13/2019	14:31:00	7/13/2019	14:35:00	0.07	3999	Other miscellaneous balance of plant problems	Beckwith backup generator protection relay was replaced. Unit tripped subsequently du	336	461
Polk 2 ST	14	Unplanned (Forced) Derating - Immediate	7/13/2019	21:19:00	7/14/2019	13:19:00	16	3999	Other miscellaneous balance of plant problems	Atomizing air compressor supply valve 8AA-2 failed and caused a trip when CT was on li	336	461
Polk 2 ST	15	Unplanned (Forced) Derating - Immediate	7/18/2019	9:44:00	7/18/2019	11:03:00	1.32	3999	Other miscellaneous balance of plant problems	CT tripped on high exhaust temperatures during liquid fuel combustion test.	336	461
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 c	364	480