



Matthew R. Bernier
ASSOCIATE GENERAL COUNSEL

December 31, 2019

VIA ELECTRONIC FILING

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

Re: *Performance Data Report for November 2019*
Docket No. 20190001-EI

Dear Mr. Teitzman:

Attached for electronic filing in the above-referenced Docket is Duke Energy Florida, LLC's Performance Data Report for November 2019.

Thank you for your assistance in this matter. Please feel free to call me at (850) 521-1428 should you have any questions concerning this filing.

Sincerely,

/s/ Matthew R. Bernier

Matthew R. Bernier

MRB/cm
Attachment

cc: Director, Division of Engineering, FPSC

CERTIFICATE OF SERVICE

Docket No. 20190001-EI

I HEREBY CERTIFY that a true copy of the above-mentioned document has been furnished to the following individuals via e-mail on this 31st day of December, 2019.

/s/ Matthew R. Bernier

Attorney

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Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2019

Bartow CC	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan - Nov Period
1. EAF	98.52	97.86	62.26	85.22	96.58	99.14	99.54	99.71	96.37	38.49	33.06		82.34
2. PH	744	672	743	720	744	720	744	744	720	744	721		8,016
3. SH	603.9	593.9	485.5	612.3	712.0	695.1	737.1	740.6	670.4	278.8	189.6		6,319.2
4. RSH	129.0	65.0	8.7	1.3	12.3	20.2	4.2	1.8	23.8	7.6	48.8		322.8
5. UH	11.0	13.1	248.8	106.4	19.7	4.7	2.7	1.7	25.8	457.6	482.6		1,374.0
6. POH	0.0	0.0	133.5	70.6	0.0	0.0	0.0	0.0	24.6	457.6	482.5		1,168.8
7. FOH	8.5	13.1	0.0	14.1	9.2	4.7	1.2	0.7	1.2	0.0	0.1		52.7
8. MOH	2.5	0.0	115.4	21.7	10.6	0.0	1.5	0.9	0.0	0.0	0.0		152.5
9. 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
10. LR PP (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
11. PFOH	0.0	21.6	0.0	0.0	15.4	24.8	1.9	1.2	1.8	0.0	0.0		66.7
12. LR PF (MW)	0.0	67.0	0.0	0.0	187.0	67.0	186.8	187.1	187.6	0.0	0.0		103.5
13. PMOH	0.0	0.0	182.7	0.0	17.8	0.0	2.3	1.5	0.0	0.0	0.0		204.4
14. LR PM (MW)	0.0	0.0	187.0	0.0	187.0	0.0	187.2	187.3	0.0	0.0	0.0		187.0
15. NSC (MW)	1080	1080	1080	1080	1080	1080	1080	1080	1080	1080	1080		1080
16. OPER MBTU	3,968,623	3,524,794	2,757,930	3,820,788	4,860,440	4,828,905	5,080,089	5,207,503	4,725,783	2,525,854	1,724,141		43,024,851
17. NET GEN (MWH)	519,987	458,412	365,538	483,493	640,960	630,820	650,624	679,421	601,650	227,544	155,682		5,414,131
18. ANOHR (BTU/KWH)	7,632.2	7,689.1	7,544.9	7,902.5	7,583.1	7,655.0	7,808.0	7,664.6	7,854.7	11,100.5	11,074.8		7,946.8
19. NOF (%)	79.72	71.47	69.72	73.11	83.36	84.03	81.73	84.95	83.10	75.57	76.04		79.33
20. NPC (MW)	1080	1080	1080	1080	1080	1080	1080	1080	1080	1080	1080		1080

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2019

CRYSTAL RIVER 4	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan - Nov Period
1. EAF	95.90	98.58	99.85	99.10	99.94	98.66	98.20	57.66	71.51	81.08	95.20		90.44
2. PH	744	672	743	720	744	720	744	744	720	744	721		8,016
3. SH	249.0	85.3	743.0	720.0	744.0	720.0	742.2	263.4	545.9	606.4	627.6		6,046.6
4. RSH	465.5	582.4	0.0	0.0	0.0	0.0	0.0	169.8	79.1	0.0	69.4		1,366.2
5. UH	29.6	4.2	0.0	0.0	0.0	0.0	1.9	310.8	95.1	137.6	24.0		603.2
6. POH	0.0	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.0		28.2
7. FOH	29.6	0.0	0.0	0.0	0.0	0.0	0.0	310.8	95.1	137.6	0.0		573.1
8. MOH	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0		1.9
9. PPOH	0.0	6.7	8.5	39.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0		54.7
10. LR PP (MW)	0.0	93.0	93.0	108.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0		104.1
11. PFOH	2.2	2.9	0.0	1.7	0.0	70.0	71.5	17.6	525.6	9.7	33.8		735.0
12. LR PF (MW)	284.4	93.0	0.0	188.0	0.0	98.2	115.2	171.0	149.1	231.9	223.3		146.3
13. PMOH	0.0	31.0	0.0	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0		34.3
14. LR PM (MW)	0.0	93.0	0.0	0.0	93.1	0.0	0.0	0.0	0.0	0.0	0.0		93.0
15. NSC (MW)	712	712	712	712	712	712	712	712	712	712	712		712
16. OPER MBTU	917,440	391,844	3,216,166	3,273,475	3,558,000	3,435,077	3,020,101	1,170,419	1,954,665	2,891,216	3,214,753		27,043,156
17. NET GEN (MWH)	82,152	31,051	323,578	318,328	344,212	326,986	288,033	104,856	181,143	294,269	326,021		2,620,629
18. ANOHR (BTU/KWH)	11,167.6	12,619.4	9,939.4	10,283.3	10,336.7	10,505.3	10,485.3	11,162.2	10,790.7	9,825.1	9,860.6		10,319.3
19. NOF (%)	46.35	51.11	61.17	62.10	64.98	63.78	54.51	55.92	46.61	68.16	72.96		60.87
20. NPC (MW)	712	712	712	712	712	712	712	712	712	712	712		712

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2019

CRYSTAL RIVER 5	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan - Nov Period
1. EAF	99.93	78.57	0.00	0.00	0.05	55.88	77.95	92.04	96.29	99.37	75.45		61.32
2. PH	744	672	743	720	744	720	744	744	720	744	721		8,016
3. SH	547.7	0.0	0.0	0.0	0.4	450.0	598.3	551.6	711.6	744.0	527.6		4,131.1
4. RSH	196.3	528.0	0.0	0.0	0.0	0.0	22.1	192.4	8.4	0.0	25.9		973.1
5. UH	0.0	144.0	743.0	720.0	743.6	270.0	123.7	0.0	0.0	0.0	167.6		2,911.8
6. POH	0.0	144.0	743.0	720.0	311.0	3.3	0.0	0.0	0.0	0.0	24.0		1,945.3
7. FOH	0.0	0.0	0.0	0.0	432.6	266.7	0.0	0.0	0.0	0.0	143.6		842.8
8. MOH	0.0	0.0	0.0	0.0	0.0	0.0	123.7	0.0	0.0	0.0	0.0		123.7
9. PPOH	0.0	0.0	0.0	0.0	0.0	0.0	4.9	4.5	0.0	0.0	32.5		41.9
10. LR PP (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.0	0.0	0.0	92.8		75.1
11. PFOH	1.0	0.0	0.0	0.0	0.0	582.0	402.5	435.0	67.7	8.0	40.5		1,536.7
12. LR PF (MW)	377.0	0.0	0.0	0.0	0.0	58.2	71.2	96.3	280.4	282.0	91.0		84.4
13. PMOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	0.0		9.0
14. LR PM (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	120.0	0.0		120.0
15. NSC (MW)	710	710	710	710	710	710	710	710	710	710	710		710
16. OPER MBTU	2,006,569	0	0	0	13,291	1,663,716	2,298,627	2,289,894	2,963,269	3,539,459	2,519,396		17,294,221
17. NET GEN (MWH)	185,022	0	0	0	0	148,500	226,349	214,475	293,804	365,817	267,021		1,700,988
18. ANOHR (BTU/KWH)	10,845.0	0.0	0.0	0.0	0.0	11,203.5	10,155.2	10,676.7	10,085.9	9,675.5	9,435.2		10,167.2
19. NOF (%)	47.58	0.00	0.00	0.00	0.00	46.48	53.29	54.77	58.15	69.25	71.29		57.99
20. NPC (MW)	710	710	710	710	710	710	710	710	710	710	710		710

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2019

HINES Power Block 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	Jan - Nov Period
1. EAF	47.59	89.85	98.58	39.42	76.09	95.57	98.31	99.88	99.22	100.00	99.91		85.85
2. PH	744	672	743	720	744	720	744	744	720	744	721		8,016
3. SH	356.2	588.3	669.0	260.0	562.9	555.8	705.6	744.0	676.3	726.6	721.0		6,565.6
4. RSH	25.7	17.4	66.4	28.5	5.0	138.1	25.8	0.0	38.8	17.4	0.0		363.1
5. UH	362.1	66.2	7.6	431.5	176.1	26.1	12.6	0.0	4.9	0.0	0.0		1,087.3
6. POH	0.0	0.0	0.0	391.9	158.6	0.0	0.0	0.0	0.0	0.0	0.0		550.6
7. FOH	6.7	0.0	7.6	39.6	5.8	26.1	12.6	0.0	4.9	0.0	0.0		103.4
8. MOH	355.4	66.2	0.0	0.0	11.8	0.0	0.0	0.0	0.0	0.0	0.0		433.3
9. PPOH	0.0	0.0	12.1	0.0	11.3	0.0	0.0	6.2	5.3	0.0	0.0		34.9
10. LR PP (MW)	0.0	0.0	68.1	0.0	50.3	0.0	0.0	68.1	63.7	0.0	0.0		61.7
11. PFOH	166.5	12.0	7.3	26.3	5.4	69.3	12.3	0.0	0.0	0.0	4.0		303.1
12. LR PF (MW)	82.0	82.0	85.1	78.4	51.3	41.0	0.0	0.0	0.0	0.0	74.5		68.4
13. PMOH	0.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0		2.7
14. LR PM (MW)	0.0	0.0	0.0	78.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0		78.1
15. NSC (MW)	490	490	490	490	490	490	490	490	490	490	490		490
16. OPER MBTU	872,136	1,738,925	1,939,335	666,151	1,699,555	1,636,821	2,139,685	2,310,949	2,006,923	2,318,967	2,438,084		19,767,531
17. NET GEN (MWH)	114,118	234,944	260,779	88,049	226,948	220,581	284,517	314,211	269,663	315,031	336,111		2,664,952
18. ANOHR (BTU/KWH)	7,642.4	7,401.4	7,436.7	7,565.7	7,488.7	7,420.5	7,520.4	7,354.8	7,442.3	7,361.1	7,253.8		7,417.6
19. NOF (%)	65.39	81.50	79.55	69.13	82.29	80.99	82.29	86.19	81.38	88.48	95.14		82.84
20. NPC (MW)	490	490	490	490	490	490	490	490	490	490	490		490

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2019

HINES Power Block 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	Jan - Nov Period
1. EAF	99.35	99.93	99.06	100.00	99.98	99.86	99.90	99.83	99.41	99.46	100.00		99.70
2. PH	744	672	743	720	744	720	744	744	720	744	721		8,016
3. SH	522.1	594.2	262.4	703.8	741.6	693.4	743.0	738.0	651.3	669.5	721.0		7,040.3
4. RSH	217.0	77.8	142.3	16.2	2.4	26.6	1.0	6.0	64.4	71.4	0.0		625.3
5. UH	4.8	0.0	7.0	0.0	0.0	0.0	0.0	0.0	4.3	3.1	0.0		19.2
6. POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
7. FOH	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	3.1	0.0		11.5
8. MOH	0.0	0.0	7.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0		7.7
9. PPOH	0.0	4.5	0.0	0.0	1.5	4.0	6.3	10.3	0.0	8.0	0.0		34.6
10. LR PP (MW)	0.0	51.1	0.0	0.0	56.4	126.0	59.5	62.2	0.0	60.8	0.0		67.1
11. PFOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
12. LR PF (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
13. 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
14. LR PM (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
15. NSC (MW)	512	512	512	512	512	512	512	512	512	512	512		512
16. OPER MBTU	1,575,600	1,841,414	767,331	2,404,824	2,515,630	2,265,725	2,430,450	2,416,542	2,033,709	2,288,147	2,548,196		23,087,566
17. NET GEN (MWH)	216,465	250,392	94,594	326,935	338,507	305,167	325,431	323,493	271,218	308,402	345,625		3,106,229
18. ANOHR (BTU/KWH)	7,278.8	7,354.1	8,111.8	7,355.7	7,431.5	7,424.5	7,468.4	7,470.2	7,498.4	7,419.4	7,372.7		7,432.7
19. NOF (%)	80.97	82.31	70.40	90.73	89.15	85.96	85.55	85.61	81.33	89.97	93.63		86.17
20. NPC (MW)	512	512	512	512	512	512	512	512	512	512	512		512

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2019

HINES Power Block 3	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan - Nov Period
1. EAF	99.51	100.00	99.99	95.45	99.92	99.20	99.54	99.07	97.60	100.00	98.77		99.01
2. PH	744	672	743	720	744	720	744	744	720	744	721		8,016
3. SH	700.1	638.3	343.6	606.6	744.0	604.2	726.7	702.2	640.5	190.9	658.5		6,555.6
4. RSH	40.7	33.7	399.4	86.5	0.0	112.4	13.9	34.8	63.4	0.0	55.0		839.7
5. UH	3.2	0.0	0.0	26.9	0.0	3.4	3.4	7.0	16.1	0.0	7.6		67.6
6. POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
7. FOH	3.2	0.0	0.0	23.9	0.0	3.4	3.4	0.0	16.1	0.0	7.6		57.7
8. MOH	0.0	0.0	0.0	3.0	0.0	0.0	0.0	7.0	0.0	0.0	0.0		10.0
9. PPOH	0.0	0.0	1.0	18.8	5.8	8.0	0.0	0.0	8.0	0.0	0.0		41.7
10. LR PP (MW)	0.0	0.0	52.2	54.8	55.0	127.3	0.0	0.0	40.2	0.0	0.0		65.9
11. PFOH	3.3	0.0	0.0	24.5	0.0	3.7	0.0	0.0	3.2	0.0	7.8		42.4
12. LR PF (MW)	75.3	0.0	0.0	80.4	0.0	49.6	0.0	0.0	83.3	0.0	87.3		78.8
13. 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
14. LR PM (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
15. NSC (MW)	516	516	516	516	516	516	516	516	516	516	516		516
16. OPER MBTU	2,287,431	1,840,031	1,054,849	1,858,493	2,424,687	1,893,691	2,266,552	2,205,309	1,947,286	649,818	2,122,817		20,550,964
17. NET GEN (MWH)	308,437	251,190	147,150	263,134	337,696	262,628	316,781	307,592	266,440	91,572	304,172		2,856,792
18. ANOHR (BTU/KWH)	7,416.2	7,325.3	7,168.5	7,062.9	7,180.1	7,210.5	7,155.0	7,169.6	7,308.5	7,096.3	6,979.0		7,193.7
19. NOF (%)	85.38	76.26	82.99	84.07	87.96	84.25	84.48	84.89	80.62	92.98	89.52		84.45
20. NPC (MW)	516	516	516	516	516	516	516	516	516	516	516		516

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2019

HINES Power Block 4	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan - Nov Period
1. EAF	99.64	99.74	98.79	99.78	99.60	93.95	69.25	98.66	99.73	99.63	99.70		96.17
2. PH	744	672	743	720	744	720	744	744	720	744	721		8,016
3. SH	677.2	637.2	680.2	678.2	738.9	603.6	509.8	702.4	685.3	543.0	53.3		6,509.0
4. RSH	64.8	33.4	62.8	41.8	2.9	72.8	5.4	31.7	32.8	55.8	0.0		404.2
5. UH	2.0	1.4	0.0	0.0	2.2	43.6	228.8	10.0	2.0	2.4	2.1		294.4
6. POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
7. FOH	2.0	1.4	0.0	0.0	2.2	43.6	228.8	0.0	2.0	2.4	2.1		284.4
8. MOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0	0.0	0.0		10.0
9. PPOH	5.5	0.0	202.9	39.8	5.1	0.0	0.0	0.0	0.0	3.5	0.0		256.8
10. LR PP (MW)	64.2	0.0	21.2	21.0	59.3	0.0	0.0	0.0	0.0	54.4	0.0		23.3
11. PFOH	0.0	0.0	8.5	0.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0		10.6
12. LR PF (MW)	0.0	0.0	38.7	0.0	55.1	0.0	0.0	0.0	0.0	0.0	0.0		42.0
13. PMOH	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		2.6
14. LR PM (MW)	0.0	78.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		78.1
15. NSC (MW)	516	516	516	516	516	516	516	516	516	516	516		516
16. OPER MBTU	2,212,083	1,913,058	2,029,918	2,065,703	2,421,807	1,882,729	1,630,498	2,256,821	2,142,692	1,703,035	122,325		20,380,670
17. NET GEN (MWH)	319,434	276,729	292,615	303,025	342,323	266,653	226,841	313,995	303,106	239,878	17,330		2,901,929
18. ANOHR (BTU/KWH)	6,925.0	6,913.1	6,937.2	6,816.9	7,074.6	7,060.6	7,187.8	7,187.4	7,069.1	7,099.6	7,058.6		7,023.1
19. NOF (%)	91.42	84.16	83.37	86.59	89.78	85.61	86.24	86.64	85.72	85.61	63.00		86.40
20. NPC (MW)	516	516	516	516	516	516	516	516	516	516	516		516

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - November 2019

Bartow CC

Unit	Date	Outage Type	Hours	MW Affected	Description
BCC 4A	1/19/2019	FMO	14.00	185.0	OTHER CO REDUCTION PROBLEMS
BCC 4A	3/1/2019	PO	1135.93	185.0	MAJOR GAS TURBINE OVERHAUL
BCC 4A	4/18/2019	FFO	10.92	185.0	FLASHBACK (INCLUDING INSTRUMENTATION)
BCC 4A	4/19/2019	FFO	16.07	185.0	FLASHBACK (INCLUDING INSTRUMENTATION)
BCC 4A	7/20/2019	FMO	4.13	185.0	MAIN TRANSFORMER
BCC 4A	11/3/2019	PO	210.25	185.0	GENERAL GAS TURBINE UNIT INSPECTION
BCC 4A	11/14/2019	FFO	0.58	185.0	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
BCC 4B	2/11/2019	FFO	74.72	183.0	GAS TURBINE - STARTING SYSTEM (INCLUDING MOTOR)
BCC 4B	4/2/2019	FMO	117.52	183.0	GAS TURBINE - EXHAUST SYSTEM CHAMBER
BCC 4B	5/28/2019	FFO	1.42	183.0	GAS TURBINE - LUBE OIL PUMPS
BCC 4B	6/20/2019	FFO	26.67	183.0	GAS TURBINE - LUBE OIL PUMPS
BCC 4B	8/2/2019	FMO	2.77	183.0	MAIN TRANSFORMER
BCC 4B	8/15/2019	FFO	2.22	183.0	GAS TURBINE - LUBE OIL SYSTEM - GENERAL
BCC 4B	9/29/2019	PO	1494.45	183.0	MAJOR GAS TURBINE OVERHAUL
BCC 4C	3/3/2019	FMO	558.70	187.0	MAJOR GAS TURBINE OVERHAUL
BCC 4C	4/2/2019	FMO	6.57	187.0	GAS TURBINE - FUEL PIPING AND VALVES
BCC 4C	5/15/2019	FMO	57.67	187.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
BCC 4C	7/20/2019	FMO	3.90	187.0	MAIN TRANSFORMER
BCC 4C	7/21/2019	FFO	6.67	187.0	HP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
BCC 4C	8/21/2019	FFO	1.90	187.0	OTHER SAFETY PROBLEMS
BCC 4C	9/16/2019	FFO	6.38	187.0	COMBINED CYCLE INSTRUMENTS AND CONTROLS
BCC 4C	11/3/2019	PO	167.10	187.0	GENERAL GAS TURBINE UNIT INSPECTION
BCC 4D	3/27/2019	FMO	73.15	186.0	GAS TURBINE - EXHAUST SYSTEM CHAMBER
BCC 4D	5/11/2019	FFO	2.77	186.0	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
BCC 4D	5/13/2019	FFO	0.70	186.0	COMBINED CYCLE INSTRUMENTS AND CONTROLS
BCC 4D	5/23/2019	FFO	46.20	186.0	OTHER GAS TURBINE FUEL SYSTEM PROBLEMS
BCC 4D	8/3/2019	FMO	2.45	186.0	MAIN TRANSFORMER

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - November 2019

Bartow CC

Unit	Date	Outage Type	Hours	MW Affected	Description
BCC 4D	10/4/2019	PO	1119.70	186.0	MAJOR GAS TURBINE OVERHAUL
BCC 4S	1/7/2019	FFO	30.10	339.0	CIRCULATING WATER PUMPS
BCC 4S	2/11/2019	PFO	74.72	67.0	GAS TURBINE - STARTING SYSTEM (INCLUDING MOTOR)
BCC 4S	3/3/2019	PMO	558.70	187.0	MAJOR GAS TURBINE OVERHAUL
BCC 4S	3/27/2019	PMO	73.10	187.0	GAS TURBINE - EXHAUST SYSTEM CHAMBER
BCC 4S	4/19/2019	FFO	1.23	339.0	CONTRACTOR ERROR
BCC 4S	4/19/2019	FFO	31.40	339.0	VIBRATION OF THE TURBINE GENERATOR UNIT
BCC 4S	5/11/2019	PFO	2.77	187.0	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
BCC 4S	5/15/2019	PMO	61.67	187.0	OTHER LP STEAM SYSTEM PROBLEMS
BCC 4S	5/23/2019	PFO	48.93	187.0	OTHER GAS TURBINE FUEL SYSTEM PROBLEMS
BCC 4S	5/28/2019	PFO	1.42	186.8	GAS TURBINE - CONTROLS AND INSTRUMENTS
BCC 4S	6/20/2019	PFO	85.73	67.0	BOILER WATER CONDITION (NOT FEEDWATER WATER QUALITY)
BCC 4S	7/20/2019	PMO	4.13	187.0	MAIN TRANSFORMER
BCC 4S	7/20/2019	PMO	3.90	187.0	MAIN TRANSFORMER
BCC 4S	7/21/2019	PFO	6.67	187.0	HP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
BCC 4S	8/2/2019	PMO	2.85	187.0	MAIN TRANSFORMER
BCC 4S	8/3/2019	PMO	2.45	186.9	MAIN TRANSFORMER
BCC 4S	8/15/2019	PFO	2.22	187.0	GAS TURBINE - LUBE OIL SYSTEM - GENERAL

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - November 2019

Crystal River 4

Date	Outage Type	Hours	MW Affected	Description
1/20/2019	FFO	29.58	712.0	DESUPERHEATER/ATTEMPERATOR CONTROLS (NOT LOCAL CONTROLS)
1/26/2019	PFO	2.23	284.1	CONDENSATE VALVES
2/25/2019	PO	0.13	712.0	FEEDWATER CONTROLS
2/25/2019	PO	4.10	712.0	CONDENSATE/HOTWELL PUMPS
2/26/2019	PMO	27.50	93.0	PULVERIZER MILLS
2/28/2019	PMO	3.50	93.0	PULVERIZED FUEL AND AIR PIPING (PULVERIZER TO WIND BOX)
2/28/2019	PFO	2.90	93.1	PULVERIZED FUEL AND AIR PIPING (PULVERIZER TO WIND BOX)
2/28/2019	PPO	15.17	93.0	PULVERIZER MILLS
4/2/2019	PPO	4.58	93.1	PULVERIZER MILLS
4/2/2019	PFO	1.65	188.1	PULVERIZER MILLS
4/2/2019	PPO	0.57	92.9	PULVERIZER MILLS
4/3/2019	PPO	6.00	93.0	PULVERIZER MILLS
4/4/2019	PPO	6.67	93.0	PULVERIZER MILLS
4/9/2019	PPO	4.87	93.0	PULVERIZER MILLS
4/10/2019	PPO	5.13	93.1	PULVERIZER MILLS
4/11/2019	PPO	6.42	188.0	PULVERIZER MILLS
4/11/2019	PPO	1.32	93.0	PULVERIZER MILLS
4/26/2019	PPO	4.00	92.9	PULVERIZER COAL LEAK (PULVERIZER ONLY)
5/22/2019	PMO	3.33	92.9	PULVERIZER LUBE OIL SYSTEM
6/9/2019	PFO	67.00	93.0	HEATER DRAIN PUMPS
6/24/2019	PFO	1.00	74.0	INDUCED DRAFT FAN LUBRICATION SYSTEMS
6/29/2019	PFO	2.00	284.1	HEATER DRAIN PUMPS
7/12/2019	PFO	2.00	92.9	PULVERIZER FEEDERS
7/17/2019	PFO	3.75	93.0	PULVERIZER FEEDERS
7/27/2019	PFO	6.00	93.0	WET COAL (OMC)
7/27/2019	PFO	5.00	93.0	WET SCRUBBER - RECYCLE (LIQUID) PUMPS
7/28/2019	PFO	54.73	122.0	PULVERIZER FEEDERS

Duke Energy Florida**ACTUAL UNIT EVENT DATA -- January - November 2019****Crystal River 4**

Date	Outage Type	Hours	MW Affected	Description
7/31/2019	FMO	1.85	712.0	GENERATOR LIQUID COOLING SYSTEM
8/8/2019	PFO	12.83	93.0	PULVERIZER FEEDERS
8/11/2019	FFO	100.47	712.0	SECOND SUPERHEATER LEAKS
8/16/2019	FFO	138.88	712.0	SECOND SUPERHEATER LEAKS
8/28/2019	PFO	1.15	92.9	SECOND SUPERHEATER LEAKS
8/28/2019	PFO	3.60	474.1	SECOND SUPERHEATER LEAKS
8/29/2019	FFO	79.05	712.0	SECOND SUPERHEATER LEAKS
9/4/2019	FFO	87.48	712.0	SECOND SUPERHEATER LEAKS
9/8/2019	PFO	32.28	284.0	OTHER MISCELLANEOUS BOILER TUBE PROBLEMS
9/9/2019	PFO	471.35	129.9	INDUCED DRAFT FANS
9/26/2019	PFO	22.00	362.0	LACK OF FUEL (OUTSIDE MANAGEMENT CONTROL)
10/10/2019	PFO	5.00	183.0	PULVERIZER FEEDERS
10/13/2019	PFO	4.70	284.0	PULVERIZER FEEDERS
10/24/2019	FFO	137.62	712.0	OTHER BOILER TUBE LEAKS

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - November 2019

Crystal River 5

Date	Outage Type	Hours	MW Affected	Description
1/11/2019	PFO	1.00	377.0	OTHER PULVERIZER PROBLEMS
2/23/2019	PO	1918.02	710.0	BOILER - OTHER INTERNAL AND STRUCTURAL PROBLEMS
5/13/2019	FFO	360.93	710.0	GENERATOR ROTOR WINDINGS
5/29/2019	FFO	207.48	710.0	GENERATOR ROTOR WINDINGS
6/9/2019	PO	0.98	710.0	INDUCED DRAFT FAN MOTORS - VARIABLE SPEED
6/10/2019	PFO	6.00	520.0	COAL CONVEYERS AND FEEDERS
6/10/2019	PFO	2.48	233.9	COAL CONVEYERS AND FEEDERS
6/10/2019	PO	2.30	710.0	INDUCED DRAFT FAN MOTORS - VARIABLE SPEED
6/10/2019	FFO	122.83	710.0	FIRST SUPERHEATER LEAKS
6/16/2019	PFO	654.57	71.1	HEATER DRAIN PUMP DRIVE
6/16/2019	FFO	8.02	710.0	4000-7000-VOLT CIRCUIT BREAKERS
6/21/2019	PFO	12.00	210.0	CIRCULATING WATER PIPING
6/22/2019	PFO	151.63	0.0	HEATER DRAIN PUMP DRIVE
6/28/2019	PFO	122.33	48.0	OTHER MISCELLANEOUS BOILER AIR AND GAS SYSTEM PROBLEMS
7/2/2019	PPO	4.92	0.0	PULVERIZER FEEDERS
7/16/2019	PFO	22.25	120.0	OTHER MISCELLANEOUS BOILER AIR AND GAS SYSTEM PROBLEMS
7/18/2019	PFO	4.00	91.1	PRIMARY AIR FAN
7/24/2019	FMO	121.30	710.0	TURBINE MAIN STOP VALVES
7/30/2019	FMO	2.40	710.0	TURBINE MAIN STOP VALVES
7/31/2019	PFO	9.25	91.0	PULVERIZER FEEDER MOTOR
8/7/2019	PFO	6.00	377.0	STARTUP BYPASS SYSTEM VALVES
8/7/2019	PFO	422.98	91.0	STARTUP BYPASS SYSTEM VALVES
8/8/2019	PPO	4.50	29.0	INDUCED DRAFT FANS
8/18/2019	PFO	6.02	191.0	WET COAL (OMC)
9/1/2019	PFO	22.33	244.0	CONDENSATE/HOTWELL PUMPS
9/11/2019	PFO	24.38	91.0	PULVERIZER FEEDERS
9/26/2019	PFO	21.00	539.0	LACK OF FUEL (OUTSIDE MANAGEMENT CONTROL)

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - November 2019

Crystal River 5

Date	Outage Type	Hours	MW Affected	Description
10/19/2019	PFO	8.00	282.0	PULVERIZER FEEDERS
10/30/2019	PMO	9.00	120.0	PULVERIZER FEEDERS

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - November 2019

Hines Power Block 1

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 1A	1/1/2019	FMO	95.75	163.0	OTHER EXCITER PROBLEMS
HEP 1A	1/6/2019	FMO	83.48	163.0	LP TURBINE SHAFT SEALS
HEP 1A	2/8/2019	FMO	58.00	163.0	IP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP 1A	3/3/2019	PPO	10.00	77.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 1A	3/5/2019	PPO	2.08	73.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 1A	3/11/2019	FFO	2.98	163.0	FEEDWATER PUMP/DRIVE LUBE OIL SYSTEM
HEP 1A	3/25/2019	FFO	0.45	163.0	FEEDWATER CONTROLS
HEP 1A	4/1/2019	FFO	6.05	163.0	OTHER TURBINE VALVES
HEP 1A	4/13/2019	PO	551.85	163.0	GENERAL GAS TURBINE UNIT INSPECTION
HEP 1A	5/6/2019	PO	0.52	163.0	FLASHBACK (INCLUDING INSTRUMENTATION)
HEP 1A	5/6/2019	PPO	8.00	21.0	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
HEP 1A	5/7/2019	PFO	8.08	17.0	TURBINE CONTROL VALVES
HEP 1A	5/7/2019	FMO	16.62	163.0	TURBINE CONTROL VALVES
HEP 1A	5/17/2019	PPO	4.00	40.0	BOILER SAFETY VALVE TEST
HEP 1A	5/31/2019	PPO	2.00	73.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 1A	6/10/2019	PFO	45.00	73.0	GAS TURBINE - COOLING AND SEAL AIR SYSTEM
HEP 1A	6/28/2019	FFO	0.83	163.0	FEEDWATER REGULATING (BOILER LEVEL CONTROL) VALVE
HEP 1A	6/29/2019	FFO	8.58	163.0	FEEDWATER REGULATING (BOILER LEVEL CONTROL) VALVE
HEP 1A	8/10/2019	PPO	6.17	79.0	UNIT AUXILIARIES TRANSFORMER
HEP 1A	9/25/2019	FFO	1.55	163.0	OTHER LP STEAM VALVES (INCLUDING VENT AND DRAIN...
HEP 1A	9/25/2019	FFO	13.28	163.0	IP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP 1A	11/27/2019	PFO	4.03	81.0	OTHER CIRCULATING WATER SYSTEM PROBLEMS
HEP 1B	1/1/2019	FMO	95.75	169.0	OTHER EXCITER PROBLEMS
HEP 1B	1/6/2019	FMO	83.00	169.0	LP TURBINE SHAFT SEALS
HEP 1B	1/9/2019	FFO	20.00	169.0	GAS TURBINE - CONTROLS AND INSTRUMENTS
HEP 1B	1/10/2019	FMO	534.42	169.0	GENERATOR LUBE OIL SYSTEM
HEP 1B	2/8/2019	FMO	42.27	169.0	HP STARTUP BYPASS INSTRUMENTATION AND CONTROLS

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - November 2019

Hines Power Block 1

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 1B	2/10/2019	FMO	16.73	169.0	HP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP 1B	3/3/2019	PPO	10.00	83.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 1B	3/5/2019	PPO	2.08	79.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 1B	3/31/2019	FFO	40.02	169.0	EMERGENCY GENERATOR TRIP DEVICES
HEP 1B	4/5/2019	FFO	16.28	169.0	EMERGENCY GENERATOR TRIP DEVICES
HEP 1B	4/6/2019	FFO	8.32	169.0	EMERGENCY GENERATOR TRIP DEVICES
HEP 1B	4/8/2019	FFO	60.08	169.0	EMERGENCY GENERATOR TRIP DEVICES
HEP 1B	4/15/2019	PO	503.85	169.0	GENERAL GAS TURBINE UNIT INSPECTION
HEP 1B	5/6/2019	PO	109.47	169.0	GENERAL GAS TURBINE UNIT INSPECTION
HEP 1B	5/10/2019	FFO	0.40	169.0	OTHER GAS TURBINE PROBLEMS
HEP 1B	5/15/2019	FFO	11.12	169.0	GAS TURBINE - FUEL PIPING AND VALVES
HEP 1B	5/16/2019	FFO	3.00	169.0	GAS TURBINE - CONTROLS AND INSTRUMENTS
HEP 1B	5/17/2019	PPO	4.00	47.0	BOILER SAFETY VALVE TEST
HEP 1B	5/31/2019	PPO	2.00	79.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 1B	6/10/2019	PFO	55.77	79.0	GAS TURBINE COMPRESSOR - BLEED VALVES
HEP 1B	6/18/2019	FFO	2.88	169.0	GAS TURBINE - CONTROLS AND INSTRUMENTS
HEP 1B	6/28/2019	FFO	89.20	169.0	FEEDWATER PUMP DRIVE - MOTOR
HEP 1B	8/10/2019	PPO	6.17	85.0	UNIT AUXILIARIES TRANSFORMER
HEP 1B	9/13/2019	PPO	8.00	80.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 1B	11/27/2019	PFO	4.03	87.0	OTHER CIRCULATING WATER SYSTEM PROBLEMS
HEP ST1	1/1/2019	FMO	95.75	158.0	OTHER EXCITER PROBLEMS
HEP ST1	1/6/2019	FMO	92.92	158.0	LP TURBINE SHAFT SEALS
HEP ST1	1/10/2019	PFO	525.83	82.0	GENERATOR LUBE OIL SYSTEM
HEP ST1	2/8/2019	PFO	15.73	82.0	IP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP ST1	2/8/2019	FMO	42.27	158.0	IP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP ST1	2/10/2019	FMO	18.42	158.0	HP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP ST1	3/3/2019	PPO	10.00	45.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - November 2019

Hines Power Block 1

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP ST1	3/5/2019	PPO	2.08	46.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST1	3/11/2019	PFO	2.98	79.0	FEEDWATER PUMP/DRIVE LUBE OIL SYSTEM
HEP ST1	3/31/2019	PFO	22.63	86.0	EMERGENCY GENERATOR TRIP DEVICES
HEP ST1	4/1/2019	FFO	6.10	158.0	OTHER TURBINE VALVES
HEP ST1	4/5/2019	PFO	16.28	78.0	EMERGENCY GENERATOR TRIP DEVICES
HEP ST1	4/6/2019	PMO	8.08	78.0	EMERGENCY GENERATOR TRIP DEVICES
HEP ST1	4/8/2019	PFO	60.08	78.0	EMERGENCY GENERATOR TRIP DEVICES
HEP ST1	4/15/2019	PO	359.85	158.0	GENERAL GAS TURBINE UNIT INSPECTION
HEP ST1	5/1/2019	PO	108.00	158.0	GENERAL GAS TURBINE UNIT INSPECTION
HEP ST1	5/5/2019	PO	16.72	158.0	TURBINE HYDRAULIC SYSTEM FILTERS
HEP ST1	5/6/2019	PPO	8.00	92.0	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
HEP ST1	5/7/2019	PFO	8.08	86.0	TURBINE CONTROL VALVES
HEP ST1	5/7/2019	FMO	18.87	158.0	TURBINE CONTROL VALVES
HEP ST1	5/8/2019	FFO	1.80	158.0	TURBINE TRIP DEVICES (INCLUDING INSTRUMENTS)
HEP ST1	5/8/2019	FFO	0.78	158.0	TURBINE TRIP DEVICES (INCLUDING INSTRUMENTS)
HEP ST1	5/17/2019	PPO	4.00	16.0	BOILER SAFETY VALVE TEST
HEP ST1	5/31/2019	PPO	2.00	45.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST1	6/10/2019	PFO	55.77	14.0	GAS TURBINE COMPRESSOR - BLEED VALVES
HEP ST1	6/28/2019	PFO	89.27	0.0	FEEDWATER PUMP DRIVE - MOTOR
HEP ST1	6/28/2019	FFO	2.58	158.0	OTHER DISTRIBUTIVE CONTROL SYSTEM PROBLEMS
HEP ST1	6/29/2019	FFO	11.28	158.0	TURBINE - MISCELLANEOUS DRAIN AND VENT VALVES

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - November 2019

Hines Power Block 2

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 2A	1/1/2019	FFO	4.50	166.3	OTHER MISC. OPERATIONAL ENVIRONMENTAL LIMITS - GAS
HEP 2A	2/8/2019	PPO	4.50	60.3	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
HEP 2A	3/2/2019	PO	331.28	166.3	OTHER MISCELLANEOUS BALANCE OF PLANT PROBLEMS
HEP 2A	3/27/2019	FMO	7.00	166.3	OTHER CONDENSING SYSTEM CONTROLS AND INSTRUMENTS
HEP 2A	5/4/2019	PPO	1.50	65.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 2A	6/1/2019	PPO	4.00	123.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 2A	7/11/2019	PPO	6.33	61.3	GAS TURBINE PERFORMANCE TESTING - INDIVID. ENGINES
HEP 2A	8/10/2019	PPO	6.17	76.3	UNIT AUXILIARIES TRANSFORMER
HEP 2A	8/16/2019	PPO	4.08	63.3	UNIT AUXILIARIES TRANSFORMER
HEP 2A	9/16/2019	FFO	10.93	166.3	GAS TURBINE - FIRE DETECTION AND EXTINGUISHING SYS
HEP 2A	10/10/2019	FFO	9.27	166.3	NOX STACK EMISSIONS - GAS TURBINE UNITS
HEP 2A	10/18/2019	PPO	8.00	67.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 2B	1/1/2019	FFO	4.53	174.3	OTHER MISC. OPERATIONAL ENVIRONMENTAL LIMITS - GAS
HEP 2B	2/8/2019	PPO	4.50	68.3	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
HEP 2B	3/2/2019	PO	331.28	174.3	OTHER MISCELLANEOUS BALANCE OF PLANT PROBLEMS
HEP 2B	3/27/2019	FMO	7.00	174.3	OTHER CONDENSING SYSTEM CONTROLS AND INSTRUMENTS
HEP 2B	5/4/2019	PPO	1.50	73.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 2B	6/1/2019	PPO	4.00	131.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 2B	7/11/2019	PPO	6.33	84.3	GAS TURBINE PERFORMANCE TESTING - INDIVID. ENGINES
HEP 2B	8/10/2019	PPO	6.17	84.3	UNIT AUXILIARIES TRANSFORMER
HEP 2B	8/16/2019	PPO	4.08	71.4	UNIT AUXILIARIES TRANSFORMER
HEP 2B	9/12/2019	FMO	2.00	174.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 2B	10/18/2019	PPO	8.00	75.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST2	1/1/2019	FFO	5.47	171.3	OTHER MISC. OPERATIONAL ENVIRONMENTAL LIMITS - GAS
HEP ST2	2/8/2019	PPO	4.50	25.4	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
HEP ST2	3/2/2019	PO	331.28	171.3	OTHER MISCELLANEOUS BALANCE OF PLANT PROBLEMS
HEP ST2	3/27/2019	FMO	7.00	171.3	OTHER CONDENSING SYSTEM CONTROLS AND INSTRUMENTS

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Hines Power Block 2

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP ST2	5/4/2019	PPO	1.50	31.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST2	6/1/2019	PPO	4.00	123.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST2	7/11/2019	PPO	6.33	33.3	GAS TURBINE PERFORMANCE TESTING - INDIVID. ENGINES
HEP ST2	8/10/2019	PPO	6.17	37.3	UNIT AUXILIARIES TRANSFORMER
HEP ST2	8/16/2019	PPO	4.08	36.3	UNIT AUXILIARIES TRANSFORMER
HEP ST2	10/18/2019	PPO	8.00	40.4	OTHER MISCELLANEOUS EXTERNAL PROBLEMS

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Hines Power Block 3

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 3A	3/6/2019	PPO	1.00	64.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 3A	4/3/2019	FMO	6.42	173.3	DC PROTECTION DEVICES
HEP 3A	4/19/2019	PPO	9.83	67.3	CLOSED COOLING WATER HEAT EXCHANGERS
HEP 3A	4/20/2019	PPO	9.00	69.3	CLOSED COOLING WATER HEAT EXCHANGERS
HEP 3A	5/9/2019	PPO	3.00	64.4	BOILER SAFETY VALVE TEST
HEP 3A	5/30/2019	PPO	2.17	68.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 3A	6/5/2019	PPO	8.00	130.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 3A	6/11/2019	FFO	3.92	173.3	TURBINE TRIP DEVICES (INCLUDING INSTRUMENTS)
HEP 3A	6/16/2019	PFO	5.50	73.3	FEEDWATER REGULATING (BOILER LEVEL CONTROL) VALVE
HEP 3A	7/1/2019	FFO	10.40	173.3	GAS TURBINE - LUBE OIL SYSTEM - GENERAL
HEP 3A	9/11/2019	PPO	5.00	47.4	MAIN STEAM RELIEF/SAFETY VALVES
HEP 3A	9/16/2019	PPO	3.00	61.4	REACTIVE AND CAPABILITY TESTING
HEP 3A	9/20/2019	FMO	0.02	173.3	LIQUID FUEL PURGE SYSTEM
HEP 3A	9/25/2019	FFO	13.00	173.3	BLOWDOWN SYSTEM CONTROLS
HEP 3A	9/26/2019	FFO	9.37	173.3	SCR NOX AMMONIA TANKS; PIPING & VALVES (NO INJECT)
HEP 3A	10/1/2019	PO	541.80	173.3	BOILER INSPECTIONS - SCHEDULED OR ROUTINE
HEP 3A	11/18/2019	FFO	22.97	173.3	GAS TURBINE - FIRE DETECTION AND EXTINGUISHING SYS
HEP 3B	1/31/2019	FFO	9.70	173.3	GAS TURBINE - CONTROLS AND INSTRUMENTS
HEP 3B	3/6/2019	PPO	1.00	64.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 3B	4/3/2019	FMO	2.67	173.3	DC PROTECTION DEVICES
HEP 3B	4/19/2019	PPO	9.83	67.3	CLOSED COOLING WATER HEAT EXCHANGERS
HEP 3B	4/20/2019	PPO	9.00	69.3	CLOSED COOLING WATER HEAT EXCHANGERS
HEP 3B	4/22/2019	FFO	15.68	173.3	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
HEP 3B	4/25/2019	FFO	56.88	173.3	FUEL GAS COMPRESSOR HEAT EXCHANGERS
HEP 3B	5/7/2019	PPO	1.00	65.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 3B	5/9/2019	PPO	3.00	64.4	BOILER SAFETY VALVE TEST
HEP 3B	5/30/2019	PPO	2.17	68.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS

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ACTUAL UNIT EVENT DATA -- January - November 2019

Hines Power Block 3

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 3B	6/5/2019	PPO	8.00	130.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 3B	8/3/2019	FMO	10.27	173.3	SCR NOX AMMONIA INJECTION GRID PIPING/VALVES
HEP 3B	9/11/2019	PPO	5.00	47.4	MAIN STEAM RELIEF/SAFETY VALVES
HEP 3B	9/16/2019	PPO	3.00	61.4	REACTIVE AND CAPABILITY TESTING
HEP 3B	9/25/2019	FFO	13.00	173.3	BLOWDOWN SYSTEM CONTROLS
HEP 3B	9/26/2019	FFO	0.12	173.3	GAS TURBINE - CONTROLS AND INSTRUMENTS
HEP 3B	10/1/2019	PO	571.87	173.3	BOILER INSPECTIONS - SCHEDULED OR ROUTINE
HEP ST3	1/31/2019	PFO	9.70	75.3	GAS TURBINE - CONTROLS AND INSTRUMENTS
HEP ST3	3/6/2019	PPO	1.00	28.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST3	4/19/2019	PPO	9.83	27.3	CLOSED COOLING WATER HEAT EXCHANGERS
HEP ST3	4/20/2019	PPO	9.00	29.3	CLOSED COOLING WATER HEAT EXCHANGERS
HEP ST3	4/22/2019	PFO	15.67	84.3	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
HEP ST3	4/25/2019	PFO	56.88	79.3	FUEL GAS COMPRESSOR HEAT EXCHANGERS
HEP ST3	5/7/2019	PPO	1.00	34.4	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST3	5/9/2019	PPO	3.00	34.3	BOILER SAFETY VALVE TEST
HEP ST3	5/30/2019	PPO	2.17	37.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST3	6/5/2019	PPO	8.00	121.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST3	6/11/2019	FFO	6.25	169.3	TURBINE TRIP DEVICES (INCLUDING INSTRUMENTS)
HEP ST3	6/16/2019	PFO	5.50	26.3	FEEDWATER REGULATING (BOILER LEVEL CONTROL) VALVE
HEP ST3	8/3/2019	FMO	10.48	169.3	SCR NOX AMMONIA INJECTION GRID PIPING/VALVES
HEP ST3	9/11/2019	PPO	5.00	11.3	MAIN STEAM RELIEF/SAFETY VALVES
HEP ST3	9/16/2019	PPO	3.00	23.3	REACTIVE AND CAPABILITY TESTING
HEP ST3	9/25/2019	FFO	13.00	169.3	BLOWDOWN SYSTEM CONTROLS
HEP ST3	9/26/2019	PFO	9.37	83.3	SCR NOX AMMONIA TANKS; PIPING & VALVES (NO INJECT)

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Hines Power Block 4

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 4A	1/22/2019	PPO	1.50	75.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4A	1/23/2019	PPO	3.00	72.0	DISTRIBUTIVE CONTROL SYSTEM - PROCESS COMPUTER
HEP 4A	1/28/2019	PPO	2.00	70.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4A	3/1/2019	PFO	8.50	42.0	CIRCULATING WATER PUMP MOTORS
HEP 4A	3/6/2019	PPO	0.92	76.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4A	5/5/2019	PPO	0.98	73.9	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4A	5/24/2019	PPO	4.27	76.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4A	5/31/2019	FFO	6.50	176.0	GAS TURBINE - LUBE OIL PUMPS
HEP 4A	6/15/2019	FFO	28.17	176.0	TURBINE HYDRAULIC SYSTEM PIPES AND VALVES
HEP 4A	6/19/2019	FFO	11.97	176.0	TURBINE TURNING GEAR AND MOTOR
HEP 4A	6/20/2019	FFO	4.68	176.0	IP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP 4A	7/19/2019	FFO	6.07	176.0	CONDENSATE/HOTWELL PUMPS
HEP 4A	7/19/2019	FFO	32.42	176.0	HP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP 4A	7/21/2019	FFO	47.20	176.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4A	7/23/2019	FFO	77.25	176.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4A	7/26/2019	FFO	26.02	176.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4A	7/28/2019	FFO	46.97	176.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4A	8/16/2019	FMO	10.00	176.0	PROTECTION DEVICES
HEP 4A	9/1/2019	FFO	1.93	176.0	CONDENSATE/HOTWELL PUMPS
HEP 4A	10/7/2019	PPO	1.50	74.0	BOILER SAFETY VALVE TEST
HEP 4A	10/17/2019	PPO	2.00	70.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4A	10/26/2019	PO	865.00	176.0	GENERAL GAS TURBINE UNIT INSPECTION
HEP 4B	1/20/2019	FFO	0.08	175.0	HP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP 4B	1/20/2019	FFO	5.85	175.0	HP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP 4B	1/20/2019	FFO	5.80	175.0	HP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP 4B	1/22/2019	PPO	1.50	74.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4B	1/28/2019	PPO	2.00	69.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS

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Hines Power Block 4

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 4B	2/24/2019	FFO	4.00	175.0	GAS TURBINE - IGNITION SYSTEM
HEP 4B	3/1/2019	PFO	8.50	41.0	CIRCULATING WATER PUMP MOTORS
HEP 4B	3/6/2019	PPO	0.92	76.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4B	5/5/2019	PPO	0.50	73.2	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4B	5/24/2019	PPO	4.27	75.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4B	6/16/2019	FFO	27.58	175.0	TURBINE HYDRAULIC SYSTEM PIPES AND VALVES
HEP 4B	6/20/2019	FFO	19.55	175.0	OTHER MISCELLANEOUS STEAM TURBINE PROBLEMS
HEP 4B	6/21/2019	FFO	3.65	175.0	TURBINE CONTROL VALVES
HEP 4B	7/19/2019	FFO	19.87	175.0	CONDENSATE/HOTWELL PUMPS
HEP 4B	7/21/2019	FFO	8.80	175.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4B	7/22/2019	FFO	196.68	175.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4B	8/16/2019	FMO	10.00	175.0	PROTECTION DEVICES
HEP 4B	9/1/2019	FFO	1.97	175.0	CONDENSATE/HOTWELL PUMPS
HEP 4B	10/7/2019	PPO	1.50	73.0	BOILER SAFETY VALVE TEST
HEP 4B	10/17/2019	PPO	2.00	69.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4B	10/24/2019	FFO	3.25	175.0	FEEDWATER PUMP
HEP 4B	10/26/2019	PO	778.52	175.0	GENERAL GAS TURBINE UNIT INSPECTION
HEP 4B	11/27/2019	FFO	3.17	175.0	IP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP ST4	1/22/2019	PPO	1.50	21.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST4	1/23/2019	PPO	3.00	91.0	DISTRIBUTIVE CONTROL SYSTEM - PROCESS COMPUTER
HEP ST4	1/28/2019	PPO	2.00	18.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST4	2/24/2019	PMO	4.00	78.0	GAS TURBINE - IGNITION SYSTEM
HEP ST4	3/1/2019	PFO	8.50	33.0	CIRCULATING WATER PUMP MOTORS
HEP ST4	3/6/2019	PPO	743.92	21.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST4	5/5/2019	PPO	1.00	22.9	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST4	5/24/2019	PPO	4.27	29.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST4	5/31/2019	PFO	6.50	55.0	GAS TURBINE - LUBE OIL PUMPS

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Hines Power Block 4

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP ST4	6/16/2019	FFO	27.58	165.0	TURBINE HYDRAULIC SYSTEM PIPES AND VALVES
HEP ST4	6/20/2019	FFO	0.78	165.0	TURBINE WATER INDUCTION
HEP ST4	6/20/2019	FFO	5.48	165.0	OTHER GAS TURBINE PROBLEMS
HEP ST4	6/20/2019	FFO	0.87	165.0	TURBINE WATER INDUCTION
HEP ST4	7/19/2019	FFO	21.18	165.0	CONDENSATE/HOTWELL PUMPS
HEP ST4	7/21/2019	FFO	203.88	165.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST4	8/16/2019	FMO	10.00	165.0	PROTECTION DEVICES
HEP ST4	9/1/2019	FFO	2.02	165.0	CONDENSATE/HOTWELL PUMPS
HEP ST4	10/7/2019	PPO	1.50	20.0	BOILER SAFETY VALVE TEST
HEP ST4	10/17/2019	PPO	2.00	19.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST4	10/24/2019	FFO	3.87	165.0	FEEDWATER PUMP