

# 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

December 28, 2020

## **ELECTRONIC FILING**

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

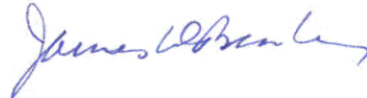
Re: Fuel and Purchased Power Cost Recovery Clause with Generating Performance  
Incentive Factor; FPSC Docket No. 20200001-EI

Dear Mr. Teitzman:

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

Thank you for your assistance in connection with this matter.

Sincerely,



James D. Beasley

JDB/ne

Attachment

cc: All parties of record (w/attachment)

## CERTIFICATE OF SERVICE

I HEREBY CERTIFY that a true and correct copy of the foregoing Schedules, filed on behalf of Tampa Electric Company, has been furnished by electronic mail on this 28th day of December 2020 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)  
[FLRegulatoryLegal@duke-energy.com](mailto:FLRegulatoryLegal@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)  
[mqualls@moylelaw.com](mailto:mqualls@moylelaw.com)

Mr. Steven R. Griffin  
Beggs & Lane  
P.O. Box 12950  
Pensacola FL 32591  
[srg@beggslane.com](mailto:srg@beggslane.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  
David M. Lee  
Florida Power & Light Company  
700 Universe Boulevard  
Juno Beach, FL 33408-0420  
[maria.moncada@fpl.com](mailto:maria.moncada@fpl.com)  
[david.lee@fpl.com](mailto:david.lee@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@nexterenergy.com](mailto:russell.badders@nexterenergy.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. James W. Brew  
Ms. Laura W. Baker  
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)  
[lwb@smxblaw.com](mailto:lwb@smxblaw.com)



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ATTORNEY

ORIGINAL SHEET NO. 8.401.19A  
TAMPA ELECTRIC COMPANY

ACTUAL UNIT PERFORMANCE DATA

JANUARY 2020 - DECEMBER 2020

PLANT/UNIT		MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD
BAYSIDE 1		Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	2020
1. Equivalent Availability Factor (%)	EAF	99.1	88.3	48.0	99.9	97.3	98.7	91.4	98.6	98.2	99.1	96.7		92.6
2. Period Hours	PH	744.0	696.0	743.0	720.0	744.0	720.0	744.0	744.0	720.0	744.0	721.0		8,040.0
3. Service Hours	SH	739.2	480.7	348.7	717.4	730.6	713.9	681.0	744.0	711.4	739.7	705.0		7,311.6
4. Reserve Shutdown Hours	RSH	0.0	142.0	10.1	1.7	0.0	0.0	0.0	-7.1	0.0	0.0	0.0		146.7
5. Unavailable Hours	UH	4.8	73.3	384.2	0.9	13.4	6.1	63.0	7.1	8.6	4.3	16.0		581.7
6. Planned Outage Hours	POH	0.0	57.5	275.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.8		344.3
7. Forced Outage Hours	FOH	1.2	0.0	109.2	0.9	13.4	0.0	0.0	7.1	0.6	0.0	0.0		132.4
8. Maintenance Outage Hours	MOH	3.6	15.8	0.0	0.0	0.0	6.1	63.0	0.0	8.0	4.3	4.2		105.0
9a. Partial Planned Outage Hours	PPOH	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0		0.0
10a. Partial Forced Outage Hours	PFOH	2.1	0.0	7.6	0.0	16.8	0.0	3.3	10.6	0.9	0.0	0.0		41.3
10b. Load Reduction Partial Forced (MW)	LRPF	69.4	0.0	79.0	0.0	94.1	0.0	79.1	79.0	79.1	0.0	0.0		84.7
11a. Partial Maintenance Outage Hours	PMOH	4.8	23.9	0.0	0.0	0.0	9.1	0.0	0.0	11.9	6.4	16.5		72.6
11b. Load Reduction Partial Maintenance (MW)	LRPM	78.0	80.4	0.0	0.0	0.0	79.0	0.0	0.0	79.0	79.0	114.1		87.4
12. Net Summer Continuous Rating (MW)	NSC	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0		701.0
13. Operating British Thermal Units (GBTU)	OPR BTU	1,875.0	1,493.5	1,050.7	2,025.6	2,499.8	2,267.2	2,404.8	2,912.4	2,241.8	2,354.4	2,180.4		23,305.7
14. Net Generation (MWH)	NETGEN	248,230.8	203,342.1	140,773.6	274,428.4	339,658.8	290,222.0	323,875.6	395,805.8	302,915.5	319,377.5	305,529.4		3,144,159.5
15. Avg. Net Operating Heat Rate (BTU/KWH)	ANOHR	7,554.0	7,345.0	7,464.0	7,381.0	7,360.0	7,812.0	7,425.0	7,358.0	7,401.0	7,401.0	7,136.0		7,412.4
16. Net Output Factor (%)	NOF	42.1	53.4	50.8	54.6	65.1	57.5	66.3	75.9	60.0	61.2	60.5		59.2
17. Net Period Continuous Rating (MW)	NPC	792.0	792.0	792.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0	701.0		725.8
18. Avg. Net Operating Heat Rate Equation		ANOHR = NOF ( -2.852 ) + 7,630												

ORIGINAL SHEET NO. 8.401.19A  
TAMPA ELECTRIC COMPANY

ACTUAL UNIT PERFORMANCE DATA

JANUARY 2020 - DECEMBER 2020

PLANT/UNIT		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-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	2020
1. Equivalent Availability Factor (%)	EAF	71.3	95.4	99.9	98.5	83.8	97.8	95.3	91.9	99.2	99.6	46.3		89.9
2. Period Hours	PH	744.0	696.0	743.0	720.0	744.0	720.0	744.0	744.0	720.0	744.0	721.0		8,040.0
3. Service Hours	SH	85.2	672.4	742.3	712.7	663.8	709.4	720.5	744.0	715.9	742.0	348.3		6,856.5
4. Reserve Shutdown Hours	RSH	448.8	0.0	0.0	0.0	0.0	0.0	0.0	-40.3	0.0	0.0	0.0		408.5
5. Unavailable Hours	UH	210.0	23.6	0.7	7.3	80.2	10.6	23.5	40.3	4.1	2.0	381.3		783.6
6. Planned Outage Hours	POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	381.3		381.3
7. Forced Outage Hours	FOH	3.5	6.5	0.0	7.3	26.2	3.9	11.1	0.0	0.0	0.0	0.0		58.5
8. Maintenance Outage Hours	MOH	206.5	17.1	0.7	0.0	54.0	6.7	12.3	40.3	4.1	2.0	0.0		343.7
9a. Partial Planned Outage Hours	PPOH	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0		0.0
10a. Partial Forced Outage Hours	PFOH	4.8	11.2	0.0	14.2	47.9	7.7	21.8	0.0	0.0	0.0	0.0		107.6
10b. Load Reduction Partial Forced (MW)	LRPF	77.1	77.0	0.0	77.0	89.4	67.0	77.0	0.0	0.0	0.0	0.0		81.8
11a. Partial Maintenance Outage Hours	PMOH	9.6	20.2	1.2	0.0	105.6	13.1	24.1	78.8	8.0	3.9	10.4		274.8
11b. Load Reduction Partial Maintenance (MW)	LRPM	77.0	92.4	77.4	0.0	77.0	77.0	77.0	77.0	77.0	77.0	154.8		81.1
12. Net Summer Continuous Rating (MW)	NSC	929.0	929.0	929.0	929.0	929.0	929.0	929.0	929.0	929.0	929.0	929.0		929.0
13. Operating British Thermal Units (GBTU)	OPR BTU	189.5	2,657.5	3,038.4	3,056.0	2,699.8	3,308.5	3,631.2	3,462.6	3,138.8	2,928.7	1,058.7		29,169.8
14. Net Generation (MWH)	NETGEN	22,308.2	357,443.8	406,847.3	417,285.6	366,298.4	431,349.1	495,327.5	471,829.2	428,814.5	398,819.3	138,818.6		3,935,141.5
15. Avg. Net Operating Heat Rate (BTU/KWH)	ANOHR	8,496.0	7,435.0	7,468.0	7,324.0	7,371.0	7,670.0	7,331.0	7,339.0	7,320.0	7,343.0	7,626.0		7,412.7
16. Net Output Factor (%)	NOF	25.0	49.1	52.2	62.4	53.0	64.5	71.7	68.3	64.1	57.7	42.9		59.7
17. Net Period Continuous Rating (MW)	NPC	1,047.0	1,047.0	1,047.0	929.0	929.0	929.0	929.0	929.0	929.0	929.0	929.0		961.2
18. Avg. Net Operating Heat Rate Equation		ANOHR = NOF ( -6.673 ) + 7,965												

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ORIGINAL SHEET NO. 8.401.19A  
TAMPA ELECTRIC COMPANY

ACTUAL UNIT PERFORMANCE DATA

JANUARY 2020 - DECEMBER 2020

PLANT/UNIT		MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD	
BIG BEND 4		Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	2020
1. Equivalent Availability Factor (%)	EAF	0.9	0.0	0.0	0.0	0.2	31.6	29.5	40.3	55.8	32.6	79.5		34.9
2. Period Hours	PH	744.0	696.0	744.0	720.0	744.0	720.0	744.0	744.0	720.0	744.0	721.0		8,041.0
3. Service Hours	SH	629.2	0.0	0.0	0.0	1.4	580.8	738.6	425.2	602.7	366.4	664.4		4,008.7
4. Reserve Shutdown Hours	RSH	97.3	0.0	0.0	0.0	0.0	0.0	0.0	101.9	0.0	0.0	0.0		199.2
5. Unavailable Hours	UH	17.5	696.0	744.0	720.0	742.6	139.2	5.4	217.0	117.4	377.6	56.6		3,833.3
6. Planned Outage Hours	POH	17.5	696.0	744.0	720.0	659.8	0.0	0.0	0.0	0.0	377.6	47.3		3,262.2
7. Forced Outage Hours	FOH	0.0	0.0	0.0	0.0	0.0	2.0	5.4	0.0	11.3	0.0	9.3		28.0
8. Maintenance Outage Hours	MOH	0.0	0.0	0.0	0.0	82.8	137.2	0.0	217.0	106.1	0.0	0.0		543.1
9a. Partial Planned Outage Hours	PPOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	510.8		510.8
9b. Load Reduction Partial Planned (MW)	LRPP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	75.0		75.0
10a. Partial Forced Outage Hours	PFOH	509.5	0.0	0.0	0.0	0.0	471.0	738.7	527.0	0.0	347.8	0.0		2,594.0
10b. Load Reduction Partial Forced (MW)	LRPF	37.1	0.0	0.0	0.0	0.0	182.0	257.0	182.0	0.0	150.0	0.0		170.6
11a. Partial Maintenance Outage Hours	PMOH	0.0	0.0	0.0	0.0	0.0	138.2	87.0	0.0	0.0	0.0	0.0		225.2
11b. Load Reduction Partial Maintenance (MW)	LRPM	0.0	0.0	0.0	0.0	0.0	267.0	337.0	0.0	0.0	0.0	0.0		294.0
12. Net Summer Continuous Rating (MW)	NSC	347.0	347.0	347.0	347.0	347.0	422.0	422.0	422.0	422.0	422.0	422.0		387.9
13. Operating British Thermal Units (GBTU)	OPR BTU	1,977.2	0.0	0.0	0.0	0.0	1,230.0	1,592.4	1,018.3	1,477.8	830.0	2,180.3		10,305.9
14. Net Generation (MWH)	NETGEN	188,162.0	0.0	1.0	0.0	-2,245.0	106,678.0	141,282.0	87,762.0	134,685.0	84,214.0	197,333.0		937,872.0
15. Avg. Net Operating Heat Rate (BTU/KWH)	ANOHR	10,508.0	0.0	0.0	0.0	0.0	11,530.0	11,271.0	11,603.0	10,972.0	9,856.0	11,049.0		10,988.6
16. Net Output Factor (%)	NOF	85.0	0.0	0.0	0.0	-455.6	52.9	45.3	48.9	53.0	54.5	70.4		60.1
17. Net Period Continuous Rating (MW)	NPC	352.0	352.0	352.0	347.0	347.0	422.0	422.0	422.0	422.0	422.0	422.0		389.3
18. Avg. Net Operating Heat Rate Equation		ANOHR = NOF ( -5.6236 ) + 11,149												

ORIGINAL SHEET NO. 8.401.19A  
TAMPA ELECTRIC COMPANY

ACTUAL UNIT PERFORMANCE DATA

JANUARY 2020 - DECEMBER 2020

PLANT/UNIT		MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD	
POLK 1		Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	2020
1. Equivalent Availability Factor (%)	EAF	97.9	81.1	89.2	61.4	27.7	91.7	75.8	93.7	99.2	78.1	40.6		76.1
2. Period Hours	PH	744.0	696.0	743.0	720.0	744.0	720.0	744.0	744.0	720.0	744.0	721.0		8,040.0
3. Service Hours	SH	211.9	120.4	662.4	438.8	206.3	717.9	476.1	216.8	347.5	286.4	252.9		3,937.4
4. Reserve Shutdown Hours	RSH	516.8	444.0	0.0	44.0	0.0	0.0	174.8	527.3	366.4	294.6	39.3		2,407.2
5. Unavailable Hours	UH	15.3	131.6	80.6	237.2	537.7	2.1	93.1	0.0	6.2	163.0	427.8		1,694.6
6. Planned Outage Hours	POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	359.8		359.8
7. Forced Outage Hours	FOH	1.6	10.7	0.0	154.1	537.7	2.1	0.0	0.0	6.2	150.8	0.0		863.2
8. Maintenance Outage Hours	MOH	13.7	120.9	80.6	83.1	0.0	0.0	93.1	0.0	0.0	12.3	68.0		471.7
9a. Partial Planned Outage Hours	PPOH	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0		0.0
10a. Partial Forced Outage Hours	PFOH	0.0	0.0	0.0	107.1	0.0	717.9	650.9	566.9	0.0	0.0	0.0		2,042.8
10b. Load Reduction Partial Forced (MW)	LRPF	0.0	0.0	0.0	90.0	0.0	18.9	28.0	13.3	0.0	0.0	0.0		24.0
11a. Partial Maintenance Outage Hours	PMOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
11b. Load Reduction Partial Maintenance (MW)	LRPM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	119.8	229.6		0.0
12. Net Summer Continuous Rating (MW)	NSC	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	202.0	202.0	202.0		207.8
13. Operating British Thermal Units (GBTU)	OPR BTU	256.3	157.0	877.3	555.1	298.1	1,068.7	613.0	256.9	440.2	338.7	322.1		5,183.3
14. Net Generation (MWH)	NETGEN	30,426.0	15,360.0	101,937.0	62,777.0	33,685.0	130,490.0	68,825.0	27,805.0	46,082.0	35,386.0	34,985.0		587,758.0
15. Avg. Net Operating Heat Rate (BTU/KWH)	ANOHR	8,424.0	10,218.0	8,606.0	8,843.0	8,849.0	8,188.0	11,271.0	11,603.0	9,553.0	9,572.0	9,206.0		8,818.8
16. Net Output Factor (%)	NOF	59.3	52.7	63.4	60.9	69.0	77.4	68.8	61.1	65.7	61.2	68.5		69.8
17. Net Period Continuous Rating (MW)	NPC	230.0	230.0	230.0	210.0	210.0	210.0	210.0	210.0	210.0	202.0	202.0		214.0
18. Avg. Net Operating Heat Rate Equation		ANOHR = NOF ( -7.778 ) + 10,842												

ORIGINAL SHEET NO. 8.401.19A  
TAMPA ELECTRIC COMPANY

ACTUAL UNIT PERFORMANCE DATA

JANUARY 2020 - DECEMBER 2020

PLANT/UNIT		MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	MONTH OF:	PERIOD	
POLK 2		Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	2020
1. Equivalent Availability Factor (%)	EAF	99.4	92.2	99.3	96.1	91.4	82.8	95.5	92.9	72.0	64.2	62.3		89.8
2. Period Hours	PH	744.0	696.0	743.0	720.0	744.0	720.0	744.0	744.0	720.0	744.0	721.0		8,040.0
3. Service Hours	SH	741.6	675.1	733.0	714.9	709.0	597.6	732.1	744.0	717.3	590.1	589.6		7,544.3
4. Reserve Shutdown Hours	RSH	0.0	0.0	4.5	0.0	0.0	0.0	0.0	-7.6	0.0	0.0	0.0		-3.1
5. Unavailable Hours	UH	2.4	20.9	5.5	5.1	35.0	122.4	11.9	7.6	113.0	154.0	131.4		609.2
6. Planned Outage Hours	POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	101.8	15.8	82.9		207.3
7. Forced Outage Hours	FOH	0.1	7.7	5.5	0.1	0.0	122.4	0.3	0.8	5.2	130.9	48.5		321.5
8. Maintenance Outage Hours	MOH	2.3	13.2	0.0	5.0	35.0	0.0	11.6	0.0	6.1	7.2	0.0		80.4
9a. Partial Planned Outage Hours	PPOH	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0		0.0
10a. Partial Forced Outage Hours	PFOH	9.2	14.3	0.0	33.6	0.4	6.0	43.0	134.5	39.1	349.7	172.6		802.4
10b. Load Reduction Partial Forced (MW)	LRPF	166.1	179.5	0.0	338.2	126.2	241.0	133.6	120.8	55.3	136.5	138.2		140.4
11a. Partial Maintenance Outage Hours	PMOH	0.0	106.6	0.0	15.4	107.7	0.0	35.8	40.0	311.6	33.6	176.8		827.5
11b. Load Reduction Partial Maintenance (MW)	LRPM	0.0	125.0	0.0	125.0	125.0	0.0	119.8	119.8	123.8	119.8	229.6		146.2
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	1,061.0	1,061.0	1,061.0		1,061.0
13. Operating British Thermal Units (GBTU)	OPR BTU	4,418.6	4,119.3	4,573.1	4,030.8	3,911.8	3,627.4	3,718.0	3,677.7	2,648.7	2,516.2	2,624.7		39,866.3
14. Net Generation (MWH)	NETGEN	636,822.0	593,139.0	665,332.0	581,812.0	559,597.0	514,715.0	521,798.0	518,105.0	373,027.0	291,570.0	366,035.0		5,621,952.0
15. Avg. Net Operating Heat Rate (BTU/KWH)	ANOHR	6,938.0	6,945.0	6,873.0	6,928.0	6,990.0	7,048.0	7,125.0	7,098.0	7,100.0	7,307.0	7,171.0		7,091.2
16. Net Output Factor (%)	NOF	71.3	71.0	75.5	76.2	70.9	78.3	66.1	65.6	49.0	44.8	48.1		67.8
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	1,061.0	1,061.0	1,061.0	1,061.0		1,098.9
18. Avg. Net Operating Heat Rate Equation		ANOHR = NOF ( -53.862 ) + 11,266												



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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 CT1(A)	84	Reserve Shutdown	11/1/2020	8:06:00	11/1/2020	14:53:00	6.78			Reserve Shutdown		156
BS CT1(A)	85	Reserve Shutdown	11/2/2020	8:35:00	11/3/2020	14:22:00	29.78			Reserve Shutdown		156
BS CT1(A)	86	Reserve Shutdown	11/4/2020	1:52:00	11/4/2020	13:15:00	11.38			Reserve Shutdown		156
BS CT1(A)	87	Reserve Shutdown	11/5/2020	7:23:00	11/7/2020	10:23:00	51			Reserve Shutdown		156
BS CT1(A)	88	Reserve Shutdown	11/18/2020	8:44:00	11/18/2020	16:24:00	7.67			Reserve Shutdown		156
BS CT1(A)	89	Reserve Shutdown	11/20/2020	9:00:00	11/20/2020	16:02:00	7.03			Reserve Shutdown		156
BS CT1(A)	90	Reserve Shutdown	11/22/2020	0:18:00	11/22/2020	9:32:00	9.23			Reserve Shutdown		156
BS CT1(A)	91	Reserve Shutdown	11/23/2020	1:15:00	11/23/2020	10:38:00	9.38			Reserve Shutdown		156
BS CT1(A)	92	Reserve Shutdown	11/24/2020	1:45:00	11/24/2020	10:37:00	8.87			Reserve Shutdown		156
BS CT1(A)	93	Planned Outage	11/28/2020	16:56:00	11/30/2020	0:00:00	31.07	4619	Other hydrogen system problems	Planned fall outage		156
BS CT1(A)	94	Reserve Shutdown	11/30/2020	0:00:00	11/30/2020	23:59:00	24			Reserve Shutdown		156

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Unit	Event Number	Event Type	Event Begin Date	Event Begin Time	Event End Date	Event End Time	Event Duration	Cause Code	Cause Code Description	Narrative	Net Available Capacity	Net Dependable Capacity
BS CT1(B)	234	Reserve Shutdown	11/2/2020	0:14:00	11/2/2020	14:32:00	14.3			Reserve Shutdown		156
BS CT1(B)	235	Reserve Shutdown	11/6/2020	20:57:00	11/9/2020	10:39:00	61.7			Reserve Shutdown		156
BS CT1(B)	236	Reserve Shutdown	11/26/2020	1:22:00	11/26/2020	12:19:00	10.95			Reserve Shutdown		156
BS CT1(B)	237	Reserve Shutdown	11/27/2020	1:27:00	11/28/2020	12:36:00	35.15			Reserve Shutdown		156

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Unit	Event Number	Event Type	Event Begin Date	Event Begin Time	Event End Date	Event End Time	Event Duration	Cause Code	Cause Code Description	Narrative	Net Available Capacity	Net Dependable Capacity
BS CT1(C)	108	Maintenance Outage	11/2/2020	21:18:00	11/3/2020	16:00:00	18.7	0590	Desuperheater/atemperator valves	1C superheater and reheater check valve replacement.		156
BS CT1(C)	109	Reserve Shutdown	11/3/2020	16:00:00	11/5/2020	11:02:00	43.03			Reserve Shutdown		156
BS CT1(C)	110	Reserve Shutdown	11/6/2020	0:22:00	11/6/2020	12:14:00	11.87			Reserve Shutdown		156
BS CT1(C)	111	Reserve Shutdown	11/14/2020	2:56:00	11/14/2020	10:54:00	7.97			Reserve Shutdown		156
BS CT1(C)	112	Reserve Shutdown	11/15/2020	3:03:00	11/15/2020	10:12:00	7.15			Reserve Shutdown		156
BS CT1(C)	113	Reserve Shutdown	11/17/2020	0:57:00	11/17/2020	16:11:00	15.23			Reserve Shutdown		156
BS CT1(C)	114	Reserve Shutdown	11/17/2020	22:21:00	11/18/2020	15:00:00	16.65			Reserve Shutdown		156
BS CT1(C)	115	Reserve Shutdown	11/20/2020	0:43:00	11/20/2020	11:28:00	10.75			Reserve Shutdown		156
BS CT1(C)	116	Reserve Shutdown	11/21/2020	0:47:00	11/21/2020	10:02:00	9.25			Reserve Shutdown		156
BS CT1(C)	117	Reserve Shutdown	11/22/2020	5:57:00	11/22/2020	15:33:00	9.6			Reserve Shutdown		156
BS CT1(C)	118	Reserve Shutdown	11/23/2020	8:22:00	11/23/2020	15:16:00	6.9			Reserve Shutdown		156
BS CT1(C)	119	Reserve Shutdown	11/26/2020	0:10:00	11/26/2020	10:29:00	10.32			Reserve Shutdown		156
BS CT1(C)	120	Reserve Shutdown	11/26/2020	17:46:00	11/27/2020	11:55:00	18.15			Reserve Shutdown		156
BS CT1(C)	121	Reserve Shutdown	11/28/2020	1:43:00	11/28/2020	11:41:00	9.97			Reserve Shutdown		156
BS CT1(C)	122	Planned Outage	11/29/2020	1:52:00	11/30/2020	0:00:00	22.13	4619	Other hydrogen system problems	Planned fall outage		156
BS CT1(C)	123	Reserve Shutdown	11/30/2020	0:00:00	11/30/2020	23:59:00	24			Reserve Shutdown		156

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Unit	Event Number	Event Type	Event Begin Date	Event Begin Time	Event End Date	Event End Time	Event Duration	Cause Code	Cause Code Description	Narrative	Net Available Capacity	Net Dependable Capacity
BS ST 1	59	Maintenance Derating	11/2/2020	21:18:00	11/3/2020	16:00:00	18.7 3999	Other miscellaneous balance of plant problems	ST1 derated - 1C superheater and reheater check valve replacement.		154	233
BS ST 1	60	Maintenance Derating	11/28/2020	16:56:00	11/30/2020	0:00:00	31.07 3999	Other miscellaneous balance of plant problems	ST1 Derated - 1A fall outage		154	233
BS ST 1	61	Maintenance Derating	11/29/2020	1:52:00	11/30/2020	0:00:00	22.13 3999	Other miscellaneous balance of plant problems	ST1 Derated - 1C Planned fall outage		154	233

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Unit	Event Number	Event Type	Event Begin Date	Event Begin Time	Event End Date	Event End Time	Event Duration	Cause Code	Cause Code Description	Narrative	Net Available Capacity	Net Dependable Capacity
BS CT2(A)	57	Reserve Shutdown	11/7/2020	20:38:00	11/8/2020	18:25:00	21.78			Reserve Shutdown		156
BS CT2(A)	58	Planned Outage	11/8/2020	18:25:00	11/25/2020	4:30:00	394.08	5250	Controls and instrumentation	Modifications were made to the 2A Fuel Gas Conditioning Skid to optimize performance.		156
BS CT2(A)	59	Reserve Shutdown	11/25/2020	4:30:00	11/28/2020	15:54:00	83.4			Reserve Shutdown		156

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Unit	Event Number	Event Type	Event Begin Date	Event Begin Time	Event End Date	Event End Time	Event Duration	Cause Code	Cause Code Description	Narrative	Net Available Capacity	Net Dependable Capacity
BS CT2(B)	112	Reserve Shutdown	11/1/2020	0:00:00	11/1/2020	10:42:00	11.7			Reserve Shutdown		156
BS CT2(B)	113	Reserve Shutdown	11/1/2020	22:18:00	11/2/2020	10:39:00	12.35			Reserve Shutdown		156
BS CT2(B)	114	Reserve Shutdown	11/3/2020	4:14:00	11/4/2020	11:16:00	31.03			Reserve Shutdown		156
BS CT2(B)	115	Reserve Shutdown	11/5/2020	1:56:00	11/5/2020	12:48:00	10.87			Reserve Shutdown		156
BS CT2(B)	116	Reserve Shutdown	11/5/2020	23:00:00	11/6/2020	10:38:00	11.63			Reserve Shutdown		156
BS CT2(B)	117	Reserve Shutdown	11/7/2020	0:07:00	11/8/2020	11:29:00	35.37			Reserve Shutdown		156
BS CT2(B)	118	Reserve Shutdown	11/8/2020	20:30:00	11/8/2020	22:30:00	2			Reserve Shutdown		156
BS CT2(B)	119	Planned Outage	11/8/2020	22:30:00	11/25/2020	4:30:00	390	5250	Controls and instrumentation	Modifications were made to the 2B Fuel Gas Conditioning Skid to optimize performance.		156
BS CT2(B)	120	Reserve Shutdown	11/25/2020	4:30:00	11/29/2020	11:01:00	102.52			Reserve Shutdown		156

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Unit	Event Number	Event Type	Event Begin Date	Event Begin Time	Event End Date	Event End Time	Event Duration	Cause Code	Cause Code Description	Narrative	Net Available Capacity	Net Dependable Capacity
BS CT2(C)	99	Reserve Shutdown	11/2/2020	1:37:00	11/5/2020	10:04:00	80.45			Reserve Shutdown		156
BS CT2(C)	100	Reserve Shutdown	11/6/2020	3:42:00	11/7/2020	11:47:00	32.08			Reserve Shutdown		156
BS CT2(C)	101	Reserve Shutdown	11/8/2020	1:42:00	11/8/2020	10:01:00	8.32			Reserve Shutdown		156
BS CT2(C)	102	Planned Outage	11/9/2020	21:37:00	11/25/2020	4:05:00	366.47	4619	Other hydrogen system problems	New hydrogen dryers were installed on 2C, because they old dryer is obsolete.		156
BS CT2(C)	103	Reserve Shutdown	11/28/2020	7:01:00	11/29/2020	14:22:00	31.35			Reserve Shutdown		156

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Unit	Event Number	Event Type	Event Begin Date	Event Begin Time	Event End Date	Event End Time	Event Duration	Cause Code	Cause Code Description	Narrative	Net Available Capacity	Net Dependable Capacity
BS CT2(D)	101	Reserve Shutdown	11/1/2020	0:00:00	11/1/2020	10:16:00	11.27			Reserve Shutdown		156
BS CT2(D)	102	Reserve Shutdown	11/2/2020	7:51:00	11/6/2020	13:59:00	102.13			Reserve Shutdown		156
BS CT2(D)	103	Planned Outage	11/10/2020	2:24:00	11/26/2020	9:37:00	391.22	4619	Other hydrogen system problems	New Hydrogen Dryer was installed on 2D to replace old obsolete dryer.		156
BS CT2(D)	104	Reserve Shutdown	11/29/2020	8:17:00	11/30/2020	10:07:00	25.83			Reserve Shutdown		156



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Unit	Event Number	Event Type	Event Begin Date	Event Begin Time	Event End Date	Event End Time	Event Duration	Cause Code	Cause Code Description	Narrative	Net Available Capacity	Net Dependable Capacity
BS ST 2	27	Maintenance Derating	11/8/2020	18:25:00	11/10/2020	2:02:00	31.62	3999	Other miscellaneous balance of plant problems	Modifications were made to the 2A Fuel Gas Conditioning Skid to optimize	228	305
BS ST 2	28	Maintenance Derating	11/8/2020	22:30:00	11/10/2020	2:02:00	27.53	3999	Other miscellaneous balance of plant problems	Modifications were made to the 2B Fuel Gas Conditioning Skid to optimize	228	305
BS ST 2	29	Maintenance Derating	11/9/2020	21:37:00	11/10/2020	2:02:00	4.42	3999	Other miscellaneous balance of plant problems	New hydrogen dryers were installed on 2C, because they old dryer is obsc	228	305
BS ST 2	30	Planned Outage	11/10/2020	2:02:00	11/25/2020	14:43:00	372.68	3123	Hot well	Steam Turbine Came Offline for yearly routine maintenance. Tunnel Cleaning, Condenser/		305

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Unit	Event Number	Event Type	Event Begin Date	Event Begin Time	Event End Date	Event End Time	Event Duration	Cause Code	Cause Code Description	Narrative	Net Available Capacity	Net Dependable Capacity
Big Bend 4	23	Planned Outage	11/1/2020	0:00:00	11/2/2020	22:20:00	47.33	1035	Platen superheater	Boiler tube work.		422
Big Bend 4	24	Planned Derating	11/9/2020	8:00:00	11/30/2020	23:59:00	520	1035	Platen superheater	Reduced the steam header pressure (2000#) to preserve boiler tube integrity (reliabili	347	422
Big Bend 4	25	Unplanned (Forced) Outage - Immediate	11/26/2020	18:44:00	11/27/2020	3:59:00	9.25	3311	Condensate/hotwell pump motor	"A" Condenser air removal pump tripped, causing a loss of condenser vacuum.		422

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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	34	Maintenance Outage	11/1/2020	0:00:00	11/3/2020	19:00:00	68	0775	Economizer piping	LP Economizer leak on lower section of harp		152
Polk 1	35	Reserve Shutdown	11/3/2020	19:00:00	11/5/2020	11:20:00	40.33			Reserve Shutdown		152
Polk 1	36	Planned Outage	11/16/2020	0:12:00	11/30/2020	23:59:00	359.8	3970	Distributive Control System process computer	Upgrading DCS CPUs on Loop 1		152

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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	30	Maintenance Outage	11/1/2020	0:00:00	11/3/2020	19:00:00	68	3999	Other miscellaneous balance of HRSG had an LP Economizer leak.			50
Polk 1 ST	31	Reserve Shutdown	11/3/2020	19:00:00	11/5/2020	15:01:00	44.02		Reserve Shutdown			50
Polk 1 ST	32	Planned Outage	11/16/2020	0:09:00	11/30/2020	23:59:00	359.85	3970	Distributive Control System proc DCS CPUs on Loop 1 getting upgraded			50

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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	124	Reserve Shutdown	11/1/2020	0:00:00	11/1/2020	14:14:00	15.23			GTG2 Available but HRSG2 unavailable due to trash in Boiler Feet Pump Suction Strainer		150
Polk 2	125	Reserve Shutdown	11/1/2020	20:20:00	11/3/2020	2:27:00	30.12					150
Polk 2	126	Reserve Shutdown	11/4/2020	7:40:00	11/4/2020	15:58:00	8.3					150
Polk 2	127	Reserve Shutdown	11/7/2020	2:38:00	11/7/2020	9:59:00	7.35					150
Polk 2	128	Reserve Shutdown	11/15/2020	1:02:00	11/15/2020	9:23:00	8.35			Reserve Shutdown		150
Polk 2	129	Reserve Shutdown	11/21/2020	4:21:00	11/21/2020	13:27:00	9.1			Reserve Shutdown		150
Polk 2	130	Unplanned (Forced) Outage - Immediate	11/24/2020	10:02:00	11/24/2020	17:04:00	7.03	3950	Process computer	Work on DCS system updates for Loop 1 caused opening of Station service feeds to GTG2		150
Polk 2	131	Reserve Shutdown	11/27/2020	22:40:00	11/28/2020	10:02:00	11.37			Reserve Shutdown		150
Polk 2	132	Reserve Shutdown	11/30/2020	11:30:00	11/30/2020	23:59:00	12.5			Reserve Shutdown		150

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Unit	Event Number	Event Type	Event Begin Date	Event Begin Time	Event End Date	Event End Time	Event Duration	Cause Code	Cause Code Description	Narrative	Net Available Capacity	Net Dependable Capacity
Polk 2 ST	75	Maintenance Derating	11/1/2020	0:00:00	11/17/2020	23:00:00	408 3999	Other miscellaneous balance of plant problems	GTG5 32,000 hour Hot Gas Path Inspection		339.25	461
Polk 2 ST	78	Unplanned (Forced) Derating - Immediate	11/1/2020	0:00:00	11/3/2020	2:00:00	51 3999	Other miscellaneous balance of plant problems	HRSG2 Feedwater Pump Suction strainer plugged several times. Prevented HRSG operation		336.25	461
Polk 2 ST	79	Maintenance Derating	11/3/2020	0:38:00	11/3/2020	2:00:00	1.37 3999	Other miscellaneous balance of plant problems	GTG4 had planned Borescope Inspection		211.5	461
Polk 2 ST	80	Maintenance Derating	11/3/2020	2:00:00	11/10/2020	10:44:00	176.73 3999	Other miscellaneous balance of plant problems	GTG4 had planned Borescope Inspection		214.5	461
Polk 2 ST	81	Unplanned (Forced) Derating - Immediate	11/10/2020	21:32:00	11/13/2020	15:00:00	65.47 3999	Other miscellaneous balance of plant problems	Valves and ignitors not operating properly		431	461
Polk 2 ST	82	Unplanned (Forced) Derating - Immediate	11/12/2020	14:30:00	11/13/2020	15:00:00	24.5 3999	Other miscellaneous balance of plant problems	GTG3 tripped due to Lube oil Pump Coupling broken. Unit operating base load on gas fue		214.5	461
Polk 2 ST	83	Unplanned (Forced) Derating - Immediate	11/12/2020	15:00:00	11/13/2020	21:30:00	6.5 3999	Other miscellaneous balance of plant problems	GTG3 tripped due to Lube oil Pump Coupling broken. Unit operating base load on gas fue		214.5	461
Polk 2 ST	84	Unplanned (Forced) Derating - Immediate	11/17/2020	23:00:00	11/29/2020	12:44:00	277.73 3999	Other miscellaneous balance of plant problems	GTG5 T1 bearing requires be replacement due to the scoring observed being greater than		336.25	461
Polk 2 ST	85	Unplanned (Forced) Derating - Immediate	11/19/2020	15:00:00	11/21/2020	15:00:00	48 3999	Other miscellaneous balance of plant problems	HRSG 2 Duct Burners failed to operate properly.		431	461
Polk 2 ST	86	Unplanned (Forced) Derating - Immediate	11/24/2020	10:02:00	11/24/2020	17:04:00	7.03 3999	Other miscellaneous balance of plant problems	GTG2 tripped as a result of work on DCS system updates for Loop 1 caused opening of St		336.25	461
Polk 2 ST	87	Unplanned (Forced) Derating - Immediate	11/24/2020	10:02:00	11/24/2020	16:00:00	5.97 3999	Other miscellaneous balance of plant problems	GTG3 tripped while work on DCS system updates for Loop 1 caused opening of Station ser		336.25	461
Polk 2 ST	88	Unplanned (Forced) Outage - Immediate	11/24/2020	10:13:00	11/24/2020	13:38:00	3.42 3999	Other miscellaneous balance of plant problems	STG2 tripped. DCS upgrade installation error caused GTG2 and GTG3 to trip resulting in			461
Polk 2 ST	89	Unplanned (Forced) Derating - Immediate	11/24/2020	16:00:00	11/24/2020	17:04:00	1.07 3999	Other miscellaneous balance of plant problems	GTG3 had to replace fuel gas regulator for the unit.		211.5	461
Polk 2 ST	90	Unplanned (Forced) Derating - Immediate	11/24/2020	17:04:00	11/25/2020	2:00:00	8.93 3999	Other miscellaneous balance of plant problems	GTG3 had to replace fuel gas regulator for the unit.		211.5	461
Polk 2 ST	91	Unplanned (Forced) Derating - Immediate	11/29/2020	14:52:00	11/29/2020	15:49:00	0.95 3999	Other miscellaneous balance of plant problems	GTG 5 had software issue upon start-up following HGPI. QUATERNARY VALVE NOT FOLLOWIN		336.25	461

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Unit	Event Number	Event Type	Event Begin Date	Event Begin Time	Event End Date	Event End Time	Event Duration	Cause Code	Cause Code Description	Narrative	Net Available Capacity	Net Dependable Capacity
Polk 3	174	Reserve Shutdown	11/3/2020	8:47:00	11/3/2020	15:31:00	6.73			Reserve Shutdown		150
Polk 3	175	Reserve Shutdown	11/4/2020	22:35:00	11/5/2020	4:51:00	6.27			Reserve Shutdown		150
Polk 3	176	Unplanned (Forced) Outage - Immediate	11/12/2020	14:30:00	11/13/2020	21:30:00	31	5111	Lube oil pumps	Online Trip. Lube oil Pump Coupling broken. Unit operating base load on gas fuel when		150
Polk 3	177	Reserve Shutdown	11/13/2020	21:30:00	11/14/2020	10:26:00	12.93			Reserve Shutdown		150
Polk 3	178	Reserve Shutdown	11/19/2020	0:22:00	11/19/2020	12:43:00	12.35			Reserve Shutdown		150
Polk 3	179	Unplanned (Forced) Outage - Immediate	11/24/2020	10:02:00	11/24/2020	16:00:00	5.97	3950	Process computer	Work on DCS system updates for Loop 1 caused opening of Station service feeds to GTG2		150
Polk 3	180	Unplanned (Forced) Outage - Immediate	11/24/2020	16:00:00	11/25/2020	2:00:00	10	5041	Fuel piping and valves	Had to replace fuel gas regulator for the unit.		150
Polk 3	181	Reserve Shutdown	11/25/2020	2:00:00	11/25/2020	11:53:00	9.88			Reserve Shutdown		150
Polk 3	182	Reserve Shutdown	11/28/2020	23:58:00	11/29/2020	10:02:00	10.07			Reserve Shutdown		150
Polk 3	183	Reserve Shutdown	11/29/2020	22:26:00	11/30/2020	23:59:00	25.57			Reserve Shutdown		150

Tampa Electric Company  
 Outage Listing  
 November 2020

Unit	Event Number	Event Type	Event Begin Date	Event Begin Time	Event End Date	Event End Time	Event Duration	Cause Code	Cause Code Description	Narrative	Net Available Capacity	Net Dependable Capacity
Polk 4	116	Planned Outage	11/3/2020	0:38:00	11/10/2020	10:44:00	178.1	5272	Borescope Inspection	Planned Borescope Inspection	Note: The outage was taken for the BI. We also do other	150
Polk 4	117	Reserve Shutdown	11/11/2020	13:06:00	11/12/2020	10:09:00	21.05			Reserve Shutdown		150
Polk 4	118	Reserve Shutdown	11/23/2020	20:31:00	11/24/2020	12:02:00	15.52			Reserve Shutdown		150
Polk 4	119	Reserve Shutdown	11/27/2020	7:16:00	11/27/2020	14:02:00	6.77			Reserve Shutdown		150
Polk 4	120	Reserve Shutdown	11/30/2020	0:21:00	11/30/2020	15:30:00	15.15			Reserve Shutdown		150



**Tampa Electric Company**  
**Outage Listing**  
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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	65	Planned Outage	11/17/2020	0:00:00	11/17/2020	23:00:00	408	5270	Hot end inspection	GTGS 32,000 hour Hot Gas Path Inspection		150
Polk 5	66	Unplanned (Forced) Outage - Immediate	11/17/2020	23:00:00	11/29/2020	12:44:00	277.73	5011	High pressure bearings	The T1 bearing requires be replacement due to the scoring observed being greater than		150
Polk 5	67	Unplanned (Forced) Outage - Immediate	11/29/2020	14:52:00	11/29/2020	15:49:00	0.95	5250	Controls and instrumentation	Software issue. QUATERNARY VALVE NOT FOLLOWING REFERENCE TRIP. Unit was running on Gas		150
Polk 5	68	Reserve Shutdown	11/29/2020	19:18:00	11/29/2020	20:18:00	1			GTGS shutdown to get back into Combined Cycle following Simple Cycle tuning. Reserve S		150
Polk 5	69	Reserve Shutdown	11/30/2020	16:42:00	11/30/2020	23:59:00	7.3			Reserve Shutdown		150