



Matthew R. Bernier
ASSOCIATE GENERAL COUNSEL

June 15, 2020

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 May 2020*
Docket No. 20200001-EI

Dear Mr. Teitzman:

Attached for electronic filing in the above-referenced Docket is Duke Energy Florida, LLC's Performance Data Report for May 2020.

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. 20200001-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 15th day of June, 2020.

/s/ Matthew R. Bernier

Attorney

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Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2020

Bartow CC	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan - May Period
1. EAF	83.93	99.00	94.62	95.42	98.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	94.16
2. PH	744	696	743	720	744	0	0	0	0	0	0	0	3,647
3. SH	615.8	621.1	661.0	549.1	654.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,101.1
4. RSH	8.6	69.0	43.2	137.9	78.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	337.1
5. UH	119.6	5.9	38.9	33.0	11.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	208.7
6. POH	119.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	119.2
7. FOH	0.4	5.7	34.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.3
8. MOH	0.0	0.3	4.4	31.3	11.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.2
9. PPOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10. LR PP (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11. PFOH	0.0	11.2	11.4	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.7
12. LR PF (MW)	0.0	108.2	108.2	0.0	105.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	108.2
13. PMOH	0.0	0.0	0.0	0.0	21.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.7
14. LR PM (MW)	0.0	0.0	0.0	0.0	114.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	114.2
15. NSC (MW)	1144	1144	1144	1144	1144	0	0	0	0	0	0	0	1144
16. OPER MBTU	4,050,994	4,286,777	4,724,966	3,333,386	4,344,128	0	0	0	0	0	0	0	20,740,252
17. NET GEN (MWH)	555,214	552,497	602,801	443,687	577,023	0	0	0	0	0	0	0	2,731,222
18. ANOHR (BTU/KWH)	7,296.3	7,758.9	7,838.4	7,512.9	7,528.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7,593.8
19. NOF (%)	78.81	77.75	79.72	70.64	77.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	76.99
20. NPC (MW)	1144	1144	1144	1144	1144	0	0	0	0	0	0	0	1144

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2020

OSPREY CC	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan - May Period
1. EAF	99.53	96.55	0.00	54.31	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	69.85
2. PH	744	696	743	720	744	0	0	0	0	0	0	0	3,647
3. SH	194.4	47.3	0.0	286.4	650.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,178.8
4. RSH	546.7	624.7	0.0	104.6	93.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,369.4
5. UH	2.8	24.0	743.0	329.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,098.8
6. POH	0.0	24.0	743.0	24.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	791.0
7. FOH	0.6	0.0	0.0	305.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	305.6
8. MOH	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3
9. PPOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10. LR PP (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11. PFOH	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5
12. LR PF (MW)	111.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	111.3
13. PMOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14. LR PM (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15. NSC (MW)	582	582	582	582	582	0	0	0	0	0	0	0	582
16. OPER MBTU	541,636	110,673	0	790,816	2,063,929	0	0	0	0	0	0	0	3,507,055
17. NET GEN (MWH)	71,968	14,619	0	93,205	282,305	0	0	0	0	0	0	0	462,097
18. ANOHR (BTU/KWH)	7,526.1	7,570.5	0.0	8,484.7	7,311.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7,589.4
19. NOF (%)	63.60	53.12	0.00	55.91	74.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	67.35
20. NPC (MW)	582	582	582	582	582	0	0	0	0	0	0	0	582

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2020

HINES Power Block 1	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan - May Period
1. EAF	98.88	88.34	95.76	82.92	93.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	92.00
2. PH	744	696	743	720	744	0	0	0	0	0	0	0	3,647
3. SH	259.0	575.2	654.6	573.3	632.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,694.2
4. RSH	476.7	42.3	57.4	24.0	64.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	664.6
5. UH	8.3	78.5	31.0	122.7	47.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	288.2
6. POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7. FOH	8.3	61.4	31.0	1.7	11.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	113.8
8. MOH	0.0	17.1	0.0	121.0	36.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	174.4
9. PPOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10. LR PP (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11. PFOH	0.0	16.6	5.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.7
12. LR PF (MW)	0.0	77.0	49.5	82.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	71.6
13. PMOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14. LR PM (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15. NSC (MW)	490	490	490	490	490	0	0	0	0	0	0	0	490
16. OPER MBTU	780,815	1,648,431	1,880,686	1,642,991	1,823,994	0	0	0	0	0	0	0	7,776,918
17. NET GEN (MWH)	102,818	215,761	250,559	165,566	240,760	0	0	0	0	0	0	0	975,464
18. ANOHR (BTU/KWH)	7,594.1	7,640.1	7,506.0	9,923.5	7,576.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7,972.5
19. NOF (%)	81.02	76.55	78.12	58.93	77.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	73.89
20. NPC (MW)	490	490	490	490	490	0	0	0	0	0	0	0	490

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2020

HINES Power Block 2	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan - May Period
1. EAF	100.00	94.56	0.00	29.43	81.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	60.96
2. PH	744	696	743	720	744	0	0	0	0	0	0	0	3,647
3. SH	703.6	559.2	0.0	246.4	578.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,087.9
4. RSH	40.5	99.0	0.0	12.9	40.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	192.5
5. UH	0.0	37.9	743.0	460.6	125.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,366.6
6. POH	0.0	24.2	743.0	442.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,209.5
7. FOH	0.0	6.9	0.0	18.3	26.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	51.3
8. MOH	0.0	6.8	0.0	0.0	99.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	105.9
9. PPOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10. LR PP (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11. PFOH	0.0	0.0	0.0	165.1	41.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	206.8
12. LR PF (MW)	0.0	0.0	0.0	150.2	120.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	144.1
13. PMOH	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
14. LR PM (MW)	0.0	0.0	0.0	65.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65.1
15. NSC (MW)	524	524	524	524	524	0	0	0	0	0	0	0	524
16. OPER MBTU	2,149,462	1,871,576	0	682,347	1,638,690	0	0	0	0	0	0	0	6,342,076
17. NET GEN (MWH)	290,864	252,437	0	89,489	214,825	0	0	0	0	0	0	0	847,615
18. ANOHR (BTU/KWH)	7,389.9	7,414.0	0.0	7,624.9	7,628.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7,482.3
19. NOF (%)	78.90	86.15	0.00	69.30	70.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	77.48
20. NPC (MW)	524	524	524	524	524	0	0	0	0	0	0	0	524

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2020

HINES Power Block 3	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan - May Period
1. EAF	100.00	99.52	100.00	99.65	77.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	95.24
2. PH	744	696	743	720	744	0	0	0	0	0	0	0	3,647
3. SH	460.1	460.2	726.7	656.0	521.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,823.9
4. RSH	284.0	233.0	16.3	61.5	55.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	649.9
5. UH	0.0	2.8	0.0	2.5	167.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	173.2
6. POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7. FOH	0.0	2.8	0.0	0.0	54.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.6
8. MOH	0.0	0.0	0.0	2.5	113.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	115.6
9. PPOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10. LR PP (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11. PFOH	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0
12. LR PF (MW)	0.0	61.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	61.6
13. PMOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14. LR PM (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15. NSC (MW)	515	515	515	515	515	0	0	0	0	0	0	0	515
16. OPER MBTU	1,364,781	1,411,103	2,170,967	1,926,864	1,459,758	0	0	0	0	0	0	0	8,333,473
17. NET GEN (MWH)	181,972	196,056	299,188	266,592	197,411	0	0	0	0	0	0	0	1,141,219
18. ANOHR (BTU/KWH)	7,499.9	7,197.5	7,256.2	7,227.8	7,394.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7,302.3
19. NOF (%)	76.81	82.72	79.95	78.92	73.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	78.47
20. NPC (MW)	515	515	515	515	515	0	0	0	0	0	0	0	515

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2020

HINES Power Block 4	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan - May Period
1. EAF	99.14	100.00	94.34	94.07	99.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	97.47
2. PH	744	696	743	720	744	0	0	0	0	0	0	0	3,647
3. SH	720.9	648.9	663.2	556.2	697.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,286.5
4. RSH	17.6	47.1	38.2	121.2	46.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	270.7
5. UH	5.6	0.0	41.7	42.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	89.9
6. POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7. FOH	5.6	0.0	41.7	42.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	89.9
8. MOH	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
9. PPOH	0.0	0.0	0.0	0.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0
10. LR PP (MW)	0.0	0.0	0.0	0.0	63.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.1
11. PFOH	5.6	0.0	3.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.2
12. LR PF (MW)	78.1	0.0	62.4	89.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	73.6
13. PMOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14. LR PM (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15. NSC (MW)	516	516	516	516	516	0	0	0	0	0	0	0	516
16. OPER MBTU	2,200,579	1,936,502	1,918,280	1,634,032	2,088,963	0	0	0	0	0	0	0	9,778,356
17. NET GEN (MWH)	317,533	278,017	267,248	228,911	295,448	0	0	0	0	0	0	0	1,387,157
18. ANOHR (BTU/KWH)	6,930.2	6,965.4	7,177.9	7,138.3	7,070.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7,049.2
19. NOF (%)	85.37	83.03	78.10	79.76	82.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	81.80
20. NPC (MW)	516	516	516	516	516	0	0	0	0	0	0	0	516

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - May 2020

Bartow CC

Unit	Date	Outage Type	Hours	MW Affected	Description
BCC 4A	02-04-20	FMO	1.42	190.8	PROTECTION DEVICES
BCC 4A	03-30-20	FMO	25.00	190.8	GAS TURBINE - BATTERY AND CHARGER SYSTEM
BCC 4A	04-01-20	FMO	20.00	190.8	GAS TURBINE - BATTERY AND CHARGER SYSTEM
BCC 4A	04-28-20	FMO	10.00	190.8	OTHER GAS TURBINE EXHAUST PROBLEMS
BCC 4B	01-01-20	PO	668.72	190.8	MAJOR GAS TURBINE OVERHAUL
BCC 4B	01-28-20	PO	14.93	190.8	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
BCC 4B	01-30-20	FFO	2.18	190.8	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
BCC 4B	02-12-20	FFO	0.08	190.8	IP EXTRACTION STEAM INSTRUMENTS AND CONTROLS
BCC 4B	02-12-20	FFO	3.67	190.8	HP EXTRACTION STEAM INSTRUMENTS AND CONTROLS
BCC 4B	02-18-20	FFO	2.83	190.8	BLADE PATH TEMPERATURE SPREAD
BCC 4B	02-25-20	FFO	15.87	190.8	PILOT FUEL PIPING AND VALVES
BCC 4B	04-23-20	FMO	81.00	190.8	GAS TURBINE - FUEL PIPING AND VALVES
BCC 4B	05-14-20	FFO	0.17	190.8	GAS TURBINE - FIRE DETECTION AND EXTINGUISHING SYS
BCC 4C	04-01-20	FMO	46.00	190.8	GAS TURBINE - BATTERY AND CHARGER SYSTEM
BCC 4C	04-07-20	FFO	10.00	190.8	GAS TURBINE - IGNITION SYSTEM
BCC 4D	02-11-20	FFO	0.08	190.8	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
BCC 4D	02-15-20	FFO	6.25	190.8	GT CONT. SYS. - INTERNAL AND TERMINATION WIRING
BCC 4D	02-16-20	FFO	3.75	190.8	GT CONT. SYS. - INTERNAL AND TERMINATION WIRING
BCC 4D	03-22-20	FFO	34.18	190.8	PILOT FUEL PIPING AND VALVES
BCC 4D	04-30-20	FMO	87.55	190.8	OTHER GAS TURBINE EXHAUST PROBLEMS
BCC 4S	02-04-20	PFO	1.42	108.3	PROTECTION DEVICES
BCC 4S	02-12-20	PFO	3.67	108.2	HP EXTRACTION STEAM INSTRUMENTS AND CONTROLS
BCC 4S	02-15-20	PFO	6.25	108.2	GT CONT. SYS. - INTERNAL AND TERMINATION WIRING
BCC 4S	02-16-20	PFO	3.75	108.2	GT CONT. SYS. - INTERNAL AND TERMINATION WIRING
BCC 4S	02-18-20	PFO	2.83	108.2	BLADE PATH TEMPERATURE SPREAD
BCC 4S	02-25-20	PFO	15.87	108.2	PILOT FUEL PIPING AND VALVES
BCC 4S	03-07-20	FFO	94.35	380.7	TURBINE - OTHER HYDRAULIC SYSTEM PROBLEMS

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - May 2020

Bartow CC

Unit	Date	Outage Type	Hours	MW Affected	Description
BCC 4S	03-22-20	PFO	34.18	108.2	PILOT FUEL PIPING AND VALVES
BCC 4S	05-01-20	PMO	65.12	114.2	OTHER GAS TURBINE EXHAUST PROBLEMS
BCC 4S	05-14-20	PFO	0.17	114.0	GAS TURBINE - FIRE DETECTION AND EXTINGUISHING SYS

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ACTUAL UNIT EVENT DATA -- January - May 2020

Osprey CC

Unit	Date	Outage Type	Hours	MW Affected	Description
OS1CT1	01-06-20	FMO	7.50	175.3	FLASHBACK (INCLUDING INSTRUMENTATION)
OS1CT1	02-29-20	PO	670.98	175.3	GENERAL GAS TURBINE UNIT INSPECTION
OS1CT1	03-27-20	PO	120.02	175.3	OTHER MISCELLANEOUS BALANCE OF PLANT PROBLEMS
OS1CT1	04-02-20	FFO	305.00	175.3	TURBINE LUBE OIL PUMP DRIVE
OS1CT2	02-29-20	PO	670.98	175.3	GAS TURBINE - BOROSCOPE INSPECTION
OS1CT2	03-27-20	PO	120.02	175.3	OTHER MISCELLANEOUS BALANCE OF PLANT PROBLEMS
OS1CT2	04-02-20	FFO	305.00	175.3	TURBINE LUBE OIL PUMP DRIVE
OS1ST1	01-06-20	PFO	7.48	111.4	FLASHBACK (INCLUDING INSTRUMENTATION)
OS1ST1	01-11-20	FFO	1.03	231.4	CONDENSER LOSS OF VACUUM
OS1ST1	01-11-20	FFO	0.38	231.4	CONDENSER LOSS OF VACUUM
OS1ST1	02-29-20	PO	670.98	231.4	INSPECTION
OS1ST1	03-27-20	PO	120.02	231.4	OTHER MISCELLANEOUS BALANCE OF PLANT PROBLEMS
OS1ST1	04-02-20	FFO	305.00	231.4	TURBINE LUBE OIL PUMP DRIVE

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ACTUAL UNIT EVENT DATA -- January - May 2020

Hines Power Block 1

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 1A	01-20-20	FFO	24.95	163.0	COMBINED CYCLE INSTRUMENTS AND CONTROLS
HEP 1A	02-22-20	FMO	51.42	163.0	GENERATOR SEAL OIL SYSTEM AND SEALS
HEP 1A	02-27-20	FFO	81.17	163.0	GAS TURBINE - CONTROLS AND INSTRUMENTS
HEP 1A	03-22-20	PFO	5.00	46.0	SERVICE WATER HEAT EXCHANGERS
HEP 1A	04-13-20	FFO	4.98	163.0	GAS TURBINE VIBRATION
HEP 1A	04-25-20	FMO	152.00	163.0	OTHER MISCELLANEOUS BALANCE OF PLANT PROBLEMS
HEP 1A	05-18-20	FFO	17.42	163.0	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
HEP 1A	05-20-20	FFO	16.82	163.0	GAS TURBINE VIBRATION
HEP 1B	02-18-20	FFO	36.62	169.0	GAS TURBINE - FIRE DETECTION AND EXTINGUISHING SYS
HEP 1B	02-27-20	FFO	2.45	169.0	FEEDWATER REGULATING (BOILER LEVEL CONTROL) VALVE
HEP 1B	02-28-20	FFO	76.58	169.0	CONDENSER LOSS OF VACUUM
HEP 1B	03-22-20	PFO	5.00	60.0	SERVICE WATER HEAT EXCHANGERS
HEP 1B	04-25-20	FMO	152.00	169.0	OTHER MISCELLANEOUS BALANCE OF PLANT PROBLEMS
HEP ST1	02-22-20	PFO	51.42	77.0	GENERATOR SEAL OIL SYSTEM AND SEALS
HEP ST1	02-27-20	FFO	3.25	158.0	OTHER MISCELLANEOUS STEAM TURBINE PROBLEMS
HEP ST1	02-28-20	FFO	76.67	158.0	CONDENSER LOSS OF VACUUM
HEP ST1	03-22-20	PFO	5.00	42.0	SERVICE WATER HEAT EXCHANGERS
HEP ST1	04-13-20	PFO	6.48	82.0	GAS TURBINE VIBRATION
HEP ST1	04-25-20	FMO	168.00	158.0	OTHER MISCELLANEOUS BALANCE OF PLANT PROBLEMS

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ACTUAL UNIT EVENT DATA -- January - May 2020

Hines Power Block 2

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 2A	02-04-20	FFO	17.70	172.0	BLADE PATH TEMPERATURE SPREAD
HEP 2A	02-14-20	FMO	20.68	172.0	FEEDWATER REGULATING (BOILER LEVEL CONTROL) VALVE
HEP 2A	02-28-20	PO	1208.08	172.0	GENERAL GAS TURBINE UNIT INSPECTION
HEP 2A	04-19-20	FFO	43.35	172.0	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
HEP 2A	04-21-20	PFO	26.82	152.0	OTHER COMPRESSOR PROBLEMS
HEP 2A	04-22-20	PFO	218.90	152.0	OTHER COMPRESSOR PROBLEMS
HEP 2A	05-05-20	FMO	221.00	172.0	GAS TURBINE VIBRATION
HEP 2B	02-25-20	FFO	3.23	175.0	TRANSMISSION SYSTEM PROBLEMS OTHER THAN CATASTROPH
HEP 2B	02-28-20	PO	1207.72	175.0	GENERAL GAS TURBINE UNIT INSPECTION
HEP 2B	04-19-20	PMO	4.17	65.0	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
HEP 2B	04-21-20	FFO	12.18	175.0	OTHER EXCITER PROBLEMS
HEP 2B	05-23-20	FMO	79.02	175.0	GAS TURBINE VIBRATION
HEP 2B	05-26-20	FFO	4.13	175.0	HP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP 2B	05-26-20	FFO	23.67	175.0	GENERATOR VOLTAGE CONTROL
HEP 2B	05-28-20	FFO	50.62	175.0	GENERATOR VOLTAGE CONTROL
HEP ST2	02-28-20	PO	1212.57	177.0	GENERAL GAS TURBINE UNIT INSPECTION
HEP ST2	04-19-20	PFO	41.13	94.0	OTHER GAS TURBINE FUEL SYSTEM PROBLEMS
HEP ST2	04-21-20	PFO	12.18	94.0	OTHER GAS TURBINE FUEL SYSTEM PROBLEMS
HEP ST2	04-21-20	PFO	26.82	125.0	OTHER COMPRESSOR PROBLEMS
HEP ST2	04-22-20	PFO	218.90	167.0	OTHER COMPRESSOR PROBLEMS
HEP ST2	05-26-20	PFO	23.67	94.0	GENERATOR VOLTAGE CONTROL
HEP ST2	05-28-20	PFO	50.62	94.0	GENERATOR VOLTAGE CONTROL

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ACTUAL UNIT EVENT DATA -- January - May 2020

Hines Power Block 3

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 3A	02-11-20	PFO	4.00	71.0	OTHER MISCELLANEOUS GENERATOR PROBLEMS
HEP 3A	02-25-20	FFO	2.85	171.0	TRANSMISSION SYSTEM PROBLEMS OTHER THAN CATASTROPH
HEP 3A	04-10-20	FMO	2.50	171.0	CIRCULATING WATER SCREENWASH SYSTEM
HEP 3A	05-12-20	FFO	142.40	171.0	FEEDWATER PUMP
HEP 3A	05-18-20	FMO	127.28	171.0	MAIN TRANSFORMER
HEP 3B	02-11-20	PFO	4.00	71.0	OTHER MISCELLANEOUS GENERATOR PROBLEMS
HEP 3B	02-25-20	FFO	1.72	171.0	TRANSMISSION SYSTEM PROBLEMS OTHER THAN CATASTROPH
HEP 3B	04-10-20	FMO	2.50	171.0	CIRCULATING WATER SCREENWASH SYSTEM
HEP 3B	05-12-20	FFO	10.05	171.0	FEEDWATER PUMP
HEP 3B	05-18-20	FMO	103.83	171.0	MAIN TRANSFORMER
HEP 3B	05-22-20	FFO	0.75	171.0	CONDENSER LOSS OF VACUUM
HEP ST3	02-11-20	PFO	4.00	43.0	OTHER MISCELLANEOUS GENERATOR PROBLEMS
HEP ST3	02-25-20	FFO	3.92	173.0	TRANSMISSION SYSTEM PROBLEMS OTHER THAN CATASTROPH
HEP ST3	04-10-20	FMO	2.50	173.0	CIRCULATING WATER SCREENWASH SYSTEM
HEP ST3	05-12-20	FFO	12.03	173.0	FEEDWATER PUMP
HEP ST3	05-18-20	FMO	108.38	173.0	MAIN TRANSFORMER

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ACTUAL UNIT EVENT DATA -- January - May 2020

Hines Power Block 4

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 4A	01-25-20	FFO	16.85	173.0	GAS TURBINE COMPRESSOR - BLEED VALVES
HEP 4A	03-03-20	FFO	5.88	173.0	OPERATOR ERROR
HEP 4A	03-03-20	FFO	2.40	173.0	OPERATOR ERROR
HEP 4A	03-04-20	FFO	1.48	173.0	OTHER TURBINE INSTRUMENT AND CONTROL PROBLEMS
HEP 4A	03-04-20	FFO	11.23	173.0	OTHER MISCELLANEOUS BALANCE OF PLANT PROBLEMS
HEP 4A	03-04-20	FFO	4.13	173.0	OTHER TURBINE INSTRUMENT AND CONTROL PROBLEMS
HEP 4A	03-04-20	FFO	11.68	173.0	OTHER TURBINE INSTRUMENT AND CONTROL PROBLEMS
HEP 4A	03-22-20	PFO	3.00	80.0	SERVICE WATER HEAT EXCHANGERS
HEP 4A	03-29-20	FFO	1.63	173.0	GAS TURBINE CONTROL SYSTEM - LOGIC PROBLEMS
HEP 4A	04-02-20	FFO	37.87	173.0	TURBINE MAIN STOP VALVES
HEP 4A	04-12-20	FFO	4.50	173.0	OTHER MISCELLANEOUS BALANCE OF PLANT PROBLEMS
HEP 4A	05-29-20	PPO	9.00	78.0	CONDENSER TUBE SHEET FOULING
HEP 4B	03-03-20	FFO	14.60	172.0	OPERATOR ERROR
HEP 4B	03-04-20	FFO	9.30	172.0	OTHER TURBINE INSTRUMENT AND CONTROL PROBLEMS
HEP 4B	03-04-20	FFO	22.85	172.0	OTHER TURBINE INSTRUMENT AND CONTROL PROBLEMS
HEP 4B	03-22-20	PFO	3.00	79.0	SERVICE WATER HEAT EXCHANGERS
HEP 4B	04-02-20	FFO	37.30	172.0	TURBINE MAIN STOP VALVES
HEP 4B	04-12-20	FFO	8.53	172.0	OTHER MISCELLANEOUS BALANCE OF PLANT PROBLEMS
HEP 4B	04-13-20	FFO	1.13	172.0	FEEDWATER PUMP
HEP 4B	05-29-20	PPO	9.00	77.0	CONDENSER TUBE SHEET FOULING
HEP ST4	01-25-20	PFO	16.85	78.0	GAS TURBINE COMPRESSOR - BLEED VALVES
HEP ST4	03-03-20	FFO	7.77	171.0	TURBINE TRIP DEVICES (INCLUDING INSTRUMENTS)
HEP ST4	03-03-20	FFO	3.13	171.0	OPERATOR ERROR
HEP ST4	03-04-20	FFO	2.32	171.0	OTHER TURBINE INSTRUMENT AND CONTROL PROBLEMS
HEP ST4	03-04-20	FFO	7.97	171.0	OTHER MISCELLANEOUS BALANCE OF PLANT PROBLEMS
HEP ST4	03-04-20	FFO	6.23	171.0	OTHER TURBINE INSTRUMENT AND CONTROL PROBLEMS
HEP ST4	03-04-20	FFO	12.50	171.0	OTHER TURBINE INSTRUMENT AND CONTROL PROBLEMS

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ACTUAL UNIT EVENT DATA -- January - May 2020

Hines Power Block 4

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP ST4	03-22-20	PFO	3.00	28.0	SERVICE WATER HEAT EXCHANGERS
HEP ST4	04-02-20	FFO	37.40	171.0	TURBINE MAIN STOP VALVES
HEP ST4	04-12-20	FFO	1.02	171.0	OTHER MISCELLANEOUS BALANCE OF PLANT PROBLEMS
HEP ST4	04-12-20	PFO	1.75	89.0	OTHER MISCELLANEOUS BALANCE OF PLANT PROBLEMS
HEP ST4	05-29-20	PPO	9.00	34.0	CONDENSER TUBE SHEET FOULING