



Matthew R. Bernier
ASSOCIATE GENERAL COUNSEL

January 30, 2019

VIA ELECTRONIC FILING

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

Re: *Performance Data Report for December 2018*
Docket No. 20190001-EI

Dear Mr. Teitzman:

Attached for electronic filing in the above Docket is Duke Energy Florida, LLC's Performance Data Report for December 2018.

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: Daniel Lee, Division of Engineering, FPSC

CERTIFICATE OF SERVICE

Docket No. 20190001-EI

I HEREBY CERTIFY that a true copy of Performance Data Report for the month of December 2018 has been furnished to the following individuals via e-mail on this 30th day of January, 2019.

/s/ Matthew R. Bernier

Attorney

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Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2018

Bartow CC	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan - Dec Period
1. EAF	100.00	99.71	83.44	99.07	90.94	81.24	80.39	90.71	97.50	100.00	93.43	88.22	91.99
2. PH	744	672	743	720	744	720	744	744	720	744	721	744	8,760
3. SH	723.1	576.0	617.3	699.2	660.7	586.4	601.2	675.8	702.7	708.6	654.3	605.9	7,811.2
4. RSH	20.9	95.7	13.3	14.1	16.0	7.1	7.6	5.2	0.5	35.4	23.9	55.2	294.9
5. UH	0.0	0.3	112.4	6.7	67.4	126.4	135.2	63.0	16.8	0.0	42.7	82.9	653.9
6. POH	0.0	0.0	111.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.0	23.4	161.0
7. FOH	0.0	0.3	0.8	6.7	67.4	126.4	135.2	63.0	6.6	0.0	5.1	41.0	452.5
8. MOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.2	0.0	11.6	18.5	40.3
9. PPOH	0.0	0.0	64.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.4	0.0	111.5
10. LR PP (MW)	0.0	0.0	178.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.0	0.0	131.1
11. PFOH	0.0	15.1	0.0	0.0	0.0	229.2	247.9	139.5	19.3	0.0	6.1	75.7	732.7
12. LR PF (MW)	0.0	120.0	0.0	0.0	0.0	40.8	46.4	47.2	67.0	0.0	67.0	67.0	49.1
13. PMOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.3	0.0	21.3
14. LR PM (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.0	0.0	67.0
15. NSC (MW)	1080	1080	1080	1080	1080	1080	1080	1080	1080	1080	1080	1080	1080
16. OPER MBTU	4,808,629	3,821,765	4,534,493	5,087,891	4,578,391	4,024,793	4,218,831	4,702,160	5,000,877	5,101,315	4,571,596	3,942,161	54,392,901
17. NET GEN (MWH)	627,889	499,274	535,332	670,047	575,313	532,174	548,354	612,491	654,739	674,976	597,846	514,812	7,043,247
18. ANOHR (BTU/KWH)	7,658.4	7,654.6	8,470.4	7,593.3	7,958.1	7,562.9	7,693.6	7,677.1	7,638.0	7,557.8	7,646.8	7,657.5	7,722.7
19. NOF (%)	80.40	80.26	80.30	88.73	80.63	84.03	84.46	83.92	86.27	88.20	84.60	78.68	83.49
20. NPC (MW)	1080	1080	1080	1080	1080	1080	1080	1080	1080	1080	1080	1080	1080

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2018

CRYSTAL RIVER 4	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan - Dec Period
1. EAF	95.73	99.52	6.43	65.82	81.03	90.51	88.76	99.77	86.97	97.83	65.93	97.43	81.21
2. PH	744	672	743	720	744	720	744	744	720	744	721	744	8,760
3. SH	744.0	672.0	47.8	482.3	615.0	654.3	665.6	744.0	637.7	744.0	236.7	313.8	6,557.1
4. RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	248.0	414.5	662.5
5. UH	0.0	0.0	695.2	237.7	129.0	65.8	78.5	0.0	82.3	0.0	236.4	15.7	1,540.4
6. POH	0.0	0.0	695.2	211.0	0.0	0.0	0.0	0.0	0.0	0.0	149.0	15.7	1,070.9
7. FOH	0.0	0.0	0.0	24.6	129.0	65.8	78.5	0.0	0.0	0.0	87.4	0.0	385.2
8. MOH	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	82.3	0.0	0.0	0.0	84.3
9. PPOH	0.6	4.0	0.0	0.0	0.0	5.3	4.1	4.3	0.0	111.4	62.9	0.0	192.6
10. LR PP (MW)	555.0	426.0	0.0	0.0	0.0	350.2	93.1	93.0	0.0	100.2	105.5	0.0	116.7
11. PFOH	65.7	6.5	0.0	6.0	39.7	0.0	20.4	8.1	125.7	2.0	0.0	11.7	285.8
12. LR PF (MW)	339.0	93.0	0.0	93.0	106.8	0.0	161.4	99.5	63.1	93.0	0.0	209.9	148.2
13. PMOH	0.0	0.0	0.0	34.1	13.4	0.0	0.0	0.0	3.0	0.5	0.0	0.0	50.9
14. LR PM (MW)	0.0	0.0	0.0	160.0	331.0	0.0	0.0	0.0	93.0	284.0	0.0	0.0	202.1
15. NSC (MW)	712	712	712	712	712	712	712	712	712	712	712	712	712
16. OPER MBTU	4,015,993	3,240,899	222,277	2,320,777	3,054,194	3,469,320	3,871,499	4,473,772	3,639,986	4,299,907	1,374,567	1,980,857	35,964,047
17. NET GEN (MWH)	413,001	321,886	22,657	218,186	299,484	342,469	391,864	450,913	359,989	440,456	136,228	204,395	3,601,528
18. ANOHR (BTU/KWH)	9,723.9	10,068.5	9,810.5	10,636.7	10,198.2	10,130.3	9,879.7	9,921.6	10,111.4	9,762.4	10,090.2	9,691.3	9,985.8
19. NOF (%)	77.96	67.27	66.60	63.53	68.39	73.52	82.69	85.12	79.29	83.15	80.84	91.48	77.14
20. NPC (MW)	712	712	712	712	712	712	712	712	712	712	712	712	712

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2018

CRYSTAL RIVER 5	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan - Dec Period
1. EAF	97.92	97.07	97.93	49.56	79.30	99.11	38.70	99.53	100.00	97.60	95.88	83.29	86.24
2. PH	744	672	743	720	744	720	744	744	720	744	721	744	8,760
3. SH	744.0	668.0	730.3	368.4	627.7	718.3	293.5	744.0	720.0	744.0	700.1	636.3	7,694.5
4. RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5. UH	0.0	4.0	12.7	351.6	116.3	1.8	450.5	0.0	0.0	0.0	21.0	107.7	1,065.5
6. POH	0.0	0.0	0.0	351.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	351.6
7. FOH	0.0	0.0	12.7	0.0	116.3	0.0	450.5	0.0	0.0	0.0	21.0	0.0	600.4
8. MOH	0.0	4.0	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	107.7	113.5
9. PPOH	2.0	0.0	0.0	90.1	279.5	9.9	0.0	12.9	0.0	124.7	16.8	1.3	537.0
10. LR PP (MW)	91.0	0.0	0.0	91.0	90.5	91.0	0.0	156.9	0.0	101.6	91.0	388.0	95.5
11. PFOH	36.5	0.0	5.0	0.0	3.0	2.8	16.8	1.5	0.0	0.0	19.5	59.4	144.4
12. LR PF (MW)	296.0	0.0	377.0	0.0	496.0	90.8	236.2	53.0	0.0	0.0	240.5	187.8	237.5
13. PMOH	0.0	22.5	0.0	0.0	0.0	23.8	0.0	4.5	0.0	0.0	0.0	1.8	52.7
14. LR PM (MW)	0.0	496.0	0.0	0.0	0.0	91.0	0.0	90.9	0.0	0.0	0.0	91.2	264.0
15. NSC (MW)	710	710	710	710	710	710	710	710	710	710	710	710	710
16. OPER MBTU	4,144,476	3,158,789	3,800,740	1,868,760	2,793,588	3,835,936	1,665,160	3,991,755	3,924,950	3,924,692	3,962,015	3,354,162	40,425,021
17. NET GEN (MWH)	429,919	314,067	386,624	173,240	262,152	378,749	162,511	406,473	390,915	394,687	389,819	344,040	4,033,196
18. ANOHR (BTU/KWH)	9,640.1	10,057.7	9,830.6	10,787.1	10,656.4	10,127.9	10,246.4	9,820.5	10,040.4	9,943.8	10,163.7	9,749.3	10,023.1
19. NOF (%)	81.39	66.22	74.56	66.23	58.82	74.27	77.98	76.95	76.47	74.72	78.43	76.15	73.83
20. NPC (MW)	710	710	710	710	710	710	710	710	710	710	710	710	710

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2018

HINES Power Block 1	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan - Dec Period
1. EAF	98.04	99.99	48.88	68.76	96.33	95.08	97.93	95.56	99.77	88.59	96.73	92.93	89.80
2. PH	744	672	743	720	744	720	744	744	720	744	721	744	8,760
3. SH	714.5	672.0	363.7	495.0	704.7	685.2	732.3	715.1	720.0	580.8	621.7	61.6	7,066.6
4. RSH	16.7	0.0	0.1	0.0	16.0	0.0	0.0	2.8	0.0	78.3	75.7	632.4	821.9
5. UH	12.9	0.0	379.3	224.9	23.3	34.8	11.7	26.2	0.0	84.9	23.6	49.9	871.4
6. POH	0.0	0.0	359.9	224.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	584.8
7. FOH	12.9	0.0	19.4	0.0	10.8	34.8	0.0	7.4	0.0	3.5	23.6	0.0	112.3
8. MOH	0.0	0.0	0.0	0.0	12.5	0.0	11.7	18.8	0.0	81.4	0.0	49.9	174.4
9. PPOH	0.0	0.8	0.0	0.0	6.0	0.0	19.3	25.5	12.1	0.0	0.0	0.0	63.6
10. LR PP (MW)	0.0	50.6	0.0	0.0	77.9	0.0	66.7	79.2	66.2	0.0	0.0	0.0	72.5
11. PFOH	12.4	0.0	3.6	0.0	10.4	4.3	10.9	22.5	0.0	0.0	0.0	18.1	82.2
12. LR PF (MW)	69.8	0.0	76.6	0.0	67.6	69.1	51.6	61.4	0.0	0.0	0.0	73.6	65.9
13. PMOH	0.0	0.0	0.0	0.0	11.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.9
14. LR PM (MW)	0.0	0.0	0.0	0.0	67.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.6
15. NSC (MW)	495	495	495	495	495	495	495	495	495	495	495	495	495
16. OPER MBTU	2,318,447	2,219,815	1,223,092	1,644,308	2,242,655	2,321,872	2,490,175	2,347,965	2,433,049	1,834,526	1,852,459	152,454	23,080,816
17. NET GEN (MWH)	321,975	304,049	166,322	225,245	306,258	314,667	339,141	320,728	332,410	250,688	254,813	19,132	3,155,428
18. ANOHR (BTU/KWH)	7,200.7	7,300.8	7,353.8	7,300.1	7,322.8	7,378.8	7,342.6	7,320.7	7,319.4	7,318.0	7,269.9	7,968.5	7,314.6
19. NOF (%)	91.04	91.40	92.39	91.92	87.80	92.78	93.56	90.61	93.27	87.20	82.80	62.71	90.21
20. NPC (MW)	495	495	495	495	495	495	495	495	495	495	495	495	495

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2018

HINES Power Block 2	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan - Dec Period
1. EAF	100.00	99.39	90.43	43.47	94.38	99.97	99.66	99.42	100.00	100.00	96.46	97.28	93.42
2. PH	744	672	743	720	744	720	744	744	720	744	721	744	8,760
3. SH	693.3	464.5	669.7	313.0	703.7	720.0	742.2	741.0	720.0	712.9	625.3	285.0	7,390.7
4. RSH	50.7	204.0	2.2	0.0	0.6	0.0	0.0	0.0	0.0	31.1	73.6	438.8	801.1
5. UH	0.0	3.5	71.1	407.0	39.7	0.0	1.8	3.0	0.0	0.0	22.1	20.1	568.2
6. POH	0.0	0.0	0.0	407.0	33.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	440.7
7. FOH	0.0	3.5	71.1	0.0	6.0	0.0	1.8	0.0	0.0	0.0	0.0	20.1	102.5
8. MOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	22.1	0.0	25.1
9. PPOH	0.0	0.0	0.0	0.0	8.5	1.8	3.9	7.8	0.0	0.0	0.0	1.0	22.8
10. LR PP (MW)	0.0	0.0	0.0	0.0	63.9	65.4	58.9	57.7	0.0	0.0	0.0	61.7	61.0
11. PFOH	0.0	3.4	0.0	0.0	6.2	0.0	1.8	0.0	0.0	0.0	0.0	0.0	11.4
12. LR PF (MW)	0.0	92.3	0.0	0.0	91.0	0.0	86.2	0.0	0.0	0.0	0.0	0.0	90.6
13. PMOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	0.0	22.8	0.0	25.7
14. LR PM (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	94.4	0.0	0.0	80.3	0.0	81.9
15. NSC (MW)	527	527	527	527	527	527	527	527	527	527	527	527	527
16. OPER MBTU	2,282,848	1,421,231	2,365,022	1,097,825	2,362,778	2,544,480	2,712,733	2,660,024	2,585,795	2,491,923	1,927,826	862,539	25,315,023
17. NET GEN (MWH)	314,763	201,941	323,728	148,433	318,884	340,617	364,250	362,461	348,781	341,025	259,988	114,555	3,439,426
18. ANOHR (BTU/KWH)	7,252.6	7,037.9	7,305.6	7,396.1	7,409.5	7,470.2	7,447.4	7,338.8	7,413.8	7,307.2	7,415.1	7,529.5	7,360.2
19. NOF (%)	86.15	82.49	91.73	89.99	85.98	89.77	93.12	92.81	91.92	90.77	78.90	76.26	88.31
20. NPC (MW)	527	527	527	527	527	527	527	527	527	527	527	527	527

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2018

HINES Power Block 3	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan - Dec Period
1. EAF	99.51	99.62	98.60	97.89	96.11	99.90	97.99	99.11	93.49	5.24	99.80	100.00	90.45
2. PH	744	672	743	720	744	720	744	744	720	744	721	744	8,760
3. SH	478.3	413.2	598.2	705.8	710.6	720.0	732.0	739.5	673.5	39.0	606.0	706.7	7,122.7
4. RSH	262.5	256.5	135.9	1.4	11.6	0.0	0.0	0.0	0.0	0.0	113.6	37.3	818.7
5. UH	3.2	2.3	9.0	12.8	21.9	0.0	12.1	4.5	46.5	705.0	1.4	0.0	818.6
6. POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46.5	704.8	1.4	0.0	752.7
7. FOH	3.2	2.3	0.8	0.0	0.0	0.0	0.0	4.5	0.0	0.2	0.0	0.0	11.0
8. MOH	0.0	0.0	8.1	12.8	21.9	0.0	12.1	0.0	0.0	0.0	0.0	0.0	54.9
9. PPOH	0.0	1.0	0.0	5.0	8.4	8.0	10.7	14.5	6.2	0.0	0.0	0.0	53.8
10. LR PP (MW)	0.0	59.1	0.0	41.8	42.1	47.8	45.3	48.6	30.6	0.0	0.0	0.0	44.3
11. PFOH	2.9	1.1	1.0	0.0	39.4	0.0	0.0	4.4	0.0	0.0	0.0	0.0	48.8
12. LR PF (MW)	81.0	81.0	81.3	0.0	64.7	0.0	0.0	86.0	0.0	0.0	0.0	0.0	68.3
13. PMOH	0.0	0.0	7.9	12.5	9.1	0.0	11.8	0.0	0.0	0.0	0.0	0.0	41.3
14. LR PM (MW)	0.0	0.0	83.0	81.7	84.0	0.0	87.0	0.0	0.0	0.0	0.0	0.0	83.9
15. NSC (MW)	521	521	521	521	521	521	521	521	521	521	521	521	521
16. OPER MBTU	1,547,605	1,321,596	1,931,761	2,329,506	2,328,108	2,402,780	2,486,811	2,579,596	2,340,526	101,869	1,932,659	2,310,749	23,613,567
17. NET GEN (MWH)	207,822	179,431	273,608	325,098	327,585	341,385	354,820	357,834	326,866	12,658	269,105	313,285	3,289,497
18. ANOHR (BTU/KWH)	7,446.8	7,365.5	7,060.3	7,165.6	7,106.9	7,038.3	7,008.7	7,208.9	7,160.5	8,047.8	7,181.8	7,375.9	7,178.5
19. NOF (%)	83.40	83.34	87.79	88.41	88.49	91.01	93.04	92.88	93.15	62.28	85.24	85.09	88.64
20. NPC (MW)	521	521	521	521	521	521	521	521	521	521	521	521	521

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2018

HINES Power Block 4	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan - Dec Period
1. EAF	98.03	99.97	99.99	97.21	99.74	99.51	98.46	96.04	99.99	100.00	45.50	68.65	91.92
2. PH	744	672	743	720	744	720	744	744	720	744	721	744	8,760
3. SH	574.2	630.0	743.0	697.7	744.0	719.0	734.9	715.3	720.0	640.2	0.0	436.6	7,355.0
4. RSH	156.8	42.0	0.0	4.8	0.0	0.0	0.0	5.4	0.0	103.8	328.0	76.7	717.5
5. UH	13.0	0.0	0.0	17.5	0.0	1.0	9.1	23.3	0.0	0.0	393.0	230.7	687.5
6. POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	393.0	194.5	587.4
7. FOH	13.0	0.0	0.0	0.0	0.0	1.0	5.0	22.3	0.0	0.0	0.0	36.2	77.5
8. MOH	0.0	0.0	0.0	17.5	0.0	0.0	4.1	1.0	0.0	0.0	0.0	0.0	22.6
9. PPOH	0.5	2.1	1.0	0.0	16.1	21.0	10.3	20.9	1.0	0.0	0.0	0.0	72.8
10. LR PP (MW)	50.1	50.9	47.7	0.0	58.1	55.8	54.5	54.4	45.7	0.0	0.0	0.0	55.3
11. PFOH	12.0	0.0	0.0	0.0	0.6	1.0	4.7	57.3	0.0	0.0	0.0	19.4	95.0
12. LR PF (MW)	69.2	0.0	0.0	0.0	54.3	76.2	71.1	34.8	0.0	0.0	0.0	67.2	48.1
13. PMOH	0.0	0.0	0.0	16.5	0.0	0.0	3.8	0.0	0.0	0.0	0.0	0.0	20.4
14. LR PM (MW)	0.0	0.0	0.0	78.1	0.0	0.0	79.1	0.0	0.0	0.0	0.0	0.0	78.3
15. NSC (MW)	504	504	504	504	504	504	504	504	504	504	504	504	504
16. OPER MBTU	1,859,462	1,997,841	2,490,044	2,248,954	2,465,014	2,421,836	2,497,460	2,367,658	2,446,225	2,157,252	0	1,279,382	24,231,126
17. NET GEN (MWH)	268,522	289,609	367,086	320,318	349,474	344,155	354,748	336,121	353,302	313,343	0	187,156	3,483,834
18. ANOHR (BTU/KWH)	6,924.8	6,898.4	6,783.3	7,021.0	7,053.5	7,037.1	7,040.1	7,044.1	6,923.9	6,884.6	0.0	6,835.9	6,955.3
19. NOF (%)	92.78	91.21	98.03	91.09	93.20	94.98	95.77	93.24	97.36	97.12	0.00	85.05	93.98
20. NPC (MW)	504	504	504	504	504	504	504	504	504	504	504	504	504

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - December 2018

Bartow CC

Unit	Date	Outage Type	Hours	MW Affected	Description
BCC 4A	2/2/2018	FFO	1.47	185.0	OTHER GAS TURBINE PROBLEMS
BCC 4A	3/10/2018	PO	191.00	185.0	GAS TURBINE - BOROSCOPE INSPECTION
BCC 4A	7/31/2018	FFO	0.78	185.0	GAS TURBINE - COOLING AND SEAL AIR SYSTEM
BCC 4A	9/7/2018	FFO	1.37	185.0	OPERATOR ERROR
BCC 4A	11/1/2018	FMO	67.77	185.0	BLOWDOWN SYSTEM VALVES
BCC 4B	3/17/2018	PO	13.33	183.0	OTHER GAS TURBINE PROBLEMS
BCC 4B	3/18/2018	FFO	1.73	183.0	BLADE PATH TEMPERATURE SPREAD
BCC 4B	3/18/2018	FFO	2.85	183.0	BLADE PATH TEMPERATURE SPREAD
BCC 4B	9/6/2018	FFO	37.65	183.0	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
BCC 4B	9/8/2018	FMO	60.05	183.0	HP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
BCC 4B	11/30/2018	FFO	11.55	183.0	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
BCC 4B	12/2/2018	PO	137.97	183.0	GAS TURBINE - BOROSCOPE INSPECTION
BCC 4B	12/12/2018	FFO	45.22	183.0	CEMS - CO ANALYZER PROBLEMS
BCC 4B	12/15/2018	FFO	15.17	183.0	GAS TURBINE - STARTING SYSTEM (INCLUDING MOTOR)
BCC 4B	12/24/2018	FFO	180.63	183.0	GAS TURBINE - STARTING SYSTEM (INCLUDING MOTOR)
BCC 4C	5/20/2018	FFO	2098.83	187.0	GEN. STATOR WINDINGS; BUSHINGS; AND TERMINALS
BCC 4C	11/4/2018	FFO	19.32	187.0	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
BCC 4D	6/28/2018	FFO	10.30	186.0	GAS TURBINE - FIRE DETECTION AND EXTINGUISHING SYS
BCC 4D	7/22/2018	FFO	36.48	186.0	GAS TURBINE - CONTROLS AND INSTRUMENTS
BCC 4D	11/16/2018	PO	150.97	186.0	GAS TURBINE - BOROSCOPE INSPECTION
BCC 4D	12/19/2018	FMO	107.57	186.0	PILOT FUEL PIPING AND VALVES
BCC 4S	2/7/2018	PFO	19.53	120.0	FEEDWATER CHEMISTRY
BCC 4S	2/9/2018	PFO	28.55	120.0	FEEDWATER CHEMISTRY
BCC 4S	3/10/2018	PPO	191.00	191.0	GAS TURBINE - BOROSCOPE INSPECTION
BCC 4S	3/17/2018	PPO	13.33	0.0	OTHER GAS TURBINE PROBLEMS
BCC 4S	3/18/2018	PO	244.28	339.0	CIRCULATING WATER CHEMISTRY
BCC 4S	4/30/2018	FFO	86.50	339.0	OTHER MAIN STEAM VALVES (INCLUDING VENT AND DRAIN.

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - December 2018

Bartow CC

Unit	Date	Outage Type	Hours	MW Affected	Description
BCC 4S	6/1/2018	PFO	1828.02	40.5	GEN. STATOR WINDINGS; BUSHINGS; AND TERMINALS
BCC 4S	6/28/2018	PFO	10.30	63.5	GAS TURBINE - FIRE DETECTION AND EXTINGUISHING SYS
BCC 4S	7/22/2018	PFO	36.48	141.5	GAS TURBINE - CONTROLS AND INSTRUMENTS
BCC 4S	7/31/2018	PFO	0.78	141.6	FEEDWATER PUMP
BCC 4S	7/31/2018	PFO	8.53	141.5	FEEDWATER PUMP
BCC 4S	8/23/2018	PFO	42.68	67.0	OTHER CIRCULATING WATER SYSTEM PROBLEMS
BCC 4S	8/23/2018	PFO	37.60	89.0	OTHER CIRCULATING WATER SYSTEM PROBLEMS
BCC 4S	9/7/2018	PFO	1.37	67.0	OPERATOR ERROR
BCC 4S	9/8/2018	PFO	60.05	67.0	HP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
BCC 4S	11/1/2018	PMO	67.77	67.0	OTHER TURBINE VALVES
BCC 4S	11/4/2018	PFO	19.32	67.0	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
BCC 4S	11/16/2018	PPO	150.97	67.0	GAS TURBINE - BOROSCOPE INSPECTION
BCC 4S	12/12/2018	PFO	45.22	67.0	CEMS - CO ANALYZER PROBLEMS
BCC 4S	12/15/2018	PFO	15.17	67.0	GAS TURBINE - STARTING SYSTEM (INCLUDING MOTOR)
BCC 4S	12/24/2018	PFO	180.63	67.0	GAS TURBINE - STARTING SYSTEM (INCLUDING MOTOR)

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - December 2018

Crystal River 4

Date	Outage Type	Hours	MW Affected	Description
1/3/2018	PFO	15.17	93.0	CONDENSER TUBE LEAKS
1/4/2018	PFO	3.07	235.9	CONDENSER TUBE LEAKS
1/4/2018	PFO	1.23	474.1	CONDENSER TUBE LEAKS
1/4/2018	PFO	8.98	498.0	CONDENSER TUBE LEAKS
1/4/2018	PFO	1.48	403.3	OTHER WET SCRUBBER PROBLEMS
1/7/2018	PFO	6.00	284.0	CONDENSER TUBE LEAKS
1/7/2018	PFO	26.98	474.0	CONDENSER TUBE LEAKS
1/18/2018	PFO	2.83	1.0	OTHER MISC. OPERATIONAL ENVIRONMENTAL LIMITS-FOSSI
1/29/2018	PPO	0.60	555.4	GENERATOR - OTHER COOLING SYSTEM PROBLEMS
2/7/2018	PFO	6.48	93.0	AIR SUPPLY DAMPERS
2/27/2018	PPO	4.00	426.0	FORCED DRAFT FANS
3/2/2018	PO	906.25	712.0	MINOR BOILER OVERHAUL (LESS THAN 720 HOURS)
4/10/2018	FFO	9.50	712.0	FEEDWATER CONTROLS
4/10/2018	FFO	1.15	712.0	FEEDWATER CONTROLS
4/11/2018	FFO	13.98	712.0	CONTROLS AND INSTRUMENTATION
4/12/2018	PMO	8.63	188.0	PULVERIZER MILLS
4/12/2018	PMO	10.48	93.0	PULVERIZER MILLS
4/13/2018	PMO	7.30	93.0	PRIMARY AIR DUCTS AND DAMPERS
4/16/2018	PFO	1.37	93.2	PULVERIZER MOTORS AND DRIVES
4/17/2018	PMO	7.67	284.0	CIRCULATING WATER PIPING
4/18/2018	PFO	4.58	93.1	PRIMARY AIR DUCTS AND DAMPERS
4/29/2018	FMO	2.00	712.0	GENERATOR LIQUID COOLING SYSTEM
5/2/2018	PFO	8.00	141.0	HEATER DRAIN VALVES
5/4/2018	FFO	129.00	712.0	SECOND SUPERHEATER LEAKS
5/9/2018	PFO	6.00	93.0	PULVERIZER MILLS
5/9/2018	PFO	1.98	212.2	COAL CONVEYERS AND FEEDERS
5/16/2018	PFO	21.12	93.0	PULVERIZER MILLS

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - December 2018

Crystal River 4

Date	Outage Type	Hours	MW Affected	Description
5/29/2018	PFO	2.62	65.0	PULVERIZED FUEL AND AIR PIPING (PULVERIZER TO WIND BOX)
5/30/2018	PMO	10.58	331.0	CONDENSATE/HOTWELL PUMP MOTOR
5/31/2018	PMO	2.77	330.9	CONDENSATE/HOTWELL PUMP MOTOR
6/7/2018	FFO	63.50	712.0	EXTERNAL SUPERHEATER LINK TUBING LEAKS
6/10/2018	FFO	2.25	712.0	BOILER; MISCELLANEOUS
6/23/2018	PPO	5.28	350.0	CONDENSATE/HOTWELL PUMP MOTOR
7/9/2018	FFO	78.45	712.0	EXTERNAL SUPERHEATER LINK TUBING LEAKS
7/12/2018	PFO	15.68	93.0	BOILER SAFETY VALVE TEST
7/22/2018	PFO	4.75	387.0	WET COAL (OMC)
7/26/2018	PPO	4.13	93.0	PULVERIZER FEEDER MOTOR
8/3/2018	PFO	1.08	141.3	CIRCULATING WATER VALVES
8/20/2018	PFO	7.00	93.0	OTHER BURNER PROBLEMS
8/23/2018	PPO	2.00	92.9	PULVERIZED FUEL AND AIR PIPING (PULVERIZER TO WIND BOX)
8/24/2018	PPO	2.25	93.0	PULVERIZED FUEL AND AIR PIPING (PULVERIZER TO WIND BOX)
9/7/2018	PFO	8.43	284.0	CIRCULATING WATER SCREENWASH SYSTEM
9/15/2018	PFO	36.00	93.0	SECOND REHEATER LEAKS
9/17/2018	PFO	81.27	27.0	FURNACE WALL LEAKS
9/20/2018	FMO	82.30	712.0	FURNACE WALL LEAKS
9/28/2018	PMO	3.00	93.0	PULVERIZER COAL LEAK (PULVERIZER ONLY)
10/7/2018	PFO	2.00	92.9	IGNITERS
10/8/2018	PPO	25.60	93.0	PULVERIZER MILLS
10/10/2018	PPO	25.87	93.0	PULVERIZER INSPECTION
10/29/2018	PPO	6.50	93.0	PULVERIZER FEEDERS
10/29/2018	PPO	23.00	93.0	PULVERIZER MILLS
10/30/2018	PPO	2.48	92.9	PULVERIZER MILLS
10/30/2018	PMO	0.50	283.4	PULVERIZER FIRES
10/30/2018	PPO	11.88	93.0	PULVERIZER MILLS

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - December 2018

Crystal River 4

Date	Outage Type	Hours	MW Affected	Description
10/31/2018	PPO	5.63	236.0	FORCED DRAFT FANS
10/31/2018	PPO	17.43	93.0	PULVERIZER MILLS
11/1/2018	PPO	4.12	284.0	FORCED DRAFT FANS
11/1/2018	PPO	8.07	93.0	PULVERIZER MILLS
11/1/2018	PPO	20.47	93.0	PULVERIZER MILLS
11/5/2018	PPO	23.25	93.0	PULVERIZER MILLS
11/10/2018	FFO	87.37	712.0	EXTERNAL SUPERHEATER LINK TUBING LEAKS
11/24/2018	PO	164.67	712.0	MAIN TRANSFORMER
12/11/2018	PFO	5.33	236.0	WET COAL (OMC)
12/11/2018	PFO	6.40	188.0	WET COAL (OMC)

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - December 2018

Crystal River 5

Date	Outage Type	Hours	MW Affected	Description
1/1/2018	PFO	3.17	423.9	OTHER BOILER CONTROL AND INSTRUMENTATION PROBLEMS
1/1/2018	PFO	2.13	186.1	OTHER BOILER CONTROL AND INSTRUMENTATION PROBLEMS
1/4/2018	PFO	10.92	234.0	OTHER WET SCRUBBER PROBLEMS
1/6/2018	PFO	1.40	124.8	CONDENSER TUBE LEAKS
1/7/2018	PFO	6.00	44.0	CONDENSER TUBE LEAKS
1/9/2018	PFO	12.83	472.0	CONDENSER TUBE LEAKS
1/31/2018	PPO	2.00	90.9	PULVERIZER LUBE OIL SYSTEM
2/1/2018	FMO	4.00	710.0	BURNERS
2/24/2018	PMO	22.50	496.0	WET SCRUBBER - RECYCLE (LIQUID) PUMPS
3/3/2018	PFO	5.00	377.0	COAL CONVEYERS AND FEEDERS
3/27/2018	FFO	12.70	710.0	GENERATOR LIQUID COOLING SYSTEM
4/12/2018	PO	351.60	710.0	BOILER; MISCELLANEOUS
4/27/2018	PPO	364.60	91.0	PULVERIZER MILLS
5/16/2018	PFO	3.00	496.1	WET SCRUBBER/ABSORBER TOWER OR MODULE
5/22/2018	FFO	8.75	710.0	OTHER PULVERIZER PROBLEMS
5/22/2018	FFO	50.23	710.0	OTHER MISCELLANEOUS GENERATOR PROBLEMS
5/25/2018	FFO	56.10	710.0	FURNACE WALL LEAKS
5/27/2018	FFO	1.20	710.0	BOILER WATER CONDITION (NOT FEEDWATER WATER QUALITY)
5/31/2018	PPO	5.00	63.0	BURNERS
6/2/2018	PFO	0.67	90.5	COAL CONVEYERS AND FEEDERS
6/5/2018	PFO	2.17	91.1	PULVERIZER MILLS
6/11/2018	PMO	23.83	91.0	PULVERIZER MILLS
6/14/2018	PPO	4.95	90.9	PULVERIZER MILLS
6/28/2018	PPO	4.95	90.9	PULVERIZER MILLS
6/30/2018	FMO	1.75	710.0	GENERATOR LIQUID COOLING SYSTEM
7/1/2018	FFO	335.13	710.0	GENERATOR BUS DUCT COOLING SYSTEM
7/19/2018	PFO	5.83	258.0	OTHER BURNER PROBLEMS

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - December 2018

Crystal River 5

Date	Outage Type	Hours	MW Affected	Description
7/19/2018	PFO	6.18	101.1	OTHER BURNER PROBLEMS
7/22/2018	PFO	4.75	385.0	WET COAL (OMC)
7/25/2018	FFO	115.35	710.0	GENERATOR BUS DUCT COOLING SYSTEM
8/1/2018	PMO	4.52	91.0	PULVERIZER LUBE OIL SYSTEM
8/9/2018	PPO	4.43	282.0	PULVERIZER MILLS
8/9/2018	PPO	5.43	91.0	PULVERIZER MILLS
8/18/2018	PFO	1.50	53.0	4000-7000-VOLT CIRCUIT BREAKERS
8/23/2018	PPO	3.00	91.1	PULVERIZED FUEL AND AIR PIPING (PULVERIZER TO WIND BOX)
10/1/2018	PPO	72.05	91.0	PULVERIZER FEEDERS
10/16/2018	PPO	2.53	91.1	PULVERIZED FUEL AND AIR PIPING (PULVERIZER TO WIND BOX)
10/23/2018	PPO	14.33	91.0	PULVERIZER MILLS
10/24/2018	PPO	4.28	234.1	FORCED DRAFT FANS
10/24/2018	PPO	9.52	91.0	PULVERIZER MILLS
10/24/2018	PPO	10.33	91.0	PULVERIZER MILLS
10/25/2018	PPO	4.97	234.0	FORCED DRAFT FANS
10/25/2018	PPO	6.67	90.9	PULVERIZER MILLS
11/6/2018	PPO	16.75	91.0	PULVERIZER MILLS
11/15/2018	PFO	6.48	472.0	POWERHOUSE SWITCHYARD (NON GENERATING EQUIP)
11/15/2018	FFO	20.95	710.0	FEEDWATER PUMP
11/23/2018	PFO	13.00	125.0	COAL CONVEYERS AND FEEDERS
12/2/2018	FMO	107.70	710.0	FIRST SUPERHEATER LEAKS
12/11/2018	PFO	5.33	234.0	WET COAL (OMC)
12/11/2018	PFO	6.40	186.0	WET COAL (OMC)
12/13/2018	PFO	9.75	91.0	PULVERIZER FEEDERS
12/14/2018	PFO	3.42	186.0	WET COAL (OMC)
12/15/2018	PFO	2.42	91.1	WET COAL (OMC)
12/15/2018	PFO	7.98	91.0	PULVERIZER MILLS

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - December 2018

Crystal River 5

Date	Outage Type	Hours	MW Affected	Description
12/15/2018	PFO	1.82	91.0	WET COAL (OMC)
12/20/2018	PPO	0.92	495.5	4000-7000-VOLT CIRCUIT BREAKERS
12/20/2018	PPO	0.33	91.7	PULVERIZER MILLS
12/24/2018	PFO	4.33	90.9	PULVERIZER MILLS
12/24/2018	PFO	10.00	496.0	ASH DISPOSAL PROBLEM
12/27/2018	PMO	1.83	91.0	PULVERIZER MILLS
12/29/2018	PFO	7.92	91.0	PULVERIZER FEEDERS

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - December 2018

Hines Power Block 1

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 1A	1/4/2018	FFO	2.40	164.7	COMBINED CYCLE INSTRUMENTS AND CONTROLS
HEP 1A	1/29/2018	FFO	35.18	164.7	GENERATOR CURRENT AND POTENTIAL TRANSFORMERS
HEP 1A	2/22/2018	PPO	0.75	54.7	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 1A	3/13/2018	FFO	28.23	164.7	OTHER HYDROGEN SYSTEM PROBLEMS
HEP 1A	3/17/2018	PO	583.52	164.7	GENERAL GAS TURBINE UNIT INSPECTION
HEP 1A	5/17/2018	PPO	6.00	79.7	CONDENSER HOT WELL
HEP 1A	5/18/2018	FMO	17.52	164.7	GAS TURBINE - EXHAUST SYSTEM VANES/NOZZLES
HEP 1A	5/21/2018	FFO	14.42	164.7	GAS TURBINE - FUEL PIPING AND VALVES
HEP 1A	6/1/2018	FFO	20.20	164.7	TURBINE LUBE OIL PUMPS
HEP 1A	6/2/2018	FFO	3.28	164.7	OTHER FEEDWATER SYSTEM PROBLEMS
HEP 1A	6/2/2018	FFO	0.15	164.7	OTHER FEEDWATER SYSTEM PROBLEMS
HEP 1A	7/7/2018	PPO	7.00	75.6	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 1A	7/22/2018	PPO	7.67	78.6	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 1A	7/24/2018	PPO	1.58	17.7	NOX STACK EMISSIONS - GAS TURBINE UNITS
HEP 1A	7/24/2018	PPO	1.00	75.6	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 1A	7/29/2018	PPO	2.55	79.7	CLOSED COOLING WATER HEAT EXCHANGERS
HEP 1A	8/12/2018	PPO	8.45	74.7	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 1A	8/17/2018	PFO	3.58	74.7	OTHER EXCITER PROBLEMS
HEP 1A	8/22/2018	PPO	1.25	74.7	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 1A	8/23/2018	PPO	3.25	85.7	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 1A	8/25/2018	FMO	18.73	164.7	CONDENSER TUBE AND WATER BOX CLEANING
HEP 1A	8/26/2018	FFO	12.67	164.7	OTHER MAIN STEAM VALVES (INCLUDING VENT AND DRAIN.
HEP 1A	8/26/2018	FFO	2.28	164.7	OPERATOR ERROR
HEP 1A	8/27/2018	FFO	0.62	164.7	OTHER COMBINED CYCLE PROBLEMS
HEP 1A	8/29/2018	FFO	6.55	164.7	FEEDWATER PUMP DRIVE - MOTOR
HEP 1A	9/1/2018	PPO	1.08	74.7	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 1A	9/9/2018	PPO	8.00	74.7	OTHER MISCELLANEOUS EXTERNAL PROBLEMS

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Hines Power Block 1

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 1A	9/17/2018	PPO	1.00	74.6	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 1A	9/24/2018	PPO	0.50	74.8	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 1A	9/28/2018	PPO	0.75	74.6	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 1A	9/30/2018	PPO	0.80	74.7	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 1A	10/21/2018	FMO	79.92	164.7	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 1A	11/28/2018	FFO	27.58	164.7	OTHER GAS TURBINE AUXILIARY SYSTEM PROBLEMS
HEP 1A	12/14/2018	FMO	99.00	164.7	ECONOMIZER LEAKS
HEP 1A	12/31/2018	FMO	17.00	164.7	OTHER EXCITER PROBLEMS
HEP 1B	1/27/2018	FFO	1.00	170.7	GAS TURBINE - COOLING AND SEAL AIR SYSTEM
HEP 1B	2/22/2018	PPO	0.75	60.8	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 1B	3/13/2018	FFO	12.88	170.7	OTHER HYDROGEN SYSTEM PROBLEMS
HEP 1B	3/17/2018	PO	584.05	170.7	GENERAL GAS TURBINE UNIT INSPECTION
HEP 1B	5/17/2018	PPO	6.00	85.7	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 1B	5/29/2018	FMO	19.27	170.7	OTHER GAS TURBINE PROBLEMS
HEP 1B	5/31/2018	FFO	45.58	170.7	OTHER EXCITER PROBLEMS
HEP 1B	6/2/2018	FFO	18.83	170.7	OTHER FEEDWATER SYSTEM PROBLEMS
HEP 1B	7/7/2018	PPO	7.00	81.7	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 1B	7/22/2018	PPO	7.67	84.7	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 1B	7/24/2018	PPO	1.58	23.7	NOX STACK EMISSIONS - GAS TURBINE UNITS
HEP 1B	7/24/2018	PPO	1.00	81.8	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 1B	7/29/2018	PPO	2.55	85.7	CLOSED COOLING WATER HEAT EXCHANGERS
HEP 1B	7/30/2018	FMO	70.40	170.7	EXCITER TRANSFORMER
HEP 1B	8/12/2018	PPO	8.45	80.7	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 1B	8/17/2018	PFO	3.58	80.7	OTHER EXCITER PROBLEMS
HEP 1B	8/22/2018	PPO	1.25	80.7	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 1B	8/23/2018	PPO	3.25	91.7	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 1B	8/25/2018	PPO	18.73	80.7	OTHER MISCELLANEOUS EXTERNAL PROBLEMS

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Hines Power Block 1

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 1B	9/1/2018	PPO	1.08	80.7	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 1B	9/9/2018	PPO	8.00	80.7	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 1B	9/17/2018	PPO	1.00	81.8	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 1B	9/24/2018	PPO	0.50	81.6	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 1B	9/28/2018	PPO	0.75	80.8	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 1B	9/30/2018	PPO	0.80	80.7	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 1B	10/15/2018	FFO	10.00	170.7	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
HEP 1B	10/21/2018	FMO	80.50	170.7	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 1B	11/27/2018	FFO	1.75	170.7	OTHER EXCITER PROBLEMS
HEP 1B	11/28/2018	FFO	19.65	170.7	FEEDWATER CONTROLS
HEP 1B	12/31/2018	FMO	17.00	170.7	OTHER EXCITER PROBLEMS
HEP ST1	1/4/2018	PFO	2.40	69.6	COMBINED CYCLE INSTRUMENTS AND CONTROLS
HEP ST1	1/27/2018	PFO	1.00	75.7	GAS TURBINE - COOLING AND SEAL AIR SYSTEM
HEP ST1	1/29/2018	PFO	35.18	69.6	GENERATOR CURRENT AND POTENTIAL TRANSFORMERS
HEP ST1	2/22/2018	PPO	0.75	35.5	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST1	3/13/2018	FFO	17.20	159.6	OTHER HYDROGEN SYSTEM PROBLEMS
HEP ST1	3/14/2018	PFO	11.03	76.6	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
HEP ST1	3/17/2018	PO	586.98	159.6	INSPECTION
HEP ST1	5/17/2018	PPO	6.00	67.6	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST1	5/18/2018	PMO	17.52	67.6	GAS TURBINE - EXHAUST SYSTEM VANES/NOZZLES
HEP ST1	5/21/2018	PFO	14.67	67.6	GAS TURBINE - FUEL PIPING AND VALVES
HEP ST1	5/29/2018	PMO	19.27	67.6	OTHER GAS TURBINE PROBLEMS
HEP ST1	5/31/2018	PFO	18.00	67.6	OTHER EXCITER PROBLEMS
HEP ST1	6/1/2018	FFO	24.30	159.6	TURBINE LUBE OIL PUMPS
HEP ST1	6/2/2018	PFO	3.28	67.6	OTHER EXCITER PROBLEMS
HEP ST1	6/2/2018	FFO	5.18	159.6	OTHER HIGH PRESSURE TURBINE PROBLEMS
HEP ST1	6/2/2018	FFO	1.37	159.6	OTHER HIGH PRESSURE TURBINE PROBLEMS

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Hines Power Block 1

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP ST1	6/2/2018	FFO	2.58	159.6	OTHER HIGH PRESSURE TURBINE PROBLEMS
HEP ST1	6/2/2018	PFO	9.63	69.6	OTHER MISC. OPERATIONAL ENVIRONMENTAL LIMITS - GAS
HEP ST1	7/7/2018	PPO	7.00	44.6	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST1	7/22/2018	PPO	7.67	48.6	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST1	7/24/2018	PPO	1.00	47.6	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST1	7/29/2018	PPO	2.55	41.6	CLOSED COOLING WATER HEAT EXCHANGERS
HEP ST1	7/30/2018	PFO	70.40	51.6	EXCITER TRANSFORMER
HEP ST1	8/12/2018	PPO	8.45	39.6	CONDENSER TUBE AND WATER BOX CLEANING
HEP ST1	8/17/2018	PFO	3.58	43.6	OTHER EXCITER PROBLEMS
HEP ST1	8/22/2018	PPO	1.25	47.6	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST1	8/23/2018	PPO	3.25	55.6	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST1	8/25/2018	PPO	18.73	99.6	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST1	8/26/2018	PFO	12.67	74.6	OTHER MAIN STEAM VALVES (INCLUDING VENT AND DRAIN.
HEP ST1	8/26/2018	PFO	3.07	74.6	OPERATOR ERROR
HEP ST1	8/29/2018	PFO	6.55	74.6	FEEDWATER PUMP DRIVE - MOTOR
HEP ST1	9/1/2018	PPO	1.08	46.6	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST1	9/9/2018	PPO	8.00	39.6	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST1	9/17/2018	PPO	1.00	45.7	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST1	9/24/2018	PPO	0.50	42.8	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST1	9/28/2018	PPO	0.75	49.6	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST1	9/30/2018	PPO	0.80	44.7	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST1	10/21/2018	FMO	84.00	159.6	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST1	11/28/2018	FFO	21.72	159.6	FEEDWATER CONTROLS
HEP ST1	12/1/2018	PFO	56.00	73.6	GAS TURBINE - FUEL PIPING AND VALVES
HEP ST1	12/31/2018	FMO	17.00	159.6	OTHER EXCITER PROBLEMS

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Hines Power Block 2

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 2A	3/23/2018	FFO	71.60	171.2	OTHER COMBINED CYCLE PROBLEMS
HEP 2A	4/14/2018	PO	430.82	171.2	GENERAL GAS TURBINE UNIT INSPECTION
HEP 2A	5/8/2018	PPO	1.00	56.2	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 2A	5/11/2018	PPO	1.50	61.2	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 2A	5/14/2018	PPO	0.58	66.4	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 2A	5/16/2018	PPO	2.00	71.2	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 2A	5/21/2018	PPO	1.08	71.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 2A	5/21/2018	PPO	1.00	61.1	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 2A	5/25/2018	PPO	1.00	76.2	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 2A	6/25/2018	PPO	1.75	71.2	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 2A	7/1/2018	PPO	0.35	66.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 2A	7/9/2018	PPO	1.25	66.2	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 2A	7/19/2018	PPO	1.25	58.2	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 2A	7/21/2018	PPO	1.00	71.2	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 2A	8/1/2018	PPO	5.75	62.2	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 2A	8/16/2018	PPO	1.25	66.2	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 2A	8/22/2018	PPO	0.75	67.1	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 2A	11/2/2018	FMO	68.00	171.2	FEEDWATER PUMP
HEP 2A	12/12/2018	PPO	1.00	70.2	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 2A	12/30/2018	FFO	8.70	171.2	OTHER MISC. OPERATIONAL ENVIRONMENTAL LIMITS - GAS
HEP 2A	12/31/2018	FFO	17.25	171.2	OTHER MISC. OPERATIONAL ENVIRONMENTAL LIMITS - GAS
HEP 2B	2/21/2018	FFO	10.22	179.5	GAS TURBINE VIBRATION
HEP 2B	3/23/2018	FFO	69.07	179.5	OTHER COMBINED CYCLE PROBLEMS
HEP 2B	3/26/2018	FFO	0.58	179.5	FEEDWATER REGULATING (BOILER LEVEL CONTROL) VALVE
HEP 2B	4/14/2018	PO	457.00	179.5	GENERAL GAS TURBINE UNIT INSPECTION
HEP 2B	5/3/2018	FFO	16.77	179.5	GAS TURBINE - FUEL PIPING AND VALVES
HEP 2B	5/8/2018	PPO	1.00	64.4	OTHER MISCELLANEOUS EXTERNAL PROBLEMS

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Hines Power Block 2

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 2B	5/11/2018	PPO	1.50	69.5	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 2B	5/14/2018	FFO	0.90	179.5	LIQUID FUEL PURGE SYSTEM
HEP 2B	5/14/2018	PPO	0.58	74.5	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 2B	5/16/2018	PPO	2.00	79.4	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 2B	5/21/2018	PPO	1.08	79.5	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 2B	5/21/2018	PPO	1.00	69.4	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 2B	5/25/2018	PPO	1.00	84.5	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 2B	6/25/2018	PPO	1.75	79.5	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 2B	7/1/2018	PPO	0.35	74.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 2B	7/9/2018	PPO	1.25	74.5	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 2B	7/19/2018	PPO	1.25	66.5	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 2B	7/21/2018	PPO	1.00	79.5	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 2B	7/28/2018	FFO	5.25	179.5	FEEDWATER PUMP
HEP 2B	8/1/2018	PPO	5.75	70.4	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 2B	8/16/2018	PPO	1.25	74.5	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 2B	8/18/2018	FMO	8.70	179.5	PROTECTION DEVICES
HEP 2B	8/22/2018	PPO	0.75	74.4	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 2B	12/12/2018	PPO	1.00	78.4	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 2B	12/31/2018	FFO	17.23	179.5	OTHER MISC. OPERATIONAL ENVIRONMENTAL LIMITS - GAS
HEP ST2	2/21/2018	PFO	10.22	92.3	GAS TURBINE VIBRATION
HEP ST2	3/23/2018	FFO	72.10	176.4	OTHER COMBINED CYCLE PROBLEMS
HEP ST2	4/14/2018	PO	433.57	176.4	INSPECTION
HEP ST2	5/3/2018	PFO	17.62	91.4	GAS TURBINE - FUEL PIPING AND VALVES
HEP ST2	5/8/2018	PPO	1.00	46.4	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST2	5/11/2018	PPO	1.50	43.4	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST2	5/14/2018	PFO	0.90	84.3	LIQUID FUEL PURGE SYSTEM
HEP ST2	5/14/2018	PPO	0.58	71.4	OTHER MISCELLANEOUS EXTERNAL PROBLEMS

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Hines Power Block 2

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP ST2	5/16/2018	PPO	2.00	51.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST2	5/21/2018	PPO	1.08	56.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST2	5/21/2018	PPO	2.00	58.4	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST2	5/25/2018	PPO	1.00	39.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST2	6/25/2018	PPO	1.75	45.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST2	7/1/2018	PPO	0.35	36.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST2	7/9/2018	PPO	1.25	36.4	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST2	7/19/2018	PPO	1.25	37.4	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST2	7/21/2018	PPO	1.00	43.4	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST2	7/28/2018	PFO	5.25	86.4	FEEDWATER PUMP
HEP ST2	8/1/2018	PPO	5.75	37.4	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST2	8/16/2018	PPO	1.25	41.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST2	8/18/2018	PMO	8.70	94.4	PROTECTION DEVICES
HEP ST2	8/22/2018	PPO	0.75	40.4	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST2	11/2/2018	PMO	68.00	80.4	FEEDWATER PUMP
HEP ST2	12/12/2018	PPO	1.00	36.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST2	12/31/2018	FFO	17.42	176.4	OTHER MISC. OPERATIONAL ENVIRONMENTAL LIMITS - GAS

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Hines Power Block 3

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 3A	2/22/2018	PPO	1.00	65.1	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 3A	2/27/2018	FFO	3.38	175.0	GAS TURBINE CONTROL SYSTEM - HARDWARE PROBLEM
HEP 3A	3/5/2018	FFO	1.03	175.0	GAS TURBINE COMPRESSOR - BLEED VALVES
HEP 3A	4/16/2018	PPO	5.00	51.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 3A	4/22/2018	FMO	25.27	175.0	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
HEP 3A	5/8/2018	PPO	1.00	55.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 3A	5/21/2018	PPO	6.23	38.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 3A	5/23/2018	PPO	0.53	55.2	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 3A	5/24/2018	PFO	52.00	49.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 3A	6/30/2018	PPO	8.00	56.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 3A	7/9/2018	PPO	0.92	51.9	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 3A	7/20/2018	PPO	0.75	52.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 3A	7/21/2018	PPO	1.00	53.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 3A	7/24/2018	PPO	8.00	52.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 3A	7/25/2018	FMO	35.88	175.0	OTHER GAS TURBINE FUEL SYSTEM PROBLEMS
HEP 3A	8/12/2018	PPO	0.50	55.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 3A	8/15/2018	PPO	12.03	50.0	CONDENSER TUBE AND WATER BOX CLEANING
HEP 3A	8/31/2018	PPO	2.17	53.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 3A	9/17/2018	PPO	0.50	55.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 3A	9/25/2018	PPO	1.55	39.1	OTHER MAIN STEAM VALVES (INCLUDING VENT AND DRAIN.
HEP 3A	9/26/2018	PPO	3.97	39.0	OTHER MAIN STEAM VALVES (INCLUDING VENT AND DRAIN.
HEP 3A	9/29/2018	PO	729.15	175.0	GENERAL GAS TURBINE UNIT INSPECTION
HEP 3A	10/30/2018	PO	14.63	175.0	TOTAL UNIT PERFORMANCE TESTING
HEP 3B	1/5/2018	FFO	8.97	175.0	GAS TURBINE COMPRESSOR - BLEED VALVES
HEP 3B	1/13/2018	FFO	0.50	175.0	BLADE PATH TEMPERATURE SPREAD
HEP 3B	2/10/2018	FFO	0.17	175.0	GAS TURBINE - HIGH ENGINE EXHAUST TEMPERATURE
HEP 3B	2/10/2018	FFO	3.25	175.0	HP STARTUP BYPASS INSTRUMENTATION AND CONTROLS

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Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 3B	2/22/2018	PPO	1.00	65.1	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 3B	3/5/2018	FFO	0.75	175.0	HP DRUM
HEP 3B	3/30/2018	FMO	24.15	175.0	HEAT RECOVERY STEAM GENERATOR TO GAS TURBINE CON..
HEP 3B	4/1/2018	FMO	12.83	175.0	HEAT RECOVERY STEAM GENERATOR TO GAS TURBINE CON..
HEP 3B	4/16/2018	PPO	5.00	51.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 3B	5/8/2018	PPO	1.00	55.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 3B	5/21/2018	PPO	6.23	59.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 3B	5/21/2018	PPO	1.00	67.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 3B	5/23/2018	PPO	0.53	55.2	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 3B	5/24/2018	PFO	14.50	60.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 3B	5/25/2018	FMO	65.15	175.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 3B	6/30/2018	PPO	8.00	59.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 3B	7/9/2018	PPO	0.92	50.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 3B	7/20/2018	PPO	0.75	52.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 3B	7/21/2018	PPO	1.00	58.1	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 3B	7/24/2018	PPO	8.00	60.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 3B	8/12/2018	PPO	0.50	55.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 3B	8/15/2018	PPO	12.03	60.0	CONDENSER TUBE AND WATER BOX CLEANING
HEP 3B	8/21/2018	FFO	13.42	175.0	GAS TURBINE - CONTROLS AND INSTRUMENTS
HEP 3B	8/31/2018	PPO	2.17	60.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 3B	9/17/2018	PPO	0.50	60.9	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 3B	9/25/2018	PPO	1.55	39.1	OTHER MAIN STEAM VALVES (INCLUDING VENT AND DRAIN.
HEP 3B	9/26/2018	PPO	3.97	39.0	OTHER MAIN STEAM VALVES (INCLUDING VENT AND DRAIN.
HEP 3B	9/29/2018	PO	758.67	175.0	GENERAL GAS TURBINE UNIT INSPECTION
HEP 3B	10/30/2018	PO	8.75	175.0	TOTAL UNIT PERFORMANCE TESTING
HEP 3B	11/1/2018	PO	4.25	175.0	TOTAL UNIT PERFORMANCE TESTING
HEP ST3	1/5/2018	PFO	8.97	81.0	GAS TURBINE COMPRESSOR - BLEED VALVES

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Hines Power Block 3

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP ST3	2/22/2018	PPO	1.00	47.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST3	2/27/2018	PFO	3.38	81.0	GAS TURBINE CONTROL SYSTEM - HARDWARE PROBLEM
HEP ST3	3/5/2018	FFO	0.75	171.0	HP DRUM
HEP ST3	3/5/2018	PFO	3.00	81.0	COMBINED CYCLE INSTRUMENTS AND CONTROLS
HEP ST3	3/30/2018	PMO	24.17	83.0	HEAT RECOVERY STEAM GENERATOR TO GAS TURBINE CON..
HEP ST3	4/1/2018	PMO	12.83	83.0	HEAT RECOVERY STEAM GENERATOR TO GAS TURBINE CON..
HEP ST3	4/16/2018	PPO	5.00	23.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST3	4/22/2018	PMO	25.27	81.0	LOW PRESSURE HEATER TUBE LEAKS
HEP ST3	5/8/2018	PPO	1.00	30.9	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST3	5/21/2018	PPO	6.23	20.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST3	5/21/2018	PPO	1.00	48.9	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST3	5/23/2018	PPO	0.53	31.1	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST3	5/24/2018	PFO	14.50	31.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST3	5/25/2018	PFO	37.50	102.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST3	5/26/2018	PMO	27.65	84.0	OTHER MISCELLANEOUS BALANCE OF PLANT PROBLEMS
HEP ST3	6/30/2018	PPO	8.00	28.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST3	7/9/2018	PPO	0.92	20.9	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST3	7/20/2018	PPO	0.75	23.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST3	7/21/2018	PPO	1.00	28.9	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST3	7/24/2018	PPO	8.00	25.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST3	7/25/2018	PMO	35.88	87.0	OTHER GAS TURBINE FUEL SYSTEM PROBLEMS
HEP ST3	8/12/2018	PPO	0.50	26.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST3	8/15/2018	PPO	12.03	37.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST3	8/21/2018	PFO	13.42	86.0	GAS TURBINE - CONTROLS AND INSTRUMENTS
HEP ST3	8/31/2018	PPO	2.17	26.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST3	9/17/2018	PPO	0.50	21.9	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST3	9/25/2018	PPO	1.55	6.9	OTHER MAIN STEAM VALVES (INCLUDING VENT AND DRAIN.

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Hines Power Block 3

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP ST3	9/26/2018	PPO	3.97	8.0	OTHER MAIN STEAM VALVES (INCLUDING VENT AND DRAIN.
HEP ST3	9/29/2018	PO	731.50	171.0	INSPECTION
HEP ST3	10/29/2018	FFO	0.68	171.0	CONDENSER TUBE FOULING SHELL SIDE
HEP ST3	10/30/2018	PO	10.85	171.0	TOTAL UNIT PERFORMANCE TESTING

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Hines Power Block 4

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 4A	1/22/2018	PPO	0.50	68.8	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4A	2/2/2018	PPO	1.10	56.9	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4A	2/22/2018	PPO	1.00	61.9	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4A	3/6/2018	PPO	1.00	56.9	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4A	5/12/2018	PPO	6.75	71.9	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4A	5/13/2018	PPO	7.00	71.9	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4A	5/14/2018	PPO	0.60	67.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4A	5/21/2018	PPO	0.58	76.1	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4A	5/22/2018	PPO	1.15	75.9	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4A	5/24/2018	PFO	0.58	69.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4A	6/2/2018	PPO	8.00	67.9	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4A	6/3/2018	PPO	8.00	71.9	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4A	6/4/2018	PPO	1.95	76.9	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4A	6/5/2018	PPO	1.00	66.9	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4A	6/14/2018	PPO	1.00	66.9	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4A	6/24/2018	FFO	3.03	171.9	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
HEP 4A	6/25/2018	PPO	1.00	67.9	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4A	7/2/2018	PPO	1.07	71.9	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4A	7/9/2018	PPO	0.92	63.9	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4A	7/10/2018	PPO	0.42	63.9	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4A	7/19/2018	PPO	2.17	71.9	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4A	7/20/2018	PPO	1.00	77.9	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4A	7/20/2018	PPO	0.67	72.9	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4A	7/21/2018	PPO	1.50	64.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4A	7/22/2018	PPO	0.50	78.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4A	7/22/2018	PPO	0.75	64.9	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4A	7/23/2018	PPO	1.25	61.9	OTHER MISCELLANEOUS EXTERNAL PROBLEMS

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ACTUAL UNIT EVENT DATA -- January - December 2018

Hines Power Block 4

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 4A	8/2/2018	PPO	9.42	70.9	OPEN COOLING WATER SYSTEM FOULING
HEP 4A	8/6/2018	PFO	5.58	25.9	TURBINE CONTROL VALVE TESTING
HEP 4A	8/7/2018	PFO	10.00	18.9	TURBINE CONTROL VALVE TESTING
HEP 4A	8/8/2018	PFO	11.00	18.9	TURBINE CONTROL VALVE TESTING
HEP 4A	8/9/2018	PFO	11.00	18.9	TURBINE CONTROL VALVE TESTING
HEP 4A	8/12/2018	PPO	0.50	71.9	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4A	8/14/2018	FFO	22.32	171.9	OTHER GAS TURBINE EXHAUST PROBLEMS
HEP 4A	8/22/2018	PPO	0.75	59.8	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4A	8/26/2018	PPO	9.30	64.9	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4A	9/2/2018	PPO	0.48	59.1	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4A	9/6/2018	PPO	0.50	61.9	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4A	11/17/2018	PO	508.17	171.9	GENERAL GAS TURBINE UNIT INSPECTION
HEP 4A	12/8/2018	FFO	60.03	171.9	HP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP 4A	12/11/2018	FFO	27.62	171.9	CEMS - CO ANALYZER PROBLEMS
HEP 4A	12/12/2018	FFO	18.47	171.9	CEMS - CO ANALYZER PROBLEMS
HEP 4B	1/13/2018	FFO	38.25	170.9	IP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP 4B	1/22/2018	PPO	0.50	66.0	TRAVELING SCREEN FOULING
HEP 4B	2/2/2018	PPO	1.10	55.9	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4B	2/22/2018	PPO	1.00	60.9	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4B	3/6/2018	PPO	1.00	55.9	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4B	4/26/2018	FMO	51.65	170.9	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4B	5/12/2018	PPO	6.75	70.9	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4B	5/13/2018	PPO	7.00	70.9	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4B	5/14/2018	PPO	0.60	65.8	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4B	5/21/2018	PPO	0.58	75.1	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4B	5/22/2018	PPO	1.15	74.9	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4B	5/24/2018	PFO	0.58	68.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS

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Hines Power Block 4

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 4B	6/2/2018	PPO	8.00	68.9	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4B	6/3/2018	PPO	8.00	70.9	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4B	6/4/2018	PPO	1.95	75.9	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4B	6/5/2018	PPO	1.00	66.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4B	6/14/2018	PPO	1.00	66.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4B	6/25/2018	PPO	1.00	67.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4B	7/2/2018	PPO	1.07	71.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4B	7/9/2018	PPO	0.92	62.8	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4B	7/10/2018	PPO	0.42	62.7	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4B	7/15/2018	FMO	12.00	170.9	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4B	7/19/2018	PPO	2.17	70.9	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4B	7/20/2018	PPO	1.00	76.9	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4B	7/20/2018	PPO	0.67	72.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4B	7/21/2018	PPO	1.50	62.9	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4B	7/22/2018	PPO	0.50	76.9	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4B	7/22/2018	PPO	0.75	64.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4B	7/23/2018	PPO	1.25	61.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4B	7/28/2018	FFO	14.72	170.9	GAS TURBINE - CONTROLS AND INSTRUMENTS
HEP 4B	8/2/2018	PPO	9.42	69.9	OPEN COOLING WATER SYSTEM FOULING
HEP 4B	8/6/2018	PFO	5.58	24.9	TURBINE CONTROL VALVE TESTING
HEP 4B	8/7/2018	PFO	10.00	17.9	TURBINE CONTROL VALVE TESTING
HEP 4B	8/8/2018	PFO	11.00	17.9	TURBINE CONTROL VALVE TESTING
HEP 4B	8/9/2018	PFO	11.00	17.9	TURBINE CONTROL VALVE TESTING
HEP 4B	8/12/2018	PPO	0.50	70.8	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4B	8/19/2018	FFO	6.22	170.9	STORMS (ICE; SNOW; ETC)
HEP 4B	8/22/2018	PPO	0.75	57.9	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4B	8/26/2018	PPO	9.30	63.9	OTHER MISCELLANEOUS EXTERNAL PROBLEMS

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Hines Power Block 4

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 4B	8/28/2018	FMO	2.92	170.9	GAS TURBINE - CONTROLS AND INSTRUMENTS
HEP 4B	8/29/2018	FFO	4.07	170.9	OTHER DISTRIBUTIVE CONTROL SYSTEM PROBLEMS
HEP 4B	8/29/2018	FFO	31.10	170.9	HP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP 4B	9/2/2018	PPO	0.50	57.8	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4B	9/6/2018	PPO	0.50	60.9	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4B	11/10/2018	PO	710.00	170.9	GENERAL GAS TURBINE UNIT INSPECTION
HEP ST4	1/13/2018	PFO	37.50	69.2	IP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP ST4	1/22/2018	PPO	0.50	13.2	TRAVELING SCREEN FOULING
HEP ST4	2/2/2018	PPO	1.10	31.2	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST4	2/22/2018	PPO	1.00	37.2	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST4	3/6/2018	PPO	1.00	29.2	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST4	4/26/2018	PMO	51.65	78.2	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST4	5/12/2018	PPO	6.75	28.1	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST4	5/13/2018	PPO	7.00	28.2	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST4	5/14/2018	PPO	0.60	31.2	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST4	5/21/2018	PPO	0.58	41.2	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST4	5/22/2018	PPO	1.15	36.2	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST4	5/24/2018	PFO	0.58	23.2	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST4	6/2/2018	PPO	8.00	24.2	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST4	6/3/2018	PPO	8.00	26.2	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST4	6/4/2018	PPO	1.95	22.1	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST4	6/5/2018	PPO	1.00	31.1	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST4	6/14/2018	PPO	1.00	31.1	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST4	6/24/2018	PFO	3.03	76.1	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
HEP ST4	6/25/2018	PPO	1.00	27.2	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST4	7/2/2018	PPO	1.07	61.2	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST4	7/9/2018	PPO	0.92	23.2	OTHER MISCELLANEOUS EXTERNAL PROBLEMS

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Hines Power Block 4

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP ST4	7/10/2018	PPO	0.42	21.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST4	7/15/2018	PMO	12.00	79.2	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST4	7/19/2018	PPO	2.17	20.2	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST4	7/20/2018	PPO	1.00	20.1	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST4	7/20/2018	PPO	0.67	26.1	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST4	7/21/2018	PPO	1.50	21.2	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST4	7/22/2018	PPO	0.50	14.2	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST4	7/22/2018	PPO	0.75	19.1	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST4	7/23/2018	PPO	1.25	23.2	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST4	7/28/2018	PFO	14.72	71.2	GAS TURBINE - CONTROLS AND INSTRUMENTS
HEP ST4	8/2/2018	PPO	9.42	20.2	OPEN COOLING WATER SYSTEM FOULING
HEP ST4	8/6/2018	PFO	5.58	1.2	TURBINE CONTROL VALVE TESTING
HEP ST4	8/7/2018	PFO	10.00	1.0	TURBINE CONTROL VALVE TESTING
HEP ST4	8/8/2018	PFO	11.00	1.0	TURBINE CONTROL VALVE TESTING
HEP ST4	8/9/2018	PFO	11.00	1.0	TURBINE CONTROL VALVE TESTING
HEP ST4	8/12/2018	PPO	0.50	26.1	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST4	8/14/2018	PFO	22.32	74.2	OTHER GAS TURBINE EXHAUST PROBLEMS
HEP ST4	8/19/2018	PFO	6.22	75.1	STORMS (ICE; SNOW; ETC)
HEP ST4	8/22/2018	PPO	0.75	23.2	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST4	8/26/2018	PPO	9.30	28.2	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST4	8/28/2018	PPO	2.92	74.1	GAS TURBINE - CONTROLS AND INSTRUMENTS
HEP ST4	8/29/2018	PFO	0.60	76.3	OTHER DISTRIBUTIVE CONTROL SYSTEM PROBLEMS
HEP ST4	8/29/2018	FFO	1.97	161.2	CONDENSER LOSS OF VACUUM
HEP ST4	8/29/2018	PFO	1.50	76.2	OTHER DISTRIBUTIVE CONTROL SYSTEM PROBLEMS
HEP ST4	8/29/2018	PFO	31.10	76.2	HP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP ST4	9/2/2018	PPO	0.50	11.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST4	9/6/2018	PPO	0.50	19.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS

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Hines Power Block 4

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP ST4	11/17/2018	PO	542.00	161.2	GENERAL GAS TURBINE UNIT INSPECTION
HEP ST4	12/10/2018	PFO	60.67	67.2	HP STARTUP BYPASS INSTRUMENTATION AND CONTROLS