



Matthew R. Bernier
ASSOCIATE GENERAL COUNSEL

October 28, 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 July 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 September 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 28th day of October, 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 - Sep Period
1. EAF	98.52	97.86	62.26	85.22	96.58	99.14	99.54	99.71	96.37				92.74
2. PH	744	672	743	720	744	720	744	744	720				6,551
3. SH	603.9	593.9	485.5	612.3	712.0	695.1	737.1	740.6	670.4				5,850.8
4. RSH	129.0	65.0	8.7	1.3	12.3	20.2	4.2	1.8	23.8				266.4
5. UH	11.0	13.1	248.8	106.4	19.7	4.7	2.7	1.7	25.8				433.8
6. POH	0.0	0.0	133.5	70.6	0.0	0.0	0.0	0.0	24.6				228.7
7. FOH	8.5	13.1	0.0	14.1	9.2	4.7	1.2	0.7	1.2				52.6
8. MOH	2.5	0.0	115.4	21.7	10.6	0.0	1.5	0.9	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
10. LR PP (MW)	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				66.7
12. LR PF (MW)	0.0	67.0	0.0	0.0	187.0	67.0	186.8	187.1	187.6				103.5
13. PMOH	0.0	0.0	182.7	0.0	17.8	0.0	2.3	1.5	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				187.0
15. NSC (MW)	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				38,774,856
17. NET GEN (MWH)	519,987	458,412	365,538	483,493	640,960	630,820	650,624	679,421	601,650				5,030,905
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				7,707.3
19. NOF (%)	79.72	71.47	69.72	73.11	83.36	84.03	81.73	84.95	83.10				79.62
20. NPC (MW)	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 - Sep Period
1. EAF	95.90	98.58	99.85	99.10	99.94	98.66	98.20	57.66	71.51				90.97
2. PH	744	672	743	720	744	720	744	744	720				6,551
3. SH	249.0	85.3	743.0	720.0	744.0	720.0	742.2	263.4	545.9				4,812.7
4. RSH	465.5	582.4	0.0	0.0	0.0	0.0	0.0	169.8	79.1				1,296.8
5. UH	29.6	4.2	0.0	0.0	0.0	0.0	1.9	310.8	95.1				441.6
6. POH	0.0	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0				4.2
7. FOH	29.6	0.0	0.0	0.0	0.0	0.0	0.0	310.8	95.1				435.5
8. MOH	0.0	0.0	0.0	0.0	0.0	0.0	1.9	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				54.7
10. LR PP (MW)	0.0	93.0	93.0	108.4	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				691.5
12. LR PF (MW)	284.4	93.0	0.0	188.0	0.0	98.2	115.2	171.0	149.1				141.3
13. PMOH	0.0	31.0	0.0	0.0	3.3	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				93.0
15. NSC (MW)	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				20,937,188
17. NET GEN (MWH)	82,152	31,051	323,578	318,328	344,212	326,986	288,033	104,856	181,143				2,000,339
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				10,466.8
19. NOF (%)	46.35	51.11	61.17	62.10	64.98	63.78	54.51	55.92	46.61				58.38
20. NPC (MW)	712	712	712	712	712	712	712	712	712				712

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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 - Sep Period
1. EAF	99.93	78.57	0.00	0.00	0.05	55.88	77.95	92.04	96.29				55.45
2. PH	744	672	743	720	744	720	744	744	720				6,551
3. SH	547.7	0.0	0.0	0.0	0.4	450.0	598.3	551.6	711.6				2,859.5
4. RSH	196.3	528.0	0.0	0.0	0.0	0.0	22.1	192.4	8.4				947.2
5. UH	0.0	144.0	743.0	720.0	743.6	270.0	123.7	0.0	0.0				2,744.3
6. POH	0.0	144.0	743.0	720.0	311.0	3.3	0.0	0.0	0.0				1,921.3
7. FOH	0.0	0.0	0.0	0.0	432.6	266.7	0.0	0.0	0.0				699.3
8. MOH	0.0	0.0	0.0	0.0	0.0	0.0	123.7	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				9.4
10. LR PP (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.0	0.0				13.9
11. PFOH	1.0	0.0	0.0	0.0	0.0	582.0	402.5	435.0	67.7				1,488.2
12. LR PF (MW)	377.0	0.0	0.0	0.0	0.0	58.2	71.2	96.3	280.4				83.2
13. PMOH	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
15. NSC (MW)	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				11,235,366
17. NET GEN (MWH)	185,022	0	0	0	0	148,500	226,349	214,475	293,804				1,068,150
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				10,518.5
19. NOF (%)	47.58	0.00	0.00	0.00	0.00	46.48	53.29	54.77	58.15				52.61
20. NPC (MW)	710	710	710	710	710	710	710	710	710				710

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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 - Sep Period
1. EAF	47.59	89.85	98.58	39.42	76.09	95.57	98.31	99.88	99.22				82.69
2. PH	744	672	743	720	744	720	744	744	720				6,551
3. SH	356.2	588.3	669.0	260.0	562.9	555.8	705.6	744.0	676.3				5,118.0
4. RSH	25.7	17.4	66.4	28.5	5.0	138.1	25.8	0.0	38.8				345.7
5. UH	362.1	66.2	7.6	431.5	176.1	26.1	12.6	0.0	4.9				1,087.3
6. POH	0.0	0.0	0.0	391.9	158.6	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				103.4
8. MOH	355.4	66.2	0.0	0.0	11.8	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				34.9
10. LR PP (MW)	0.0	0.0	68.1	0.0	50.3	0.0	0.0	68.1	63.7				61.7
11. PFOH	166.5	12.0	7.3	26.3	5.4	69.3	12.3	0.0	0.0				299.0
12. LR PF (MW)	82.0	82.0	85.1	78.4	51.3	41.0	0.0	0.0	0.0				68.3
13. PMOH	0.0	0.0	0.0	2.7	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				78.1
15. NSC (MW)	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				15,010,479
17. NET GEN (MWH)	114,118	234,944	260,779	88,049	226,948	220,581	284,517	314,211	269,663				2,013,810
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				7,453.8
19. NOF (%)	65.39	81.50	79.55	69.13	82.29	80.99	82.29	86.19	81.38				80.30
20. NPC (MW)	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 - Sep Period
1. EAF	99.35	99.93	99.06	100.00	99.98	99.86	99.90	99.83	99.41				99.70
2. PH	744	672	743	720	744	720	744	744	720				6,551
3. SH	522.1	594.2	262.4	703.8	741.6	693.4	743.0	738.0	651.3				5,649.8
4. RSH	217.0	77.8	142.3	16.2	2.4	26.6	1.0	6.0	64.4				553.8
5. UH	4.8	0.0	7.0	0.0	0.0	0.0	0.0	0.0	4.3				16.1
6. POH	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				8.5
8. MOH	0.0	0.0	7.0	0.0	0.0	0.0	0.0	0.0	0.7				7.7
9. PPOH	0.0	4.5	0.0	0.0	1.5	4.0	6.3	10.3	0.0				26.6
10. LR PP (MW)	0.0	51.1	0.0	0.0	56.4	126.0	59.5	62.2	0.0				68.9
11. PFOH	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
13. PMOH	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
15. NSC (MW)	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				18,251,224
17. NET GEN (MWH)	216,465	250,392	94,594	326,935	338,507	305,167	325,431	323,493	271,218				2,452,202
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				7,442.8
19. NOF (%)	80.97	82.31	70.40	90.73	89.15	85.96	85.55	85.61	81.33				84.77
20. NPC (MW)	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 - Sep Period
1. EAF	99.51	100.00	99.99	95.45	99.92	99.20	99.54	99.07	97.60				98.92
2. PH	744	672	743	720	744	720	744	744	720				6,551
3. SH	700.1	638.3	343.6	606.6	744.0	604.2	726.7	702.2	640.5				5,706.2
4. RSH	40.7	33.7	399.4	86.5	0.0	112.4	13.9	34.8	63.4				784.7
5. UH	3.2	0.0	0.0	26.9	0.0	3.4	3.4	7.0	16.1				60.1
6. POH	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				50.1
8. MOH	0.0	0.0	0.0	3.0	0.0	0.0	0.0	7.0	0.0				10.0
9. PPOH	0.0	0.0	1.0	18.8	5.8	8.0	0.0	0.0	8.0				41.7
10. LR PP (MW)	0.0	0.0	52.2	54.8	55.0	127.3	0.0	0.0	40.2				65.9
11. PFOH	3.3	0.0	0.0	24.5	0.0	3.7	0.0	0.0	3.2				34.7
12. LR PF (MW)	75.3	0.0	0.0	80.4	0.0	49.6	0.0	0.0	83.3				76.9
13. PMOH	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
15. NSC (MW)	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				17,778,329
17. NET GEN (MWH)	308,437	251,190	147,150	263,134	337,696	262,628	316,781	307,592	266,440				2,461,048
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				7,223.9
19. NOF (%)	85.38	76.26	82.99	84.07	87.96	84.25	84.48	84.89	80.62				83.58
20. NPC (MW)	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 - Sep Period
1. EAF	99.64	99.77	98.79	99.78	99.60	93.95	69.25	98.66	99.73				95.39
2. PH	744	672	743	720	744	720	744	744	720				6,551
3. SH	677.2	637.2	680.2	678.2	738.9	603.6	509.8	702.4	685.3				5,912.7
4. RSH	64.8	33.4	62.8	41.8	2.9	72.8	5.4	31.7	32.8				348.4
5. UH	2.0	1.4	0.0	0.0	2.2	43.6	228.8	10.0	2.0				289.9
6. POH	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				279.9
8. MOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0				10.0
9. PPOH	5.5	0.0	202.9	39.8	5.1	0.0	0.0	0.0	0.0				253.3
10. LR PP (MW)	64.2	0.0	21.2	21.0	59.3	0.0	0.0	0.0	0.0				22.8
11. PFOH	0.0	0.0	8.5	0.0	2.1	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				42.0
13. PMOH	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0				1.3
14. LR PM (MW)	0.0	78.1	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
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				18,555,310
17. NET GEN (MWH)	319,434	276,729	292,615	303,025	342,323	266,653	226,841	313,995	303,106				2,644,721
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				7,016.0
19. NOF (%)	91.42	84.16	83.37	86.59	89.78	85.61	86.24	86.64	85.72				86.68
20. NPC (MW)	516	516	516	516	516	516	516	516	516				516

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - September 2019

Bartow CC

Unit	Date	Outage Type	Hours	MW Affected	Description
BCC 4A	19-01-19	FMO	14.00	185.0	OTHER CO REDUCTION PROBLEMS
BCC 4A	01-03-19	PO	1135.93	185.0	MAJOR GAS TURBINE OVERHAUL
BCC 4A	18-04-19	FFO	10.92	185.0	FLASHBACK (INCLUDING INSTRUMENTATION)
BCC 4A	19-04-19	FFO	16.07	185.0	FLASHBACK (INCLUDING INSTRUMENTATION)
BCC 4A	20-07-19	FMO	4.13	185.0	MAIN TRANSFORMER
BCC 4B	11-02-19	FFO	74.72	183.0	GAS TURB NE - STARTING SYSTEM (NCLUDING MOTOR)
BCC 4B	02-04-19	FMO	117.52	183.0	GAS TURB NE - EXHAUST SYSTEM CHAMBER
BCC 4B	28-05-19	FFO	1.42	183.0	GAS TURB NE - LUBE OIL PUMPS
BCC 4B	20-06-19	FFO	26.67	183.0	GAS TURB NE - LUBE OIL PUMPS
BCC 4B	02-08-19	FMO	2.77	183.0	MAIN TRANSFORMER
BCC 4B	15-08-19	FFO	2.22	183.0	GAS TURB NE - LUBE OIL SYSTEM - GENERAL
BCC 4B	29-09-19	PO	29.45	183.0	MAJOR GAS TURBINE OVERHAUL
BCC 4C	03-03-19	FMO	558.70	187.0	MAJOR GAS TURBINE OVERHAUL
BCC 4C	02-04-19	FMO	6.57	187.0	GAS TURB NE - FUEL PIPING AND VALVES
BCC 4C	15-05-19	FMO	57.67	187.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
BCC 4C	20-07-19	FMO	3.90	187.0	MAIN TRANSFORMER
BCC 4C	21-07-19	FFO	6.67	187.0	HP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
BCC 4C	21-08-19	FFO	1.90	187.0	OTHER SAFETY PROBLEMS
BCC 4C	16-09-19	FFO	6.38	187.0	COMBINED CYCLE INSTRUMENTS AND CONTROLS
BCC 4D	27-03-19	FMO	73.15	186.0	GAS TURB NE - EXHAUST SYSTEM CHAMBER
BCC 4D	11-05-19	FFO	2.77	186.0	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
BCC 4D	13-05-19	FFO	0.70	186.0	COMBINED CYCLE INSTRUMENTS AND CONTROLS
BCC 4D	23-05-19	FFO	46.20	186.0	OTHER GAS TURBINE FUEL SYSTEM PROBLEMS
BCC 4D	03-08-19	FMO	2.45	186.0	MAIN TRANSFORMER
BCC 4S	07-01-19	FFO	30.10	339.0	C RCULATING WATER PUMPS
BCC 4S	11-02-19	PFO	74.72	67.0	GAS TURB NE - START NG SYSTEM (NCLUDING MOTOR)
BCC 4S	03-03-19	PMO	558.70	187.0	MAJOR GAS TURBINE OVERHAUL
BCC 4S	27-03-19	PMO	73.10	187.0	GAS TURB NE - EXHAUST SYSTEM CHAMBER
BCC 4S	19-04-19	FFO	1.23	339.0	CONTRACTOR ERROR
BCC 4S	19-04-19	FFO	31.40	339.0	V BRATION OF THE TURBINE GENERATOR UNIT
BCC 4S	11-05-19	PFO	2.77	187.0	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
BCC 4S	15-05-19	PMO	61.67	187.0	OTHER LP STEAM SYSTEM PROBLEMS
BCC 4S	23-05-19	PFO	48.93	187.0	OTHER GAS TURBINE FUEL SYSTEM PROBLEMS
BCC 4S	28-05-19	PFO	1.42	186.8	GAS TURB NE - CONTROLS AND INSTRUMENTS
BCC 4S	20-06-19	PFO	85.73	67.0	BOILER WATER CONDITION (NOT FEEDWATER WATER QUALITY)
BCC 4S	20-07-19	PMO	4.13	187.0	MA N TRANSFORMER
BCC 4S	20-07-19	PMO	3.90	187.0	MA N TRANSFORMER
BCC 4S	21-07-19	PFO	6.67	187.0	HP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
BCC 4S	02-08-19	PMO	2.85	187.0	MA N TRANSFORMER
BCC 4S	03-08-19	PMO	2.45	186.9	MA N TRANSFORMER
BCC 4S	15-08-19	PFO	2.22	187.0	GAS TURB NE - LUBE O L SYSTEM - GENERAL
BCC 4S	21-08-19	PFO	1.90	187.0	OTHER SAFETY PROBLEMS
BCC 4S	16-09-19	PFO	6.38	187.0	COMBINED CYCLE INSTRUMENTS AND CONTROLS
BCC 4S	28-09-19	PO	68.82	339.0	MAJOR TURBINE OVERHAUL (720 HOURS OR LONGER)

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - September 2019

Crystal River 4

Date	Outage Type	Hours	MW Affected	Description
20-01-19	FFO	29.58	712.0	DESUPERHEATER/ATTEMPERATOR CONTROLS (NOT LOCAL CONTROLS)
26-01-19	PFO	2.23	284.1	CONDENSATE VALVES
25-02-19	PO	0.13	712.0	FEEDWATER CONTROLS
25-02-19	PO	4.10	712.0	CONDENSATE/HOTWELL PUMPS
26-02-19	PMO	27.50	93.0	PULVERIZER MILLS
28-02-19	PMO	3.50	93.0	PULVERIZED FUEL AND AIR P PING (PULVERIZER TO W ND BOX)
28-02-19	PFO	2 90	93.1	PULVERIZED FUEL AND AIR P PING (PULVERIZER TO W ND BOX)
28-02-19	PPO	15.17	93.0	PULVERIZER MILLS
02-04-19	PPO	4 58	93.1	PULVERIZER MILLS
02-04-19	PFO	1 65	188.1	PULVERIZER MILLS
02-04-19	PPO	0 57	92.9	PULVERIZER MILLS
03-04-19	PPO	6 00	93.0	PULVERIZER MILLS
04-04-19	PPO	6 67	93.0	PULVERIZER MILLS
09-04-19	PPO	4 87	93.0	PULVERIZER MILLS
10-04-19	PPO	5.13	93.1	PULVERIZER MILLS
11-04-19	PPO	6.42	188.0	PULVERIZER MILLS
11-04-19	PPO	1 32	93.0	PULVERIZER MILLS
26-04-19	PPO	4 00	92.9	PULVERIZER COAL LEAK (PULVERIZER ONLY)
22-05-19	PMO	3 33	92.9	PULVERIZER LUBE OIL SYSTEM
09-06-19	PFO	67 00	93.0	HEATER DRA N PUMPS
24-06-19	PFO	1 00	74.0	INDUCED DRAFT FAN LUBRICATION SYSTEMS
29-06-19	PFO	2 00	284.1	HEATER DRA N PUMPS
12-07-19	PFO	2 00	92.9	PULVERIZER FEEDERS
17-07-19	PFO	3.75	93.0	PULVERIZER FEEDERS
27-07-19	PFO	6 00	93.0	WET COAL (OMC)
27-07-19	PFO	5 00	93.0	WET SCRUBBER - RECYCLE (LIQU D) PUMPS
28-07-19	PFO	54.73	122.0	PULVERIZER FEEDERS
31-07-19	FMO	1.85	712.0	GENERATOR LIQUID COOLING SYSTEM
08-08-19	PFO	12.83	93.0	PULVERIZER FEEDERS
11-08-19	FFO	100.47	712.0	SECOND SUPERHEATER LEAKS
16-08-19	FFO	138.88	712.0	SECOND SUPERHEATER LEAKS
28-08-19	PFO	1.15	92.9	SECOND SUPERHEATER LEAKS
28-08-19	PFO	3 60	474.1	SECOND SUPERHEATER LEAKS
29-08-19	FFO	79 05	712.0	SECOND SUPERHEATER LEAKS
04-09-19	FFO	87.48	712.0	SECOND SUPERHEATER LEAKS
08-09-19	PFO	32 28	284.0	OTHER MISCELLANEOUS BOILER TUBE PROBLEMS
09-09-19	PFO	471 35	129.9	INDUCED DRAFT FANS
26-09-19	PFO	22 00	362.0	LACK OF FUEL (OUTS DE MANAGEMENT CONTROL)

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - September 2019

Crystal River 5

Date	Outage Type	Hours	MW Affected	Description
11-01-19	PFO	1.00	377.0	OTHER PULVERIZER PROBLEMS
23-02-19	PO	1918.02	710.0	BOILER - OTHER INTERNAL AND STRUCTURAL PROBLEMS
13-05-19	FFO	360.93	710.0	GENERATOR ROTOR WINDINGS
29-05-19	FFO	207.48	710.0	GENERATOR ROTOR WINDINGS
09-06-19	PO	0.98	710.0	INDUCED DRAFT FAN MOTORS - VARIABLE SPEED
10-06-19	PFO	6.00	520.0	COAL CONVEYERS AND FEEDERS
10-06-19	PFO	2.48	233.9	COAL CONVEYERS AND FEEDERS
10-06-19	PO	2.30	710.0	INDUCED DRAFT FAN MOTORS - VARIABLE SPEED
10-06-19	FFO	122.83	710.0	FIRST SUPERHEATER LEAKS
16-06-19	PFO	654.57	71.1	HEATER DRAIN PUMP DRIVE
16-06-19	FFO	8.02	710.0	4000-7000-VOLT CIRCUIT BREAKERS
21-06-19	PFO	12.00	210.0	CIRCULATING WATER PIPING
22-06-19	PFO	151.63	0.0	HEATER DRAIN PUMP DRIVE
28-06-19	PFO	122.33	48.0	OTHER MISCELLANEOUS BOILER AIR AND GAS SYSTEM PROBLEMS
02-07-19	PPO	4.92	0.0	PULVERIZER FEEDERS
16-07-19	PFO	22.25	120.0	OTHER MISCELLANEOUS BOILER AIR AND GAS SYSTEM PROBLEMS
18-07-19	PFO	4.00	91.1	PRIMARY AIR FAN
24-07-19	FMO	121.30	710.0	TURBINE MAIN STOP VALVES
30-07-19	FMO	2.40	710.0	TURBINE MAIN STOP VALVES
31-07-19	PFO	9.25	91.0	PULVERIZER FEEDER MOTOR
07-08-19	PFO	6.00	377.0	STARTUP BYPASS SYSTEM VALVES
07-08-19	PFO	422.98	91.0	STARTUP BYPASS SYSTEM VALVES
08-08-19	PPO	4.50	29.0	INDUCED DRAFT FANS
18-08-19	PFO	6.02	191.0	WET COAL (OMC)
01-09-19	PFO	22.33	244.0	CONDENSATE/HOTWELL PUMPS
11-09-19	PFO	24.38	91.0	PULVERIZER FEEDERS
26-09-19	PFO	21.00	539.0	LACK OF FUEL (OUTSIDE MANAGEMENT CONTROL)

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - September 2019

Hines Power Block 1

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 1A	01-01-19	FMO	95.75	163.0	OTHER EXCITER PROBLEMS
HEP 1A	06-01-19	FMO	83.48	163.0	LP TURBINE SHAFT SEALS
HEP 1A	08-02-19	FMO	58.00	163.0	IP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP 1A	03-03-19	PPO	10.00	77.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 1A	05-03-19	PPO	2.08	73.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 1A	11-03-19	FFO	2.98	163.0	FEEDWATER PUMP/DRIVE LUBE OIL SYSTEM
HEP 1A	25-03-19	FFO	0.45	163.0	FEEDWATER CONTROLS
HEP 1A	01-04-19	FFO	6.05	163.0	OTHER TURBINE VALVES
HEP 1A	13-04-19	PO	551.85	163.0	GENERAL GAS TURBINE UNIT INSPECTION
HEP 1A	06-05-19	PO	0.52	163.0	FLASHBACK (INCLUDING INSTRUMENTATION)
HEP 1A	06-05-19	PPO	8.00	21.0	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
HEP 1A	07-05-19	PFO	8.08	17.0	TURBINE CONTROL VALVES
HEP 1A	07-05-19	FMO	16.62	163.0	TURBINE CONTROL VALVES
HEP 1A	17-05-19	PPO	4.00	40.0	BOILER SAFETY VALVE TEST
HEP 1A	31-05-19	PPO	2.00	73.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 1A	10-06-19	PFO	45.00	73.0	GAS TURBINE - COOLING AND SEAL AIR SYSTEM
HEP 1A	28-06-19	FFO	0.83	163.0	FEEDWATER REGULATING (BOILER LEVEL CONTROL) VALVE
HEP 1A	29-06-19	FFO	8.58	163.0	FEEDWATER REGULATING (BOILER LEVEL CONTROL) VALVE
HEP 1A	10-08-19	PPO	6.17	79.0	UNIT AUXILIARIES TRANSFORMER
HEP 1A	25-09-19	FFO	1.55	163.0	OTHER LP STEAM VALVES (INCLUDING VENT AND DRAIN...
HEP 1A	25-09-19	FFO	13.28	163.0	IP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP 1B	01-01-19	FMO	95.75	169.0	OTHER EXCITER PROBLEMS
HEP 1B	06-01-19	FMO	83.00	169.0	LP TURBINE SHAFT SEALS
HEP 1B	09-01-19	FFO	20.00	169.0	GAS TURBINE - CONTROLS AND INSTRUMENTS
HEP 1B	10-01-19	FMO	534.42	169.0	GENERATOR LUBE OIL SYSTEM
HEP 1B	08-02-19	FMO	42.27	169.0	HP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP 1B	10-02-19	FMO	16.73	169.0	HP STARTUP BYPASS INSTRUMENTATION AND CONTROLS

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - September 2019

Hines Power Block 1

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 1B	03-03-19	PPO	10.00	83.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 1B	05-03-19	PPO	2.08	79.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 1B	31-03-19	FFO	40.02	169.0	EMERGENCY GENERATOR TRIP DEVICES
HEP 1B	05-04-19	FFO	16.28	169.0	EMERGENCY GENERATOR TRIP DEVICES
HEP 1B	06-04-19	FFO	8.32	169.0	EMERGENCY GENERATOR TRIP DEVICES
HEP 1B	08-04-19	FFO	60.08	169.0	EMERGENCY GENERATOR TRIP DEVICES
HEP 1B	15-04-19	PO	503.85	169.0	GENERAL GAS TURBINE UNIT INSPECTION
HEP 1B	06-05-19	PO	109.47	169.0	GENERAL GAS TURBINE UNIT INSPECTION
HEP 1B	10-05-19	FFO	0.40	169.0	OTHER GAS TURBINE PROBLEMS
HEP 1B	15-05-19	FFO	11.12	169.0	GAS TURBINE - FUEL PIPING AND VALVES
HEP 1B	16-05-19	FFO	3.00	169.0	GAS TURBINE - CONTROLS AND INSTRUMENTS
HEP 1B	17-05-19	PPO	4.00	47.0	BOILER SAFETY VALVE TEST
HEP 1B	31-05-19	PPO	2.00	79.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 1B	10-06-19	PFO	55.77	79.0	GAS TURBINE COMPRESSOR - BLEED VALVES
HEP 1B	18-06-19	FFO	2.88	169.0	GAS TURBINE - CONTROLS AND INSTRUMENTS
HEP 1B	28-06-19	FFO	89.20	169.0	FEEDWATER PUMP DRIVE - MOTOR
HEP 1B	10-08-19	PPO	6.17	85.0	UNIT AUXILIARIES TRANSFORMER
HEP 1B	13-09-19	PPO	8.00	80.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST1	01-01-19	FMO	95.75	158.0	OTHER EXCITER PROBLEMS
HEP ST1	06-01-19	FMO	92.92	158.0	LP TURBINE SHAFT SEALS
HEP ST1	10-01-19	PFO	525.83	82.0	GENERATOR LUBE OIL SYSTEM
HEP ST1	08-02-19	PFO	15.73	82.0	IP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP ST1	08-02-19	FMO	42.27	158.0	IP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP ST1	10-02-19	FMO	18.42	158.0	HP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP ST1	03-03-19	PPO	10.00	45.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST1	05-03-19	PPO	2.08	46.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST1	11-03-19	PFO	2.98	79.0	FEEDWATER PUMP/DRIVE LUBE OIL SYSTEM

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - September 2019

Hines Power Block 1

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP ST1	31-03-19	PFO	22.63	86.0	EMERGENCY GENERATOR TRIP DEVICES
HEP ST1	01-04-19	FFO	6.10	158.0	OTHER TURBINE VALVES
HEP ST1	05-04-19	PFO	16.28	78.0	EMERGENCY GENERATOR TRIP DEVICES
HEP ST1	06-04-19	PMO	8.08	78.0	EMERGENCY GENERATOR TRIP DEVICES
HEP ST1	08-04-19	PFO	60.08	78.0	EMERGENCY GENERATOR TRIP DEVICES
HEP ST1	15-04-19	PO	359.85	158.0	GENERAL GAS TURBINE UNIT INSPECTION
HEP ST1	01-05-19	PO	108.00	158.0	GENERAL GAS TURBINE UNIT INSPECTION
HEP ST1	05-05-19	PO	16.72	158.0	TURBINE HYDRAULIC SYSTEM FILTERS
HEP ST1	06-05-19	PPO	8.00	92.0	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
HEP ST1	07-05-19	PFO	8.08	86.0	TURBINE CONTROL VALVES
HEP ST1	07-05-19	FMO	18.87	158.0	TURBINE CONTROL VALVES
HEP ST1	08-05-19	FFO	1.80	158.0	TURBINE TRIP DEVICES (INCLUDING INSTRUMENTS)
HEP ST1	08-05-19	FFO	0.78	158.0	TURBINE TRIP DEVICES (INCLUDING INSTRUMENTS)
HEP ST1	17-05-19	PPO	4.00	16.0	BOILER SAFETY VALVE TEST
HEP ST1	31-05-19	PPO	2.00	45.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST1	10-06-19	PFO	55.77	14.0	GAS TURBINE COMPRESSOR - BLEED VALVES
HEP ST1	28-06-19	PFO	89.27	0.0	FEEDWATER PUMP DRIVE - MOTOR
HEP ST1	28-06-19	FFO	2.58	158.0	OTHER DISTRIBUTIVE CONTROL SYSTEM PROBLEMS
HEP ST1	29-06-19	FFO	11.28	158.0	TURBINE - MISCELLANEOUS DRAIN AND VENT VALVES
HEP ST1	10-08-19	PPO	6.17	40.0	UNIT AUXILIARIES TRANSFORMER
HEP ST1	13-09-19	PPO	8.00	47.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - September 2019

Hines Power Block 2

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 2A	01-01-19	FFO	4.50	166.3	OTHER MISC. OPERATIONAL ENVIRONMENTAL LIMITS - GAS
HEP 2A	08-02-19	PPO	4.50	60.3	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
HEP 2A	02-03-19	PO	331.28	166.3	OTHER MISCELLANEOUS BALANCE OF PLANT PROBLEMS
HEP 2A	27-03-19	FMO	7.00	166.3	OTHER CONDENSING SYSTEM CONTROLS AND INSTRUMENTS
HEP 2A	04-05-19	PPO	1.50	65.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 2A	01-06-19	PPO	4.00	123.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 2A	11-07-19	PPO	6.33	61.3	GAS TURBINE PERFORMANCE TESTING - INDIVID. ENGINES
HEP 2A	10-08-19	PPO	6.17	76.3	UNIT AUXILIARIES TRANSFORMER
HEP 2A	16-08-19	PPO	4.08	63.3	UNIT AUXILIARIES TRANSFORMER
HEP 2A	16-09-19	FFO	10.93	166.3	GAS TURBINE - FIRE DETECTION AND EXTINGUISHING SYS
HEP 2B	01-01-19	FFO	4.53	174.3	OTHER MISC. OPERATIONAL ENVIRONMENTAL LIMITS - GAS
HEP 2B	08-02-19	PPO	4.50	68.3	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
HEP 2B	02-03-19	PO	331.28	174.3	OTHER MISCELLANEOUS BALANCE OF PLANT PROBLEMS
HEP 2B	27-03-19	FMO	7.00	174.3	OTHER CONDENSING SYSTEM CONTROLS AND INSTRUMENTS
HEP 2B	04-05-19	PPO	1.50	73.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 2B	01-06-19	PPO	4.00	131.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 2B	11-07-19	PPO	6.33	84.3	GAS TURBINE PERFORMANCE TESTING - INDIVID. ENGINES
HEP 2B	10-08-19	PPO	6.17	84.3	UNIT AUXILIARIES TRANSFORMER
HEP 2B	16-08-19	PPO	4.08	71.4	UNIT AUXILIARIES TRANSFORMER
HEP 2B	12-09-19	FMO	2.00	174.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST2	01-01-19	FFO	5.47	171.3	OTHER MISC. OPERATIONAL ENVIRONMENTAL LIMITS - GAS
HEP ST2	08-02-19	PPO	4.50	25.4	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
HEP ST2	02-03-19	PO	331.28	171.3	OTHER MISCELLANEOUS BALANCE OF PLANT PROBLEMS
HEP ST2	27-03-19	FMO	7.00	171.3	OTHER CONDENSING SYSTEM CONTROLS AND INSTRUMENTS
HEP ST2	04-05-19	PPO	1.50	31.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST2	01-06-19	PPO	4.00	123.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST2	11-07-19	PPO	6.33	33.3	GAS TURBINE PERFORMANCE TESTING - INDIVID. ENGINES

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - September 2019

Hines Power Block 2

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP ST2	10-08-19	PPO	6.17	37.3	UNIT AUXILIARIES TRANSFORMER
HEP ST2	16-08-19	PPO	4.08	36.3	UNIT AUXILIARIES TRANSFORMER

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - September 2019

Hines Power Block 3

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 3A	06-03-19	PPO	1.00	64.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 3A	03-04-19	FMO	6.42	173.3	DC PROTECTION DEVICES
HEP 3A	19-04-19	PPO	9.83	67.3	CLOSED COOLING WATER HEAT EXCHANGERS
HEP 3A	20-04-19	PPO	9.00	69.3	CLOSED COOLING WATER HEAT EXCHANGERS
HEP 3A	09-05-19	PPO	3.00	64.4	BOILER SAFETY VALVE TEST
HEP 3A	30-05-19	PPO	2.17	68.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 3A	05-06-19	PPO	8.00	130.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 3A	11-06-19	FFO	3.92	173.3	TURBINE TRIP DEVICES (INCLUDING INSTRUMENTS)
HEP 3A	16-06-19	PFO	5.50	73.3	FEEDWATER REGULATING (BOILER LEVEL CONTROL) VALVE
HEP 3A	01-07-19	FFO	10.40	173.3	GAS TURBINE - LUBE OIL SYSTEM - GENERAL
HEP 3A	11-09-19	PPO	5.00	47.4	MAIN STEAM RELIEF/SAFETY VALVES
HEP 3A	16-09-19	PPO	3.00	61.4	REACTIVE AND CAPABILITY TESTING
HEP 3A	20-09-19	FMO	0.00	0.0	LIQUID FUEL PURGE SYSTEM
HEP 3A	25-09-19	FFO	13.00	173.3	BLOWDOWN SYSTEM CONTROLS
HEP 3A	26-09-19	FFO	9.37	173.3	SCR NOX AMMONIA TANKS; PIPING & VALVES (NO INJECT)
HEP 3B	31-01-19	FFO	9.70	173.3	GAS TURBINE - CONTROLS AND INSTRUMENTS
HEP 3B	06-03-19	PPO	1.00	64.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 3B	03-04-19	FMO	2.67	173.3	DC PROTECTION DEVICES
HEP 3B	19-04-19	PPO	9.83	67.3	CLOSED COOLING WATER HEAT EXCHANGERS
HEP 3B	20-04-19	PPO	9.00	69.3	CLOSED COOLING WATER HEAT EXCHANGERS
HEP 3B	22-04-19	FFO	15.68	173.3	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
HEP 3B	25-04-19	FFO	56.88	173.3	FUEL GAS COMPRESSOR HEAT EXCHANGERS
HEP 3B	07-05-19	PPO	1.00	65.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 3B	09-05-19	PPO	3.00	64.4	BOILER SAFETY VALVE TEST
HEP 3B	30-05-19	PPO	2.17	68.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 3B	05-06-19	PPO	8.00	130.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 3B	03-08-19	FMO	10.27	173.3	SCR NOX AMMONIA INJECTION GRID PIPING/VALVES

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Hines Power Block 3

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 3B	11-09-19	PPO	5.00	47.4	MAIN STEAM RELIEF/SAFETY VALVES
HEP 3B	16-09-19	PPO	3.00	61.4	REACTIVE AND CAPABILITY TESTING
HEP 3B	25-09-19	FFO	13.00	173.3	BLOWDOWN SYSTEM CONTROLS
HEP 3B	26-09-19	FFO	0.12	173.3	GAS TURBINE - CONTROLS AND INSTRUMENTS
HEP ST3	31-01-19	PFO	9.70	75.3	GAS TURBINE - CONTROLS AND INSTRUMENTS
HEP ST3	06-03-19	PPO	1.00	28.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST3	19-04-19	PPO	9.83	27.3	CLOSED COOLING WATER HEAT EXCHANGERS
HEP ST3	20-04-19	PPO	9.00	29.3	CLOSED COOLING WATER HEAT EXCHANGERS
HEP ST3	22-04-19	PFO	15.67	84.3	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
HEP ST3	25-04-19	PFO	56.88	79.3	FUEL GAS COMPRESSOR HEAT EXCHANGERS
HEP ST3	07-05-19	PPO	1.00	34.4	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST3	09-05-19	PPO	3.00	34.3	BOILER SAFETY VALVE TEST
HEP ST3	30-05-19	PPO	2.17	37.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST3	05-06-19	PPO	8.00	121.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST3	11-06-19	FFO	6.25	169.3	TURBINE TRIP DEVICES (INCLUDING INSTRUMENTS)
HEP ST3	16-06-19	PFO	5.50	26.3	FEEDWATER REGULATING (BOILER LEVEL CONTROL) VALVE
HEP ST3	03-08-19	FMO	10.48	169.3	SCR NOX AMMONIA INJECTION GRID PIPING/VALVES
HEP ST3	11-09-19	PPO	5.00	11.3	MAIN STEAM RELIEF/SAFETY VALVES
HEP ST3	16-09-19	PPO	3.00	23.3	REACTIVE AND CAPABILITY TESTING
HEP ST3	25-09-19	FFO	13.00	169.3	BLOWDOWN SYSTEM CONTROLS
HEP ST3	26-09-19	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	22-01-19	PPO	1.50	75.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4A	23-01-19	PPO	3.00	72.0	DISTRIBUTIVE CONTROL SYSTEM - PROCESS COMPUTER
HEP 4A	28-01-19	PPO	2.00	70.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4A	01-03-19	PFO	8.50	42.0	CIRCULATING WATER PUMP MOTORS
HEP 4A	06-03-19	PPO	0.92	76.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4A	05-05-19	PPO	0.98	73.9	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4A	24-05-19	PPO	4.27	76.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4A	31-05-19	FFO	6.50	176.0	GAS TURBINE - LUBE OIL PUMPS
HEP 4A	15-06-19	FFO	28.17	176.0	TURBINE HYDRAULIC SYSTEM PIPES AND VALVES
HEP 4A	19-06-19	FFO	11.97	176.0	TURBINE TURNING GEAR AND MOTOR
HEP 4A	20-06-19	FFO	4.68	176.0	IP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP 4A	19-07-19	FFO	6.07	176.0	CONDENSATE/HOTWELL PUMPS
HEP 4A	19-07-19	FFO	32.42	176.0	HP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP 4A	21-07-19	FFO	47.20	176.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4A	23-07-19	FFO	77.25	176.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4A	26-07-19	FFO	26.02	176.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4A	28-07-19	FFO	46.97	176.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4A	16-08-19	FMO	10.00	176.0	PROTECTION DEVICES
HEP 4A	01-09-19	FFO	1.93	176.0	CONDENSATE/HOTWELL PUMPS
HEP 4B	20-01-19	FFO	0.08	175.0	HP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP 4B	20-01-19	FFO	5.85	175.0	HP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP 4B	20-01-19	FFO	5.80	175.0	HP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP 4B	22-01-19	PPO	1.50	74.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4B	28-01-19	PPO	2.00	69.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4B	24-02-19	FFO	4.00	175.0	GAS TURBINE - IGNITION SYSTEM
HEP 4B	01-03-19	PFO	8.50	41.0	CIRCULATING WATER PUMP MOTORS
HEP 4B	06-03-19	PPO	0.92	76.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS

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Hines Power Block 4

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 4B	05-05-19	PPO	0.50	73.2	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4B	24-05-19	PPO	4.27	75.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4B	16-06-19	FFO	27.58	175.0	TURBINE HYDRAULIC SYSTEM PIPES AND VALVES
HEP 4B	20-06-19	FFO	19.55	175.0	OTHER MISCELLANEOUS STEAM TURBINE PROBLEMS
HEP 4B	21-06-19	FFO	3.65	175.0	TURBINE CONTROL VALVES
HEP 4B	19-07-19	FFO	19.87	175.0	CONDENSATE/HOTWELL PUMPS
HEP 4B	21-07-19	FFO	8.80	175.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4B	22-07-19	FFO	196.68	175.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4B	16-08-19	FMO	10.00	175.0	PROTECTION DEVICES
HEP 4B	01-09-19	FFO	1.97	175.0	CONDENSATE/HOTWELL PUMPS
HEP ST4	22-01-19	PPO	1.50	21.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST4	23-01-19	PPO	3.00	91.0	DISTRIBUTIVE CONTROL SYSTEM - PROCESS COMPUTER
HEP ST4	28-01-19	PPO	2.00	18.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST4	24-02-19	PMO	4.00	78.0	GAS TURBINE - IGNITION SYSTEM
HEP ST4	01-03-19	PFO	8.50	33.0	CIRCULATING WATER PUMP MOTORS
HEP ST4	06-03-19	PPO	743.92	21.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST4	05-05-19	PPO	1.00	22.9	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST4	24-05-19	PPO	4.27	29.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST4	31-05-19	PFO	6.50	55.0	GAS TURBINE - LUBE OIL PUMPS
HEP ST4	16-06-19	FFO	27.58	165.0	TURBINE HYDRAULIC SYSTEM PIPES AND VALVES
HEP ST4	20-06-19	FFO	0.78	165.0	TURBINE WATER INDUCTION
HEP ST4	20-06-19	FFO	5.48	165.0	OTHER GAS TURBINE PROBLEMS
HEP ST4	20-06-19	FFO	0.87	165.0	TURBINE WATER INDUCTION
HEP ST4	19-07-19	FFO	21.18	165.0	CONDENSATE/HOTWELL PUMPS
HEP ST4	21-07-19	FFO	203.88	165.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST4	16-08-19	FMO	10.00	165.0	PROTECTION DEVICES
HEP ST4	01-09-19	FFO	2.02	165.0	CONDENSATE/HOTWELL PUMPS