



MATTHEW R. BERNIER  
SENIOR COUNSEL

October 20, 2016

**VIA ELECTRONIC FILING**

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

Re: Docket No.: 160001  
Performance Data Report for September 2016

Dear Ms. Stauffer:

Attached for filing in the above docket is Duke Energy Florida, LLC's Performance Data Report for September 2016.

If you have any questions, please do not hesitate to contact me at (850) 521-1428.

Sincerely,

*/s/ Matthew R. Bernier*

Matthew R. Bernier  
Senior Counsel

MRB/db  
Attachment

cc: Daniel Lee, Division of Engineering, FPSC  
Parties of Record

CERTIFICATE OF SERVICE

Docket No. 160001-EI

I HEREBY CERTIFY that a true copy of Duke Energy Florida, LLC's Performance Data Report for the month of September 2016 has been furnished to the following individuals via e-mail on this 20th day of October, 2016.

*/s/ Matthew R. Bernier*

Attorney

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Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2016

Bartow CC	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan - Sep Period
1. EAF	90.99	98.10	76.99	52.16	59.75	85.02	97.04	97.99	96.85				83.84
2. PH	744	696	743	720	744	720	744	744	720				6,575
3. SH	648.7	645.8	548.9	375.6	440.5	612.2	730.8	736.4	700.3				5,439.2
4. RSH	28.3	37.0	23.1	0.0	4.6	0.0	0.0	0.0	0.0				92.9
5. UH	67.0	13.2	171.0	344.4	298.9	107.8	13.2	7.6	19.7				1,042.9
6. POH	0.0	0.0	171.0	340.9	288.9	107.8	0.0	0.0	0.0				908.6
7. FOH	67.0	13.2	0.0	3.5	5.3	0.0	13.2	7.1	19.7				129.0
8. MOH	0.0	0.0	0.0	0.0	4.7	0.0	0.0	0.6	0.0				5.3
9. PPOH	0.0	0.0	436.1	264.3	0.0	0.0	0.0	0.0	0.0				700.4
10. LR PP (MW)	0.0	0.0	120.0	118.0	0.0	0.0	0.0	0.0	0.0				119.2
11. PFOH	0.0	0.0	0.0	6.6	43.0	0.0	34.4	52.0	86.7				222.6
12. LR PF (MW)	0.0	0.0	0.0	0.0	14.4	0.0	297.9	163.5	40.7				102.8
13. PMOH	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
15. NSC (MW)	1162	1162	1162	1162	1162	1162	1162	1162	1162				1162
16. OPER MBTU	4,724,270	4,705,387	3,521,015	2,778,006	4,530,844	4,964,701	5,351,907	5,408,184	5,106,946				41,091,260
17. NET GEN (MWH)	640,347	644,116	488,672	306,456	405,293	594,418	732,862	738,912	688,871				5,239,947
18. ANOHR (BTU/KWH)	7,377.7	7,305.2	7,205.3	9,064.9	11,179.2	8,352.2	7,302.7	7,319.1	7,413.5				7,841.9
19. NOF (%)	84.95	85.83	76.61	70.22	79.18	83.56	86.30	86.36	84.65				82.91
20. NPC (MW)	1162	1162	1162	1162	1162	1162	1162	1162	1162				1162

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2016

CRYSTAL RIVER 4	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan - Sep Period
1. EAF	97.15	87.56	10.31	99.11	66.47	99.82	93.43	96.95	95.86				82.77
2. PH	744	696	743	720	744	720	744	744	720				6,575
3. SH	723.1	613.7	83.8	720.0	498.9	720.0	714.5	744.0	720.0				5,537.9
4. RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				0.0
5. UH	20.9	82.4	659.2	0.0	245.1	0.0	29.5	0.0	0.0				1,037.1
6. POH	0.0	82.4	659.2	0.0	0.0	0.0	0.0	0.0	0.0				741.6
7. FOH	20.9	0.0	0.0	0.0	0.0	0.0	29.5	0.0	0.0				50.4
8. MOH	0.0	0.0	0.0	0.0	245.1	0.0	0.0	0.0	0.0				245.1
9. PPOH	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
11. PFOH	0.0	0.0	0.0	1.2	10.1	0.3	30.6	81.3	30.0				153.4
12. LR PF (MW)	0.0	0.0	0.0	92.7	284.0	65.0	175.0	164.6	401.8				220.2
13. PMOH	2.0	17.3	54.7	46.0	3.0	13.7	32.8	21.6	75.6				266.6
14. LR PM (MW)	93.0	174.0	93.0	96.5	65.0	65.6	256.9	128.0	121.4				128.2
15. NSC (MW)	712	712	712	712	712	712	712	712	712				712
16. OPER MBTU	3,181,413	2,381,195	328,279	3,293,827	2,219,686	4,160,428	4,255,023	4,422,325	4,096,631				28,338,808
17. NET GEN (MWH)	281,627	212,501	27,079	319,988	199,549	402,205	431,436	432,186	399,809				2,706,380
18. ANOHR (BTU/KWH)	11,296.5	11,205.6	12,123.0	10,293.6	11,123.5	10,344.0	9,862.5	10,232.5	10,246.5				10,471.1
19. NOF (%)	54.70	48.64	45.40	62.42	56.18	78.46	84.81	81.59	77.99				68.64
20. NPC (MW)	712	712	712	712	712	712	712	712	712				712

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2016

CRYSTAL RIVER 5	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan - Sep Period
1. EAF	98.65	98.05	99.22	99.55	99.70	98.83	97.43	94.03	53.89				93.33
2. PH	744	696	743	720	744	720	744	744	720				6,575
3. SH	618.5	696.0	743.0	720.0	744.0	720.0	744.0	744.0	403.0				6,132.5
4. RSH	124.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				124.4
5. UH	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	317.0				318.1
6. POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				0.0
7. FOH	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	317.0				318.1
8. MOH	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	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
11. PFOH	20.0	8.3	5.5	3.0	0.0	0.0	0.0	67.7	31.4				135.8
12. LR PF (MW)	303.7	91.1	91.0	63.0	0.0	0.0	0.0	149.9	106.2				154.6
13. PMOH	3.6	58.1	10.5	16.9	2.8	40.2	39.1	83.4	51.2				305.8
14. LR PM (MW)	63.1	152.7	345.0	126.3	567.0	148.8	347.1	256.3	142.9				211.5
15. NSC (MW)	710	710	710	710	710	710	710	710	710				710
16. OPER MBTU	2,805,817	2,583,132	2,935,831	3,207,108	3,285,973	4,023,544	4,269,448	4,247,901	1,884,116				29,242,870
17. NET GEN (MWH)	249,857	236,536	280,664	313,678	301,125	396,796	439,920	412,581	198,071				2,829,228
18. ANOHR (BTU/KWH)	11,229.7	10,920.7	10,460.3	10,224.2	10,912.3	10,140.1	9,705.1	10,295.9	9,512.3				10,336.0
19. NOF (%)	56.90	47.87	53.20	61.36	57.01	77.62	83.28	78.10	69.22				64.98
20. NPC (MW)	710	710	710	710	710	710	710	710	710				710

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2016

HINES Power Block 1	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan - Sep Period
1. EAF	100.00	100.00	64.99	12.83	87.36	98.62	96.49	100.00	100.00				84.52
2. PH	744	696	743	720	744	720	744	744	720				6,575
3. SH	744.0	696.0	477.7	92.4	650.0	711.9	722.5	744.0	720.0				5,558.5
4. RSH	0.0	0.0	5.2	0.0	0.0	0.0	0.0	0.0	0.0				5.2
5. UH	0.0	0.0	260.1	627.6	94.0	8.1	21.5	0.0	0.0				1,011.3
6. POH	0.0	0.0	214.8	623.6	49.7	0.0	0.0	0.0	0.0				888.0
7. FOH	0.0	0.0	45.4	4.0	44.3	8.1	21.5	0.0	0.0				123.3
8. MOH	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	18.9	7.0	15.6	2.0	0.0				43.6
10. LR PP (MW)	0.0	0.0	0.0	0.0	78.3	85.9	47.1	79.2	0.0				68.4
11. PFOH	0.0	0.0	0.0	0.0	0.0	8.6	22.7	0.0	0.0				31.4
12. LR PF (MW)	0.0	0.0	0.0	0.0	0.0	106.4	105.4	0.0	0.0				105.7
13. PMOH	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
15. NSC (MW)	518	518	518	518	518	518	518	518	518				518
16. OPER MBTU	2,438,979	2,267,530	1,577,217	218,014	1,995,079	2,304,431	2,254,881	2,428,474	2,257,831				17,742,437
17. NET GEN (MWH)	344,015	322,178	207,300	26,041	270,336	308,101	314,579	335,591	316,133				2,444,274
18. ANOHR (BTU/KWH)	7,089.7	7,038.1	7,608.4	8,372.0	7,380.0	7,479.5	7,167.9	7,236.4	7,142.0				7,258.8
19. NOF (%)	89.26	89.36	83.78	54.40	80.29	83.55	84.05	87.08	84.76				84.89
20. NPC (MW)	518	518	518	518	518	518	518	518	518				518

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2016

HINES Power Block 2	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan - Sep Period
1. EAF	99.62	65.36	25.92	99.86	98.82	99.85	100.00	81.32	95.21				85.12
2. PH	744	696	743	720	744	720	744	744	720				6,575
3. SH	649.8	316.3	191.6	719.0	735.3	720.0	744.0	605.5	667.5				5,349.0
4. RSH	91.4	138.6	0.9	0.0	0.0	0.0	0.0	0.0	18.0				248.9
5. UH	2.9	241.1	550.4	1.0	8.8	0.0	0.0	138.5	34.5				977.1
6. POH	0.0	240.0	527.0	0.0	0.0	0.0	0.0	0.0	0.0				767.0
7. FOH	2.9	1.1	23.5	1.0	3.1	0.0	0.0	18.5	8.0				58.0
8. MOH	0.0	0.0	0.0	0.0	5.6	0.0	0.0	120.0	26.6				152.2
9. PPOH	0.0	1.7	0.0	1.0	3.4	12.6	3.2	4.5	0.0				26.3
10. LR PP (MW)	0.0	68.6	0.0	70.2	71.2	70.9	72.0	65.4	0.0				70.0
11. PFOH	0.0	0.0	0.0	0.0	0.0	14.5	0.0	2.1	0.0				16.6
12. LR PF (MW)	0.0	0.0	0.0	0.0	0.0	39.8	0.0	120.6	0.0				50.2
13. PMOH	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
15. NSC (MW)	546	546	546	546	546	546	546	546	546				546
16. OPER MBTU	2,135,651	1,041,398	611,137	2,475,832	2,463,484	2,433,998	2,496,763	2,132,267	2,385,170				18,175,698
17. NET GEN (MWH)	288,534	138,689	84,068	341,940	342,463	342,291	346,849	289,973	307,757				2,482,564
18. ANOHR (BTU/KWH)	7,401.7	7,508.9	7,269.6	7,240.5	7,193.4	7,110.9	7,198.4	7,353.3	7,750.2				7,321.3
19. NOF (%)	81.33	80.30	80.35	87.10	85.31	87.07	85.38	87.71	84.44				85.00
20. NPC (MW)	546	546	546	546	546	546	546	546	546				546

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2016

HINES Power Block 3	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan - Sep Period
1. EAF	100.00	100.00	100.00	83.79	0.00	52.05	100.00	98.72	100.00				81.51
2. PH	744	696	743	720	744	720	744	744	720				6,575
3. SH	699.6	647.3	700.1	601.0	0.0	373.9	744.0	734.5	720.0				5,220.3
4. RSH	44.4	48.7	43.0	2.3	0.0	0.9	0.0	0.0	0.0				139.2
5. UH	0.0	0.0	0.0	116.7	744.0	345.2	0.0	9.5	0.0				1,215.5
6. POH	0.0	0.0	0.0	95.6	744.0	266.0	0.0	0.0	0.0				1,105.6
7. FOH	0.0	0.0	0.0	5.5	0.0	79.2	0.0	9.5	0.0				94.2
8. MOH	0.0	0.0	0.0	15.6	0.0	0.0	0.0	0.0	0.0				15.6
9. PPOH	0.0	2.3	7.7	8.3	0.0	6.1	0.6	1.5	0.0				26.5
10. LR PP (MW)	0.0	52.4	59.5	57.4	0.0	60.9	22.6	62.1	0.0				57.8
11. PFOH	0.0	0.0	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	0.0				0.0
13. PMOH	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
15. NSC (MW)	544	544	544	544	544	544	544	544	544				544
16. OPER MBTU	2,363,034	2,105,001	2,263,623	1,970,384	0	1,216,110	2,451,575	2,420,249	2,186,895				16,976,871
17. NET GEN (MWH)	327,590	288,963	313,593	273,740	0	165,343	342,907	347,446	323,791				2,383,373
18. ANOHR (BTU/KWH)	7,213.4	7,284.7	7,218.3	7,198.0	0.0	7,355.1	7,149.4	6,965.8	6,754.0				7,123.0
19. NOF (%)	86.08	82.06	82.35	83.73	0.00	81.30	84.72	86.95	82.67				83.93
20. NPC (MW)	544	544	544	544	544	544	544	544	544				544



Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2016

HINES Power Block 4	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan - Sep Period
1. EAF	99.12	100.00	100.00	100.00	73.46	0.85	0.00	22.48	100.00				65.95
2. PH	744	696	743	720	744	720	744	744	720				6,575
3. SH	713.5	696.0	743.0	720.0	569.4	6.1	0.0	167.3	720.0				4,335.2
4. RSH	24.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				24.0
5. UH	6.6	0.0	0.0	0.0	174.6	713.9	744.0	576.7	0.0				2,215.8
6. POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				0.0
7. FOH	6.6	0.0	0.0	0.0	157.2	713.9	744.0	576.7	0.0				2,198.4
8. MOH	0.0	0.0	0.0	0.0	17.4	0.0	0.0	0.0	0.0				17.4
9. PPOH	1.5	8.0	1.2	1.0	1.0	0.0	0.0	0.0	0.0				12.7
10. LR PP (MW)	59.2	59.3	55.4	63.6	58.8	0.0	0.0	0.0	0.0				59.2
11. PFOH	0.0	0.0	0.0	0.0	203.8	0.0	0.0	0.0	0.0				203.8
12. LR PF (MW)	0.0	0.0	0.0	0.0	59.1	0.0	0.0	0.0	0.0				59.1
13. PMOH	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
15. NSC (MW)	528	528	528	528	528	528	528	528	528				528
16. OPER MBTU	2,418,323	2,361,296	2,500,840	2,413,309	1,603,043	12,003	0	526,791	2,231,123				14,066,728
17. NET GEN (MWH)	348,625	337,289	358,855	342,436	223,149	1,026	0	73,966	327,247				2,012,593
18. ANOHR (BTU/KWH)	6,936.7	7,000.8	6,968.9	7,047.5	7,183.7	11,699.1	0.0	7,122.1	6,817.9				6,989.4
19. NOF (%)	92.54	91.78	91.47	90.08	74.23	31.96	0.00	83.74	86.08				87.92
20. NPC (MW)	528	528	528	528	528	528	528	528	528				528

**Duke Energy Florida**

**ACTUAL UNIT EVENT DATA -- January - September 2016**

**Bartow CC**

Unit	Date	Outage Type	Hours	MW Affected	Description
BCC 4A	1/24/2016	FFO	18.00	176.7	LOW PRESSURE COMPRESSURE BLEED VALVES
BCC 4A	1/27/2016	FFO	22.08	176.7	GAS TURBINE - COOLING WATER SYSTEM
BCC 4A	4/12/2016	FFO	17.03	176.7	MAINTENANCE ERROR
BCC 4A	8/1/2016	PFO	11.00	18.7	OPEN COOLING WATER HEAT EXCHANGERS
BCC 4A	8/6/2016	FFO	8.93	176.7	CONTRACTOR ERROR
BCC 4A	9/2/2016	FFO	7.00	176.7	GAS TURBINE - COOLING AND SEAL AIR SYSTEM
BCC 4A	9/7/2016	FFO	4.00	176.7	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
BCC 4A	9/14/2016	PFO	35.38	28.7	GAS TURBINE - DIVERTER DAMPERS
BCC 4B	1/17/2016	FFO	9.00	177.7	GAS TURBINE - LOAD SHAFT AND BEARINGS
BCC 4B	1/27/2016	FFO	31.58	177.7	GAS TURBINE - COOLING WATER SYSTEM
BCC 4B	2/26/2016	FFO	21.23	177.7	GENERATOR METERING DEVICES
BCC 4B	3/5/2016	PO	1205.77	177.7	GAS TURBINE - EXHAUST SYSTEM VANES/NOZZLES
BCC 4B	4/28/2016	FFO	6.02	177.7	BLADE PATH TEMPERATURE SPREAD
BCC 4B	5/7/2016	FMO	24.00	177.7	GAS TURBINE - HIGH ENGINE EXHAUST TEMPERATURE
BCC 4B	5/8/2016	PFO	280.98	14.4	GAS TURBINE - HIGH ENGINE EXHAUST TEMPERATURE
BCC 4B	5/19/2016	FMO	7.00	177.7	GAS TURBINE - IGNITION SYSTEM
BCC 4B	8/1/2016	PFO	11.00	19.7	OPEN COOLING WATER HEAT EXCHANGERS
BCC 4B	8/7/2016	FMO	1.37	177.7	COMBINED CYCLE INSTRUMENTS AND CONTROLS
BCC 4B	9/2/2016	FFO	11.00	177.7	GAS TURBINE - COOLING AND SEAL AIR SYSTEM
BCC 4B	9/14/2016	PFO	35.38	29.7	GAS TURBINE - DIVERTER DAMPERS
BCC 4B	9/30/2016	FFO	6.00	177.7	GAS TURBINE - COOLING AND SEAL AIR SYSTEM
BCC 4C	1/3/2016	FFO	2.00	180.9	OTHER GAS TURBINE PROBLEMS
BCC 4C	1/27/2016	FFO	86.70	180.9	CIRCULATING WATER PUMPS
BCC 4C	1/30/2016	FFO	19.80	180.9	NOX STACK EMISSIONS - GAS TURBINE UNITS
BCC 4C	2/19/2016	FFO	63.98	180.9	HP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
BCC 4C	5/9/2016	FFO	10.00	180.9	GAS TURBINE - FUEL PIPING AND VALVES
BCC 4C	7/13/2016	FFO	0.35	180.9	OPERATOR ERROR

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - September 2016

Bartow CC

Unit	Date	Outage Type	Hours	MW Affected	Description
BCC 4C	7/13/2016	FFO	3.78	180.9	GAS TURBINE - LUBE OIL SYSTEM - GENERAL
BCC 4C	7/14/2016	FFO	58.67	180.9	OTHER GAS TURBINE FUEL SYSTEM PROBLEMS
BCC 4C	7/16/2016	PFO	8.00	70.9	GAS TURBINE PERFORMANCE TESTING - INDIVID. ENGINES
BCC 4C	8/1/2016	PFO	11.00	22.9	OPEN COOLING WATER HEAT EXCHANGERS
BCC 4C	8/8/2016	FMO	1.25	180.9	COMBINED CYCLE INSTRUMENTS AND CONTROLS
BCC 4C	9/14/2016	PFO	398.38	32.4	GAS TURBINE - DIVERTER DAMPERS
BCC 4D	1/26/2016	FFO	1.98	175.6	GAS TURBINE COMPRESSOR - BLEED VALVES
BCC 4D	3/12/2016	PO	1189.40	175.6	GAS TURBINE - EXHAUST SYSTEM VANES/NOZZLES
BCC 4D	5/11/2016	FFO	25.00	175.6	GAS TURBINE - FUEL PIPING AND VALVES
BCC 4D	7/1/2016	FFO	12.10	175.6	GAS TURBINE CONTROL SYSTEM - DATA HIGHWAY
BCC 4D	7/2/2016	FFO	4.85	175.6	BLADE PATH TEMPERATURE SPREAD
BCC 4D	7/25/2016	FFO	5.63	175.6	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
BCC 4D	8/9/2016	FMO	1.00	175.6	COMBINED CYCLE INSTRUMENTS AND CONTROLS
BCC 4D	8/9/2016	FFO	37.85	175.6	OTHER GENERATOR CONTROLS AND METERING PROBLEMS
BCC 4D	9/14/2016	PFO	35.38	27.1	GAS TURBINE - DIVERTER DAMPERS
BCC 4D	9/29/2016	FFO	11.00	175.6	BLADE PATH TEMPERATURE SPREAD
BCC 4S	1/27/2016	FFO	96.70	451.1	CIRCULATING WATER SYSTEM INSTRUMENTS AND CONTROLS
BCC 4S	3/5/2016	PPO	986.63	129.3	MAJOR GAS TURBINE OVERHAUL
BCC 4S	3/12/2016	PPO	817.47	107.1	MAJOR GAS TURBINE OVERHAUL
BCC 4S	4/12/2016	PFO	17.03	0.0	MAINTENANCE ERROR
BCC 4S	4/15/2016	PO	428.50	451.1	LP TURBINE BUCKET OR BLADE FOULING
BCC 4S	5/3/2016	PO	973.73	451.1	LP TURBINE BUCKETS OR BLADES
BCC 4S	7/1/2016	PFO	12.10	175.1	GAS TURBINE CONTROL SYSTEM - DATA HIGHWAY
BCC 4S	7/2/2016	PFO	4.85	175.2	BLADE PATH TEMPERATURE SPREAD
BCC 4S	7/13/2016	PFO	0.35	175.3	OPERATOR ERROR
BCC 4S	7/13/2016	PFO	3.78	175.2	GAS TURBINE - LUBE OIL SYSTEM - GENERAL
BCC 4S	7/14/2016	PFO	58.67	366.1	OTHER GAS TURBINE FUEL SYSTEM PROBLEMS

**Duke Energy Florida**

**ACTUAL UNIT EVENT DATA -- January - September 2016**

**Bartow CC**

Unit	Date	Outage Type	Hours	MW Affected	Description
BCC 4S	7/25/2016	PFO	5.63	175.2	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
BCC 4S	8/1/2016	PFO	11.00	293.1	OPEN COOLING WATER HEAT EXCHANGERS
BCC 4S	8/4/2016	PFO	4.98	293.1	CIRCULATING WATER PUMPS
BCC 4S	8/5/2016	PFO	3.00	291.1	CIRCULATING WATER PUMPS
BCC 4S	8/6/2016	PFO	8.93	185.1	CONTRACTOR ERROR
BCC 4S	8/7/2016	PFO	1.37	185.1	COMBINED CYCLE INSTRUMENTS AND CONTROLS
BCC 4S	8/8/2016	PFO	1.25	185.1	COMBINED CYCLE INSTRUMENTS AND CONTROLS
BCC 4S	8/9/2016	PFO	0.80	185.0	COMBINED CYCLE INSTRUMENTS AND CONTROLS
BCC 4S	8/9/2016	PFO	37.85	185.1	OTHER GENERATOR CONTROLS AND METERING PROBLEMS
BCC 4S	8/18/2016	PFO	51.67	131.1	CIRCULATING WATER SYSTEM INSTRUMENTS AND CONTROLS
BCC 4S	9/2/2016	PFO	7.00	181.6	GAS TURBINE - COOLING AND SEAL AIR SYSTEM
BCC 4S	9/2/2016	PFO	10.98	66.1	GAS TURBINE - COOLING AND SEAL AIR SYSTEM
BCC 4S	9/7/2016	PFO	4.00	181.6	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
BCC 4S	9/14/2016	FFO	35.38	451.1	COMBINED CYCLE INSTRUMENTS AND CONTROLS

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - September 2016

Crystal River 4

Date	Outage Type	Hours	MW Affected	Description
1/2/2016	FFO	20.93	712.0	PRIMARY AIR HEATER
1/5/2016	PMO	2.00	92.9	PRIMARY AIR DUCTS AND DAMPERS
2/4/2016	PMO	4.28	69.0	INDUCED DRAFT FANS
2/15/2016	PMO	5.50	236.0	4000-7000-VOLT CIRCUIT BREAKERS
2/17/2016	PMO	2.50	93.1	4000-7000-VOLT CIRCUIT BREAKERS
2/17/2016	PMO	5.00	236.0	4000-7000-VOLT CIRCUIT BREAKERS
2/26/2016	PO	741.58	712.0	MINOR BOILER OVERHAUL (LESS THAN 720 HOURS)
3/28/2016	PMO	54.67	93.0	PULVERIZER MILLS
4/2/2016	PFO	1.17	92.7	HEATER DRAIN PUMPS
4/4/2016	PMO	7.00	93.0	PULVERIZER MILLS
4/13/2016	PMO	5.75	236.0	CONDENSATE/HOTWELL PUMPS
4/14/2016	PMO	5.50	65.0	PULVERIZED FUEL AND AIR PIPING (PULVERIZER TO WIND BOX)
4/21/2016	PMO	5.50	65.0	BURNERS
4/26/2016	PMO	11.00	65.0	PULVERIZER MILLS
4/27/2016	PMO	2.73	93.0	PULVERIZER FEEDERS
4/27/2016	PMO	1.00	188.0	PULVERIZER FEEDERS
4/27/2016	PMO	2.48	92.9	PULVERIZER FEEDERS
4/28/2016	PMO	5.00	64.9	PULVERIZED FUEL AND AIR PIPING (PULVERIZER TO WIND BOX)
5/2/2016	PMO	3.00	65.0	OTHER PULVERIZER PROBLEMS
5/5/2016	FMO	245.13	712.0	WET SCRUBBER/ABSORBER TOWER OR MODULE
5/31/2016	PFO	10.10	284.0	TRAVELING SCREENS
6/2/2016	PMO	6.00	65.0	BURNERS
6/7/2016	PFO	0.25	65.5	UNIT AUXILIARIES TRANSFORMER
6/23/2016	PMO	5.50	65.0	BURNERS
6/27/2016	PMO	2.17	69.0	HEATER DRAIN VALVES
7/2/2016	PFO	22.00	207.0	BURNERS
7/3/2016	PMO	2.00	473.8	BURNERS

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ACTUAL UNIT EVENT DATA -- January - September 2016

Crystal River 4

Date	Outage Type	Hours	MW Affected	Description
7/4/2016	PMO	5.98	207.1	TURBINE MAIN STOP VALVES
7/4/2016	PMO	1.82	473.8	TURBINE MAIN STOP VALVES
7/19/2016	PMO	5.25	93.0	BURNERS
7/21/2016	PMO	8.50	474.0	OTHER SLAG AND ASH REMOVAL PROBLEMS
7/22/2016	FFO	29.50	712.0	TURBINE CONTROL VALVES
7/26/2016	PFO	8.58	93.0	PULVERIZER FEEDERS
7/26/2016	PMO	9.25	93.0	PULVERIZER FEEDER MOTOR
8/4/2016	PMO	5.00	93.0	BURNERS
8/7/2016	PFO	1.50	141.0	WET COAL (OMC)
8/7/2016	PFO	1.00	141.0	WET COAL (OMC)
8/7/2016	PFO	11.00	150.0	WET COAL (OMC)
8/8/2016	PMO	13.23	150.0	WET COAL (OMC)
8/9/2016	PFO	7.00	426.0	WET COAL (OMC)
8/10/2016	PFO	17.95	150.0	WET COAL (OMC)
8/15/2016	PFO	1.72	112.0	WET COAL (OMC)
8/17/2016	PFO	11.88	93.0	WET COAL (OMC)
8/18/2016	PMO	3.35	93.1	BURNERS
8/20/2016	PFO	2.17	93.0	WET COAL (OMC)
8/20/2016	PFO	3.82	283.9	WET COAL (OMC)
8/20/2016	PFO	1.48	150.3	WET COAL (OMC)
8/20/2016	PFO	14.08	93.0	WET COAL (OMC)
8/22/2016	PFO	7.68	207.0	BURNERS
9/7/2016	PMO	5.00	93.0	BURNERS
9/15/2016	PMO	4.18	92.9	PULVERIZED FUEL AND AIR PIPING (PULVERIZER TO WIND BOX)
9/18/2016	PFO	11.33	284.0	CONDENSER TUBE LEAKS
9/18/2016	PFO	16.50	498.0	CONDENSER TUBE LEAKS
9/19/2016	PFO	2.15	284.1	CONDENSER TUBE LEAKS

**Duke Energy Florida**

**ACTUAL UNIT EVENT DATA -- January - September 2016**

**Crystal River 4**

<b>Date</b>	<b>Outage Type</b>	<b>Hours</b>	<b>MW Affected</b>	<b>Description</b>
9/21/2016	PMO	19.00	93.0	PULVERIZER MILLS
9/26/2016	PMO	2.98	93.1	PULVERIZER MILLS
9/27/2016	PMO	5.00	330.9	FORCED DRAFT FANS
9/27/2016	PMO	20.98	93.0	PULVERIZER MILLS
9/28/2016	PMO	5.00	93.0	PULVERIZER MILLS
9/29/2016	PMO	4.98	284.1	PULVERIZED FUEL AND AIR PIPING (PULVERIZER TO WIND BOX)
9/29/2016	PMO	8.48	93.0	PULVERIZED FUEL AND AIR PIPING (PULVERIZER TO WIND BOX)

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - September 2016

Crystal River 5

Date	Outage Type	Hours	MW Affected	Description
1/7/2016	FFO	1.15	710.0	FEEDWATER PUMP DRIVE - STEAM TURBINE
1/7/2016	PFO	12.35	424.0	FEEDWATER PUMP/DRIVE LUBE OIL SYSTEM
1/15/2016	PMO	3.63	62.9	PULVERIZER MOTORS AND DRIVES
1/29/2016	PFO	7.67	110.0	SOOT BLOWERS - STEAM
2/5/2016	PFO	2.43	91.0	WET COAL (OMC)
2/6/2016	PFO	5.83	91.0	PULVERIZER FEEDERS
2/15/2016	PMO	6.25	234.0	CONDENSATE/HOTWELL PUMPS
2/15/2016	PMO	6.50	472.0	OTHER FEEDWATER VALVES
2/16/2016	PMO	7.98	234.0	CONDENSATE/HOTWELL PUMPS
2/17/2016	PMO	3.33	91.0	HEATER LEVEL CONTROL
2/22/2016	PMO	33.08	63.0	PULVERIZER MILLS
2/27/2016	PMO	1.00	90.9	PULVERIZER FEEDERS
3/1/2016	PMO	5.00	472.0	OTHER FEEDWATER VALVES
3/18/2016	PMO	3.50	91.1	PRIMARY AIR DUCTS AND DAMPERS
3/24/2016	PMO	2.00	472.2	START-UP FEEDWATER PUMP
3/30/2016	PFO	5.45	91.1	HEATER DRAIN PUMPS
4/5/2016	PMO	0.45	148.3	FORCED DRAFT FANS
4/5/2016	PMO	2.63	234.1	CONDENSATE/HOTWELL PUMPS
4/6/2016	PMO	6.83	148.0	FORCED DRAFT FANS
4/18/2016	PFO	1.00	63.2	PULVERIZER FEEDERS
4/18/2016	PMO	7.00	63.0	PULVERIZER FEEDERS
4/19/2016	PFO	2.00	62.8	PULVERIZER FEEDERS
5/21/2016	PMO	2.75	567.0	GENERATOR LIQUID COOLING SYSTEM
6/7/2016	PMO	7.00	63.0	PULVERIZED FUEL AND AIR PIPING (PULVERIZER TO WIND BOX)
6/21/2016	PMO	26.50	186.0	PULVERIZED FUEL AND AIR PIPING (PULVERIZER TO WIND BOX)
6/22/2016	PMO	6.67	90.9	PULVERIZER MOTORS AND DRIVES
7/2/2016	PMO	1.17	571.9	GENERATOR LIQUID COOLING SYSTEM



**Duke Energy Florida**

**ACTUAL UNIT EVENT DATA -- January - September 2016**

**Crystal River 5**

<b>Date</b>	<b>Outage Type</b>	<b>Hours</b>	<b>MW Affected</b>	<b>Description</b>
7/16/2016	PMO	4.00	472.0	OTHER SLAG AND ASH REMOVAL PROBLEMS
7/16/2016	PMO	6.62	472.0	OTHER SLAG AND ASH REMOVAL PROBLEMS
7/18/2016	PMO	4.00	91.1	OTHER SLAG AND ASH REMOVAL PROBLEMS
7/19/2016	PMO	6.40	472.0	OTHER SLAG AND ASH REMOVAL PROBLEMS
7/19/2016	PMO	3.45	91.0	OTHER SLAG AND ASH REMOVAL PROBLEMS
7/20/2016	PMO	6.98	472.0	OTHER SLAG AND ASH REMOVAL PROBLEMS
7/27/2016	PMO	6.50	139.1	HEATER DRAIN PUMPS
8/4/2016	PMO	9.88	472.0	OTHER SLAG AND ASH REMOVAL PROBLEMS
8/5/2016	PMO	10.00	472.0	OTHER SLAG AND ASH REMOVAL PROBLEMS
8/6/2016	PMO	9.63	472.0	OTHER SLAG AND ASH REMOVAL PROBLEMS
8/7/2016	PFO	11.00	110.0	WET COAL (OMC)
8/8/2016	PFO	22.17	148.0	WET COAL (OMC)
8/9/2016	PFO	6.00	282.0	WET COAL (OMC)
8/10/2016	PFO	17.65	148.0	WET COAL (OMC)
8/15/2016	PFO	2.17	110.1	WET COAL (OMC)
8/17/2016	PMO	5.25	282.0	OTHER SLAG AND ASH REMOVAL PROBLEMS
8/18/2016	PMO	6.45	329.0	OTHER SLAG AND ASH REMOVAL PROBLEMS
8/20/2016	PFO	5.70	148.0	WET COAL (OMC)
8/26/2016	PMO	2.25	90.9	PULVERIZER FEEDERS
8/30/2016	PFO	3.00	91.1	PULVERIZER MILLS
8/30/2016	PMO	9.98	91.0	CEMS - CERTIFICATION AND RECERTIFICATION
8/30/2016	PMO	29.97	91.0	PULVERIZER MILLS
9/1/2016	PMO	9.30	377.0	CEMS - CERTIFICATION AND RECERTIFICATION
9/1/2016	PMO	17.90	91.0	PULVERIZER MILLS
9/2/2016	FFO	316.98	710.0	HURRICANE
9/16/2016	PMO	6.50	91.0	PULVERIZER CONTROL SYSTEMS (TEMP AND PRESSURE)
9/17/2016	PFO	18.10	91.0	PULVERIZER MILLS

**Duke Energy Florida**

**ACTUAL UNIT EVENT DATA -- January - September 2016**

**Crystal River 5**

<b>Date</b>	<b>Outage Type</b>	<b>Hours</b>	<b>MW Affected</b>	<b>Description</b>
9/19/2016	PMO	17.50	91.0	PULVERIZER MILLS
9/29/2016	PFO	8.25	91.0	PULVERIZER FEEDER MOTOR
9/29/2016	PFO	5.00	186.0	PULVERIZER FEEDER MOTOR

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - September 2016

Hines Power Block 1

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 1A	3/19/2016	FFO	30.00	169.3	GENERATOR SEAL OIL SYSTEM AND SEALS
HEP 1A	3/21/2016	FFO	6.02	169.3	GAS TURBINE - FUEL PIPING AND VALVES
HEP 1A	3/23/2016	PO	788.12	169.3	GENERAL GAS TURBINE UNIT INSPECTION
HEP 1A	4/29/2016	FFO	5.15	169.3	SWITCHYARD SYSTEM PROTECTION DEVICES - EXTERNAL (NOT OMC)
HEP 1A	5/1/2016	FFO	43.33	169.3	GENERATOR SEAL OIL SYSTEM AND SEALS
HEP 1A	5/14/2016	PPO	3.00	81.3	CONDENSER TUBE AND WATER BOX CLEANING
HEP 1A	5/14/2016	PPO	4.38	81.3	CONDENSER TUBE AND WATER BOX CLEANING
HEP 1A	5/15/2016	PPO	4.65	81.3	CONDENSER TUBE AND WATER BOX CLEANING
HEP 1A	5/17/2016	FFO	15.58	169.3	EMERGENCY GENERATOR TRIP DEVICES
HEP 1A	6/3/2016	PPO	1.25	86.3	INTAKE GRATING FOULING
HEP 1A	6/9/2016	FFO	24.92	169.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 1A	6/23/2016	PPO	4.00	86.3	GENERATOR VOLTAGE CONTROL
HEP 1A	6/28/2016	PPO	1.78	86.3	INTAKE GRATING FOULING
HEP 1A	7/4/2016	PPO	0.93	86.4	INTAKE GRATING FOULING
HEP 1A	7/6/2016	FFO	65.65	169.3	GAS TURBINE - FIRE DETECTION AND EXTINGUISHING SYS
HEP 1A	7/14/2016	PPO	10.00	26.3	OPEN COOLING WATER HEAT EXCHANGERS
HEP 1A	8/13/2016	PPO	2.00	82.3	INTAKE GRATING FOULING
HEP 1B	3/19/2016	FFO	60.17	169.3	GENERATOR SEAL OIL SYSTEM AND SEALS
HEP 1B	3/23/2016	PO	788.12	169.3	GENERAL GAS TURBINE UNIT INSPECTION
HEP 1B	4/24/2016	PO	298.72	169.3	GENERAL GAS TURBINE UNIT INSPECTION
HEP 1B	5/11/2016	FFO	26.48	169.3	GAS TURBINE - COOLING AND SEAL AIR SYSTEM
HEP 1B	5/14/2016	PPO	3.00	81.3	CONDENSER TUBE AND WATER BOX CLEANING
HEP 1B	5/14/2016	PPO	4.38	81.3	CONDENSER TUBE AND WATER BOX CLEANING
HEP 1B	5/15/2016	PPO	25.77	81.3	CONDENSER TUBE AND WATER BOX CLEANING
HEP 1B	6/3/2016	PPO	1.25	86.3	INTAKE GRATING FOULING
HEP 1B	6/23/2016	PPO	4.00	86.3	GENERATOR VOLTAGE CONTROL
HEP 1B	6/28/2016	PPO	1.78	86.3	INTAKE GRATING FOULING

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ACTUAL UNIT EVENT DATA -- January - September 2016

Hines Power Block 1

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 1B	7/4/2016	PPO	0.93	86.4	INTAKE GRATING FOULING
HEP 1B	7/14/2016	PPO	10.00	36.3	OPEN COOLING WATER SYSTEM FOULING
HEP 1B	8/13/2016	PPO	2.00	82.3	INTAKE GRATING FOULING
HEP ST1	3/19/2016	FFO	40.20	179.4	GENERATOR SEAL OIL SYSTEM AND SEALS
HEP ST1	3/23/2016	PO	794.63	179.4	GENERAL GAS TURBINE UNIT INSPECTION
HEP ST1	4/29/2016	FFO	6.80	179.4	SWITCHYARD SYSTEM PROTECTION DEVICES - EXTERNAL (NOT OMC)
HEP ST1	5/1/2016	FFO	47.33	179.4	OTHER GENERATOR CONTROLS AND METERING PROBLEMS
HEP ST1	5/14/2016	PPO	3.00	67.4	CONDENSER TUBE AND WATER BOX CLEANING
HEP ST1	5/14/2016	PPO	4.38	67.4	CONDENSER TUBE AND WATER BOX CLEANING
HEP ST1	5/15/2016	PPO	4.65	67.4	CONDENSER TUBE AND WATER BOX CLEANING
HEP ST1	6/3/2016	PPO	1.25	57.4	INTAKE GRATING FOULING
HEP ST1	6/9/2016	PFO	24.92	106.4	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST1	6/23/2016	PPO	4.00	106.4	GENERATOR VOLTAGE CONTROL
HEP ST1	6/28/2016	PPO	1.78	56.4	INTAKE GRATING FOULING
HEP ST1	7/4/2016	PPO	24.38	56.4	INTAKE GRATING FOULING
HEP ST1	7/6/2016	PFO	65.65	105.4	GAS TURBINE - FIRE DETECTION AND EXTINGUISHING SYS
HEP ST1	8/13/2016	PPO	2.00	73.4	INTAKE GRATING FOULING

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ACTUAL UNIT EVENT DATA -- January - September 2016

Hines Power Block 2

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 2A	1/27/2016	FFO	0.20	171.6	GAS TURBINE - FUEL PIPING AND VALVES
HEP 2A	1/27/2016	FFO	0.58	171.6	GAS TURBINE - FUEL PIPING AND VALVES
HEP 2A	1/29/2016	FFO	1.90	171.6	GAS TURBINE CONTROL SYSTEM - HARDWARE PROBLEM
HEP 2A	1/29/2016	FFO	0.13	171.6	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
HEP 2A	1/29/2016	FFO	6.30	171.6	GAS TURBINE - FUEL PIPING AND VALVES
HEP 2A	2/9/2016	PPO	1.00	58.5	INTAKE GRATING FOULING
HEP 2A	2/13/2016	PPO	0.70	72.6	INTAKE GRATING FOULING
HEP 2A	2/20/2016	PO	767.45	171.6	GENERAL GAS TURBINE UNIT INSPECTION
HEP 2A	3/24/2016	FFO	30.03	171.6	FEEDWATER PUMP
HEP 2A	3/25/2016	FFO	35.47	171.6	FEEDWATER PUMP
HEP 2A	4/14/2016	PPO	1.00	58.5	INTAKE GRATING FOULING
HEP 2A	5/3/2016	PPO	1.25	72.6	INTAKE GRATING FOULING
HEP 2A	5/7/2016	PPO	1.23	72.6	INTAKE GRATING FOULING
HEP 2A	5/18/2016	PPO	0.87	68.5	TRAVELING SCREEN FOULING
HEP 2A	6/3/2016	PPO	1.10	72.5	INTAKE GRATING FOULING
HEP 2A	6/19/2016	PPO	2.00	70.6	INTAKE GRATING FOULING
HEP 2A	6/21/2016	PPO	5.00	70.6	INTAKE GRATING FOULING
HEP 2A	6/27/2016	PPO	1.45	72.5	INTAKE GRATING FOULING
HEP 2A	6/29/2016	PPO	1.00	70.5	INTAKE GRATING FOULING
HEP 2A	6/30/2016	PPO	2.00	70.6	INTAKE GRATING FOULING
HEP 2A	7/4/2016	PPO	0.73	72.6	INTAKE GRATING FOULING
HEP 2A	7/15/2016	PPO	1.00	71.6	INTAKE GRATING FOULING
HEP 2A	7/29/2016	PPO	1.83	72.6	INTAKE GRATING FOULING
HEP 2A	8/1/2016	PPO	2.53	72.6	INTAKE GRATING FOULING
HEP 2A	8/13/2016	PPO	2.00	56.6	INTAKE GRATING FOULING
HEP 2A	8/26/2016	FFO	16.68	171.6	CIRCULATING WATER PUMP MOTORS
HEP 2A	8/27/2016	FMO	120.00	171.6	OTHER FEEDWATER SYSTEM PROBLEMS

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**ACTUAL UNIT EVENT DATA -- January - September 2016**

**Hines Power Block 2**

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 2A	9/1/2016	FMO	20.50	171.6	OTHER FEEDWATER SYSTEM PROBLEMS
HEP 2A	9/29/2016	FMO	19.25	171.6	OTHER IP STEAM SYSTEM PROBLEMS
HEP 2B	2/8/2016	FFO	3.43	171.6	GAS TURBINE CONTROL SYSTEM - HARDWARE PROBLEM
HEP 2B	2/9/2016	PPO	1.00	58.5	INTAKE GRATING FOULING
HEP 2B	2/13/2016	PPO	0.70	72.6	INTAKE GRATING FOULING
HEP 2B	2/20/2016	PO	754.50	171.6	GENERAL GAS TURBINE UNIT INSPECTION
HEP 2B	3/22/2016	PO	9.88	171.6	OTHER FEEDWATER VALVES
HEP 2B	3/24/2016	FFO	1.93	171.6	FEEDWATER PUMP
HEP 2B	3/28/2016	FFO	3.17	171.6	OTHER INSTRUMENT AIR PROBLEMS
HEP 2B	4/2/2016	FFO	3.12	171.6	GAS TURBINE CONTROL SYSTEM - HARDWARE PROBLEM
HEP 2B	4/14/2016	PPO	1.00	58.5	INTAKE GRATING FOULING
HEP 2B	5/3/2016	PPO	1.25	72.6	INTAKE GRATING FOULING
HEP 2B	5/7/2016	PPO	1.23	72.6	INTAKE GRATING FOULING
HEP 2B	5/9/2016	FMO	17.88	171.6	ECONOMIZER PIPING
HEP 2B	5/18/2016	PPO	0.87	68.5	TRAVELING SCREEN FOULING
HEP 2B	5/22/2016	FFO	9.97	171.6	FEEDWATER REGULATING (BOILER LEVEL CONTROL) VALVE
HEP 2B	6/3/2016	PPO	1.10	71.6	INTAKE GRATING FOULING
HEP 2B	6/19/2016	PPO	2.00	70.6	INTAKE GRATING FOULING
HEP 2B	6/21/2016	PPO	5.00	70.6	INTAKE GRATING FOULING
HEP 2B	6/27/2016	PPO	1.45	72.5	INTAKE GRATING FOULING
HEP 2B	6/29/2016	PPO	1.00	70.5	INTAKE GRATING FOULING
HEP 2B	6/30/2016	PPO	2.00	70.6	INTAKE GRATING FOULING
HEP 2B	7/4/2016	PPO	0.73	72.6	INTAKE GRATING FOULING
HEP 2B	7/15/2016	PPO	1.00	71.6	INTAKE GRATING FOULING
HEP 2B	7/29/2016	PPO	1.83	72.6	INTAKE GRATING FOULING
HEP 2B	8/1/2016	PPO	2.53	72.6	INTAKE GRATING FOULING
HEP 2B	8/5/2016	FFO	5.75	171.6	DISTRIBUTIVE CONTROL SYSTEM HARDWARE PROBLEM

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Hines Power Block 2

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 2B	8/13/2016	PPO	2.00	56.6	INTAKE GRATING FOULING
HEP 2B	8/26/2016	FFO	16.68	171.6	CIRCULATING WATER PUMP MOTORS
HEP 2B	8/27/2016	FMO	120.00	171.6	OTHER FEEDWATER SYSTEM PROBLEMS
HEP 2B	9/1/2016	FMO	20.50	171.6	OTHER FEEDWATER SYSTEM PROBLEMS
HEP 2B	9/3/2016	FFO	25.33	171.6	HEAT RECOVERY STEAM GENERATOR TO GAS TURBINE CON..
HEP ST2	2/9/2016	PPO	1.00	75.8	INTAKE GRATING FOULING
HEP ST2	2/13/2016	PPO	0.70	75.9	INTAKE GRATING FOULING
HEP ST2	2/20/2016	PO	768.75	202.8	INSPECTION
HEP ST2	3/24/2016	FFO	3.43	202.8	FEEDWATER PUMP
HEP ST2	4/14/2016	PPO	1.00	89.8	INTAKE GRATING FOULING
HEP ST2	5/3/2016	PPO	1.25	68.8	INTAKE GRATING FOULING
HEP ST2	5/7/2016	PPO	1.23	68.8	INTAKE GRATING FOULING
HEP ST2	5/18/2016	PPO	0.87	75.8	TRAVELING SCREEN FOULING
HEP ST2	6/3/2016	PPO	1.10	70.8	INTAKE GRATING FOULING
HEP ST2	6/5/2016	PFO	39.00	39.8	TURBINE CONTROL VALVES
HEP ST2	6/19/2016	PPO	2.00	70.8	INTAKE GRATING FOULING
HEP ST2	6/21/2016	PPO	5.00	70.8	INTAKE GRATING FOULING
HEP ST2	6/27/2016	PPO	1.45	70.8	INTAKE GRATING FOULING
HEP ST2	6/29/2016	PPO	1.00	70.8	INTAKE GRATING FOULING
HEP ST2	6/30/2016	PPO	2.00	70.8	INTAKE GRATING FOULING
HEP ST2	7/4/2016	PPO	0.73	70.8	INTAKE GRATING FOULING
HEP ST2	7/29/2016	PPO	1.83	70.8	INTAKE GRATING FOULING
HEP ST2	8/1/2016	PPO	2.53	70.8	INTAKE GRATING FOULING
HEP ST2	8/5/2016	PFO	5.75	120.8	DISTRIBUTIVE CONTROL SYSTEM HARDWARE PROBLEM
HEP ST2	8/13/2016	PPO	2.00	57.8	INTAKE GRATING FOULING
HEP ST2	8/26/2016	FFO	16.68	202.8	CIRCULATING WATER PUMP MOTORS
HEP ST2	8/27/2016	FMO	120.00	202.8	OTHER FEEDWATER SYSTEM PROBLEMS

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**ACTUAL UNIT EVENT DATA -- January - September 2016**

**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	9/1/2016	FMO	20.50	202.8	OTHER FEEDWATER SYSTEM PROBLEMS



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Hines Power Block 3

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 3A	2/10/2016	PPO	1.53	52.7	INTAKE GRATING FOULING
HEP 3A	2/21/2016	PPO	0.75	52.8	INTAKE GRATING FOULING
HEP 3A	3/6/2016	PPO	1.25	63.7	INTAKE GRATING FOULING
HEP 3A	3/28/2016	PPO	6.42	59.8	CONDENSER TUBE AND WATER BOX CLEANING
HEP 3A	4/2/2016	PPO	7.00	59.8	CONDENSER TUBE AND WATER BOX CLEANING
HEP 3A	4/15/2016	FFO	17.42	172.8	GAS TURBINE - CONTROLS AND INSTRUMENTS
HEP 3A	4/19/2016	PPO	1.38	59.8	CIRCULATING WATER PUMPS
HEP 3A	4/27/2016	PO	1107.95	172.8	GENERAL GAS TURBINE UNIT INSPECTION
HEP 3A	6/12/2016	FFO	76.45	172.8	GAS TURBINE - CONTROLS AND INSTRUMENTS
HEP 3A	6/21/2016	PPO	5.00	57.8	INTAKE GRATING FOULING
HEP 3A	6/28/2016	PPO	1.13	57.8	INTAKE GRATING FOULING
HEP 3A	7/15/2016	PPO	1.00	22.8	INTAKE GRATING FOULING
HEP 3A	8/1/2016	PPO	1.47	59.8	INTAKE GRATING FOULING
HEP 3A	8/22/2016	FFO	25.55	172.8	GT CONT. SYS. - INTERNAL AND TERMINATION WIRING
HEP 3B	2/10/2016	PPO	1.53	52.7	INTAKE GRATING FOULING
HEP 3B	2/21/2016	PPO	0.75	52.8	INTAKE GRATING FOULING
HEP 3B	3/6/2016	PPO	1.25	63.7	INTAKE GRATING FOULING
HEP 3B	3/28/2016	PPO	6.42	59.8	CONDENSER TUBE AND WATER BOX CLEANING
HEP 3B	4/2/2016	PPO	7.00	59.8	CONDENSER TUBE AND WATER BOX CLEANING
HEP 3B	4/8/2016	FMO	49.18	172.8	GAS TURBINE - INLET AIR DUCTS
HEP 3B	4/19/2016	PPO	1.00	59.8	CIRCULATING WATER PUMPS
HEP 3B	4/27/2016	PO	1102.43	172.8	GENERAL GAS TURBINE UNIT INSPECTION
HEP 3B	6/12/2016	FFO	82.33	172.8	FEEDWATER REGULATING (BOILER LEVEL CONTROL) VALVE
HEP 3B	6/21/2016	PPO	5.00	57.8	INTAKE GRATING FOULING
HEP 3B	6/28/2016	PPO	1.13	57.8	INTAKE GRATING FOULING
HEP 3B	7/15/2016	PPO	1.00	22.8	INTAKE GRATING FOULING
HEP 3B	8/1/2016	PPO	1.47	59.8	INTAKE GRATING FOULING

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<b>Unit</b>	<b>Date</b>	<b>Outage Type</b>	<b>Hours</b>	<b>MW Affected</b>	<b>Description</b>
HEP ST3	2/10/2016	PPO	1.53	51.4	INTAKE GRATING FOULING
HEP ST3	2/21/2016	PPO	0.75	51.3	INTAKE GRATING FOULING
HEP ST3	3/6/2016	PPO	1.25	60.5	INTAKE GRATING FOULING
HEP ST3	3/28/2016	PPO	6.42	57.4	CONDENSER TUBE AND WATER BOX CLEANING
HEP ST3	4/2/2016	PPO	7.00	53.4	CONDENSER TUBE AND WATER BOX CLEANING
HEP ST3	4/19/2016	PPO	1.38	53.4	CIRCULATING WATER PUMPS
HEP ST3	4/27/2016	PO	1106.32	198.4	GENERAL GAS TURBINE UNIT INSPECTION
HEP ST3	6/12/2016	FFO	78.92	198.4	FEEDWATER REGULATING (BOILER LEVEL CONTROL) VALVE
HEP ST3	6/21/2016	PPO	5.00	66.4	INTAKE GRATING FOULING
HEP ST3	6/28/2016	PPO	1.13	65.5	INTAKE GRATING FOULING
HEP ST3	8/1/2016	PPO	1.47	66.4	INTAKE GRATING FOULING
HEP ST3	8/22/2016	FFO	3.77	198.4	OTHER FEEDWATER SYSTEM PROBLEMS

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ACTUAL UNIT EVENT DATA -- January - September 2016

Hines Power Block 4

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 4A	1/26/2016	PPO	1.50	56.0	INTAKE GRATING FOULING
HEP 4A	2/1/2016	PPO	1.62	55.9	INTAKE GRATING FOULING
HEP 4A	2/6/2016	PPO	1.00	55.9	INTAKE GRATING FOULING
HEP 4A	2/10/2016	PPO	0.83	56.0	INTAKE GRATING FOULING
HEP 4A	2/11/2016	PPO	0.97	55.9	INTAKE GRATING FOULING
HEP 4A	2/13/2016	PPO	0.88	61.0	INTAKE GRATING FOULING
HEP 4A	2/16/2016	PPO	0.58	60.8	INTAKE GRATING FOULING
HEP 4A	2/19/2016	PPO	1.33	55.9	INTAKE GRATING FOULING
HEP 4A	2/23/2016	PPO	0.50	56.1	INTAKE GRATING FOULING
HEP 4A	2/29/2016	PPO	0.50	56.1	INTAKE GRATING FOULING
HEP 4A	3/6/2016	PPO	1.17	60.9	INTAKE GRATING FOULING
HEP 4A	4/14/2016	PPO	1.00	55.9	INTAKE GRATING FOULING
HEP 4A	5/2/2016	PPO	1.00	62.0	INTAKE GRATING FOULING
HEP 4A	5/3/2016	PFO	203.75	61.9	CIRCULATING WATER PUMPS
HEP 4A	5/21/2016	FFO	4.08	168.9	CONDENSATE/HOTWELL PUMPS
HEP 4A	5/22/2016	FMO	19.15	168.9	GAS TURBINE - FUEL PIPING AND VALVES
HEP 4A	5/25/2016	FFO	529.97	168.9	CONTRACTOR ERROR
HEP 4A	6/16/2016	FFO	1626.52	168.9	HP TURBINE BEARINGS
HEP 4A	8/24/2016	FFO	8.83	168.9	CONDENSATE/HOTWELL PUMPS
HEP 4A	8/30/2016	FFO	20.08	168.9	CIRCULATING WATER PUMP MOTORS
HEP 4B	1/16/2016	FFO	9.05	168.9	FEEDWATER PUMP
HEP 4B	1/26/2016	PPO	1.50	56.0	INTAKE GRATING FOULING
HEP 4B	2/1/2016	PPO	1.62	55.9	INTAKE GRATING FOULING
HEP 4B	2/6/2016	PPO	1.00	55.9	INTAKE GRATING FOULING
HEP 4B	2/10/2016	PPO	0.83	56.0	INTAKE GRATING FOULING
HEP 4B	2/11/2016	PPO	0.97	55.9	INTAKE GRATING FOULING
HEP 4B	2/13/2016	PPO	0.88	61.0	INTAKE GRATING FOULING

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Hines Power Block 4

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 4B	2/16/2016	PPO	0.58	60.8	INTAKE GRATING FOULING
HEP 4B	2/19/2016	PPO	1.33	55.9	INTAKE GRATING FOULING
HEP 4B	2/23/2016	PPO	0.50	56.1	INTAKE GRATING FOULING
HEP 4B	2/29/2016	PPO	0.50	56.1	INTAKE GRATING FOULING
HEP 4B	3/6/2016	PPO	1.17	60.9	INTAKE GRATING FOULING
HEP 4B	4/14/2016	PPO	1.00	55.9	INTAKE GRATING FOULING
HEP 4B	5/2/2016	PPO	1.00	62.0	INTAKE GRATING FOULING
HEP 4B	5/3/2016	PFO	203.75	61.9	CIRCULATING WATER PUMPS
HEP 4B	5/21/2016	FMO	35.25	168.9	GAS TURBINE - FUEL PIPING AND VALVES
HEP 4B	5/25/2016	FFO	322.52	168.9	CONTRACTOR ERROR
HEP 4B	6/8/2016	FFO	5.03	168.9	TURBINE SUPERVISORY SYSTEM
HEP 4B	6/8/2016	FFO	100.33	168.9	TURBINE SUPERVISORY SYSTEM
HEP 4B	6/12/2016	FFO	70.23	168.9	TURBINE SUPERVISORY SYSTEM
HEP 4B	6/15/2016	FFO	1656.17	168.9	HP TURBINE ROTOR SHAFT
HEP 4B	8/24/2016	FFO	4.82	168.9	CONDENSATE/HOTWELL PUMPS
HEP 4B	8/30/2016	FFO	30.48	168.9	CIRCULATING WATER PUMP MOTORS
HEP ST4	1/16/2016	FFO	10.15	190.2	FEEDWATER PUMP
HEP ST4	1/26/2016	PPO	1.50	65.2	INTAKE GRATING FOULING
HEP ST4	2/1/2016	PPO	1.62	65.2	INTAKE GRATING FOULING
HEP ST4	2/6/2016	PPO	1.00	65.2	INTAKE GRATING FOULING
HEP ST4	2/10/2016	PPO	0.83	65.3	INTAKE GRATING FOULING
HEP ST4	2/11/2016	PPO	0.97	65.1	INTAKE GRATING FOULING
HEP ST4	2/13/2016	PPO	0.88	65.3	INTAKE GRATING FOULING
HEP ST4	2/16/2016	PPO	0.58	65.2	INTAKE GRATING FOULING
HEP ST4	2/19/2016	PPO	1.33	65.2	INTAKE GRATING FOULING
HEP ST4	2/23/2016	PPO	0.50	45.3	INTAKE GRATING FOULING
HEP ST4	3/6/2016	PPO	1.17	46.1	INTAKE GRATING FOULING

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**ACTUAL UNIT EVENT DATA -- January - September 2016**

**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	4/14/2016	PPO	1.00	77.2	INTAKE GRATING FOULING
HEP ST4	5/2/2016	PPO	1.00	53.2	INTAKE GRATING FOULING
HEP ST4	5/3/2016	PFO	203.75	54.2	CIRCULATING WATER PUMPS
HEP ST4	5/21/2016	FFO	5.75	190.2	CONDENSATE/HOTWELL PUMPS
HEP ST4	5/25/2016	FFO	2163.77	190.2	CONTRACTOR ERROR
HEP ST4	8/24/2016	FFO	5.82	190.2	CONDENSATE/HOTWELL PUMPS
HEP ST4	8/30/2016	FFO	20.62	190.2	CIRCULATING WATER PUMP MOTORS