



Matthew R. Bernier  
ASSOCIATE GENERAL COUNSEL

November 30, 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 October 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 October 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 30<sup>th</sup> day of November, 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 - Oct Period
1. EAF	83.93	99.00	94.62	95.42	98.18	100.00	99.70	99.14	99.78	99.34	0.00	0.00	96.88
2. PH	744	696	743	720	744	720	744	744	720	744	0	0	7,319
3. SH	615.8	621.1	661.0	549.1	654.2	691.9	742.6	730.4	669.5	699.5	0.0	0.0	6,635.0
4. RSH	8.6	69.0	43.2	137.9	78.5	28.1	0.1	7.2	49.0	39.6	0.0	0.0	461.1
5. UH	119.6	5.9	38.9	33.0	11.4	0.0	1.3	6.4	1.6	4.9	0.0	0.0	222.9
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	1.3	6.4	1.6	4.9	0.0	0.0	56.5
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	19.9	0.0	0.0	0.0	0.0	0.0	42.6
12. LR PF (MW)	0.0	108.2	108.2	0.0	105.5	0.0	55.3	0.0	0.0	0.0	0.0	0.0	83.4
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	1144	1144	1144	1144	1144	0	0	1144
16. OPER MBTU	4,050,994	4,286,777	4,724,966	3,333,386	4,344,128	4,836,805	5,246,371	5,034,287	4,527,059	4,927,283	0	0	45,312,057
17. NET GEN (MWH)	555,214	552,497	602,801	443,687	577,023	653,418	715,825	685,700	612,742	666,148	0	0	6,065,055
18. ANOHR (BTU/KWH)	7,296.3	7,758.9	7,838.4	7,512.9	7,528.5	7,402.3	7,329.1	7,341.8	7,388.2	7,396.7	0.0	0.0	7,471.0
19. NOF (%)	78.81	77.75	79.72	70.64	77.11	82.55	84.26	82.06	80.01	83.25	0.00	0.00	79.90
20. NPC (MW)	1144	1144	1144	1144	1144	1144	1144	1144	1144	1144	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 - Oct Period
1. EAF	99.53	96.55	0.00	54.31	100.00	100.00	100.00	99.45	98.44	99.59	0.00	0.00	84.73
2. PH	744	696	743	720	744	720	744	744	720	744	0	0	7,319
3. SH	194.4	47.3	0.0	286.4	650.7	644.9	672.7	662.1	637.5	675.5	0.0	0.0	4,471.5
4. RSH	546.7	624.7	0.0	104.6	93.3	75.1	71.3	81.9	82.0	65.5	0.0	0.0	1,745.2
5. UH	2.8	24.0	743.0	329.0	0.0	0.0	0.0	0.0	0.5	3.1	0.0	0.0	1,102.4
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	0.5	3.1	0.0	0.0	309.1
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	130.6	339.4	0.0	0.0	0.0	473.6
12. LR PF (MW)	111.3	0.0	0.0	0.0	0.0	0.0	0.0	18.4	18.4	0.0	0.0	0.0	19.1
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	582	582	582	582	582	0	0	582
16. OPER MBTU	541,636	110,673	0	790,816	2,063,929	2,031,821	2,147,031	2,088,278	1,939,717	2,127,754	0	0	13,841,656
17. NET GEN (MWH)	71,968	14,619	0	93,205	282,305	276,486	292,433	284,360	267,137	292,801	0	0	1,875,314
18. ANOHR (BTU/KWH)	7,526.1	7,570.5	0.0	8,484.7	7,311.0	7,348.7	7,342.0	7,343.8	7,261.1	7,266.9	0.0	0.0	7,381.0
19. NOF (%)	63.60	53.12	0.00	55.91	74.55	73.67	74.69	73.79	72.00	74.48	0.00	0.00	72.06
20. NPC (MW)	582	582	582	582	582	582	582	582	582	582	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 - Oct Period
1. EAF	98.88	88.34	95.76	82.92	93.59	73.83	100.00	98.12	98.74	6.93	0.00	0.00	83.67
2. PH	744	696	743	720	744	720	744	744	720	744	0	0	7,319
3. SH	259.0	575.2	654.6	573.3	632.1	531.6	744.0	710.2	688.9	3.6	0.0	0.0	5,372.5
4. RSH	476.7	42.3	57.4	24.0	64.3	0.0	0.0	19.8	23.6	48.0	0.0	0.0	756.0
5. UH	8.3	78.5	31.0	122.7	47.7	188.4	0.0	14.0	7.5	692.4	0.0	0.0	1,190.5
6. POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	692.4	0.0	0.0	692.4
7. FOH	8.3	61.4	31.0	1.7	11.4	188.4	0.0	1.7	0.0	0.0	0.0	0.0	303.9
8. MOH	0.0	17.1	0.0	121.0	36.3	0.0	0.0	12.3	7.5	0.0	0.0	0.0	194.2
9. PPOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.3	0.0	0.0	0.0	11.3
10. LR PP (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	68.8	0.0	0.0	0.0	68.8
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	490	490	490	490	490	0	0	490
16. OPER MBTU	780,815	1,648,431	1,880,686	1,642,991	1,823,994	1,556,416	2,249,479	2,047,183	1,993,767	6,060	0	0	15,629,823
17. NET GEN (MWH)	102,818	215,761	250,559	219,501	240,760	205,204	300,649	275,796	262,778	316	0	0	2,074,142
18. ANOHR (BTU/KWH)	7,594.1	7,640.1	7,506.0	7,485.1	7,576.0	7,584.7	7,482.1	7,422.8	7,587.3	19,178.0	0.0	0.0	7,535.6
19. NOF (%)	81.02	76.55	78.12	78.13	77.74	78.78	82.47	79.25	77.84	18.01	0.00	0.00	78.79
20. NPC (MW)	490	490	490	490	490	490	490	490	490	490	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 - Oct Period
1. EAF	100.00	94.56	0.00	29.43	81.90	86.67	99.97	99.96	99.92	100.00	0.00	0.00	79.22
2. PH	744	696	743	720	744	720	744	744	720	744	0	0	7,319
3. SH	703.6	559.2	0.0	246.4	578.7	623.3	744.0	744.0	671.6	709.7	0.0	0.0	5,580.5
4. RSH	40.5	99.0	0.0	12.9	40.2	17.2	0.0	0.0	48.4	34.3	0.0	0.0	292.4
5. UH	0.0	37.9	743.0	460.6	125.1	79.5	0.0	0.0	0.0	0.0	0.0	0.0	1,446.1
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	26.3	0.0	0.0	0.0	0.0	0.0	0.0	77.6
8. MOH	0.0	6.8	0.0	0.0	99.0	53.2	0.0	0.0	0.0	0.0	0.0	0.0	159.1
9. PPOH	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	5.0	0.0	0.0	0.0	7.0
10. LR PP (MW)	0.0	0.0	0.0	0.0	0.0	0.0	63.2	0.0	59.5	0.0	0.0	0.0	60.6
11. PFOH	0.0	0.0	0.0	165.1	41.7	91.1	0.0	1.2	0.0	0.0	0.0	0.0	299.0
12. LR PF (MW)	0.0	0.0	0.0	150.2	120.1	94.7	0.0	137.1	0.0	0.0	0.0	0.0	129.0
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	524	524	524	524	524	0	0	524
16. OPER MBTU	2,149,462	1,871,576	0	682,347	1,638,690	1,955,733	2,438,251	2,356,982	2,088,637	2,347,799	0	0	17,529,478
17. NET GEN (MWH)	290,864	252,437	0	89,489	214,825	257,381	324,395	317,245	279,715	317,919	0	0	2,344,270
18. ANOHR (BTU/KWH)	7,389.9	7,414.0	0.0	7,624.9	7,628.0	7,598.6	7,516.3	7,429.5	7,467.0	7,384.9	0.0	0.0	7,477.6
19. NOF (%)	78.90	86.15	0.00	69.30	70.84	78.80	83.21	81.37	79.48	85.49	0.00	0.00	80.17
20. NPC (MW)	524	524	524	524	524	524	524	524	524	524	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 - Oct Period
1. EAF	100.00	99.52	100.00	99.65	77.43	99.65	94.83	92.04	100.00	99.98	0.00	0.00	96.26
2. PH	744	696	743	720	744	720	744	744	720	744	0	0	7,319
3. SH	460.1	460.2	726.7	656.0	521.0	714.9	678.2	657.6	633.6	725.2	0.0	0.0	6,233.3
4. RSH	284.0	233.0	16.3	61.5	55.1	3.1	28.8	27.2	86.4	18.7	0.0	0.0	814.0
5. UH	0.0	2.8	0.0	2.5	167.9	2.0	37.1	59.2	0.0	0.1	0.0	0.0	271.7
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	2.0	25.5	55.2	0.0	0.1	0.0	0.0	140.5
8. MOH	0.0	0.0	0.0	2.5	113.1	0.0	11.6	4.0	0.0	0.0	0.0	0.0	131.2
9. PPOH	0.0	0.0	0.0	0.0	0.0	1.3	1.0	0.0	0.0	0.0	0.0	0.0	2.3
10. LR PP (MW)	0.0	0.0	0.0	0.0	0.0	51.4	56.2	0.0	0.0	0.0	0.0	0.0	53.5
11. PFOH	0.0	4.0	0.0	0.0	0.0	2.0	7.4	0.0	0.0	0.0	0.0	0.0	13.5
12. LR PF (MW)	0.0	61.6	0.0	0.0	0.0	88.1	88.7	0.0	0.0	0.0	0.0	0.0	80.6
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	515	515	515	515	515	0	0	515
16. OPER MBTU	1,364,781	1,411,103	2,170,967	1,926,864	1,459,758	2,191,328	2,044,783	1,974,022	1,869,332	2,326,090	0	0	18,739,029
17. NET GEN (MWH)	181,972	196,056	299,188	266,592	197,411	307,369	281,736	265,713	258,487	326,980	0	0	2,581,504
18. ANOHR (BTU/KWH)	7,499.9	7,197.5	7,256.2	7,227.8	7,394.5	7,129.3	7,257.8	7,429.2	7,231.8	7,113.9	0.0	0.0	7,259.0
19. NOF (%)	76.81	82.72	79.95	78.92	73.57	83.48	80.67	78.47	79.21	87.55	0.00	0.00	80.42
20. NPC (MW)	515	515	515	515	515	515	515	515	515	515	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 - Oct Period
1. EAF	99.14	100.00	94.34	94.07	99.85	100.00	83.67	90.96	99.44	98.64	0.00	0.00	95.97
2. PH	744	696	743	720	744	720	744	744	720	744	0	0	7,319
3. SH	720.9	648.9	663.2	556.2	697.4	720.0	618.7	654.7	696.7	728.4	0.0	0.0	6,705.0
4. RSH	17.6	47.1	38.2	121.2	46.6	0.0	3.8	22.0	23.3	5.5	0.0	0.0	325.3
5. UH	5.6	0.0	41.7	42.6	0.0	0.0	121.5	67.3	0.0	10.1	0.0	0.0	288.7
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	121.5	67.3	0.0	10.1	0.0	0.0	288.7
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	14.1	0.0	0.0	0.0	23.2
12. LR PF (MW)	78.1	0.0	62.4	89.0	0.0	0.0	0.0	0.0	62.0	0.0	0.0	0.0	66.6
13. PMOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.0	0.0	0.0	0.0	14.0
14. LR PM (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	87.0	0.0	0.0	0.0	87.0
15. NSC (MW)	516	516	516	516	516	516	516	516	516	516	0	0	516
16. OPER MBTU	2,200,579	1,936,502	1,918,280	1,634,032	2,088,963	2,248,109	1,886,386	1,930,518	2,072,197	2,373,395	0	0	20,288,961
17. NET GEN (MWH)	317,533	278,017	267,248	228,911	295,448	317,783	264,962	272,211	289,926	334,914	0	0	2,866,953
18. ANOHR (BTU/KWH)	6,930.2	6,965.4	7,177.9	7,138.3	7,070.5	7,074.4	7,119.5	7,092.0	7,147.3	7,086.6	0.0	0.0	7,076.8
19. NOF (%)	85.37	83.03	78.10	79.76	82.10	85.54	82.99	80.58	80.65	89.11	0.00	0.00	82.87
20. NPC (MW)	516	516	516	516	516	516	516	516	516	516	0	0	516



Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - October 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 4A	07-23-20	PFO	19.92	50.3	GAS TURBINE - FUEL PIPING AND VALVES
BCC 4A	08-23-20	FFO	35.47	190.8	SWITCHYARD SYSTEM PROTECTION DEVICES
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 4B	07-23-20	PFO	19.92	50.3	GAS TURBINE - FUEL PIPING AND VALVES
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 4C	07-23-20	PFO	19.92	50.3	GAS TURBINE - FUEL PIPING AND VALVES
BCC 4C	09-25-20	FFO	8.98	190.8	FEEDWATER PUMP DRIVE - MOTOR
BCC 4C	10-19-20	FFO	11.48	190.8	4000-7000-VOLT CIRCUIT BREAKERS
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 4D	07-23-20	PFO	19.92	50.3	GAS TURBINE - FUEL PIPING AND VALVES

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - October 2020

Bartow CC

Unit	Date	Outage Type	Hours	MW Affected	Description
BCC 4D	07-26-20	FFO	6.67	190.8	BLADE PATH TEMPERATURE SPREAD
BCC 4D	07-26-20	FFO	0.52	190.8	OTHER FEEDWATER VALVES
BCC 4D	08-26-20	FFO	1.32	190.8	BLADE PATH TEMPERATURE SPREAD
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
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
BCC 4S	07-23-20	PFO	19.92	65.2	GAS TURBINE - FUEL PIPING AND VALVES
BCC 4S	10-23-20	FFO	9.70	380.7	OTHER SWITCHYARD OR HIGH VOLTAGE SYSTEM PROBLEMS

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - October 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
OS1CT2	10-07-20	FFO	1.65	175.3	INLET AIR CHILLERS
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
OS1ST1	08-20-20	PFO	1150.73	18.4	OTHER MISCELLANEOUS BALANCE OF PLANT PROBLEMS
OS1ST1	09-21-20	FFO	1.23	231.4	CLOSED COOLING WATER INSTRUMENTATION
OS1ST1	10-07-20	FFO	1.73	231.4	CLOSED COOLING WATER PIPING
OS1ST1	10-07-20	PFO	0.05	18.5	OTHER MISCELLANEOUS BALANCE OF PLANT PROBLEMS
OS1ST1	10-07-20	FFO	4.67	231.4	CONDENSER LOSS OF VACUUM
OS1ST1	10-07-20	PFO	583.75	18.4	OTHER MISCELLANEOUS BALANCE OF PLANT PROBLEMS

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - October 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 1A	06-02-20	FFO	154.93	163.0	OTHER GAS TURBINE PROBLEMS
HEP 1A	06-08-20	FFO	14.03	163.0	FEEDWATER PUMP
HEP 1A	08-30-20	FFO	5.05	163.0	FEEDWATER CONTROLS
HEP 1A	08-30-20	FMO	59.40	163.0	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
HEP 1A	09-19-20	PPO	2.25	77.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 1A	09-20-20	PPO	9.00	77.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 1A	10-03-20	PO	683.25	163.0	GENERAL GAS TURBINE UNIT INSPECTION
HEP 1A	10-31-20	PO	2.00	163.0	EXCITER COMMUTATOR AND BRUSHES
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 1B	06-02-20	FFO	179.68	169.0	TURBINE - MISCELLANEOUS TURBINE PIPING
HEP 1B	06-09-20	FFO	12.28	169.0	CONDENSER LOSS OF VACUUM
HEP 1B	06-10-20	FFO	29.55	169.0	HP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP 1B	09-19-20	PPO	2.25	83.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 1B	09-20-20	PPO	9.00	83.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 1B	10-03-20	PO	696.00	169.0	GENERAL GAS TURBINE UNIT INSPECTION

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - October 2020

Hines Power Block 1

Unit	Date	Outage Type	Hours	MW Affected	Description
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
HEP ST1	06-02-20	FFO	174.23	158.0	TURBINE - MISCELLANEOUS TURBINE PIPING
HEP ST1	09-19-20	PPO	2.25	45.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST1	09-20-20	PPO	9.00	45.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST1	10-03-20	PO	696.00	158.0	GENERAL GAS TURBINE UNIT INSPECTION

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ACTUAL UNIT EVENT DATA -- January - October 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 2A	06-15-20	FFO	79.80	172.0	OTHER MAIN STEAM VALVES (INCLUDING VENT AND DRAIN.
HEP 2A	07-10-20	PPO	2.00	72.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 2A	08-15-20	PFO	1.73	99.1	GAS TURBINE - COOLING AND SEAL AIR SYSTEM
HEP 2A	09-03-20	PPO	5.00	68.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
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 2B	06-01-20	FMO	159.92	175.0	GAS TURBINE VIBRATION
HEP 2B	07-10-20	PPO	2.00	75.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 2B	08-15-20	PFO	1.73	175.0	GAS TURBINE - COOLING AND SEAL AIR SYSTEM
HEP 2B	09-03-20	PPO	5.00	71.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
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

**Duke Energy Florida**

**ACTUAL UNIT EVENT DATA -- January - October 2020**

**Hines Power Block 2**

<b>Unit</b>	<b>Date</b>	<b>Outage Type</b>	<b>Hours</b>	<b>MW Affected</b>	<b>Description</b>
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
HEP ST2	06-01-20	PFO	189.88	95.0	GAS TURBINE VIBRATION
HEP ST2	06-15-20	PFO	79.80	94.0	OTHER MAIN STEAM VALVES (INCLUDING VENT AND DRAIN.
HEP ST2	07-10-20	PPO	2.00	43.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST2	09-03-20	PPO	5.00	40.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - October 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 3A	06-02-20	FFO	6.08	171.0	OTHER GAS TURBINE EXHAUST PROBLEMS
HEP 3A	06-25-20	PPO	1.33	63.0	CIRCULATING WATER VALVES
HEP 3A	07-11-20	PPO	1.00	68.1	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 3A	07-31-20	FFO	18.15	171.0	AUTOMATIC TURBINE CONTROL SYSTEMS -ELEC-HYD-ANALOG
HEP 3A	08-01-20	FFO	21.88	171.0	OPERATOR ERROR
HEP 3A	08-31-20	FFO	4.95	171.0	FEEDWATER PUMP/DRIVE LUBE OIL SYSTEM
HEP 3A	10-15-20	PPO	4.00	45.0	MAIN STEAM RELIEF/SAFETY VALVES
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 3B	06-25-20	PPO	1.33	63.0	CIRCULATING WATER VALVES
HEP 3B	07-02-20	FFO	38.67	171.0	GAS TURBINE - FUEL PIPING AND VALVES
HEP 3B	07-09-20	PFO	0.73	110.1	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
HEP 3B	07-11-20	PPO	1.00	68.1	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 3B	07-14-20	FFO	21.37	171.0	COMBINED CYCLE INSTRUMENTS AND CONTROLS
HEP 3B	07-31-20	FMO	25.90	171.0	TURBINE HYDRAULIC SYSTEM PIPES AND VALVES
HEP 3B	08-01-20	FFO	1.10	171.0	OTHER COMBINED CYCLE PROBLEMS
HEP 3B	08-04-20	FFO	128.70	171.0	FEEDWATER CONTROLS
HEP 3B	10-15-20	PPO	4.00	45.0	MAIN STEAM RELIEF/SAFETY VALVES



Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - October 2020

Hines Power Block 3

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 3B	10-19-20	FFO	0.43	171.0	GAS TURBINE - FUEL NOZZLES/VANES
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
HEP ST3	06-02-20	PFO	6.08	88.0	OTHER GAS TURBINE EXHAUST PROBLEMS
HEP ST3	06-25-20	PPO	1.33	28.0	CIRCULATING WATER VALVES
HEP ST3	07-11-20	PPO	1.00	33.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST3	07-14-20	PFO	21.37	88.0	COMBINED CYCLE INSTRUMENTS AND CONTROLS
HEP ST3	07-31-20	FMO	20.80	173.0	TURBINE HYDRAULIC SYSTEM PIPES AND VALVES
HEP ST3	08-01-20	FFO	8.50	173.0	OTHER COMBINED CYCLE PROBLEMS
HEP ST3	08-31-20	FFO	0.32	173.0	FEEDWATER PUMP/DRIVE LUBE OIL SYSTEM
HEP ST3	10-15-20	PPO	4.00	18.0	MAIN STEAM RELIEF/SAFETY VALVES

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - October 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 4A	07-01-20	FFO	45.68	173.0	LIGHTNING
HEP 4A	07-03-20	FFO	28.20	173.0	LIGHTNING
HEP 4A	07-04-20	FFO	15.00	173.0	LIGHTNING
HEP 4A	07-05-20	FFO	9.75	173.0	LIGHTNING
HEP 4A	07-06-20	FFO	17.63	173.0	LIGHTNING
HEP 4A	08-18-20	FFO	63.18	173.0	LIGHTNING
HEP 4A	10-12-20	FFO	9.83	173.0	TRANSMISSION SYSTEM PROBLEMS OTHER THAN CATASTROPH
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

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - October 2020

Hines Power Block 4

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 4B	07-01-20	FFO	123.10	172.0	LIGHTNING
HEP 4B	08-15-20	FFO	14.00	172.0	GAS TURBINE - HIGH ENGINE EXHAUST TEMPERATURE
HEP 4B	08-18-20	FFO	61.05	172.0	LIGHTNING
HEP 4B	09-02-20	PFO	42.25	62.0	FEEDWATER PIPING DOWNSTRM OF FEEDWTR REG. VALVE
HEP 4B	10-12-20	FFO	9.83	172.0	TRANSMISSION SYSTEM PROBLEMS OTHER THAN CATASTROPH
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
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
HEP ST4	07-01-20	FFO	124.97	171.0	LIGHTNING
HEP ST4	08-18-20	FFO	63.67	171.0	LIGHTNING
HEP ST4	09-02-20	PMO	42.25	87.0	FEEDWATER PIPING DOWNSTRM OF FEEDWTR REG. VALVE
HEP ST4	10-12-20	FFO	10.67	171.0	TRANSMISSION SYSTEM PROBLEMS OTHER THAN CATASTROPH