



Matthew R. Bernier
ASSOCIATE GENERAL COUNSEL

August 23, 2019

VIA ELECTRONIC FILING

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

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

Dear Mr. Teitzman:

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

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

Sincerely,

/s/ Matthew R. Bernier

Matthew R. Bernier

MRB/cmK
Attachment

cc: Director, Division of Engineering, FPSC

CERTIFICATE OF SERVICE

Docket No. 20190001-EI

I HEREBY CERTIFY that a true copy of the above-mentioned document has been furnished to the following individuals via e-mail on this 23rd day of August, 2019.

/s/ Matthew R. Bernier

Attorney

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Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2019

Bartow CC	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan - Jul Period
1. EAF	98.52	97.86	62.26	85.22	96.58	99.14	99.54						91.21
2. PH	744	672	743	720	744	720	744						5,087
3. SH	603.9	593.9	485.5	612.3	712.0	695.1	737.1						4,439.8
4. RSH	129.0	65.0	8.7	1.3	12.3	20.2	4.2						240.9
5. UH	11.0	13.1	248.8	106.4	19.7	4.7	2.7						406.3
6. POH	0.0	0.0	133.5	70.6	0.0	0.0	0.0						204.0
7. FOH	8.5	13.1	0.0	14.1	9.2	4.7	1.2						50.7
8. MOH	2.5	0.0	115.4	21.7	10.6	0.0	1.5						151.6
9. PPOH	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
11. PFOH	0.0	21.6	0.0	0.0	15.4	24.8	1.9						63.7
12. LR PF (MW)	0.0	67.0	0.0	0.0	187.0	67.0	186.8						99.6
13. PMOH	0.0	0.0	182.7	0.0	17.8	0.0	2.3						202.8
14. LR PM (MW)	0.0	0.0	187.0	0.0	187.0	0.0	187.2						187.0
15. NSC (MW)	1080.0	1080.0	1080.0	1080.0	1080.0	1080	1080						1080
16. OPER MBTU	3968623.0	3524793.8	2757929.9	3820788.1	4860440.5	4,828,905	5,080,089						28,841,570
17. NET GEN (MWH)	519,987	458,412	365,538	483,493	640,960	630,820	650,624						3,749,834
18. ANOHR (BTU/KWH)	7,632.2	7,689.1	7,544.9	7,902.5	7,583.1	7,655.0	7,808.0						7,691.4
19. NOF (%)	79.72	71.47	69.72	73.11	83.36	84.03	81.73						78.20
20. NPC (MW)	1080	1080	1080	1080	1080	1080	1080						1080

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2019

CRYSTAL RIVER 4	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan - Jul Period
1. EAF	95.90	98.58	99.85	99.10	99.94	98.66	98.20						98.60
2. PH	744	672	743	720	744	720	744						5,087
3. SH	249.0	85.3	743.0	720.0	744.0	720.0	742.2						4,003.4
4. RSH	465.5	582.4	0.0	0.0	0.0	0.0	0.0						1,047.9
5. UH	29.6	4.2	0.0	0.0	0.0	0.0	1.9						35.7
6. POH	0.0	4.2	0.0	0.0	0.0	0.0	0.0						4.2
7. FOH	29.6	0.0	0.0	0.0	0.0	0.0	0.0						29.6
8. MOH	0.0	0.0	0.0	0.0	0.0	0.0	1.9						1.9
9. PPOH	0.0	6.7	8.5	39.6	0.0	0.0	0.0						54.7
10. LR PP (MW)	0.0	93.0	93.0	108.4	0.0	0.0	0.0						104.1
11. PFOH	2.2	2.9	0.0	1.7	0.0	70.0	71.5						148.3
12. LR PF (MW)	284.4	93.0	0.0	188.0	0.0	98.2	115.2						110.1
13. PMOH	0.0	31.0	0.0	0.0	3.3	0.0	0.0						34.3
14. LR PM (MW)	0.0	93.0	0.0	0.0	93.1	0.0	0.0						93.0
15. NSC (MW)	712	712	712	712	712	712	712						712
16. OPER MBTU	917,440	391,844	3,216,166	3,273,475	3,558,000	3,435,077	3,020,101						17,812,104
17. NET GEN (MWH)	82,152	31,051	323,578	318,328	344,212	326,986	288,033						1,714,340
18. ANOHR (BTU/KWH)	11,167.6	12,619.4	9,939.4	10,283.3	10,336.7	10,505.3	10,485.3						10,390.1
19. NOF (%)	46.35	51.11	61.17	62.10	64.98	63.78	54.51						60.14
20. NPC (MW)	712	712	712	712	712	712	712						712

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2019

CRYSTAL RIVER 5	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan - Jul Period
1. EAF	99.93	78.57	0.00	0.00	0.05	55.88	77.95						44.31
2. PH	744	672	743	720	744	720	744						5,087
3. SH	547.7	0.0	0.0	0.0	0.4	450.0	598.3						1,596.4
4. RSH	196.3	528.0	0.0	0.0	0.0	0.0	22.1						746.4
5. UH	0.0	144.0	743.0	720.0	743.6	270.0	123.7						2,744.3
6. POH	0.0	144.0	743.0	720.0	311.0	3.3	0.0						1,921.3
7. FOH	0.0	0.0	0.0	0.0	432.6	266.7	0.0						699.3
8. MOH	0.0	0.0	0.0	0.0	0.0	0.0	123.7						123.7
9. PPOH	0.0	0.0	0.0	0.0	0.0	0.0	4.9						4.9
10. LR PP (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0						0.0
11. PFOH	1.0	0.0	0.0	0.0	0.0	582.0	402.5						985.5
12. LR PF (MW)	377.0	0.0	0.0	0.0	0.0	58.2	71.2						63.8
13. PMOH	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
15. NSC (MW)	710	710	710	710	710	710	710						710
16. OPER MBTU	2,006,569	0	0	0	13,291	1,663,716	2,298,627						5,982,203
17. NET GEN (MWH)	185,022	0	0	0	0	148,500	226,349						559,871
18. ANOHR (BTU/KWH)	10,845.0	0.0	0.0	0.0	0.0	11,203.5	10,155.2						10,685.0
19. NOF (%)	47.58	0.00	0.00	0.00	0.00	46.48	53.29						49.40
20. NPC (MW)	710	710	710	710	710	710	710						710

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2019

HINES Power Block 1	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan - Jul Period
1. EAF	47.59	89.85	98.58	39.42	76.09	95.57	98.31						77.84
2. PH	744	672	743	720	744	720	744						5,087
3. SH	356.2	588.3	669.0	260.0	562.9	555.8	705.6						3,697.7
4. RSH	25.7	17.4	66.4	28.5	5.0	138.1	25.8						306.9
5. UH	362.1	66.2	7.6	431.5	176.1	26.1	12.6						1,082.3
6. POH	0.0	0.0	0.0	391.9	158.6	0.0	0.0						550.6
7. FOH	6.7	0.0	7.6	39.6	5.8	26.1	12.6						98.5
8. MOH	355.4	66.2	0.0	0.0	11.8	0.0	0.0						433.3
9. PPOH	0.0	0.0	12.1	0.0	11.3	0.0	0.0						23.4
10. LR PP (MW)	0.0	0.0	68.1	0.0	50.3	0.0	0.0						59.5
11. PFOH	166.5	12.0	7.3	26.3	5.4	69.3	12.3						299.0
12. LR PF (MW)	82.0	82.0	85.1	78.4	51.3	41.0	0.0						68.3
13. PMOH	0.0	0.0	0.0	2.7	0.0	0.0	0.0						2.7
14. LR PM (MW)	0.0	0.0	0.0	78.1	0.0	0.0	0.0						78.1
15. NSC (MW)	490	490	490	490	490	490	490						490
16. OPER MBTU	872,136	1,738,925	1,939,335	666,151	1,699,555	1,636,821	2,139,685						10,692,607
17. NET GEN (MWH)	114,118	234,944	260,779	88,049	226,948	220,581	284,517						1,429,936
18. ANOHR (BTU/KWH)	7,642.4	7,401.4	7,436.7	7,565.7	7,488.7	7,420.5	7,520.4						7,477.7
19. NOF (%)	65.39	81.50	79.55	69.13	82.29	80.99	82.29						78.92
20. NPC (MW)	490	490	490	490	490	490	490						490

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2019

HINES Power Block 2	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan - Jul Period
1. EAF	99.35	99.93	99.06	100.00	99.98	99.86	99.90						99.72
2. PH	744	672	743	720	744	720	744						5,087
3. SH	522.1	594.2	262.4	703.8	741.6	693.4	743.0						4,260.4
4. RSH	217.0	77.8	142.3	16.2	2.4	26.6	1.0						483.4
5. UH	4.8	0.0	7.0	0.0	0.0	0.0	0.0						11.8
6. POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0						0.0
7. FOH	4.8	0.0	0.0	0.0	0.0	0.0	0.0						4.8
8. MOH	0.0	0.0	7.0	0.0	0.0	0.0	0.0						7.0
9. PPOH	0.0	4.5	0.0	0.0	1.5	4.0	6.3						16.3
10. LR PP (MW)	0.0	51.1	0.0	0.0	56.4	126.0	59.5						73.2
11. PFOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0						0.0
12. LR PF (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0						0.0
13. PMOH	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
15. NSC (MW)	512	512	512	512	512	512	512						512
16. OPER MBTU	1,575,600	1,841,414	767,331	2,404,824	2,515,630	2,265,725	2,430,450						13,800,974
17. NET GEN (MWH)	216,465	250,392	94,594	326,935	338,507	305,167	325,431						1,857,491
18. ANOHR (BTU/KWH)	7,278.8	7,354.1	8,111.8	7,355.7	7,431.5	7,424.5	7,468.4						7,429.9
19. NOF (%)	80.97	82.31	70.40	90.73	89.15	85.96	85.55						85.15
20. NPC (MW)	512	512	512	512	512	512	512						512

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2019

HINES Power Block 3	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan - Jul Period
1. EAF	99.51	100.00	99.99	95.45	99.92	99.20	99.54						99.09
2. PH	744	672	743	720	744	720	744						5,087
3. SH	700.1	638.3	343.6	606.6	744.0	604.2	726.7						4,363.5
4. RSH	40.7	33.7	399.4	86.5	0.0	112.4	13.9						686.6
5. UH	3.2	0.0	0.0	26.9	0.0	3.4	3.4						37.0
6. POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0						0.0
7. FOH	3.2	0.0	0.0	23.9	0.0	3.4	3.4						34.0
8. MOH	0.0	0.0	0.0	3.0	0.0	0.0	0.0						3.0
9. PPOH	0.0	0.0	1.0	18.8	5.8	8.0	0.0						33.7
10. LR PP (MW)	0.0	0.0	52.2	54.8	55.0	127.3	0.0						72.0
11. PFOH	3.3	0.0	0.0	24.5	0.0	3.7	0.0						31.5
12. LR PF (MW)	75.3	0.0	0.0	80.4	0.0	49.6	0.0						76.3
13. PMOH	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
15. NSC (MW)	516	516	516	516	516	516	516						516
16. OPER MBTU	2,287,431	1,840,031	1,054,849	1,858,493	2,424,687	1,893,691	2,266,552						13,625,734
17. NET GEN (MWH)	308,437	251,190	147,150	263,134	337,696	262,628	316,781						1,887,016
18. ANOHR (BTU/KWH)	7,416.2	7,325.3	7,168.5	7,062.9	7,180.1	7,210.5	7,155.0						7,220.8
19. NOF (%)	85.38	76.26	82.99	84.07	87.96	84.25	84.48						83.81
20. NPC (MW)	516	516	516	516	516	516	516						516

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2019

HINES Power Block 4	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan - Jul Period
1. EAF	99.64	99.77	98.79	99.78	99.60	93.95	69.25						94.30
2. PH	744	672	743	720	744	720	744						5,087
3. SH	677.2	637.2	680.2	678.2	738.9	603.6	509.8						4,525.1
4. RSH	64.8	33.4	62.8	41.8	2.9	72.8	5.4						284.0
5. UH	2.0	1.4	0.0	0.0	2.2	43.6	228.8						277.9
6. POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0						0.0
7. FOH	2.0	1.4	0.0	0.0	2.2	43.6	228.8						277.9
8. MOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0						0.0
9. PPOH	5.5	0.0	202.9	39.8	5.1	0.0	0.0						253.3
10. LR PP (MW)	62.4	0.0	21.2	21.0	59.3	0.0	0.0						22.8
11. PFOH	0.0	0.0	8.5	0.0	2.1	0.0	0.0						10.6
12. LR PF (MW)	0.0	0.0	38.7	0.0	55.1	0.0	0.0						42.0
13. PMOH	0.0	1.3	0.0	0.0	0.0	0.0	0.0						1.3
14. LR PM (MW)	0.0	78.1	0.0	0.0	0.0	0.0	0.0						78.1
15. NSC (MW)	516	516	516	516	516	516	516						516
16. OPER MBTU	2,212,083	1,913,058	2,029,918	2,065,703	2,421,807	1,882,729	1,630,498						14,155,797
17. NET GEN (MWH)	319,434	276,729	292,615	303,025	342,323	266,653	226,841						2,027,620
18. ANOHR (BTU/KWH)	6,925.0	6,913.1	6,937.2	6,816.9	7,074.6	7,060.6	7,187.8						6,981.5
19. NOF (%)	91.42	84.16	83.37	86.59	89.78	85.61	86.24						86.84
20. NPC (MW)	516	516	516	516	516	516	516						516

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - July 2019

Bartow CC

Unit	Date	Outage Type	Hours	MW Affected	Description
BCC 4A	1/19/2019	FMO	14.00	185.0	OTHER CO REDUCTION PROBLEMS
BCC 4A	3/1/2019	PO	1135.93	185.0	MAJOR GAS TURBINE OVERHAUL
BCC 4A	4/18/2019	FFO	10.92	185.0	FLASHBACK (INCLUDING INSTRUMENTATION)
BCC 4A	4/19/2019	FFO	16.07	185.0	FLASHBACK (INCLUDING INSTRUMENTATION)
BCC 4A	7/20/2019	FMO	4.13	185.0	MAIN TRANSFORMER
BCC 4B	2/11/2019	FFO	74.72	183.0	GAS TURBINE - STARTING SYSTEM (INCLUDING MOTOR)
BCC 4B	4/2/2019	FMO	117.52	183.0	GAS TURBINE - EXHAUST SYSTEM CHAMBER
BCC 4B	5/28/2019	FFO	1.42	183.0	GAS TURBINE - LUBE OIL PUMPS
BCC 4B	6/20/2019	FFO	26.67	183.0	GAS TURBINE - LUBE OIL PUMPS
BCC 4C	3/3/2019	FMO	558.70	187.0	MAJOR GAS TURBINE OVERHAUL
BCC 4C	4/2/2019	FMO	6.57	187.0	GAS TURBINE - FUEL PIPING AND VALVES
BCC 4C	5/15/2019	FMO	57.67	187.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
BCC 4C	7/20/2019	FMO	3.90	187.0	MAIN TRANSFORMER
BCC 4C	7/21/2019	FFO	6.67	187.0	HP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
BCC 4D	3/27/2019	FMO	73.15	186.0	GAS TURBINE - EXHAUST SYSTEM CHAMBER
BCC 4D	5/11/2019	FFO	2.77	186.0	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
BCC 4D	5/13/2019	FFO	0.70	186.0	COMBINED CYCLE INSTRUMENTS AND CONTROLS
BCC 4D	5/23/2019	FFO	46.20	186.0	OTHER GAS TURBINE FUEL SYSTEM PROBLEMS
BCC 4S	1/7/2019	FFO	30.10	339.0	CIRCULATING WATER PUMPS
BCC 4S	2/11/2019	PFO	74.72	67.0	GAS TURBINE - STARTING SYSTEM (INCLUDING MOTOR)
BCC 4S	3/3/2019	PMO	558.70	187.0	MAJOR GAS TURBINE OVERHAUL
BCC 4S	3/27/2019	PMO	73.10	187.0	GAS TURBINE - EXHAUST SYSTEM CHAMBER
BCC 4S	4/19/2019	FFO	1.23	339.0	CONTRACTOR ERROR
BCC 4S	4/19/2019	FFO	31.40	339.0	VIBRATION OF THE TURBINE GENERATOR UNIT
BCC 4S	5/11/2019	PFO	2.77	187.0	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
BCC 4S	5/15/2019	PMO	61.67	187.0	OTHER LP STEAM SYSTEM PROBLEMS

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - July 2019

Crystal River 4

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

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - July 2019

Crystal River 5

Date	Outage Type	Hours	MW Affected	Description
1/11/2019	PFO	1.00	377.0	OTHER PULVERIZER PROBLEMS
2/23/2019	PO	1918.02	710.0	BOILER - OTHER INTERNAL AND STRUCTURAL PROBLEMS
5/13/2019	FFO	360.93	710.0	GENERATOR ROTOR WINDINGS
5/29/2019	FFO	207.48	710.0	GENERATOR ROTOR WINDINGS
6/9/2019	PO	0.98	710.0	INDUCED DRAFT FAN MOTORS - VARIABLE SPEED
6/10/2019	PFO	6.00	520.0	COAL CONVEYERS AND FEEDERS
6/10/2019	PFO	2.48	233.9	COAL CONVEYERS AND FEEDERS
6/10/2019	PO	2.30	710.0	INDUCED DRAFT FAN MOTORS - VARIABLE SPEED
6/10/2019	FFO	122.83	710.0	FIRST SUPERHEATER LEAKS
6/16/2019	PFO	654.57	71.1	HEATER DRAIN PUMP DRIVE
6/16/2019	FFO	8.02	710.0	4000-7000-VOLT CIRCUIT BREAKERS
6/21/2019	PFO	12.00	210.0	CIRCULATING WATER PIPING
6/22/2019	PFO	151.63	0.0	HEATER DRAIN PUMP DRIVE
6/28/2019	PFO	122.33	48.0	OTHER MISCELLANEOUS BOILER AIR AND GAS SYSTEM PROBLEMS

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - July 2019

Hines Power Block 1

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 1A	1/1/2019	FMO	95.75	163.0	OTHER EXCITER PROBLEMS
HEP 1A	1/6/2019	FMO	83.48	163.0	LP TURBINE SHAFT SEALS
HEP 1A	2/8/2019	FMO	58.00	163.0	IP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP 1A	3/3/2019	PPO	10.00	77.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 1A	3/5/2019	PPO	2.08	73.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 1A	3/11/2019	FFO	2.98	163.0	FEEDWATER PUMP/DRIVE LUBE OIL SYSTEM
HEP 1A	3/25/2019	FFO	0.45	163.0	FEEDWATER CONTROLS
HEP 1A	4/1/2019	FFO	6.05	163.0	OTHER TURBINE VALVES
HEP 1A	4/13/2019	PO	551.85	163.0	GENERAL GAS TURBINE UNIT INSPECTION
HEP 1A	5/6/2019	PO	0.52	163.0	FLASHBACK (INCLUDING INSTRUMENTATION)
HEP 1A	5/6/2019	PPO	8.00	21.0	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
HEP 1A	5/7/2019	PFO	8.08	17.0	TURBINE CONTROL VALVES
HEP 1A	5/7/2019	FMO	16.62	163.0	TURBINE CONTROL VALVES
HEP 1A	5/17/2019	PPO	4.00	40.0	BOILER SAFETY VALVE TEST
HEP 1A	5/31/2019	PPO	2.00	73.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 1A	6/10/2019	PFO	45.00	73.0	GAS TURBINE - COOLING AND SEAL AIR SYSTEM
HEP 1A	6/28/2019	FFO	0.83	163.0	FEEDWATER REGULATING (BOILER LEVEL CONTROL) VALVE
HEP 1A	6/29/2019	FFO	8.58	163.0	FEEDWATER REGULATING (BOILER LEVEL CONTROL) VALVE
HEP 1B	1/1/2019	FMO	95.75	169.0	OTHER EXCITER PROBLEMS
HEP 1B	1/6/2019	FMO	83.00	169.0	LP TURBINE SHAFT SEALS
HEP 1B	1/9/2019	FFO	20.00	169.0	GAS TURBINE - CONTROLS AND INSTRUMENTS
HEP 1B	1/10/2019	FMO	534.42	169.0	GENERATOR LUBE OIL SYSTEM
HEP 1B	2/8/2019	FMO	42.27	169.0	HP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP 1B	2/10/2019	FMO	16.73	169.0	HP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP 1B	3/3/2019	PPO	10.00	83.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 1B	3/5/2019	PPO	2.08	79.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 1B	3/31/2019	FFO	40.02	169.0	EMERGENCY GENERATOR TRIP DEVICES

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - July 2019

Hines Power Block 1

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 1B	4/5/2019	FFO	16.28	169.0	EMERGENCY GENERATOR TRIP DEVICES
HEP 1B	4/6/2019	FFO	8.32	169.0	EMERGENCY GENERATOR TRIP DEVICES
HEP 1B	4/8/2019	FFO	60.08	169.0	EMERGENCY GENERATOR TRIP DEVICES
HEP 1B	4/15/2019	PO	503.85	169.0	GENERAL GAS TURBINE UNIT INSPECTION
HEP 1B	5/6/2019	PO	109.47	169.0	GENERAL GAS TURBINE UNIT INSPECTION
HEP 1B	5/10/2019	FFO	0.40	169.0	OTHER GAS TURBINE PROBLEMS
HEP 1B	5/15/2019	FFO	11.12	169.0	GAS TURBINE - FUEL PIPING AND VALVES
HEP 1B	5/16/2019	FFO	3.00	169.0	GAS TURBINE - CONTROLS AND INSTRUMENTS
HEP 1B	5/17/2019	PPO	4.00	47.0	BOILER SAFETY VALVE TEST
HEP 1B	5/31/2019	PPO	2.00	79.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 1B	6/10/2019	PFO	55.77	79.0	GAS TURBINE COMPRESSOR - BLEED VALVES
HEP 1B	6/18/2019	FFO	2.88	169.0	GAS TURBINE - CONTROLS AND INSTRUMENTS
HEP 1B	6/28/2019	FFO	89.20	169.0	FEEDWATER PUMP DRIVE - MOTOR
HEP ST1	1/1/2019	FMO	95.75	158.0	OTHER EXCITER PROBLEMS
HEP ST1	1/6/2019	FMO	92.92	158.0	LP TURBINE SHAFT SEALS
HEP ST1	1/10/2019	PFO	525.83	82.0	GENERATOR LUBE OIL SYSTEM
HEP ST1	2/8/2019	PFO	15.73	82.0	IP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP ST1	2/8/2019	FMO	42.27	158.0	IP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP ST1	2/10/2019	FMO	18.42	158.0	HP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP ST1	3/3/2019	PPO	10.00	45.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST1	3/5/2019	PPO	2.08	46.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST1	3/11/2019	PFO	2.98	79.0	FEEDWATER PUMP/DRIVE LUBE OIL SYSTEM
HEP ST1	3/31/2019	PFO	22.63	86.0	EMERGENCY GENERATOR TRIP DEVICES
HEP ST1	4/1/2019	FFO	6.10	158.0	OTHER TURBINE VALVES
HEP ST1	4/5/2019	PFO	16.28	78.0	EMERGENCY GENERATOR TRIP DEVICES
HEP ST1	4/6/2019	PMO	8.08	78.0	EMERGENCY GENERATOR TRIP DEVICES
HEP ST1	4/8/2019	PFO	60.08	78.0	EMERGENCY GENERATOR TRIP DEVICES

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - July 2019

Hines Power Block 1

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

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ACTUAL UNIT EVENT DATA -- January - July 2019

Hines Power Block 2

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 2A	1/1/2019	FFO	4.50	166.3	OTHER MISC. OPERATIONAL ENVIRONMENTAL LIMITS - GAS
HEP 2A	2/8/2019	PPO	4.50	60.3	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
HEP 2A	3/2/2019	PO	331.28	166.3	OTHER MISCELLANEOUS BALANCE OF PLANT PROBLEMS
HEP 2A	3/27/2019	FMO	7.00	166.3	OTHER CONDENSING SYSTEM CONTROLS AND INSTRUMENTS
HEP 2A	5/4/2019	PPO	1.50	65.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 2A	6/1/2019	PPO	4.00	123.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 2A	7/11/2019	PPO	6.33	61.3	GAS TURBINE PERFORMANCE TESTING - INDIVID. ENGINES
HEP 2B	1/1/2019	FFO	4.53	174.3	OTHER MISC. OPERATIONAL ENVIRONMENTAL LIMITS - GAS
HEP 2B	2/8/2019	PPO	4.50	68.3	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
HEP 2B	3/2/2019	PO	331.28	174.3	OTHER MISCELLANEOUS BALANCE OF PLANT PROBLEMS
HEP 2B	3/27/2019	FMO	7.00	174.3	OTHER CONDENSING SYSTEM CONTROLS AND INSTRUMENTS
HEP 2B	5/4/2019	PPO	1.50	73.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 2B	6/1/2019	PPO	4.00	131.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 2B	7/11/2019	PPO	6.33	84.3	GAS TURBINE PERFORMANCE TESTING - INDIVID. ENGINES
HEP ST2	1/1/2019	FFO	5.47	171.3	OTHER MISC. OPERATIONAL ENVIRONMENTAL LIMITS - GAS
HEP ST2	2/8/2019	PPO	4.50	25.4	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
HEP ST2	3/2/2019	PO	331.28	171.3	OTHER MISCELLANEOUS BALANCE OF PLANT PROBLEMS
HEP ST2	3/27/2019	FMO	7.00	171.3	OTHER CONDENSING SYSTEM CONTROLS AND INSTRUMENTS

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ACTUAL UNIT EVENT DATA -- January - July 2019

Hines Power Block 3

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 3A	3/6/2019	PPO	1.00	64.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 3A	4/3/2019	FMO	6.42	173.3	DC PROTECTION DEVICES
HEP 3A	4/19/2019	PPO	9.83	67.3	CLOSED COOLING WATER HEAT EXCHANGERS
HEP 3A	4/20/2019	PPO	9.00	69.3	CLOSED COOLING WATER HEAT EXCHANGERS
HEP 3A	5/9/2019	PPO	3.00	64.4	BOILER SAFETY VALVE TEST
HEP 3A	5/30/2019	PPO	2.17	68.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 3A	6/5/2019	PPO	8.00	130.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 3A	6/11/2019	FFO	3.92	173.3	TURBINE TRIP DEVICES (INCLUDING INSTRUMENTS)
HEP 3A	6/16/2019	PFO	5.50	73.3	FEEDWATER REGULATING (BOILER LEVEL CONTROL) VALVE
HEP 3A	7/1/2019	FFO	10.40	173.3	GAS TURBINE - LUBE OIL SYSTEM - GENERAL
HEP 3B	1/31/2019	FFO	9.70	173.3	GAS TURBINE - CONTROLS AND INSTRUMENTS
HEP 3B	3/6/2019	PPO	1.00	64.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 3B	4/3/2019	FMO	2.67	173.3	DC PROTECTION DEVICES
HEP 3B	4/19/2019	PPO	9.83	67.3	CLOSED COOLING WATER HEAT EXCHANGERS
HEP 3B	4/20/2019	PPO	9.00	69.3	CLOSED COOLING WATER HEAT EXCHANGERS
HEP 3B	4/22/2019	FFO	15.68	173.3	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
HEP 3B	4/25/2019	FFO	56.88	173.3	FUEL GAS COMPRESSOR HEAT EXCHANGERS
HEP 3B	5/7/2019	PPO	1.00	65.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 3B	5/9/2019	PPO	3.00	64.4	BOILER SAFETY VALVE TEST
HEP 3B	5/30/2019	PPO	2.17	68.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 3B	6/5/2019	PPO	8.00	130.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST3	1/31/2019	PFO	9.70	75.3	GAS TURBINE - CONTROLS AND INSTRUMENTS
HEP ST3	3/6/2019	PPO	1.00	28.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST3	4/19/2019	PPO	9.83	27.3	CLOSED COOLING WATER HEAT EXCHANGERS
HEP ST3	4/20/2019	PPO	9.00	29.3	CLOSED COOLING WATER HEAT EXCHANGERS
HEP ST3	4/22/2019	PFO	15.67	84.3	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
HEP ST3	4/25/2019	PFO	56.88	79.3	FUEL GAS COMPRESSOR HEAT EXCHANGERS

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - July 2019

Hines Power Block 3

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP ST3	5/7/2019	PPO	1.00	34.4	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST3	5/9/2019	PPO	3.00	34.3	BOILER SAFETY VALVE TEST
HEP ST3	5/30/2019	PPO	2.17	37.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST3	6/5/2019	PPO	8.00	121.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST3	6/11/2019	FFO	6.25	169.3	TURBINE TRIP DEVICES (INCLUDING INSTRUMENTS)

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - July 2019

Hines Power Block 4

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 4A	1/22/2019	PPO	1.50	75.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4A	1/23/2019	PPO	3.00	72.0	DISTRIBUTIVE CONTROL SYSTEM - PROCESS COMPUTER
HEP 4A	1/28/2019	PPO	2.00	70.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4A	3/1/2019	PFO	8.50	42.0	CIRCULATING WATER PUMP MOTORS
HEP 4A	3/6/2019	PPO	0.92	76.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4A	5/5/2019	PPO	0.98	73.9	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4A	5/24/2019	PPO	4.27	76.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4A	5/31/2019	FFO	6.50	176.0	GAS TURBINE - LUBE OIL PUMPS
HEP 4A	6/15/2019	FFO	28.17	176.0	TURBINE HYDRAULIC SYSTEM PIPES AND VALVES
HEP 4A	6/19/2019	FFO	11.97	176.0	TURBINE TURNING GEAR AND MOTOR
HEP 4A	6/20/2019	FFO	4.68	176.0	IP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP 4A	7/19/2019	FFO	6.07	176.0	CONDENSATE/HOTWELL PUMPS
HEP 4A	7/19/2019	FFO	32.42	176.0	HP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP 4A	7/21/2019	FFO	47.20	176.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4A	7/23/2019	FFO	77.25	176.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4A	7/26/2019	FFO	26.02	176.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4A	7/28/2019	FFO	46.97	176.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4B	1/20/2019	FFO	0.08	175.0	HP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP 4B	1/20/2019	FFO	5.85	175.0	HP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP 4B	1/20/2019	FFO	5.80	175.0	HP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP 4B	1/22/2019	PPO	1.50	74.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4B	1/28/2019	PPO	2.00	69.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4B	2/24/2019	FFO	4.00	175.0	GAS TURBINE - IGNITION SYSTEM
HEP 4B	3/1/2019	PFO	8.50	41.0	CIRCULATING WATER PUMP MOTORS
HEP 4B	3/6/2019	PPO	0.92	76.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4B	5/5/2019	PPO	0.50	73.2	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4B	5/24/2019	PPO	4.27	75.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - July 2019

Hines Power Block 4

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 4B	6/16/2019	FFO	27.58	175.0	TURBINE HYDRAULIC SYSTEM PIPES AND VALVES
HEP 4B	6/20/2019	FFO	19.55	175.0	OTHER MISCELLANEOUS STEAM TURBINE PROBLEMS
HEP 4B	6/21/2019	FFO	3.65	175.0	TURBINE CONTROL VALVES
HEP 4B	7/19/2019	FFO	19.87	175.0	CONDENSATE/HOTWELL PUMPS
HEP 4B	7/21/2019	FFO	8.80	175.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4B	7/22/2019	FFO	196.68	175.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST4	1/22/2019	PPO	1.50	0.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST4	1/23/2019	PPO	3.00	91.0	DISTRIBUTIVE CONTROL SYSTEM - PROCESS COMPUTER
HEP ST4	1/28/2019	PPO	2.00	18.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST4	2/24/2019	PMO	4.00	78.0	GAS TURBINE - IGNITION SYSTEM