



**Matthew R. Bernier**  
Associate General Counsel

December 28, 2017

**VIA ELECTRONIC FILING**

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

Re: Docket No. 20170001-EI  
Performance Data Report for November 2017

Dear Ms. Stauffer:

Attached for electronic filing in the above docket is Duke Energy Florida, LLC's Performance Data Report for November 2017.

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/ck  
Attachments

cc: Daniel Lee, Division of Engineering, FPSC

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that a true copy of Performance Data Report for the month of November 2017 has been furnished to the following individuals via e-mail on this 28<sup>th</sup> day of December, 2017.

/s/ Matthew R. Bernier

Attorney

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Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2017

Bartow CC	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan - Nov Period
1. EAF	98.64	61.18	54.81	87.33	92.62	96.22	93.82	97.05	94.96	94.72	88.94		87.48
2. PH	744	672	743	720	744	720	744	744	720	744	721		8,016
3. SH	677.0	411.2	365.4	644.2	725.6	703.4	716.1	744.0	673.7	703.5	620.5		6,984.6
4. RSH	67.0	0.0	41.8	0.0	1.7	11.5	4.4	0.0	30.6	24.7	42.0		223.5
5. UH	0.0	260.9	335.8	75.8	16.8	5.2	23.6	0.0	15.7	15.8	58.5		807.9
6. POH	0.0	0.0	41.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		41.1
7. FOH	0.0	233.1	292.1	75.8	8.0	5.2	23.6	0.0	7.0	0.7	3.7		649.0
8. MOH	0.0	27.8	2.7	0.0	8.8	0.0	0.0	0.0	8.7	15.1	54.8		117.8
9. PPOH	56.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		56.4
10. LR PP (MW)	198.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		198.4
11. PFOH	0.0	0.0	0.0	203.8	521.6	292.5	313.7	288.9	279.5	315.7	279.9		2,495.5
12. LR PF (MW)	0.0	0.0	0.0	84.0	78.7	83.5	79.0	84.0	81.4	82.3	84.0		81.7
13. PMOH	0.0	0.0	0.0	0.0	22.5	0.0	0.0	0.0	0.0	0.0	0.0		22.5
14. LR PM (MW)	0.0	0.0	0.0	0.0	46.5	0.0	0.0	0.0	0.0	0.0	0.0		46.5
15. NSC (MW)	1105	1105	1105	1105	1105	1105	1105	1105	1105	1105	1105		1105
16. OPER MBTU	4,539,060	2,658,016	3,220,610	4,384,107	5,221,540	5,117,090	5,246,283	5,508,700	4,954,829	5,117,858	4,241,007		50,209,101
17. NET GEN (MWH)	616,163	269,471	286,966	529,238	686,378	676,392	682,648	724,438	629,043	658,897	539,445		6,299,079
18. ANOHR (BTU/KWH)	7,366.7	9,863.8	11,223.0	8,283.8	7,607.4	7,565.3	7,685.2	7,604.1	7,876.8	7,767.3	7,861.8		7,970.9
19. NOF (%)	82.36	59.31	71.06	74.34	85.61	87.03	86.27	88.12	84.50	84.76	78.67		81.62
20. NPC (MW)	1105	1105	1105	1105	1105	1105	1105	1105	1105	1105	1105		1105

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2017

CRYSTAL RIVER 4	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan - Nov Period
1. EAF	86.49	95.82	93.36	97.90	96.59	97.50	60.17	94.54	89.32	93.75	10.09		83.22
2. PH	744	672	743	720	744	720	744	744	720	744	721		8,016
3. SH	648.7	650.3	696.4	720.0	744.0	712.7	505.4	705.8	695.3	744.0	72.8		6,895.2
4. RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
5. UH	95.3	21.7	46.6	0.0	0.0	7.4	238.7	38.3	24.7	0.0	648.2		1,120.8
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
7. FOH	0.0	0.0	0.0	0.0	0.0	4.2	123.4	38.3	24.7	0.0	648.2		838.7
8. MOH	95.3	21.7	46.6	0.0	0.0	3.2	115.3	0.0	0.0	0.0	0.0		282.1
9. PPOH	0.0	0.0	0.0	0.0	164.0	96.0	9.0	9.3	43.3	345.5	0.0		667.0
10. LR PP (MW)	0.0	0.0	0.0	0.0	65.6	65.0	284.0	93.0	147.7	93.0	0.0		88.4
11. PFOH	21.1	14.0	13.5	8.4	36.8	2.5	78.0	9.0	90.3	0.9	0.0		274.5
12. LR PF (MW)	155.5	61.9	93.0	89.2	97.2	164.1	494.0	93.0	334.7	92.7	0.0		290.8
13. PMOH	4.5	14.8	7.0	46.0	40.1	9.8	0.0	0.0	5.7	1.6	0.0		129.5
14. LR PM (MW)	93.0	249.0	93.0	217.5	93.0	93.1	0.0	0.0	93.1	561.1	0.0		161.0
15. NSC (MW)	712	712	712	712	712	712	712	712	712	712	712		712
16. OPER MBTU	3,201,197	3,213,960	3,897,728	4,051,925	4,065,264	3,905,693	2,673,655	3,806,783	3,892,131	4,344,195	384,418		37,436,949
17. NET GEN (MWH)	311,345	321,341	390,869	417,993	404,965	371,422	257,492	378,909	357,397	384,385	37,309		3,633,427
18. ANOHR (BTU/KWH)	10,281.8	10,001.7	9,972.0	9,693.8	10,038.6	10,515.5	10,383.5	10,046.7	10,890.2	11,301.7	10,303.6		10,303.5
19. NOF (%)	67.41	69.40	78.83	81.54	76.45	73.20	71.56	75.41	72.19	72.56	72.00		74.01
20. NPC (MW)	712	712	712	712	712	712	712	712	712	712	712		712

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2017

CRYSTAL RIVER 5	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan - Nov Period
1. EAF	99.76	99.71	81.87	76.96	98.67	99.16	99.97	99.92	81.89	64.45	0.00		82.07
2. PH	744	672	743	720	744	720	744	744	720	744	721		8,016
3. SH	744.0	672.0	658.8	607.1	744.0	720.0	744.0	744.0	591.8	479.5	0.0		6,705.2
4. RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
5. UH	0.0	0.0	84.2	112.9	0.0	0.0	0.0	0.0	128.2	264.5	721.0		1,310.8
6. POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	264.5	721.0		985.5
7. FOH	0.0	0.0	10.0	112.9	0.0	0.0	0.0	0.0	82.6	0.0	0.0		205.6
8. MOH	0.0	0.0	74.2	0.0	0.0	0.0	0.0	0.0	45.5	0.0	0.0		119.7
9. PPOH	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	62.7	0.0	0.0		64.7
10. LR PP (MW)	0.0	0.0	0.0	0.0	0.0	0.0	91.0	0.0	25.0	0.0	0.0		27.0
11. PFOH	0.0	0.0	6.3	4.3	10.6	38.2	0.0	4.5	0.0	0.0	0.0		64.0
12. LR PF (MW)	0.0	0.0	150.6	91.3	282.1	113.0	0.0	91.0	0.0	0.0	0.0		141.8
13. PMOH	13.8	15.0	384.0	408.7	44.2	0.0	0.0	0.0	0.0	0.0	0.0		865.8
14. LR PM (MW)	91.0	91.0	91.0	91.0	91.0	0.0	0.0	0.0	0.0	0.0	0.0		91.0
15. NSC (MW)	710	710	710	710	710	710	710	710	710	710	710		710
16. OPER MBTU	3,645,405	3,211,345	3,234,019	3,012,117	4,110,218	3,820,292	4,144,109	3,955,008	3,326,476	2,859,922	120,163		35,439,074
17. NET GEN (MWH)	358,248	321,503	331,274	318,570	422,498	376,188	415,873	401,595	312,418	260,943	0		3,519,110
18. ANOHR (BTU/KWH)	10,175.6	9,988.5	9,762.4	9,455.1	9,728.4	10,155.3	9,964.8	9,848.2	10,647.5	10,960.0	0.0		10,070.5
19. NOF (%)	67.82	67.38	70.82	73.91	79.98	73.59	78.73	76.03	74.35	76.65	0.00		73.92
20. NPC (MW)	710	710	710	710	710	710	710	710	710	710	710		710

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2017

HINES Power Block 1	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan - Nov Period
1. EAF	100.00	99.83	99.12	15.67	82.77	87.53	95.90	99.98	99.98	93.13	98.46		88.45
2. PH	744	672	743	720	744	720	744	744	720	744	721		8,016
3. SH	603.3	672.0	736.4	112.8	514.8	641.2	722.5	724.2	662.3	653.4	691.8		6,734.8
4. RSH	140.7	0.0	0.1	0.0	134.8	0.0	1.4	19.8	57.7	40.7	19.0		414.1
5. UH	0.0	0.0	6.5	607.2	94.4	78.8	20.0	0.0	0.0	50.0	10.2		867.1
6. POH	0.0	0.0	6.5	607.2	61.7	0.0	0.0	0.0	0.0	0.0	0.0		675.4
7. FOH	0.0	0.0	0.0	0.0	32.7	78.8	20.0	0.0	0.0	3.9	10.2		145.6
8. MOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46.1	0.0		46.1
9. PPOH	0.0	7.5	0.0	0.0	0.0	0.0	64.5	0.9	0.9	5.3	0.0		79.0
10. LR PP (MW)	0.0	81.1	0.0	0.0	0.0	0.0	45.6	74.4	69.2	78.1	0.0		51.7
11. PFOH	0.0	0.0	0.0	0.0	287.4	83.5	22.7	0.0	0.0	2.7	0.0		396.3
12. LR PF (MW)	0.0	0.0	0.0	0.0	60.8	68.2	108.0	0.0	0.0	78.0	0.0		65.2
13. PMOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9		4.9
14. LR PM (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.0		99.0
15. NSC (MW)	517	517	517	517	517	517	517	517	517	517	517		517
16. OPER MBTU	1,622,731	2,202,517	2,460,422	272,583	1,281,405	1,952,407	2,352,464	2,416,836	2,195,681	2,224,068	2,186,657		21,167,772
17. NET GEN (MWH)	236,527	303,529	341,546	32,942	158,770	264,972	318,889	330,615	303,269	303,077	323,030		2,917,166
18. ANOHR (BTU/KWH)	6,860.7	7,256.4	7,203.8	8,274.6	8,070.8	7,368.4	7,377.1	7,310.1	7,240.0	7,338.3	6,769.2		7,256.3
19. NOF (%)	75.83	87.37	89.71	56.49	59.65	79.93	85.37	88.30	88.57	89.72	90.32		83.78
20. NPC (MW)	517	517	517	517	517	517	517	517	517	517	517		517

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2017

HINES Power Block 2	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan - Nov Period
1. EAF	100.00	100.00	99.98	99.98	99.91	99.91	99.19	95.68	72.09	32.74	98.59		90.63
2. PH	744	672	743	720	744	720	744	744	720	744	721		8,016
3. SH	646.2	419.6	743.0	672.7	744.0	720.0	738.8	719.5	507.0	148.4	654.4		6,713.6
4. RSH	97.8	252.4	0.0	47.3	0.0	0.0	0.0	0.0	14.9	95.1	58.4		565.9
5. UH	0.0	0.0	0.0	0.0	0.0	0.0	5.2	24.5	198.1	500.5	8.2		736.5
6. POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	193.9	500.5	0.0		694.4
7. FOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.5	4.2	0.0	8.2		36.9
8. MOH	0.0	0.0	0.0	0.0	0.0	0.0	5.2	0.0	0.0	0.0	0.0		5.2
9. PPOH	0.0	0.0	1.5	1.3	5.7	5.3	6.0	4.7	4.8	0.0	0.0		29.3
10. LR PP (MW)	0.0	0.0	61.9	69.3	62.8	67.6	72.3	67.0	73.8	0.0	0.0		68.3
11. PFOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.0	9.2	0.0	9.1		47.3
12. LR PF (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	132.4	133.3	0.0	117.4		129.7
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
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
15. NSC (MW)	545	545	545	545	545	545	545	545	545	545	545		545
16. OPER MBTU	2,054,005	1,332,545	2,664,457	2,274,831	2,441,379	2,465,353	2,600,291	2,455,142	1,731,371	404,828	2,477,952		22,902,155
17. NET GEN (MWH)	277,273	179,574	368,942	301,569	332,165	331,551	351,053	337,111	226,742	50,740	304,921		3,061,641
18. ANOHR (BTU/KWH)	7,407.9	7,420.6	7,221.9	7,543.3	7,349.9	7,435.8	7,407.1	7,282.9	7,635.9	7,978.5	8,126.5		7,480.4
19. NOF (%)	78.73	78.52	91.11	82.26	81.92	84.49	87.19	85.97	82.06	62.73	85.50		83.68
20. NPC (MW)	545	545	545	545	545	545	545	545	545	545	545		545

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2017

HINES Power Block 3	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan - Nov Period
1. EAF	96.71	100.00	13.57	100.00	99.82	86.12	94.14	99.88	72.20	100.00	94.57		86.88
2. PH	744	672	743	720	744	720	744	744	720	744	721		8,016
3. SH	419.3	606.7	92.9	694.7	712.0	620.7	701.0	744.0	548.7	744.0	597.6		6,481.7
4. RSH	304.9	65.3	7.9	25.3	31.3	0.0	0.0	0.0	0.0	0.0	88.1		522.7
5. UH	19.9	0.0	642.2	0.0	0.7	99.3	43.0	0.0	171.3	0.0	35.3		1,011.6
6. POH	0.0	0.0	629.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		629.0
7. FOH	0.1	0.0	13.2	0.0	0.7	99.3	0.0	0.0	171.3	0.0	5.4		289.9
8. MOH	19.8	0.0	0.0	0.0	0.0	0.0	43.0	0.0	0.0	0.0	30.0		92.7
9. PPOH	0.0	0.0	0.0	0.0	6.0	6.5	6.1	6.9	7.5	0.0	0.0		33.0
10. LR PP (MW)	0.0	0.0	0.0	0.0	52.7	56.4	54.3	70.8	50.5	0.0	0.0		57.0
11. PFOH	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	138.0	0.0	0.0		138.1
12. LR PF (MW)	111.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	111.1	0.0	0.0		111.1
13. PMOH	22.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.3		42.0
14. LR PM (MW)	110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	108.1		109.1
15. NSC (MW)	543	543	543	543	543	543	543	543	543	543	543		543
16. OPER MBTU	1,386,224	1,937,839	314,395	2,267,932	2,285,493	2,005,129	2,360,337	2,574,238	1,571,084	2,513,394	1,770,959		20,987,024
17. NET GEN (MWH)	187,937	272,008	38,867	320,313	311,290	281,129	332,181	363,472	223,786	362,479	264,179		2,957,641
18. ANOHR (BTU/KWH)	7,376.0	7,124.2	8,089.0	7,080.4	7,342.0	7,132.4	7,105.6	7,082.4	7,020.5	6,933.9	6,703.6		7,095.9
19. NOF (%)	82.55	82.57	77.02	84.91	80.52	83.41	87.27	89.97	75.11	89.72	81.41		84.03
20. NPC (MW)	543	543	543	543	543	543	543	543	543	543	543		543



Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2017

HINES Power Block 4	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan - Nov Period
1. EAF	100.00	99.86	100.00	95.89	98.16	96.51	88.76	93.63	99.94	99.53	31.89		91.33
2. PH	744	672	743	720	744	720	744	744	720	744	721		8,016
3. SH	627.8	523.0	743.0	693.4	696.3	683.5	675.4	708.2	711.7	741.1	212.1		7,015.3
4. RSH	116.2	148.3	0.0	0.0	36.8	18.8	9.2	2.3	8.3	0.0	18.3		358.2
5. UH	0.0	0.8	0.0	26.6	10.9	17.7	59.5	33.5	0.0	2.9	490.7		642.5
6. POH	0.0	0.0	0.0	13.8	0.0	0.0	0.0	0.0	0.0	0.0	489.6		503.4
7. FOH	0.0	0.8	0.0	12.8	10.9	2.7	50.5	33.5	0.0	2.9	1.1		115.1
8. MOH	0.0	0.0	0.0	0.0	0.0	15.0	9.0	0.0	0.0	0.0	0.0		24.0
9. PPOH	0.0	0.0	0.0	38.0	0.0	5.7	0.0	80.9	3.3	0.0	1.5		129.4
10. LR PP (MW)	0.0	0.0	0.0	41.8	0.0	63.4	0.0	73.5	71.2	0.0	59.9		63.5
11. PFOH	0.0	0.8	0.0	0.0	12.3	50.1	171.7	20.3	0.0	3.3	1.3		259.7
12. LR PF (MW)	0.0	106.8	0.0	0.0	119.8	70.3	74.1	67.8	0.0	87.7	99.7		75.5
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
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
15. NSC (MW)	527	527	527	527	527	527	527	527	527	527	527		527
16. OPER MBTU	2,201,630	1,738,601	2,513,745	2,290,296	2,052,515	2,126,811	2,092,652	2,289,826	2,406,845	2,623,558	642,657		22,979,135
17. NET GEN (MWH)	302,283	247,902	367,494	323,783	295,301	304,140	294,537	323,452	344,501	370,699	96,832		3,270,924
18. ANOHR (BTU/KWH)	7,283.3	7,013.3	6,840.2	7,073.6	6,950.6	6,992.9	7,104.9	7,079.3	6,986.5	7,077.3	6,636.8		7,025.3
19. NOF (%)	91.37	89.95	93.85	88.61	80.47	84.44	82.75	86.66	91.85	94.92	86.65		88.47
20. NPC (MW)	527	527	527	527	527	527	527	527	527	527	527		527

**Duke Energy Florida**

**ACTUAL UNIT EVENT DATA -- January - November 2017**

**Bartow CC**

Unit	Date	Outage Type	Hours	MW Affected	Description
BCC 4A	1/24/2017	PPO	40.52	23.0	NOX STACK EMISSIONS - GAS TURBINE UNITS
BCC 4A	3/4/2017	PO	270.00	168.0	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
BCC 4A	5/13/2017	FMO	57.82	168.0	BLADE PATH TEMPERATURE SPREAD
BCC 4A	7/11/2017	FFO	17.13	168.0	BLADE PATH TEMPERATURE SPREAD
BCC 4A	7/12/2017	FFO	13.52	168.0	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
BCC 4A	7/17/2017	FFO	7.68	168.0	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
BCC 4A	7/20/2017	FFO	15.55	168.0	PROTECTION DEVICES
BCC 4A	9/2/2017	FFO	43.50	168.0	GAS TURBINE - FUEL PIPING AND VALVES
BCC 4A	11/27/2017	FMO	74.62	168.0	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
BCC 4B	1/26/2017	PPO	11.00	24.0	NOX STACK EMISSIONS - GAS TURBINE UNITS
BCC 4B	2/15/2017	FFO	48.02	169.0	GAS TURBINE - DIVERTER DAMPERS
BCC 4B	2/17/2017	FMO	70.97	169.0	GAS TURBINE - TURNING GEAR AND MOTOR
BCC 4B	2/24/2017	FMO	87.00	169.0	SOLID STATE EXCITER ELEMENT
BCC 4B	2/28/2017	FFO	14.98	169.0	LOW PRESSURE COMPRESSURE BLEED VALVES
BCC 4B	3/7/2017	FMO	17.30	169.0	BLADE PATH TEMPERATURE SPREAD
BCC 4B	5/16/2017	FFO	45.32	169.0	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
BCC 4B	5/18/2017	FFO	6.73	169.0	FIRE PROTECTION SYSTEM INSTRUMENTATION AND CONTROL
BCC 4B	5/29/2017	FFO	0.32	169.0	GAS TURBINE PERFORMANCE TESTING - INDIVID. ENGINES
BCC 4B	6/12/2017	FFO	17.13	169.0	BLADE PATH TEMPERATURE SPREAD
BCC 4B	10/17/2017	FMO	64.52	169.0	GAS TURBINE - FUEL PIPING AND VALVES
BCC 4B	11/4/2017	FMO	159.75	169.0	GAS TURBINE - BOROSCOPE INSPECTION
BCC 4B	11/28/2017	FFO	6.13	169.0	GAS TURBINE - STARTING SYSTEM (INCLUDING MOTOR)
BCC 4C	1/27/2017	PPO	35.00	27.0	NOX STACK EMISSIONS - GAS TURBINE UNITS
BCC 4C	6/16/2017	FFO	16.27	172.0	GENERATOR CURRENT AND POTENTIAL TRANSFORMERS
BCC 4C	9/12/2017	FFO	2.13	172.0	GAS TURBINE - FUEL PIPING AND VALVES
BCC 4C	10/14/2017	FFO	4.33	172.0	GAS TURBINE - FUEL PIPING AND VALVES
BCC 4C	11/24/2017	FFO	17.60	172.0	HP STARTUP BYPASS INSTRUMENTATION AND CONTROLS

**Duke Energy Florida**

**ACTUAL UNIT EVENT DATA -- January - November 2017**

**Bartow CC**

Unit	Date	Outage Type	Hours	MW Affected	Description
BCC 4D	1/28/2017	PPO	35.00	22.0	NOX STACK EMISSIONS - GAS TURBINE UNITS
BCC 4D	2/14/2017	FMO	24.02	167.0	GAS TURBINE - FUEL PIPING AND VALVES
BCC 4D	3/15/2017	FFO	2.00	167.0	BLADE PATH TEMPERATURE SPREAD
BCC 4D	3/23/2017	FFO	7.00	167.0	BLADE PATH TEMPERATURE SPREAD
BCC 4D	3/28/2017	FFO	15.00	167.0	OTHER GAS TURBINE PROBLEMS
BCC 4D	9/12/2017	FFO	0.43	167.0	BLADE PATH TEMPERATURE SPREAD
BCC 4D	11/2/2017	FMO	6.43	167.0	GAS TURBINE - FIRE DETECTION AND EXTINGUISHING SYS
BCC 4D	11/11/2017	FMO	119.37	167.0	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
BCC 4S	1/24/2017	PPO	40.52	284.0	NOX STACK EMISSIONS - GAS TURBINE UNITS
BCC 4S	1/26/2017	PPO	11.00	284.0	NOX STACK EMISSIONS - GAS TURBINE UNITS
BCC 4S	1/27/2017	PPO	11.00	284.0	NOX STACK EMISSIONS - GAS TURBINE UNITS
BCC 4S	1/28/2017	PPO	35.00	284.0	NOX STACK EMISSIONS - GAS TURBINE UNITS
BCC 4S	2/5/2017	FFO	1513.67	429.0	LP TURBINE BUCKETS OR BLADES
BCC 4S	4/9/2017	PFO	5661.83	82.9	OTHER LOW PRESSURE TURBINE PROBLEMS
BCC 4S	5/1/2017	PFO	592.38	72.5	OTHER COMBINED CYCLE PROBLEMS
BCC 4S	5/13/2017	PMO	57.82	46.5	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
BCC 4S	5/18/2017	PFO	6.73	46.0	FIRE PROTECTION SYSTEM INSTRUMENTATION AND CONTROL
BCC 4S	5/29/2017	PFO	0.53	72.4	OTHER COMBINED CYCLE PROBLEMS
BCC 4S	6/12/2017	PFO	17.13	72.5	BLADE PATH TEMPERATURE SPREAD
BCC 4S	6/16/2017	PFO	16.27	72.5	GENERATOR CURRENT AND POTENTIAL TRANSFORMERS
BCC 4S	7/11/2017	PFO	26.93	72.5	BLADE PATH TEMPERATURE SPREAD
BCC 4S	7/12/2017	PFO	13.52	72.5	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
BCC 4S	7/15/2017	FFO	39.63	429.0	MAIN TRANSFORMER
BCC 4S	7/17/2017	PFO	7.68	73.0	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
BCC 4S	7/20/2017	PFO	15.85	72.5	PROTECTION DEVICES
BCC 4S	9/30/2017	FMO	35.93	429.0	12-15KV PROTECTION DEVICES
BCC 4S	10/14/2017	PFO	4.55	83.0	GAS TURBINE - FUEL PIPING AND VALVES

**Duke Energy Florida**

**ACTUAL UNIT EVENT DATA -- January - November 2017**

**Bartow CC**

<b>Unit</b>	<b>Date</b>	<b>Outage Type</b>	<b>Hours</b>	<b>MW Affected</b>	<b>Description</b>
BCC 4S	10/17/2017	PFO	64.52	80.0	GAS TURBINE - FUEL PIPING AND VALVES

**Duke Energy Florida**

**ACTUAL UNIT EVENT DATA -- January - November 2017**

**Crystal River 4**

<b>Date</b>	<b>Outage Type</b>	<b>Hours</b>	<b>MW Affected</b>	<b>Description</b>
1/7/2017	PFO	19.72	160.0	WET COAL (OMC)
1/14/2017	PFO	1.42	93.0	PULVERIZER FEEDERS
1/18/2017	PMO	4.50	93.0	AIR SUPPLY DAMPERS
1/25/2017	FMO	95.30	712.0	FIRST REHEATER LEAKS
2/4/2017	PFO	7.40	93.0	PULVERIZER FEEDERS
2/7/2017	PMO	6.40	454.0	CEMS - CERTIFICATION AND RECERTIFICATION
2/9/2017	PMO	3.28	93.0	PULVERIZED FUEL AND AIR PIPING (PULVERIZER TO WIND BOX)
2/15/2017	PMO	1.13	93.0	PULVERIZED FUEL AND AIR PIPING (PULVERIZER TO WIND BOX)
2/23/2017	PMO	4.00	92.9	PULVERIZED FUEL AND AIR PIPING (PULVERIZER TO WIND BOX)
2/27/2017	PFO	6.58	27.0	FIRST SUPERHEATER LEAKS
2/28/2017	FMO	68.30	712.0	FIRST SUPERHEATER LEAKS
3/9/2017	PFO	13.47	93.0	PRIMARY AIR DUCTS AND DAMPERS
3/21/2017	PMO	3.50	93.0	PULVERIZED FUEL AND AIR PIPING (PULVERIZER TO WIND BOX)
3/24/2017	PMO	3.50	93.0	BURNERS
4/7/2017	PMO	4.75	92.9	PULVERIZER MILLS
4/11/2017	PFO	6.00	93.0	PULVERIZER FEEDERS
4/13/2017	PFO	1.18	93.3	PULVERIZER FEEDERS
4/18/2017	PFO	1.22	66.7	PULVERIZER FEEDERS
4/20/2017	PMO	5.00	188.0	PULVERIZED FUEL AND AIR PIPING (PULVERIZER TO WIND BOX)
4/23/2017	PMO	8.27	307.0	FORCED DRAFT FANS
4/24/2017	PMO	7.28	331.0	FORCED DRAFT FANS
4/26/2017	PMO	5.60	236.0	CONDENSATE/HOTWELL PUMPS
4/26/2017	PMO	2.50	74.0	COAL CONVEYERS AND FEEDERS
4/26/2017	PMO	7.00	236.0	CONDENSATE/HOTWELL PUMPS
4/28/2017	PMO	5.63	93.0	CONDENSATE/HOTWELL PUMPS
5/1/2017	PMO	20.25	93.0	PULVERIZER MILLS
5/2/2017	PMO	7.00	93.0	PULVERIZER LUBE OIL SYSTEM

**Duke Energy Florida**

**ACTUAL UNIT EVENT DATA -- January - November 2017**

**Crystal River 4**

<b>Date</b>	<b>Outage Type</b>	<b>Hours</b>	<b>MW Affected</b>	<b>Description</b>
5/3/2017	PFO	1.18	222.1	PULVERIZED FUEL AND AIR PIPING (PULVERIZER TO WIND BOX)
5/3/2017	PFO	26.13	93.0	PULVERIZER MILLS
5/5/2017	PMO	7.00	93.0	PULVERIZER LUBE OIL SYSTEM
5/8/2017	PFO	9.47	93.0	PULVERIZER MILLS
5/10/2017	PMO	5.80	93.1	PULVERIZED FUEL AND AIR PIPING (PULVERIZER TO WIND BOX)
5/25/2017	PPO	3.50	93.0	PULVERIZED FUEL AND AIR PIPING (PULVERIZER TO WIND BOX)
5/25/2017	PPO	256.48	65.0	HEATER DRAIN PUMPS
6/5/2017	FMO	3.20	712.0	PULVERIZER LUBE OIL SYSTEM
6/8/2017	PMO	4.93	93.0	PULVERIZED FUEL AND AIR PIPING (PULVERIZER TO WIND BOX)
6/22/2017	PMO	3.50	93.0	PULVERIZED FUEL AND AIR PIPING (PULVERIZER TO WIND BOX)
6/26/2017	PFO	1.03	265.4	PRIMARY AIR DUCTS AND DAMPERS
6/26/2017	PFO	1.48	93.1	PRIMARY AIR DUCTS AND DAMPERS
6/29/2017	PMO	1.33	92.9	PULVERIZER FEEDERS
6/30/2017	FFO	84.82	712.0	SECOND SUPERHEATER LEAKS
7/7/2017	PPO	4.50	284.0	OTHER BURNER PROBLEMS
7/11/2017	PPO	4.50	284.0	CONDENSATE/HOTWELL PUMP MOTOR
7/15/2017	PFO	77.98	494.0	FIRST REHEATER LEAKS
7/18/2017	FMO	115.27	712.0	FIRST REHEATER LEAKS
7/30/2017	FFO	80.33	712.0	OTHER SWITCHYARD EQUIPMENT
8/2/2017	FFO	0.63	712.0	INDUCED DRAFT FANS
8/3/2017	PFO	9.00	93.0	PULVERIZER FEEDERS
8/10/2017	PPO	4.50	93.0	BURNERS
8/24/2017	PPO	4.77	93.1	BURNERS
9/8/2017	FFO	2.33	712.0	BOTTOM ASH HOPPERS (INCLUDING GATES)
9/11/2017	FFO	22.37	712.0	HURRICANE
9/12/2017	PFO	58.85	474.0	HURRICANE
9/19/2017	PPO	4.83	93.0	BURNERS

**Duke Energy Florida**

**ACTUAL UNIT EVENT DATA -- January - November 2017**

**Crystal River 4**

<b>Date</b>	<b>Outage Type</b>	<b>Hours</b>	<b>MW Affected</b>	<b>Description</b>
9/22/2017	PFO	31.43	74.0	HEATER DRAIN PUMPS
9/26/2017	PPO	6.90	255.0	FORCED DRAFT FANS
9/27/2017	PPO	6.53	284.0	FORCED DRAFT FANS
9/28/2017	PMO	5.73	93.0	PRIMARY AIR DUCTS AND DAMPERS
9/29/2017	PPO	125.00	93.0	PULVERIZER OVERHAUL
10/5/2017	PMO	1.63	560.3	GENERATOR - OTHER COOLING SYSTEM PROBLEMS
10/5/2017	PPO	245.52	93.0	PULVERIZER OVERHAUL
10/18/2017	PFO	0.92	93.2	PRIMARY AIR DUCTS AND DAMPERS
11/4/2017	FFO	648.22	712.0	LP TURBINE BUCKETS OR BLADES

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - November 2017

Crystal River 5

Date	Outage Type	Hours	MW Affected	Description
1/4/2017	PMO	6.33	91.0	PULVERIZER LUBE OIL SYSTEM
1/12/2017	PMO	7.50	91.0	PULVERIZER MILLS
2/16/2017	PMO	15.00	91.0	FOREIGN OBJECT IN MILL
3/4/2017	PFO	3.50	44.0	SOOT BLOWER CONTROLS
3/5/2017	FMO	74.17	710.0	AIR HEATER SOOT BLOWER
3/8/2017	PMO	339.62	91.0	PULVERIZER MILLS
3/22/2017	PFO	2.83	281.9	PULVERIZER LUBE OIL SYSTEM
3/25/2017	PMO	44.38	91.0	PULVERIZER MILLS
3/31/2017	FFO	122.92	710.0	SECOND SUPERHEATER LEAKS
4/5/2017	PMO	361.07	91.0	PULVERIZER MILLS
4/23/2017	PMO	45.12	91.0	PULVERIZER MILLS
4/26/2017	PMO	2.50	90.9	COAL CONVEYERS AND FEEDERS
4/28/2017	PFO	4.33	91.3	PULVERIZER FEEDERS
5/4/2017	PMO	8.00	91.0	PULVERIZER LUBE OIL SYSTEM
5/9/2017	PFO	10.63	282.0	CIRCULATING WATER PIPING
5/16/2017	PMO	16.42	91.0	PULVERIZER MILLS
5/21/2017	PMO	19.82	91.0	PULVERIZER MILLS
6/9/2017	PFO	1.92	91.1	WET COAL (OMC)
6/9/2017	PFO	0.60	281.6	WET COAL (OMC)
6/9/2017	PFO	2.95	91.0	WET COAL (OMC)
6/15/2017	PFO	2.75	281.9	PULVERIZER FEEDERS
6/15/2017	PFO	1.82	186.0	PULVERIZER FEEDERS
6/15/2017	PFO	1.15	114.8	PULVERIZER FEEDERS
6/17/2017	PFO	26.98	91.0	PULVERIZER MILLS
7/12/2017	PPO	2.00	90.9	PULVERIZER MILLS
8/7/2017	PFO	4.50	91.0	PULVERIZER FEEDERS
9/11/2017	FFO	82.63	710.0	HURRICANE



**Duke Energy Florida**

**ACTUAL UNIT EVENT DATA -- January - November 2017**

**Crystal River 5**

<b>Date</b>	<b>Outage Type</b>	<b>Hours</b>	<b>MW Affected</b>	<b>Description</b>
9/19/2017	PPO	62.70	25.0	FIRST REHEATER LEAKS
9/22/2017	FMO	45.53	710.0	BOILER SCREEN; WING WALL; OR SLAG SCREEN LEAKS...
10/20/2017	PO	985.50	710.0	MAJOR BOILER OVERHAUL (720 HOURS OR MORE)

**Duke Energy Florida**

**ACTUAL UNIT EVENT DATA -- January - November 2017**

**Hines Power Block 1**

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 1A	2/25/2017	PPO	7.45	87.0	CONDENSER TUBE FOULING TUBE SIDE
HEP 1A	3/31/2017	PO	690.22	169.0	GENERAL GAS TURBINE UNIT INSPECTION
HEP 1A	5/4/2017	PFO	1.25	78.0	OTHER EXCITER PROBLEMS
HEP 1A	5/15/2017	FFO	7.98	169.0	FEEDWATER REGULATING (BOILER LEVEL CONTROL) VALVE
HEP 1A	5/16/2017	PFO	236.00	63.0	CIRCULATING WATER PUMPS
HEP 1A	5/28/2017	FFO	1.55	169.0	OTHER FEEDWATER SYSTEM PROBLEMS
HEP 1A	7/5/2017	PPO	59.00	41.0	CONDENSER TUBE FOULING TUBE SIDE
HEP 1A	7/28/2017	PPO	5.50	84.0	INTAKE GRATING FOULING
HEP 1A	8/9/2017	PPO	0.92	84.0	TRAVELING SCREEN FOULING
HEP 1A	9/15/2017	PPO	0.92	73.9	TRAVELING SCREEN FOULING
HEP 1A	10/9/2017	PPO	5.25	85.0	CONDENSER TUBE SHEET FOULING
HEP 1A	10/9/2017	PFO	2.67	85.0	CIRCULATING WATER PUMP MOTORS
HEP 1A	10/24/2017	FMO	46.07	169.0	INSTRUMENT AIR PIPING
HEP 1A	10/29/2017	FFO	1.95	169.0	OTHER GAS TURBINE COMPRESSOR LOW PRESSURE PROBLEMS
HEP 1A	11/30/2017	FFO	21.67	169.0	GAS TURBINE - FIRE DETECTION AND EXTINGUISHING SYS
HEP 1B	2/25/2017	PPO	7.45	86.0	CONDENSER TUBE FOULING TUBE SIDE
HEP 1B	4/6/2017	PO	784.97	169.0	GENERAL GAS TURBINE UNIT INSPECTION
HEP 1B	5/8/2017	FFO	0.58	169.0	FEEDWATER REGULATING (BOILER LEVEL CONTROL) VALVE
HEP 1B	5/16/2017	PFO	236.00	63.0	CIRCULATING WATER PUMPS
HEP 1B	5/28/2017	FFO	330.97	169.0	CONTRACTOR ERROR
HEP 1B	7/5/2017	PPO	59.00	41.0	CONDENSER TUBE FOULING TUBE SIDE
HEP 1B	7/8/2017	FFO	61.32	169.0	OTHER EXCITER PROBLEMS
HEP 1B	7/28/2017	PPO	5.50	84.0	INTAKE GRATING FOULING
HEP 1B	8/9/2017	PPO	0.92	84.0	TRAVELING SCREEN FOULING
HEP 1B	9/15/2017	PPO	0.78	63.0	TRAVELING SCREEN FOULING
HEP 1B	10/9/2017	PPO	5.25	85.0	CONDENSER TUBE SHEET FOULING
HEP 1B	10/9/2017	PFO	2.67	85.0	CIRCULATING WATER PUMP MOTORS

**Duke Energy Florida**

**ACTUAL UNIT EVENT DATA -- January - November 2017**

**Hines Power Block 1**

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 1B	10/24/2017	FMO	46.05	169.0	INSTRUMENT AIR PIPING
HEP 1B	11/30/2017	FFO	2.75	169.0	OTHER COMBINED CYCLE PROBLEMS
HEP ST1	2/25/2017	PPO	7.45	71.0	CONDENSER TUBE FOULING TUBE SIDE
HEP ST1	4/6/2017	PO	558.10	179.0	GENERAL GAS TURBINE UNIT INSPECTION
HEP ST1	5/4/2017	PFO	1.25	125.0	OTHER EXCITER PROBLEMS
HEP ST1	5/16/2017	PFO	566.17	58.0	CIRCULATING WATER PUMPS
HEP ST1	6/8/2017	PFO	56.80	101.0	CONTRACTOR ERROR
HEP ST1	7/5/2017	PPO	59.00	45.0	CONDENSER TUBE FOULING TUBE SIDE
HEP ST1	7/8/2017	PFO	65.67	108.0	OTHER EXCITER PROBLEMS
HEP ST1	7/28/2017	PPO	5.50	73.0	INTAKE GRATING FOULING
HEP ST1	8/9/2017	PPO	0.92	57.0	TRAVELING SCREEN FOULING
HEP ST1	9/15/2017	PPO	0.92	68.9	TRAVELING SCREEN FOULING
HEP ST1	10/9/2017	PPO	5.25	65.0	CONDENSER TUBE SHEET FOULING
HEP ST1	10/9/2017	PFO	2.67	65.1	CIRCULATING WATER PUMP MOTORS
HEP ST1	10/24/2017	FMO	46.03	179.0	INSTRUMENT AIR PIPING
HEP ST1	10/28/2017	FFO	9.42	179.0	OTHER MAIN STEAM VALVES (INCLUDING VENT AND DRAIN.
HEP ST1	11/30/2017	FFO	6.33	179.0	OTHER COMBINED CYCLE PROBLEMS
HEP ST1	11/30/2017	PMO	14.00	99.0	GAS TURBINE - FIRE DETECTION AND EXTINGUISHING SYS

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**ACTUAL UNIT EVENT DATA -- January - November 2017**

**Hines Power Block 2**

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 2A	3/10/2017	PPO	1.50	63.3	INTAKE GRATING FOULING
HEP 2A	4/20/2017	PPO	1.33	71.3	INTAKE GRATING FOULING
HEP 2A	5/5/2017	PPO	5.67	61.3	INTAKE GRATING FOULING
HEP 2A	6/3/2017	PPO	4.08	68.3	INTAKE GRATING FOULING
HEP 2A	6/24/2017	PPO	1.25	64.3	INTAKE GRATING FOULING
HEP 2A	7/13/2017	PPO	6.00	66.3	CONDENSER TUBE FOULING TUBE SIDE
HEP 2A	7/22/2017	FMO	16.67	171.3	FEEDWATER PIPING
HEP 2A	8/2/2017	PPO	1.53	73.3	TRAVELING SCREEN FOULING
HEP 2A	8/14/2017	PPO	1.27	70.3	TRAVELING SCREEN FOULING
HEP 2A	8/28/2017	FFO	7.53	171.3	GAS TURBINE - CONTROLS AND INSTRUMENTS
HEP 2A	8/29/2017	FFO	29.18	171.3	OTHER MAIN STEAM VALVES (INCLUDING VENT AND DRAIN.
HEP 2A	8/30/2017	FFO	54.55	171.3	BLADE PATH TEMPERATURE SPREAD
HEP 2A	9/15/2017	PPO	0.75	61.2	TRAVELING SCREEN FOULING
HEP 2A	9/21/2017	PPO	4.00	73.3	CONDENSER TUBE SHEET FOULING
HEP 2A	9/22/2017	PO	669.00	171.3	DISTRIBUTIVE CONTROL SYSTEM UPGRADES
HEP 2A	10/20/2017	PO	0.07	171.3	GAS TURBINE - CONTROLS AND INSTRUMENTS
HEP 2A	10/20/2017	PO	12.23	171.3	DISTRIBUTIVE CONTROL SYSTEM UPGRADES
HEP 2A	10/22/2017	PO	51.85	171.3	GAS TURBINE - FUEL PIPING AND VALVES
HEP 2A	10/24/2017	PO	21.30	171.3	OTHER FEEDWATER PUMP PROBLEMS
HEP 2B	3/10/2017	PPO	1.50	63.3	INTAKE GRATING FOULING
HEP 2B	4/20/2017	PPO	1.33	71.3	INTAKE GRATING FOULING
HEP 2B	5/4/2017	PPO	5.67	61.3	INTAKE GRATING FOULING
HEP 2B	6/3/2017	PPO	4.08	69.3	INTAKE GRATING FOULING
HEP 2B	6/24/2017	PPO	1.25	64.3	INTAKE GRATING FOULING
HEP 2B	7/13/2017	PPO	6.00	66.3	CONDENSER TUBE FOULING TUBE SIDE
HEP 2B	8/2/2017	PPO	1.53	73.3	TRAVELING SCREEN FOULING
HEP 2B	8/14/2017	PPO	1.27	70.3	TRAVELING SCREEN FOULING

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ACTUAL UNIT EVENT DATA -- January - November 2017

Hines Power Block 2

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 2B	8/21/2017	PPO	6.00	61.3	TRAVELING SCREEN FOULING
HEP 2B	9/15/2017	PPO	0.75	73.3	TRAVELING SCREEN FOULING
HEP 2B	9/21/2017	PPO	4.00	73.3	CONDENSER TUBE SHEET FOULING
HEP 2B	9/22/2017	PO	638.75	171.3	DISTRIBUTIVE CONTROL SYSTEM UPGRADES
HEP 2B	10/19/2017	PO	0.15	171.3	EMERGENCY GENERATOR TRIP DEVICES
HEP 2B	10/19/2017	PO	15.23	171.3	GAS TURBINE PERFORMANCE TESTING - INDIVID. ENGINES
HEP 2B	10/21/2017	PO	3.47	171.3	GAS TURBINE - INLET AIR VANES
HEP 2B	10/23/2017	PO	5.42	171.3	GAS TURBINE CONTROL SYSTEM - UPGRADES
HEP 2B	11/3/2017	FFO	25.12	171.3	LIQUID FUEL PURGE SYSTEM
HEP 2B	11/6/2017	FFO	1.07	171.3	OTHER GAS TURBINE COMBUSTOR PROBLEMS
HEP ST2	3/10/2017	PPO	1.50	59.4	INTAKE GRATING FOULING
HEP ST2	4/20/2017	PPO	1.33	65.4	INTAKE GRATING FOULING
HEP ST2	5/4/2017	PPO	5.67	65.4	INTAKE GRATING FOULING
HEP ST2	6/3/2017	PPO	4.08	67.4	INTAKE GRATING FOULING
HEP ST2	6/24/2017	PPO	1.25	66.4	INTAKE GRATING FOULING
HEP ST2	7/13/2017	PPO	6.00	82.4	CONDENSER TUBE FOULING TUBE SIDE
HEP ST2	8/2/2017	PPO	1.53	68.4	TRAVELING SCREEN FOULING
HEP ST2	8/14/2017	PPO	1.27	70.5	TRAVELING SCREEN FOULING
HEP ST2	8/28/2017	PFO	7.53	132.4	GAS TURBINE - CONTROLS AND INSTRUMENTS
HEP ST2	8/29/2017	PFO	29.18	132.4	OTHER MAIN STEAM VALVES (INCLUDING VENT AND DRAIN.
HEP ST2	8/30/2017	PFO	54.55	132.4	BLADE PATH TEMPERATURE SPREAD
HEP ST2	9/13/2017	PFO	11.48	134.4	HURRICANE
HEP ST2	9/15/2017	PPO	0.75	134.4	TRAVELING SCREEN FOULING
HEP ST2	9/21/2017	PPO	4.00	65.4	CONDENSER TUBE SHEET FOULING
HEP ST2	9/22/2017	PO	644.93	202.4	DISTRIBUTIVE CONTROL SYSTEM UPGRADES
HEP ST2	10/19/2017	PO	17.45	202.4	GAS TURBINE PERFORMANCE TESTING - INDIVID. ENGINES
HEP ST2	10/23/2017	PO	7.67	202.4	GAS TURBINE CONTROL SYSTEM - UPGRADES

**Duke Energy Florida**

**ACTUAL UNIT EVENT DATA -- January - November 2017**

**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	11/3/2017	PFO	24.58	117.4	LIQUID FUEL PURGE SYSTEM

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**ACTUAL UNIT EVENT DATA -- January - November 2017**

**Hines Power Block 3**

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 3A	1/21/2017	FFO	0.25	172.5	FEEDWATER CONTROLS
HEP 3A	1/21/2017	FMO	62.25	172.5	BOILER; MISCELLANEOUS
HEP 3A	3/3/2017	PO	619.52	172.5	GENERAL GAS TURBINE UNIT INSPECTION
HEP 3A	3/30/2017	FFO	12.08	172.5	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 3A	3/30/2017	FFO	8.02	172.5	OPERATOR ERROR
HEP 3A	5/20/2017	PPO	6.00	45.5	INTAKE GRATING FOULING
HEP 3A	6/11/2017	FFO	81.12	172.5	HP TURBINE SHAFT SEALS
HEP 3A	6/14/2017	FFO	1.20	172.5	CONDENSER LOSS OF VACUUM
HEP 3A	6/23/2017	PPO	6.50	59.5	INTAKE GRATING FOULING
HEP 3A	7/1/2017	PPO	1.08	55.4	INTAKE GRATING FOULING
HEP 3A	7/28/2017	PPO	5.00	54.5	INTAKE GRATING FOULING
HEP 3A	7/30/2017	FMO	46.17	172.5	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
HEP 3A	8/9/2017	PPO	0.50	59.3	TRAVELING SCREEN FOULING
HEP 3A	8/23/2017	PPO	4.25	59.5	TRAVELING SCREEN FOULING
HEP 3A	9/7/2017	PPO	7.50	39.5	CONDENSER TUBE SHEET FOULING
HEP 3A	9/11/2017	FFO	431.07	172.5	HURRICANE
HEP 3A	11/5/2017	FMO	23.00	172.5	OTHER STACK OR EXHAUST EMISSIONS -GAS TURBINE UNIT
HEP 3A	11/9/2017	FMO	19.20	172.5	CONDENSATE PIPING
HEP 3B	3/4/2017	PO	642.73	172.5	GENERAL GAS TURBINE UNIT INSPECTION
HEP 3B	5/7/2017	FFO	2.33	172.5	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
HEP 3B	5/20/2017	PPO	6.00	58.5	INTAKE GRATING FOULING
HEP 3B	6/11/2017	FFO	126.18	172.5	HP TURBINE SHAFT SEALS
HEP 3B	6/16/2017	FFO	5.65	172.5	BLADE PATH TEMPERATURE SPREAD
HEP 3B	6/23/2017	PPO	6.50	59.5	INTAKE GRATING FOULING
HEP 3B	7/1/2017	PPO	1.08	54.5	INTAKE GRATING FOULING
HEP 3B	7/28/2017	PPO	5.00	54.5	INTAKE GRATING FOULING
HEP 3B	7/30/2017	FMO	39.83	172.5	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS

**Duke Energy Florida**

**ACTUAL UNIT EVENT DATA -- January - November 2017**

**Hines Power Block 3**

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 3B	8/9/2017	PPO	0.50	59.3	TRAVELING SCREEN FOULING
HEP 3B	8/23/2017	PPO	4.25	59.5	TRAVELING SCREEN FOULING
HEP 3B	9/7/2017	PPO	7.50	58.5	CONDENSER TUBE SHEET FOULING
HEP 3B	9/11/2017	FFO	49.07	172.5	HURRICANE
HEP 3B	11/7/2017	FMO	29.75	172.5	OTHER STACK OR EXHAUST EMISSIONS -GAS TURBINE UNIT
HEP 3B	11/11/2017	FFO	16.92	172.5	OTHER STACK OR EXHAUST EMISSIONS -GAS TURBINE UNIT
HEP ST3	1/21/2017	PFO	0.25	110.1	FEEDWATER REGULATING (BOILER LEVEL CONTROL) VALVE
HEP ST3	1/21/2017	PMO	62.17	110.1	OTHER STACK OR EXHAUST EMISSIONS -GAS TURBINE UNIT
HEP ST3	3/3/2017	PO	625.17	198.1	GENERAL GAS TURBINE UNIT INSPECTION
HEP ST3	3/30/2017	FFO	13.67	198.1	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST3	3/30/2017	FFO	5.03	198.1	OPERATOR ERROR
HEP ST3	5/20/2017	PPO	6.00	54.1	INTAKE GRATING FOULING
HEP ST3	6/11/2017	FFO	85.65	198.1	HP TURBINE SHAFT SEALS
HEP ST3	6/23/2017	PPO	6.50	51.1	INTAKE GRATING FOULING
HEP ST3	7/1/2017	PPO	1.08	52.1	INTAKE GRATING FOULING
HEP ST3	7/28/2017	PPO	5.00	54.1	INTAKE GRATING FOULING
HEP ST3	7/29/2017	FMO	43.00	198.1	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
HEP ST3	8/9/2017	PPO	0.50	76.1	TRAVELING SCREEN FOULING
HEP ST3	8/21/2017	PPO	6.00	71.1	TRAVELING SCREEN FOULING
HEP ST3	8/23/2017	PPO	4.25	92.0	TRAVELING SCREEN FOULING
HEP ST3	9/7/2017	PPO	7.50	53.1	CONDENSER TUBE FOULING TUBE SIDE
HEP ST3	9/11/2017	FFO	51.48	198.1	HURRICANE
HEP ST3	9/13/2017	PFO	378.25	111.1	HURRICANE
HEP ST3	11/5/2017	PMO	23.00	108.1	OTHER STACK OR EXHAUST EMISSIONS -GAS TURBINE UNIT
HEP ST3	11/7/2017	PMO	30.03	108.1	OTHER STACK OR EXHAUST EMISSIONS -GAS TURBINE UNIT
HEP ST3	11/9/2017	FMO	19.47	198.1	CONDENSATE PIPING



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ACTUAL UNIT EVENT DATA -- January - November 2017

Hines Power Block 4

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 4A	4/8/2017	PO	16.37	168.6	TURBINE HYDRAULIC SYSTEM PIPES AND VALVES
HEP 4A	4/14/2017	FFO	10.85	168.6	CIRCULATING WATER PUMPS
HEP 4A	5/30/2017	FFO	42.50	168.6	CONDENSER TUBE FOULING TUBE SIDE
HEP 4A	6/1/2017	PPO	5.67	71.6	INTAKE GRATING FOULING
HEP 4A	6/28/2017	PFO	68.40	73.6	CONDENSER TUBE AND WATER BOX CLEANING
HEP 4A	7/8/2017	PFO	119.25	64.6	CIRCULATING WATER PUMPS
HEP 4A	7/14/2017	FMO	16.75	168.6	GAS TURBINE - INLET AIR FILTERS
HEP 4A	8/6/2017	PPO	1.75	58.6	TRAVELING SCREEN FOULING
HEP 4A	8/11/2017	PPO	13.63	70.6	CONDENSER TUBE FOULING TUBE SIDE
HEP 4A	8/12/2017	PPO	5.22	70.6	CONDENSER TUBE FOULING TUBE SIDE
HEP 4A	8/13/2017	PPO	8.17	70.6	CONDENSER TUBE FOULING TUBE SIDE
HEP 4A	8/21/2017	PPO	6.00	58.6	TRAVELING SCREEN FOULING
HEP 4A	8/22/2017	PFO	5.43	70.6	CIRCULATING WATER PUMPS
HEP 4A	8/22/2017	FFO	70.97	168.6	CONDENSER TUBE FOULING SHELL SIDE
HEP 4A	9/6/2017	PPO	1.33	70.6	TRAVELING SCREEN FOULING
HEP 4A	9/18/2017	PPO	2.00	70.6	TRAVELING SCREEN FOULING
HEP 4A	10/22/2017	FFO	9.15	168.6	GAS TURBINE CONTROL SYSTEM - DATA HIGHWAY
HEP 4A	11/1/2017	PPO	1.50	65.6	TRAVELING SCREEN FOULING
HEP 4A	11/5/2017	FFO	3.47	168.6	GAS TURBINE CONTROL SYSTEM - DATA HIGHWAY
HEP 4A	11/9/2017	PO	511.33	168.6	DISTRIBUTIVE CONTROL SYSTEM UPGRADES
HEP 4B	2/20/2017	FFO	2.33	168.6	GAS TURBINE - CONTROLS AND INSTRUMENTS
HEP 4B	4/8/2017	PO	11.50	168.6	TURBINE HYDRAULIC SYSTEM PIPES AND VALVES
HEP 4B	4/14/2017	FFO	15.03	168.6	CIRCULATING WATER PUMPS
HEP 4B	6/1/2017	PPO	5.67	71.6	INTAKE GRATING FOULING
HEP 4B	6/28/2017	PFO	15.05	73.6	CONDENSER TUBE AND WATER BOX CLEANING
HEP 4B	6/29/2017	FMO	53.35	168.6	CONDENSER TUBE FOULING SHELL SIDE
HEP 4B	7/8/2017	PFO	119.25	64.6	CIRCULATING WATER PUMPS

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ACTUAL UNIT EVENT DATA -- January - November 2017

Hines Power Block 4

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 4B	7/15/2017	FFO	10.83	168.6	CIRCULATING WATER PUMPS
HEP 4B	7/24/2017	FMO	5.00	168.6	FEEDWATER PIPING
HEP 4B	7/25/2017	FFO	133.47	168.6	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
HEP 4B	8/3/2017	FFO	2.07	168.6	OTHER FEEDWATER SYSTEM PROBLEMS
HEP 4B	8/3/2017	FFO	1.00	168.6	OTHER FEEDWATER SYSTEM PROBLEMS
HEP 4B	8/3/2017	FFO	30.72	168.6	OTHER MISCELLANEOUS BALANCE OF PLANT PROBLEMS
HEP 4B	8/6/2017	PPO	1.75	58.6	TRAVELING SCREEN FOULING
HEP 4B	8/11/2017	PPO	13.63	70.6	CONDENSER TUBE FOULING TUBE SIDE
HEP 4B	8/12/2017	PPO	5.22	70.6	CONDENSER TUBE FOULING TUBE SIDE
HEP 4B	8/13/2017	PPO	8.17	70.6	CONDENSER TUBE FOULING TUBE SIDE
HEP 4B	8/21/2017	PPO	6.00	69.6	TRAVELING SCREEN FOULING
HEP 4B	8/22/2017	PFO	27.33	70.6	CIRCULATING WATER PUMPS
HEP 4B	8/22/2017	PPO	70.97	48.8	CONDENSER TUBE FOULING TUBE SIDE
HEP 4B	9/6/2017	PPO	1.33	70.6	TRAVELING SCREEN FOULING
HEP 4B	9/18/2017	PPO	2.00	69.6	TRAVELING SCREEN FOULING
HEP 4B	11/1/2017	PPO	1.50	65.6	TRAVELING SCREEN FOULING
HEP 4B	11/11/2017	PO	479.33	168.6	DISTRIBUTIVE CONTROL SYSTEM UPGRADES
HEP ST4	2/20/2017	PFO	2.33	106.8	OTHER GAS TURBINE EXHAUST PROBLEMS
HEP ST4	4/8/2017	PO	13.65	189.8	TURBINE HYDRAULIC SYSTEM PIPES AND VALVES
HEP ST4	4/10/2017	PPO	105.62	41.8	TURBINE HYDRAULIC SYSTEM PIPES AND VALVES
HEP ST4	4/14/2017	FFO	12.45	189.8	CIRCULATING WATER PUMPS
HEP ST4	5/30/2017	PFO	42.52	119.8	CONDENSER TUBE FOULING TUBE SIDE
HEP ST4	6/1/2017	PPO	5.67	48.8	INTAKE GRATING FOULING
HEP ST4	6/28/2017	PFO	68.40	59.8	CONDENSER TUBE AND WATER BOX CLEANING
HEP ST4	7/8/2017	PFO	119.25	59.8	CIRCULATING WATER PUMPS
HEP ST4	7/15/2017	FFO	11.92	189.8	CIRCULATING WATER PUMPS
HEP ST4	7/25/2017	PFO	133.47	102.8	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS

**Duke Energy Florida****ACTUAL UNIT EVENT DATA -- January - November 2017****Hines Power Block 4**

<b>Unit</b>	<b>Date</b>	<b>Outage Type</b>	<b>Hours</b>	<b>MW Affected</b>	<b>Description</b>
HEP ST4	8/6/2017	PPO	1.75	67.8	TRAVELING SCREEN FOULING
HEP ST4	8/11/2017	PPO	13.63	62.8	CONDENSER TUBE FOULING TUBE SIDE
HEP ST4	8/12/2017	PPO	5.22	62.8	CONDENSER TUBE FOULING TUBE SIDE
HEP ST4	8/13/2017	PPO	8.17	62.8	CONDENSER TUBE FOULING TUBE SIDE
HEP ST4	8/22/2017	PFO	27.33	64.8	CIRCULATING WATER PUMPS
HEP ST4	8/22/2017	PPO	70.97	103.8	CONDENSER TUBE FOULING TUBE SIDE
HEP ST4	9/6/2017	PPO	1.33	64.8	TRAVELING SCREEN FOULING
HEP ST4	9/18/2017	PPO	2.00	77.8	TRAVELING SCREEN FOULING
HEP ST4	10/22/2017	PFO	9.15	87.8	GAS TURBINE CONTROL SYSTEM - DATA HIGHWAY
HEP ST4	11/1/2017	PPO	1.50	49.9	TRAVELING SCREEN FOULING
HEP ST4	11/5/2017	PFO	3.47	99.8	GAS TURBINE CONTROL SYSTEM - DATA HIGHWAY
HEP ST4	11/11/2017	PO	479.28	189.8	DISTRIBUTIVE CONTROL SYSTEM UPGRADES