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December 20, 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 November 2019.

Thank you for your assistance in connection with this matter.

Sincerely,



Malcolm N. Means

MNM/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 20th day of December, 2019 to the following:

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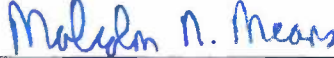
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ATTORNEY

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	93.9	95.4	86.7	96.8	97.5	78.1	67.5		83.8
2. Period Hours	PH	744.0	672.0	744.0	720.0	744.0	720.0	744.0	744.0	720.0	744.0	720.0		8,016.0
3. Service Hours	SH	744.0	597.1	0.0	586.9	714.1	700.1	672.5	728.2	708.2	602.7	467.8		6,521.600
4. Reserve Shutdown Hours	RSH	0.0	0.0	171.9	46.5	0.0	0.0	0.0	0.0	0.0	0.0	23.6		242.0
5. Unavailable Hours	UH	0.0	74.9	572.1	86.6	29.9	19.9	71.5	15.8	11.8	141.3	228.6		1,252.4
6. Planned Outage Hours	POH	0.0	74.9	572.1	8.5	0.0	0.0	0.0	0.0	0.0	114.4	203.7		973.6000
7. Forced Outage Hours	FOH	0.0	0.0	0.0	78.1	0.0	19.9	68.5	10.8	10.2	24.7	14.0		226.2
8. Maintenance Outage Hours	MOH	0.0	0.0	0.0	0.0	29.9	0.0	3.0	5.0	1.6	2.2	10.8		52.5
9a. Partial Planned Outage Hours	PPOH	0.0	48.5	0.0	0.0	0.0	0.0	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	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	16.1	12.8	36.9	16.8		207.000
10b. Load Reduction Partial Forced (MW)	LRPF	263.8	0.0	0.0	77.4	0.0	94.2	79.0	79.0	145.3	72.3	79.0		86.7
11a. Partial Maintenance Outage Hours	PMOH	0.0	0.0	0.0	0.0	44.6	7.7	0.0	7.4	2.4	20.3	0.0		82.5
11b. Load Reduction Partial Maintenance (MW)	LRPM	0.0	0.0	0.0	0.0	79.0	75.0	0.0	79.0	79.0	118.1	0.0		88.3
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	2,153.7	1,975.7	0.0	2,092.3	2,623.6	2,709.4	2,338.2	2,555.4	2,098.8	1,848.1	1,146.7		21,541.9
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	340,370.5	282,565.0	249,882.7	153,636.9		2,906,210.0
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	7,508.0	7,428.0	7,396.0	7,464.0		7,412.4
16. Net Output Factor (%)	NOF	47.7	56.8	0.0	69.4	68.6	73.6	64.1	65.3	56.0	55.1	46.8		61.4
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 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	99.6	99.3	100.0	92.1	97.4	100.0	71.8		88.9
2. Period Hours	PH	744.0	672.0	744.0	720.0	744.0	720.0	744.0	744.0	720.0	744.0	720.0		8,016.0
3. Service Hours	SH	241.8	594.0	740.6	691.2	742.1	717.2	743.0	685.1	707.6	744.0	597.6		7,204.2
4. Reserve Shutdown Hours	RSH	24.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0		25.0
5. Unavailable Hours	UH	478.2	78.0	3.4	28.8	1.9	2.8	0.0	58.9	12.4	0.0	122.4		786.8
6. Planned Outage Hours	POH	445.0	58.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	122.4		625.4
7. Forced Outage Hours	FOH	33.2	0.0	3.4	28.8	0.5	2.8	0.0	0.0	0.0	0.0	0.0		68.7
8. Maintenance Outage Hours	MOH	0.0	20.0	0.0	0.0	1.4	0.0	0.0	58.9	12.4	0.0	0.0		92.9
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	0.7	383.8	0.2	53.4	1.0	0.0	0.0	0.0	0.0	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	0.0	0.0	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	0.0	24.2	0.0	164.2		259.3
11b. Load Reduction Partial Maintenance (MW)	LRPM	261.8	0.0	0.0	0.0	77.1	85.0	0.0	0.0	77.0	0.0	149.2		165.7
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	661.3	2,265.6	4,330.1	3,601.5	4,030.2	3,898.4	3,798.3	3,042.7	2,946.1	3,292.3	2,204.7		34,071.1
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	405,685.4	397,926.0	448,016.3	297,089.0		4,609,850.4
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	7,500.0	7,404.0	7,349.0	7,421.0		7,390.9
16. Net Output Factor (%)	NOF	31.9	49.1	86.9	73.6	77.5	80.5	75.3	63.7	59.5	64.8	44.4		66.2
17. Net Period Continuous Rating (MW)	NPC	1,047.0	1,047.0	1,047.0	956.0	956.0	929.0	929.0	929.0	929.0	929.0	929.0		966.1
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	68.9	98.5	98.8	100.0	100.0	43.7	86.9		78.5
2. Period Hours	PH	744.0	672.0	744.0	720.0	744.0	720.0	744.0	744.0	720.0	744.0	720.0		8,016.0
3. Service Hours	SH	192.7	53.0	458.1	692.0	509.0	667.2	319.9	409.9	465.6	133.8	358.1		4,259.3
4. Reserve Shutdown Hours	RSH	322.9	0.0	179.0	28.0	3.4	42.0	415.5	334.1	254.4	191.2	279.3		2,049.8
5. Unavailable Hours	UH	213.9	539.6	106.9	0.0	231.6	10.8	8.6	0.0	0.0	419.0	82.6		1,613.0
6. Planned Outage Hours	POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	419.0	0.0		419.0
7. Forced Outage Hours	FOH	19.6	539.6	0.0	0.0	41.5	8.7	0.0	0.0	0.0	0.0	0.0		609.4
8. Maintenance Outage Hours	MOH	208.8	0.0	106.9	0.0	190.1	2.1	8.6	0.0	0.0	0.0	82.6		599.1
9a. Partial Planned Outage Hours	PPOH	744.0	493.0	30.9	0.0	0.0	0.0	0.0	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	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	0.0	0.0	372.2		372.2
10b. Load Reduction Partial Forced (MW)	LRPF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0		7.0
11a. Partial Maintenance Outage Hours	PMOH	0.0	0.0	46.7	0.0	0.0	0.0	0.0	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	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	235.0	235.0	235.0	235.0		230.9
13. Operating British Thermal Units (GBTU)	OPR BTU	247.0	62.5	551.9	884.0	657.3	872.8	386.1	475.2	515.6	181.6	493.7		5,327.7
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	51,490.0	55,151.1	19,059.4	59,836.1		595,553.0
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	9,229.0	9,348.0	9,529.0	8,251.0		8,945.8
16. Net Output Factor (%)	NOF	50.8	32.9	55.1	64.5	62.9	64.4	54.1	53.5	50.4	60.6	71.1		58.8
17. Net Period Continuous Rating (MW)	NPC	245.0	245.0	245.0	235.0	235.0	235.0	235.0	235.0	235.0	235.0	235.0		237.7
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	99.4	80.4	97.0	99.5	99.3	99.9	71.7		92.4
2. Period Hours	PH	744.0	672.0	744.0	720.0	744.0	720.0	744.0	744.0	720.0	744.0	720.0		8,016.0
3. Service Hours	SH	742.3	643.0	741.8	396.0	744.0	643.1	730.9	740.3	715.1	743.4	569.2		7,409.1
4. Reserve Shutdown Hours	RSH	0.0	0.0	0.0	66.5	0.0	0.0	1.0	0.0	0.0	0.0	0.0		67.5
5. Unavailable Hours	UH	1.7	29.0	2.2	257.5	0.0	76.9	12.1	3.7	4.9	0.6	150.8		539.4
6. Planned Outage Hours	POH	0.0	0.0	0.0	245.0	0.0	0.0	0.0	0.0	0.0	0.0	120.7		365.7
7. Forced Outage Hours	FOH	1.7	29.0	2.2	10.1	0.0	76.9	2.5	0.1	0.3	0.6	16.6		140.0
8. Maintenance Outage Hours	MOH	0.0	0.0	0.0	2.4	0.0	0.0	9.6	3.6	4.7	0.0	13.5		33.8
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	5.0	8.4	5.8	0.0	18.3	237.6	7.6	0.0	0.0	1.7	51.0		335.4
10b. Load Reduction Partial Forced (MW)	LRPF	34.0	298.6	97.0	0.0	138.0	125.2	124.9	0.0	0.0	124.5	125.0		128.4
11a. Partial Maintenance Outage Hours	PMOH	32.3	0.0	0.0	0.0	0.0	0.0	29.7	0.0	0.0	0.0	135.7		197.7
11b. Load Reduction Partial Maintenance (MW)	LRPM	300.0	0.0	0.0	0.0	0.0	0.0	125.0	0.0	0.0	0.0	132.5		158.7
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	4,703.9	2,665.0	3,704.2	1,627.1	3,689.5	3,213.4	4,270.8	4,669.9	4,373.8	4,680.8	2,949.5		40,547.9
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	673,696.0	658,273.7	676,742.0	418,353.0		5,788,713.8
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	6,932.0	6,912.0	6,917.0	7,050.0		7,004.6
16. Net Output Factor (%)	NOF	76.6	49.0	59.1	50.6	65.5	58.9	75.1	85.3	86.3	85.7	66.0		71.1
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												

Tampa Electric Company
Outage Listing
November 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)	154	Planned Outage	11/1/2019	0:00:00	11/9/2019	11:44:00	203.73	3999	Other miscellaneous balance of plant problems	Fall Planned Outage	N/A	156
BS CT1(A)	155	Reserve Shutdown	11/9/2019	11:44:00	11/10/2019	6:29:00	18.75	N/A	N/A	Reserve Shutdown	N/A	156
BS CT1(A)	156	Reserve Shutdown	11/11/2019	23:13:00	11/12/2019	5:49:00	6.6	N/A	N/A	Reserve Shutdown	N/A	156
BS CT1(A)	157	Reserve Shutdown	11/12/2019	22:37:00	11/13/2019	8:03:00	9.43	N/A	N/A	Reserve Shutdown	N/A	156
BS CT1(A)	158	Reserve Shutdown	11/14/2019	22:35:00	11/19/2019	4:31:00	101.93	N/A	N/A	Reserve Shutdown	N/A	156
BS CT1(A)	159	Reserve Shutdown	11/22/2019	8:54:00	11/24/2019	7:52:00	46.97	N/A	N/A	Reserve Shutdown	N/A	156
BS CT1(A)	160	Reserve Shutdown	11/25/2019	23:31:00	11/29/2019	14:53:00	87.37	N/A	N/A	Reserve Shutdown	N/A	156
BS CT1(A)	161	Reserve Shutdown	11/30/2019	21:59:00	11/30/2019	23:59:59	2.02	N/A	N/A	Reserve Shutdown	N/A	156

Tampa Electric Company
Outage Listing
November 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)	98	Planned Outage	11/1/2019	0:00:00	11/9/2019	11:44:00	203.73	3999	Other miscellaneous balar	Fall Planned Outage	N/A	156
BS CT1(B)	99	Reserve Shutdown	11/9/2019	11:44:00	11/10/2019	6:00:00	18.27	N/A	N/A	Reserve Shutdown	N/A	156
BS CT1(B)	100	Startup Failure	11/10/2019	6:00:00	11/12/2019	11:17:00	53.28	5250	Controls and instrumentat	Mark VI control board failed. This resulted in the IGVs not	N/A	156
BS CT1(B)	101	Reserve Shutdown	11/13/2019	0:07:00	11/13/2019	7:03:00	6.93	N/A	N/A	Reserve Shutdown	N/A	156
BS CT1(B)	102	Reserve Shutdown	11/13/2019	21:11:00	11/15/2019	5:38:00	32.45	N/A	N/A	Reserve Shutdown	N/A	156
BS CT1(B)	103	Reserve Shutdown	11/15/2019	22:51:00	11/18/2019	5:19:00	54.47	N/A	N/A	Reserve Shutdown	N/A	156
BS CT1(B)	104	Reserve Shutdown	11/22/2019	11:10:00	11/24/2019	2:59:00	39.82	N/A	N/A	Reserve Shutdown	N/A	156
BS CT1(B)	105	Reserve Shutdown	11/25/2019	22:16:00	11/27/2019	14:58:00	40.7	N/A	N/A	Reserve Shutdown	N/A	156
BS CT1(B)	106	Reserve Shutdown	11/29/2019	21:29:00	11/30/2019	16:02:00	18.55	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 CT1(C)	111	Planned Outage	11/1/2019	0:00:00	11/9/2019	11:44:00	203.73	3999	Other miscellaneous balance of plant probl	Planned Fall Outage.	N/A	156
BS CT1(C)	112	Reserve Shutdown	11/9/2019	11:44:00	11/9/2019	13:52:00	2.13	N/A	N/A	Reserve Shutdown	N/A	156
BS CT1(C)	113	Reserve Shutdown	11/10/2019	7:36:00	11/11/2019	5:44:00	22.13	N/A	N/A	Reserve Shutdown	N/A	156
BS CT1(C)	114	Reserve Shutdown	11/13/2019	9:17:00	11/14/2019	4:59:00	19.7	N/A	N/A	Reserve Shutdown	N/A	156
BS CT1(C)	115	Reserve Shutdown	11/18/2019	8:36:00	11/19/2019	19:53:00	35.28	N/A	N/A	Reserve Shutdown	N/A	156
BS CT1(C)	116	Reserve Shutdown	11/22/2019	19:15:00	11/23/2019	23:00:00	27.75	N/A	N/A	Reserve Shutdown	N/A	156
BS CT1(C)	117	Reserve Shutdown	11/24/2019	22:47:00	11/25/2019	18:24:00	19.62	N/A	N/A	Reserve Shutdown	N/A	156
BS CT1(C)	118	Reserve Shutdown	11/27/2019	21:33:00	11/30/2019	23:59:59	74.45	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	34	Planned Outage	11/1/2019	0:00:00	11/9/2019	11:44:00	203.73	3999	Other miscellaneous balance of plant problems	Planned Fall Outage.	N/A	233
BS ST 1	35	Reserve Shutdown	11/9/2019	11:44:00	11/9/2019	21:08:00	9.4	N/A	N/A	Reserve Shutdown	N/A	233
BS ST 1	36	Unplanned (Forced) Outage - Immediate	11/9/2019	22:09:00	11/10/2019	2:05:00	3.93	4700	Generator voltage control	When adjusting VARs in Automatic, the voltage regulator failed and cau	N/A	233
BS ST 1	37	Unplanned (Forced) Outage - Immediate	11/10/2019	5:25:00	11/10/2019	8:03:00	2.63	4700	Generator voltage control	Steam turbine tripped due to MVAR adjustment. Voltage regulator com	N/A	233
BS ST 1	38	Unplanned (Forced) Derating - Immediate	11/10/2019	8:03:00	11/12/2019	10:43:00	50.67	3999	Other miscellaneous balance of plant problems	ST1 was derated - 1B IGV issues	154	233
BS ST 1	39	Maintenance Outage	11/22/2019	16:24:00	11/24/2019	0:53:00	32.48	4700	Generator voltage control	Voltage Regulator Communication Board - Failed	N/A	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)	224	Reserve Shutdown	11/1/2019	0:00:00	11/1/2019	10:10:00	10.17	N\A	N\A		N\A	156
BS CT2(A)	225	Reserve Shutdown	11/1/2019	21:51:00	11/2/2019	10:06:00	12.25	N\A	N\A	Reserve Shutdown	N\A	156
BS CT2(A)	226	Reserve Shutdown	11/2/2019	22:10:00	11/3/2019	11:47:00	13.62	N\A	N\A	Reserve Shutdown	N\A	156
BS CT2(A)	227	Reserve Shutdown	11/4/2019	1:46:00	11/4/2019	11:34:00	9.8	N\A	N\A	Reserve Shutdown	N\A	156
BS CT2(A)	228	Reserve Shutdown	11/5/2019	0:21:00	11/5/2019	8:21:00	8	N\A	N\A	Reserve Shutdown	N\A	156
BS CT2(A)	229	Reserve Shutdown	11/8/2019	22:49:00	11/9/2019	8:16:00	9.45	N\A	N\A	Reserve Shutdown	N\A	156
BS CT2(A)	230	Reserve Shutdown	11/10/2019	22:27:00	11/11/2019	10:06:00	11.65	N\A	N\A	Reserve Shutdown	N\A	156
BS CT2(A)	231	Reserve Shutdown	11/13/2019	22:29:00	11/14/2019	11:05:00	12.6	N\A	N\A	Reserve Shutdown	N\A	156
BS CT2(A)	232	Reserve Shutdown	11/15/2019	20:56:00	11/16/2019	8:45:00	11.82	N\A	N\A	Reserve Shutdown	N\A	156
BS CT2(A)	233	Reserve Shutdown	11/16/2019	23:06:00	11/17/2019	9:17:00	10.18	N\A	N\A	Reserve Shutdown	N\A	156
BS CT2(A)	234	Reserve Shutdown	11/26/2019	20:54:00	11/28/2019	9:42:00	36.8	N\A	N\A	Reserve Shutdown	N\A	156
BS CT2(A)	235	Reserve Shutdown	11/28/2019	19:15:00	11/30/2019	13:53:00	42.63	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)	198	Reserve Shutdown	11/1/2019	23:34:00	11/2/2019	13:05:00	13:52	N/A	N/A	Reserve Shutdown	N/A	156
BS CT2(B)	199	Reserve Shutdown	11/2/2019	20:33:00	11/3/2019	13:58:00	17:42	N/A	N/A	Reserve Shutdown	N/A	156
BS CT2(B)	200	Reserve Shutdown	11/3/2019	23:33:00	11/4/2019	6:53:00	7:33	N/A	N/A	Reserve Shutdown	N/A	156
BS CT2(B)	201	Reserve Shutdown	11/4/2019	22:01:00	11/5/2019	5:55:00	7:9	N/A	N/A	Reserve Shutdown	N/A	156
BS CT2(B)	202	Reserve Shutdown	11/5/2019	23:45:00	11/6/2019	6:57:00	7:2	N/A	N/A	Reserve Shutdown	N/A	156
BS CT2(B)	203	Reserve Shutdown	11/6/2019	23:56:00	11/7/2019	6:58:00	7:03	N/A	N/A	Reserve Shutdown	N/A	156
BS CT2(B)	204	Reserve Shutdown	11/10/2019	4:02:00	11/10/2019	11:08:00	7:1	N/A	N/A	Reserve Shutdown	N/A	156
BS CT2(B)	205	Reserve Shutdown	11/11/2019	22:10:00	11/12/2019	13:19:00	15:15	N/A	N/A	Reserve Shutdown	N/A	156
BS CT2(B)	206	Reserve Shutdown	11/12/2019	21:33:00	11/13/2019	5:24:00	7:85	N/A	N/A	Reserve Shutdown	N/A	156
BS CT2(B)	207	Reserve Shutdown	11/14/2019	23:57:00	11/15/2019	7:13:00	7:27	N/A	N/A	Reserve Shutdown	N/A	156
BS CT2(B)	208	Reserve Shutdown	11/17/2019	23:11:00	11/18/2019	6:08:00	6:95	N/A	N/A	Reserve Shutdown	N/A	156
BS CT2(B)	209	Reserve Shutdown	11/18/2019	22:48:00	11/19/2019	17:34:00	18:77	N/A	N/A	Reserve Shutdown	N/A	156
BS CT2(B)	210	Reserve Shutdown	11/25/2019	1:14:00	11/25/2019	16:52:00	15:63	N/A	N/A	Reserve Shutdown	N/A	156
BS CT2(B)	211	Reserve Shutdown	11/30/2019	19:19:00	11/30/2019	23:59:59	4:68	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(C)	18	Reserve Shutdown	11/8/2019	23:59:00	11/10/2019	3:43:00	27.73	N\A	N\A	Reserve Shutdown	N\A	156
BS CT2(C)	19	Planned Outage	11/10/2019	3:43:00	11/26/2019	0:00:00	380.28	859	Tube external fins/membranes	Replacement of HP evaporator Harps.	N\A	156
BS CT2(C)	20	Reserve Shutdown	11/26/2019	0:00:00	11/30/2019	23:59:59	120	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(D)	27	Reserve Shutdown	11/10/2019	0:51:00	11/10/2019	13:25:00	12.57	N\A	N\A	Reserve Shutdown	N\A	156
BS CT2(D)	28	Reserve Shutdown	11/10/2019	23:57:00	11/11/2019	11:12:00	11.25	N\A	N\A	Reserve Shutdown	N\A	156
BS CT2(D)	29	Planned Outage	11/11/2019	11:12:00	11/26/2019	0:00:00	348.8	859	Tube external fins/membranes	HP Evaporator Harps replacement.	N\A	156
BS CT2(D)	30	Reserve Shutdown	11/26/2019	0:00:00	11/30/2019	23:59:59	120	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 2	30	Maintenance Derating	11/10/2019	3:43:00	11/11/2019	11:12:00	31.48	3999	Other miscellaneous balance of plant problems	ST2 Derated- 1C Harp replacement outage	228	305
BS ST 2	31	Maintenance Derating	11/11/2019	11:12:00	11/30/2019	23:59:59	468.8	3999	Other miscellaneous balance of plant problems	ST2 Derated- 2C and 2D Harp Replacements.	151	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	43	Maintenance Outage	11/1/2019	22:46:00	11/4/2019	8:30:00	57.73	5250	Controls and instrumentation	CT1 was shut down for HRSG1 suspected leaks. No leak was found. Exhaust thermocouple	N/A	150
Polk 1	44	Unplanned (Forced) Derating - Immediate	11/9/2019	3:38:00	11/30/2019	23:59:59	524.37	5190	Other auxiliary system problems	Unit was in temperature control but started to exceed NOx limits due to steam injectic	145	150
Polk 1	45	Reserve Shutdown	11/15/2019	5:32:00	11/20/2019	22:00:00	136.47	N/A	N/A	Reserve Shutdown	N/A	150
Polk 1	46	Maintenance Outage	11/20/2019	22:00:00	11/21/2019	22:00:00	24	3899	Other miscellaneous auxiliary system problems	Replacing a valve at the natural gas regulator station. No natural gas to the station	N/A	150
Polk 1	47	Reserve Shutdown	11/21/2019	22:00:00	11/22/2019	7:03:00	9.05	N/A	N/A		N/A	150
Polk 1	48	Reserve Shutdown	11/25/2019	9:22:00	11/30/2019	23:59:59	134.63	N/A	N/A		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	42	Maintenance Outage	11/1/2019	22:33:00	11/4/2019	10:35:00	60.03	3999	Other miscellaneous balance o	CT1 was shut down for HRSG1 suspected leaks. No leak was found. Exhaust thermocouple	N/A	85
Polk 1 ST	43	Unplanned (Forced) Derating - Immediate	11/9/2019	3:38:00	11/15/2019	5:32:00	145.9	3999	Other miscellaneous balance o	Unit (CT) was in temperature control but started to exceed NOx limits due to steam inj	83	85
Polk 1 ST	44	Reserve Shutdown	11/15/2019	5:20:00	11/20/2019	22:00:00	136.67	N/A	N/A	Reserve Shutdown	N/A	85
Polk 1 ST	45	Maintenance Outage	11/20/2019	22:00:00	11/21/2019	22:00:00	24	3999	Other miscellaneous balance o	Replacing a valve at the natural gas regulator station. No natural gas to the station	N/A	85
Polk 1 ST	46	Reserve Shutdown	11/21/2019	22:00:00	11/22/2019	9:18:00	11.3	N/A	N/A	Reserve Shutdown	N/A	85
Polk 1 ST	47	Reserve Shutdown	11/25/2019	9:09:00	11/30/2019	23:59:59	134.85	N/A	N/A		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	143	Reserve Shutdown	11/3/2019	2:00:00	11/3/2019	9:44:00	7.73	N/A	N/A	Reserve Shutdown	N/A	150
Polk 2	144	Maintenance Outage	11/3/2019	19:34:00	11/4/2019	10:41:00	15.12	3950	Process computer	DCS Loop termination failure on DCS at S0 PCU3 and S2. This required replacement prio	N/A	150
Polk 2	145	Unplanned (Forced) Outage - Immediate	11/7/2019	7:45:00	11/11/2019	7:00:00	95.25	3621	Unit auxiliaries transformer	Unit tripped on A 2005 13.8 kV main feeder beaker opening on low diff voltage. PT was	N/A	150
Polk 2	146	Planned Outage	11/11/2019	7:00:00	11/17/2019	8:19:00	145.32	5272	Borescope inspection	Enhanced borescope inspection and water wash outage	N/A	150
Polk 2	147	Startup Failure	11/17/2019	8:19:00	11/17/2019	17:00:00	8.68	5261	Gas turbine cleaning	CT2 Failed to start due to leaking water wash drain valve.	N/A	150
Polk 2	148	Reserve Shutdown	11/17/2019	17:00:00	11/18/2019	6:25:00	13.42	N/A	N/A	Reserve Shutdown	N/A	150
Polk 2	149	Reserve Shutdown	11/19/2019	22:48:00	11/20/2019	16:33:00	17.75	N/A	N/A	Reserve Shutdown	N/A	150
Polk 2	150	Maintenance Outage	11/20/2019	22:49:00	11/21/2019	22:00:00	23.18	3899	Other miscellaneous auxiliary s	Replacing a valve at the natural gas regulator station. No natural gas to the station	N/A	150
Polk 2	151	Reserve Shutdown	11/21/2019	22:00:00	11/25/2019	3:53:00	77.88	N/A	N/A	Reserve Shutdown	N/A	150
Polk 2	152	Reserve Shutdown	11/26/2019	1:10:00	11/26/2019	7:55:00	6.75	N/A	N/A	Reserve Shutdown	N/A	150
Polk 2	153	Reserve Shutdown	11/28/2019	22:20:00	11/29/2019	8:00:00	9.67	N/A	N/A	Reserve Shutdown	N/A	150
Polk 2	154	Reserve Shutdown	11/30/2019	23:54:00	11/30/2019	23:59:59	0.1	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	95	Maintenance Outage	11/3/2019	20:46:00	11/4/2019	6:02:00	9.27	3950	Process computer	DCS Loop termination failure on DCS at S0 PCU3 and S2. This required replacement prio	N/A	150
Polk 3	96	Planned Outage	11/4/2019	23:03:00	11/11/2019	10:35:00	155.53	5272	Borescope inspection	Unit went into its planned outage for EBI and water wash.	N/A	150
Polk 3	97	Reserve Shutdown	11/19/2019	1:08:00	11/19/2019	15:41:00	14.55	N/A	N/A	Reserve Shutdown	N/A	150
Polk 3	98	Reserve Shutdown	11/20/2019	9:01:00	11/20/2019	22:00:00	12.98	N/A	N/A	Reserve Shutdown	N/A	150
Polk 3	99	Maintenance Outage	11/20/2019	22:00:00	11/21/2019	22:00:00	24	3899	Other miscellaneous auxiliary s	Replacing a valve at the natural gas regulator station. No natural gas to the station	N/A	150
Polk 3	100	Reserve Shutdown	11/21/2019	22:00:00	11/22/2019	10:05:00	12.08	N/A	N/A	Reserve Shutdown	N/A	150
Polk 3	101	Reserve Shutdown	11/22/2019	22:25:00	11/23/2019	10:25:00	12	N/A	N/A		N/A	150
Polk 3	102	Reserve Shutdown	11/23/2019	19:34:00	11/24/2019	18:36:00	23.03	N/A	N/A	Reserve Shutdown	N/A	150
Polk 3	103	Reserve Shutdown	11/26/2019	23:00:00	11/27/2019	5:38:00	6.63	N/A	N/A	Reserve Shutdown	N/A	150
Polk 3	104	Reserve Shutdown	11/29/2019	22:19:00	11/30/2019	6:40:00	8.35	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 4	145	Reserve Shutdown	11/2/2019	1:55:00	11/2/2019	8:27:00	6:53	N/A	N/A	Reserve Shutdown	N/A	150
Polk 4	146	Reserve Shutdown	11/12/2019	0:48:00	11/12/2019	7:14:00	6:43	N/A	N/A	Reserve Shutdown	N/A	150
Polk 4	147	Reserve Shutdown	11/13/2019	2:52:00	11/13/2019	15:00:00	12:13	N/A	N/A	Reserve Shutdown	N/A	150
Polk 4	148	Planned Outage	11/18/2019	21:25:00	11/26/2019	2:50:00	173:42	5272	Borescope inspection	EBI and water wash outage	N/A	150
Polk 4	149	Unplanned (Forced) Outage - Immediate	11/29/2019	0:41:00	11/29/2019	14:01:00	13:33	5160	Cooling and seal air system	Unit experienced a COMPRESSOR BLEED VALVE TROUBLE TRIP while starting up on gas fuel	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	80	Reserve Shutdown	11/2/2019	23:37:00	11/3/2019	6:08:00	6:52	N/A	N/A	Reserve Shutdown	N/A	150
Polk 5	81	Reserve Shutdown	11/13/2019	23:59:00	11/14/2019	8:33:00	8:57	N/A	N/A	Reserve Shutdown	N/A	150
Polk 5	82	Reserve Shutdown	11/19/2019	22:02:00	11/20/2019	6:24:00	8:37	N/A	N/A	Reserve Shutdown	N/A	150
Polk 5	83	Reserve Shutdown	11/20/2019	21:33:00	11/20/2019	22:00:00	0:45	N/A	N/A	Reserve Shutdown	N/A	150
Polk 5	84	Maintenance Outage	11/20/2019	22:00:00	11/21/2019	22:00:00	24	3899	Other miscellaneous auxiliary syste	Replacing a valve at the natural gas regulator station. No natural gas to the station	N/A	150
Polk 5	85	Reserve Shutdown	11/21/2019	22:00:00	11/23/2019	12:40:00	38:67	N/A	N/A	Reserve shutdown	N/A	150
Polk 5	86	Reserve Shutdown	11/24/2019	2:42:00	11/25/2019	7:53:00	29:18	N/A	N/A	Reserve Shutdown	N/A	150
Polk 5	87	Reserve Shutdown	11/27/2019	23:41:00	11/28/2019	8:47:00	9:1	N/A	N/A	Reserve Shutdown	N/A	150
Polk 5	88	Reserve Shutdown	11/29/2019	23:08:00	11/30/2019	10:33:00	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 2 ST	18	Maintenance Derating	11/3/2019	19:35:00	11/4/2019	10:40:00	15.08	3999	Other miscellaneous balance of plant problems	DCS Loop termination failure on DCS at S0 PCU3 and S2. This required replacement prio	336	461
Polk 2 ST	19	Maintenance Derating	11/3/2019	20:47:00	11/4/2019	6:02:00	9.25	3999	Other miscellaneous balance of plant problems	DCS Loop termination failure on DCS at S0 PCU3 and S2. This required replacement prio	336	461
Polk 2 ST	20	Maintenance Derating	11/4/2019	23:03:00	11/11/2019	10:34:00	155.52	3999	Other miscellaneous balance of plant problems	CT3 Unit went into its planned outage for EBI and water wash.	336	461
Polk 2 ST	21	Unplanned (Forced) Derating - Immediate	11/7/2019	7:45:00	11/11/2019	7:00:00	95.25	3999	Other miscellaneous balance of plant problems	CT2 Unit tripped on A 2005 13.8 kV main feeder beaker opening on low diff voltage. PT	336	461
Polk 2 ST	22	Maintenance Derating	11/11/2019	7:00:00	11/11/2019	10:34:00	3.57	3999	Other miscellaneous balance of plant problems	Enhanced borescope inspection and water wash outage	211	461
Polk 2 ST	23	Maintenance Derating	11/11/2019	10:34:00	11/17/2019	8:19:00	141.75	3999	Other miscellaneous balance of plant problems	Enhanced borescope inspection and water wash outage	334	461
Polk 2 ST	24	Unplanned (Forced) Derating - Immediate	11/17/2019	8:19:00	11/17/2019	17:00:00	8.68	3999	Other miscellaneous balance of plant problems	Failed to start due to leaking water wash drain valve.	336	461
Polk 2 ST	25	Planned Outage	11/19/2019	21:04:00	11/25/2019	0:33:00	123.48	4299	Other hydraulic system problems	ST2 went into its planned outage. During the outage, the ammonia tank farm hydraulic	N/A	461
Polk 2 ST	26	Unplanned (Forced) Derating - Immediate	11/29/2019	0:41:00	11/29/2019	14:01:00	13.33	3999	Other miscellaneous balance of plant problems	CT4. Unit experienced a COMPRESSOR BLEED VALVE TROUBLE TRIP while starting up on g	336	461