



Matthew R. Bernier
ASSOCIATE GENERAL COUNSEL

June 25, 2018

VIA ELECTRONIC FILING

Carlotta Stauffer, Commission Clerk
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, Florida 32399-0850

Re: *Performance Date Report for April 2018*
Docket No. 20180001-EI

Dear Ms. Stauffer:

Attached for electronic filing in the above Docket is Duke Energy Florida, LLC's Performance Data Report for May 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/cmkn
Attachment

cc: Daniel Lee, Division of Engineering, FPSC

CERTIFICATE OF SERVICE

Docket No. 20180001-EI

I HEREBY CERTIFY that a true copy of Performance Data Report for the month of May 2018 has been furnished to the following individuals via e-mail on this 25th day of June, 2018.

/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 - May Period
1. EAF	100.00	99.71	83.44	99.07	90.94								94.51
2. PH	744	672	743	720	744								3,623
3. SH	723.1	576.0	617.3	699.2	660.7								3,276.3
4. RSH	20.9	95.7	13.3	14.1	16.0								160.0
5. UH	0.0	0.3	112.4	6.7	67.4								186.7
6. POH	0.0	0.0	111.7	0.0	0.0								111.7
7. FOH	0.0	0.3	0.8	6.7	67.4								75.1
8. MOH	0.0	0.0	0.0	0.0	0.0								0.0
9. PPOH	0.0	0.0	64.1	0.0	0.0								64.1
10. LR PP (MW)	0.0	0.0	178.5	0.0	0.0								178.5
11. PFOH	0.0	15.1	0.0	0.0	0.0								15.1
12. LR PF (MW)	0.0	120.0	0.0	0.0	0.0								120.0
13. PMOH	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
15. NSC (MW)	1080	1080	1080	1080	1080								1080
16. OPER MBTU	4,808,629	3,821,765	4,534,493	5,087,891	4,578,391								22,831,169
17. NET GEN (MWH)	627,889	499,274	535,332	670,047	575,313								2,907,855
18. ANOHR (BTU/KWH)	7,658.4	7,654.6	8,470.4	7,593.3	7,958.1								7,851.5
19. NOF (%)	80.40	80.26	80.30	88.73	80.63								82.18
20. NPC (MW)	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 - May Period
1. EAF	95.73	99.52	6.43	65.82	81.03								69.16
2. PH	744	672	743	720	744								3,623
3. SH	744.0	672.0	47.8	482.3	615.0								2,561.1
4. RSH	0.0	0.0	0.0	0.0	0.0								0.0
5. UH	0.0	0.0	695.2	237.7	129.0								1,061.9
6. POH	0.0	0.0	695.2	211.0	0.0								906.3
7. FOH	0.0	0.0	0.0	24.6	129.0								153.6
8. MOH	0.0	0.0	0.0	2.0	0.0								2.0
9. PPOH	0.6	4.0	0.0	0.0	0.0								4.6
10. LR PP (MW)	555.0	426.0	0.0	0.0	0.0								442.8
11. PFOH	65.7	6.5	0.0	6.0	39.7								117.9
12. LR PF (MW)	339.0	93.0	0.0	93.0	106.8								234.8
13. PMOH	0.0	0.0	0.0	34.1	13.4								47.4
14. LR PM (MW)	0.0	0.0	0.0	160.0	331.0								208.2
15. NSC (MW)	712	712	712	712	712								712
16. OPER MBTU	4,015,993	3,240,899	222,277	2,320,777	3,054,194								12,854,139
17. NET GEN (MWH)	413,001	321,886	22,657	218,186	299,484								1,275,214
18. ANOHR (BTU/KWH)	9,723.9	10,068.5	9,810.5	10,636.7	10,198.2								10,080.0
19. NOF (%)	77.96	67.27	66.60	63.53	68.39								69.93
20. NPC (MW)	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 - May Period
1. EAF	97.92	97.07	97.93	49.56	79.30								84.33
2. PH	744	672	743	720	744								3,623
3. SH	744.0	668.0	730.3	368.4	627.7								3,138.4
4. RSH	0.0	0.0	0.0	0.0	0.0								0.0
5. UH	0.0	4.0	12.7	351.6	116.3								484.6
6. POH	0.0	0.0	0.0	351.6	0.0								351.6
7. FOH	0.0	0.0	12.7	0.0	116.3								129.0
8. MOH	0.0	4.0	0.0	0.0	0.0								4.0
9. PPOH	2.0	0.0	0.0	90.1	279.5								371.6
10. LR PP (MW)	91.0	0.0	0.0	91.0	90.5								90.6
11. PFOH	36.5	0.0	5.0	0.0	3.0								44.5
12. LR PF (MW)	296.0	0.0	377.0	0.0	496.0								318.6
13. PMOH	0.0	22.5	0.0	0.0	0.0								22.5
14. LR PM (MW)	0.0	496.0	0.0	0.0	0.0								496.0
15. NSC (MW)	710	710	710	710	710								710
16. OPER MBTU	4,144,476	3,158,789	3,800,740	1,868,760	2,793,588								15,766,353
17. NET GEN (MWH)	429,919	314,067	386,624	173,240	262,152								1,566,002
18. ANOHR (BTU/KWH)	9,640.1	10,057.7	9,830.6	10,787.1	10,656.4								10,067.9
19. NOF (%)	81.39	66.22	74.56	66.23	58.82								70.28
20. NPC (MW)	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 - May Period
1. EAF	98.04	99.99	48.88	68.76	96.33								82.15
2. PH	744	672	743	720	744								3,623
3. SH	714.5	672.0	363.7	495.0	704.7								2,949.9
4. RSH	16.7	0.0	0.1	0.0	16.0								32.7
5. UH	12.9	0.0	379.3	224.9	23.3								640.4
6. POH	0.0	0.0	359.9	224.9	0.0								584.8
7. FOH	12.9	0.0	19.4	0.0	10.8								43.1
8. MOH	0.0	0.0	0.0	0.0	12.5								12.5
9. PPOH	0.0	0.8	0.0	0.0	6.0								6.8
10. LR PP (MW)	0.0	50.6	0.0	0.0	77.9								74.8
11. PFOH	12.4	0.0	3.6	0.0	10.4								26.4
12. LR PF (MW)	69.8	0.0	76.6	0.0	67.6								69.8
13. PMOH	0.0	0.0	0.0	0.0	11.9								11.9
14. LR PM (MW)	0.0	0.0	0.0	0.0	67.6								67.6
15. NSC (MW)	495	495	495	495	495								495
16. OPER MBTU	2,318,447	2,219,815	1,223,092	1,644,308	2,242,655								9,648,317
17. NET GEN (MWH)	321,975	304,049	166,322	225,245	306,258								1,323,849
18. ANOHR (BTU/KWH)	7,200.7	7,300.8	7,353.8	7,300.1	7,322.8								7,288.1
19. NOF (%)	91.04	91.40	92.39	91.92	87.80								90.66
20. NPC (MW)	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 - May Period
1. EAF	100.00	99.39	90.43	43.47	94.38								85.54
2. PH	744	672	743	720	744								3,623
3. SH	693.3	464.5	669.7	313.0	703.7								2,844.2
4. RSH	50.7	204.0	2.2	0.0	0.6								257.5
5. UH	0.0	3.5	71.1	407.0	39.7								521.3
6. POH	0.0	0.0	0.0	407.0	33.7								440.7
7. FOH	0.0	3.5	71.1	0.0	6.0								80.6
8. MOH	0.0	0.0	0.0	0.0	0.0								0.0
9. PPOH	0.0	0.0	0.0	0.0	8.5								8.5
10. LR PP (MW)	0.0	0.0	0.0	0.0	63.9								63.9
11. PFOH	0.0	3.4	0.0	0.0	6.2								9.6
12. LR PF (MW)	0.0	92.3	0.0	0.0	91.0								91.4
13. PMOH	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
15. NSC (MW)	527	527	527	527	527								527
16. OPER MBTU	2,282,848	1,421,231	2,365,022	1,097,825	2,362,778								9,529,704
17. NET GEN (MWH)	314,763	201,941	323,728	148,433	318,884								1,307,749
18. ANOHR (BTU/KWH)	7,252.6	7,037.9	7,305.6	7,396.1	7,409.5								7,287.1
19. NOF (%)	86.15	82.49	91.73	89.99	85.98								87.25
20. NPC (MW)	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 - May Period
1. EAF	99.51	99.62	98.60	97.89	96.11								98.33
2. PH	744	672	743	720	744								3,623
3. SH	478.3	413.2	598.2	705.8	710.6								2,906.1
4. RSH	262.5	256.5	135.9	1.4	11.6								667.8
5. UH	3.2	2.3	9.0	12.8	21.9								49.1
6. POH	0.0	0.0	0.0	0.0	0.0								0.0
7. FOH	3.2	2.3	0.8	0.0	0.0								6.3
8. MOH	0.0	0.0	8.1	12.8	21.9								42.8
9. PPOH	0.0	1.0	0.0	5.0	8.4								14.4
10. LR PP (MW)	0.0	59.1	0.0	41.8	42.1								43.2
11. PFOH	2.9	1.1	1.0	0.0	39.4								44.4
12. LR PF (MW)	81.0	81.0	81.3	0.0	64.7								66.6
13. PMOH	0.0	0.0	7.9	12.5	9.1								29.5
14. LR PM (MW)	0.0	0.0	83.0	81.7	84.0								82.7
15. NSC (MW)	521	521	521	521	521								521
16. OPER MBTU	1,547,605	1,321,596	1,931,761	2,329,506	2,328,108								9,458,576
17. NET GEN (MWH)	207,822	179,431	273,608	325,098	327,585								1,313,544
18. ANOHR (BTU/KWH)	7,446.8	7,365.5	7,060.3	7,165.6	7,106.9								7,200.8
19. NOF (%)	83.40	83.34	87.79	88.41	88.49								86.76
20. NPC (MW)	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 - May Period
1. EAF	98.03	99.97	99.99	97.21	99.74								98.98
2. PH	744	672	743	720	744								3,623
3. SH	574.2	630.0	743.0	697.7	744.0								3,389.0
4. RSH	156.8	42.0	0.0	4.8	0.0								203.5
5. UH	13.0	0.0	0.0	17.5	0.0								30.5
6. POH	0.0	0.0	0.0	0.0	0.0								0.0
7. FOH	13.0	0.0	0.0	0.0	0.0								13.0
8. MOH	0.0	0.0	0.0	17.5	0.0								17.5
9. PPOH	0.5	2.1	1.0	0.0	16.1								19.7
10. LR PP (MW)	50.1	50.9	47.7	0.0	58.1								56.6
11. PFOH	12.0	0.0	0.0	0.0	0.6								12.6
12. LR PF (MW)	69.2	0.0	0.0	0.0	54.3								68.5
13. PMOH	0.0	0.0	0.0	16.5	0.0								16.5
14. LR PM (MW)	0.0	0.0	0.0	78.1	0.0								78.1
15. NSC (MW)	504	504	504	504	504								504
16. OPER MBTU	1,859,462	1,997,841	2,490,044	2,248,954	2,465,014								11,061,314
17. NET GEN (MWH)	268,522	289,609	367,086	320,318	349,474								1,595,009
18. ANOHR (BTU/KWH)	6,924.8	6,898.4	6,783.3	7,021.0	7,053.5								6,935.0
19. NOF (%)	92.78	91.21	98.03	91.09	93.20								93.38
20. NPC (MW)	504	504	504	504	504								504

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - May 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 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 4C	5/20/2018	FFO	270.80	187.0	GEN. STATOR WINDINGS; BUSHINGS; AND TERMINALS
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.

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ACTUAL UNIT EVENT DATA -- January - May 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 - May 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

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - May 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	58.98	710.0	OTHER PULVERIZER 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

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ACTUAL UNIT EVENT DATA -- January - May 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 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	17.52	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	CONDENSER HOT WELL
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	17.52	67.6	OTHER EXCITER PROBLEMS

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ACTUAL UNIT EVENT DATA -- January - May 2018

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	TRAVELING SCREEN FOULING
HEP 2A	5/21/2018	PPO	1.08	71.3	TRAVELING SCREEN FOULING
HEP 2A	5/21/2018	PPO	1.00	61.1	TRAVELING SCREEN FOULING
HEP 2A	5/25/2018	PPO	1.00	76.2	TRAVELING SCREEN FOULING
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	TRAVELING SCREEN FOULING
HEP 2B	5/11/2018	PPO	1.50	69.5	TRAVELING SCREEN FOULING
HEP 2B	5/14/2018	FFO	0.90	179.5	LIQUID FUEL PURGE SYSTEM
HEP 2B	5/14/2018	PPO	0.58	74.5	TRAVELING SCREEN FOULING
HEP 2B	5/16/2018	PPO	2.00	79.4	TRAVELING SCREEN FOULING
HEP 2B	5/21/2018	PPO	1.08	79.5	TRAVELING SCREEN FOULING
HEP 2B	5/21/2018	PPO	1.00	69.4	TRAVELING SCREEN FOULING
HEP 2B	5/25/2018	PPO	1.00	84.5	TRAVELING SCREEN FOULING
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	TRAVELING SCREEN FOULING

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ACTUAL UNIT EVENT DATA -- January - May 2018

Hines Power Block 2

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP ST2	5/11/2018	PPO	1.50	43.4	TRAVELING SCREEN FOULING
HEP ST2	5/14/2018	PFO	0.90	84.3	LIQUID FUEL PURGE SYSTEM
HEP ST2	5/14/2018	PPO	0.58	71.4	TRAVELING SCREEN FOULING
HEP ST2	5/16/2018	PPO	2.00	51.3	TRAVELING SCREEN FOULING
HEP ST2	5/21/2018	PPO	1.08	56.3	TRAVELING SCREEN FOULING
HEP ST2	5/21/2018	PPO	2.00	58.4	TRAVELING SCREEN FOULING
HEP ST2	5/25/2018	PPO	1.00	39.3	TRAVELING SCREEN FOULING

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ACTUAL UNIT EVENT DATA -- January - May 2018

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	TRAVELING SCREEN FOULING
HEP 3A	5/21/2018	PPO	6.23	38.0	CONDENSER TUBE FOULING TUBE SIDE
HEP 3A	5/23/2018	PPO	0.53	55.2	TRAVELING SCREEN FOULING
HEP 3A	5/24/2018	PFO	52.00	49.0	TRAVELING SCREEN FOULING
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
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	TRAVELING SCREEN FOULING
HEP 3B	5/21/2018	PPO	6.23	59.0	CONDENSER TUBE FOULING TUBE SIDE
HEP 3B	5/21/2018	PPO	1.00	67.0	TRAVELING SCREEN FOULING
HEP 3B	5/23/2018	PPO	0.53	55.2	TRAVELING SCREEN FOULING
HEP 3B	5/24/2018	PFO	14.50	60.0	TRAVELING SCREEN FOULING
HEP 3B	5/25/2018	FMO	65.15	175.0	CONDENSER TUBE AND WATER BOX CLEANING
HEP ST3	1/5/2018	PFO	8.97	81.0	GAS TURBINE COMPRESSOR - BLEED VALVES
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

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ACTUAL UNIT EVENT DATA -- January - May 2018

Hines Power Block 3

Unit	Date	Outage Type	Hours	MW Affected	Description
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	TRAVELING SCREEN FOULING
HEP ST3	5/21/2018	PPO	6.23	20.0	CONDENSER TUBE FOULING TUBE SIDE
HEP ST3	5/21/2018	PPO	1.00	48.9	TRAVELING SCREEN FOULING
HEP ST3	5/23/2018	PPO	0.53	31.1	TRAVELING SCREEN FOULING
HEP ST3	5/24/2018	PFO	14.50	31.0	TRAVELING SCREEN FOULING
HEP ST3	5/25/2018	PFO	37.50	102.0	CONDENSER TUBE AND WATER BOX CLEANING
HEP ST3	5/26/2018	PMO	27.65	84.0	OTHER MISCELLANEOUS BALANCE OF PLANT PROBLEMS

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ACTUAL UNIT EVENT DATA -- January - May 2018

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	CONDENSER TUBE SHEET FOULING
HEP 4A	5/13/2018	PPO	7.00	71.9	CONDENSER TUBE SHEET FOULING
HEP 4A	5/14/2018	PPO	0.60	67.0	TRAVELING SCREEN FOULING
HEP 4A	5/21/2018	PPO	0.58	76.1	TRAVELING SCREEN FOULING
HEP 4A	5/22/2018	PPO	1.15	75.9	TRAVELING SCREEN FOULING
HEP 4A	5/24/2018	PFO	0.58	69.0	TRAVELING SCREEN FOULING
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	CONDENSER TUBE SHEET FOULING
HEP 4B	5/13/2018	PPO	7.00	70.9	CONDENSER TUBE SHEET FOULING
HEP 4B	5/14/2018	PPO	0.60	65.8	TRAVELING SCREEN FOULING
HEP 4B	5/21/2018	PPO	0.58	75.1	TRAVELING SCREEN FOULING
HEP 4B	5/22/2018	PPO	1.15	74.9	TRAVELING SCREEN FOULING
HEP 4B	5/24/2018	PFO	0.58	68.0	TRAVELING SCREEN FOULING
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

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ACTUAL UNIT EVENT DATA -- January - May 2018

Hines Power Block 4

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP ST4	4/26/2018	PMO	51.65	78.2	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST4	5/12/2018	PPO	6.75	28.1	CONDENSER TUBE SHEET FOULING
HEP ST4	5/13/2018	PPO	7.00	28.2	CONDENSER TUBE SHEET FOULING
HEP ST4	5/14/2018	PPO	0.60	31.2	TRAVELING SCREEN FOULING
HEP ST4	5/21/2018	PPO	0.58	41.2	TRAVELING SCREEN FOULING
HEP ST4	5/22/2018	PPO	1.15	36.2	TRAVELING SCREEN FOULING
HEP ST4	5/24/2018	PFO	0.58	23.2	TRAVELING SCREEN FOULING