



DIANNE M. TRIPLETT
ASSOCIATE GENERAL COUNSEL

December 21, 2015

VIA ELECTRONIC FILING

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

Re: Docket No.: 150001
Performance Data Report for November 2015

Dear Ms. Stauffer:

Enclosed for filing in the above docket is Duke Energy Florida, LLC's Performance Data Report for November 2015.

If you have any questions, please do not hesitate to contact me at (727) 820-4692.

Sincerely,

A handwritten signature in blue ink that reads "Dianne M. Triplett".

Dianne M. Triplett
Associate General Counsel

DMT/db
Enclosure

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

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2015

Bartow CC	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan - Nov Period
1. EAF	91.68	93.44	56.55	87.01	96.26	97.92	97.44	94.49	94.42	70.72	83.23		87.47
2. PH	744	672	743	720	744	720	744	744	720	744	721		8,016
3. SH	669.9	591.6	406.2	614.5	726.7	692.3	716.8	690.7	670.5	516.4	585.6		6,881.0
4. RSH	12.2	36.4	14.0	12.0	0.6	14.7	13.8	12.3	15.5	9.8	14.5		155.6
5. UH	61.9	44.1	322.9	93.5	16.8	13.1	13.4	41.0	34.1	217.9	120.9		979.4
6. POH	58.3	0.5	222.8	80.9	0.0	0.0	0.0	0.0	18.2	217.9	120.9		719.4
7. FOH	0.0	0.0	0.0	12.6	1.5	0.7	9.6	19.2	0.0	0.0	0.0		43.5
8. MOH	3.6	43.7	100.1	0.0	15.3	12.5	3.8	21.8	15.8	0.0	0.0		216.5
9. PPOH	0.0	0.0	0.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0		3.6
10. LR PP (MW)	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		1.0
11. PFOH	0.0	0.0	0.0	0.0	57.3	14.9	44.4	0.0	33.9	0.0	0.0		150.5
12. LR PF (MW)	0.0	0.0	0.0	0.0	119.1	137.6	137.5	0.0	194.0	0.0	0.0		143.2
13. PMOH	0.0	0.0	0.0	3.4	34.8	0.0	0.0	0.0	0.0	0.0	0.0		38.2
14. LR PM (MW)	0.0	0.0	0.0	27.0	144.5	0.0	0.0	0.0	0.0	0.0	0.0		134.0
15. NSC (MW)	1076	1076	1076	1076	1076	1076	1076	1076	1076	1076	1076		1076
16. OPER MBTU	4,903,737	4,237,148	3,398,094	4,781,803	5,375,275	5,100,215	4,394,207	4,860,370	4,583,395	2,863,630	3,901,179		48,399,054
17. NET GEN (MWH)	670,768	556,814	368,790	666,724	679,053	691,381	550,583	640,066	597,537	389,749	563,564		6,375,029
18. ANOHR (BTU/KWH)	7,310.6	7,609.6	9,214.2	7,172.1	7,915.8	7,376.9	7,981.0	7,593.5	7,670.5	7,347.4	6,922.3		7,592.0
19. NOF (%)	84.50	79.43	76.62	101.02	87.01	92.99	71.52	86.28	82.98	70.28	81.21		83.44
20. NPC (MW)	1076	1076	1076	1076	1076	1076	1076	1076	1076	1076	1076		1076

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2015

CRYSTAL RIVER 4	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan - Nov Period
1. EAF	90.53	99.17	98.74	96.48	89.10	93.62	99.95	98.20	99.53	95.06	83.27		94.86
2. PH	744	672	743	720	744	720	744	744	720	744	721		8,016
3. SH	674.9	672.0	743.0	720.0	693.0	681.8	744.0	744.0	720.0	739.7	608.8		7,741.1
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	69.1	0.0	0.0	0.0	51.1	38.2	0.0	0.0	0.0	4.3	112.2		274.9
6. POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
7. FOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	0.0		4.3
8. MOH	69.1	0.0	0.0	0.0	51.1	38.2	0.0	0.0	0.0	0.0	112.2		270.6
9. PPOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
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
11. PFOH	0.0	17.4	10.3	19.7	0.0	8.3	0.0	21.4	0.0	7.1	0.0		84.1
12. LR PF (MW)	0.0	220.6	167.3	336.1	0.0	335.2	0.0	252.8	0.0	108.0	0.0		251.1
13. PMOH	10.5	1.5	18.2	128.0	238.7	34.0	4.0	20.7	35.7	174.6	31.3		697.2
14. LR PM (MW)	93.0	93.2	271.9	89.2	89.6	80.6	65.0	198.8	67.4	127.9	191.2		110.0
15. NSC (MW)	712	712	712	712	712	712	712	712	712	712	712		712
16. OPER MBTU	3,448,203	3,378,381	4,227,341	4,046,621	3,625,009	3,566,531	4,021,425	3,869,618	3,709,431	3,449,448	2,675,584		40,017,593
17. NET GEN (MWH)	332,848	319,716	412,868	398,291	351,041	349,885	380,025	359,740	354,695	332,386	244,510		3,836,005
18. ANOHR (BTU/KWH)	10,359.7	10,566.8	10,239.0	10,160.0	10,326.5	10,193.4	10,582.0	10,756.7	10,458.1	10,377.8	10,942.6		10,432.1
19. NOF (%)	69.26	66.82	78.04	77.69	71.15	72.08	71.74	67.91	69.19	63.11	56.41		69.60
20. NPC (MW)	712	712	712	712	712	712	712	712	712	712	712		712

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2015

CRYSTAL RIVER 5	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan - Nov Period
1. EAF	100.00	99.64	98.87	91.76	97.54	99.45	99.86	98.34	98.03	95.02	30.10		91.75
2. PH	744	672	743	720	744	720	744	744	720	744	721		8,016
3. SH	75.3	404.0	743.0	670.1	744.0	720.0	744.0	744.0	720.0	720.0	0.0		6,284.4
4. RSH	668.7	268.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	217.0		1,153.7
5. UH	0.0	0.0	0.0	49.9	0.0	0.0	0.0	0.0	0.0	24.0	504.0		577.9
6. POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.0	504.0		528.0
7. FOH	0.0	0.0	0.0	49.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0		49.9
8. MOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
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
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
11. PFOH	0.0	0.0	17.0	28.3	0.0	0.0	0.0	41.8	23.0	9.3	0.0		119.4
12. LR PF (MW)	0.0	0.0	91.0	88.4	0.0	0.0	0.0	174.5	144.5	472.0	0.0		159.5
13. PMOH	0.0	3.7	24.9	53.0	65.3	33.6	12.0	18.0	23.1	39.6	0.0		273.0
14. LR PM (MW)	0.0	471.6	177.5	78.5	199.4	83.6	63.0	80.3	292.1	124.0	0.0		146.4
15. NSC (MW)	710	710	710	710	710	710	710	710	710	710	710		710
16. OPER MBTU	441,979	2,042,258	4,217,136	3,835,333	4,045,552	3,716,334	3,848,861	3,799,776	3,546,606	3,273,300	0		32,767,134
17. NET GEN (MWH)	43,107	198,635	422,693	381,022	406,415	367,972	364,092	354,509	336,467	319,515	0		3,194,427
18. ANOHR (BTU/KWH)	10,253.1	10,281.5	9,976.8	10,065.9	9,954.2	10,099.5	10,571.1	10,718.4	10,540.7	10,244.6	0.0		10,257.6
19. NOF (%)	80.61	69.25	80.13	80.09	76.94	71.98	68.93	67.11	65.82	62.50	0.00		71.59
20. NPC (MW)	710	710	710	710	710	710	710	710	710	710	710		710

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ACTUAL UNIT PERFORMANCE DATA -- YEAR 2015

HINES Power Block 1	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan - Nov Period
1. EAF	99.50	71.61	0.00	43.94	95.97	100.00	95.61	98.47	100.00	100.00	99.85		82.34
2. PH	744	672	743	720	744	720	744	744	720	744	721		8,016
3. SH	737.1	478.5	0.0	316.3	714.0	720.0	706.5	732.2	720.0	744.0	685.1		6,553.7
4. RSH	5.2	2.8	0.0	0.0	0.0	0.0	6.5	2.4	0.0	0.0	34.9		51.8
5. UH	1.6	190.8	743.0	403.7	30.0	0.0	31.0	9.4	0.0	0.0	1.1		1,410.5
6. POH	0.0	190.8	743.0	392.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		1,325.8
7. FOH	0.0	0.0	0.0	11.6	1.0	0.0	31.0	9.4	0.0	0.0	1.1		54.1
8. MOH	1.6	0.0	0.0	0.0	29.0	0.0	0.0	0.0	0.0	0.0	0.0		30.6
9. PPOH	1.8	0.0	0.0	0.0	0.0	2.8	1.4	1.5	1.3	3.0	0.0		11.9
10. LR PP (MW)	66.0	0.0	0.0	0.0	0.0	59.1	63.7	59.8	62.2	61.4	0.0		61.7
11. PFOH	0.0	0.0	0.0	0.0	0.0	0.0	8.8	11.0	0.0	0.0	0.0		19.8
12. LR PF (MW)	0.0	0.0	0.0	0.0	0.0	0.0	89.1	81.5	0.0	0.0	0.0		84.8
13. PMOH	15.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		15.3
14. LR PM (MW)	72.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		72.0
15. NSC (MW)	528	528	528	462	462	462	462	462	462	462	528		528
16. OPER MBTU	2,524,187	1,694,595	0	1,028,254	2,150,728	2,339,254	2,318,078	2,297,932	2,297,806	2,491,592	2,185,627		21,328,053
17. NET GEN (MWH)	338,209	229,988	0	140,888	312,850	310,748	309,357	311,702	316,007	340,038	293,399		2,903,186
18. ANOHR (BTU/KWH)	7,463.4	7,368.2	0.0	7,298.4	6,874.6	7,527.8	7,493.2	7,372.2	7,271.4	7,327.4	7,449.3		7,346.4
19. NOF (%)	86.90	91.03	0.00	96.40	94.84	93.42	94.77	92.15	95.00	98.93	81.12		92.07
20. NPC (MW)	528	528	528	462	462	462	462	462	462	462	528		528

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2015

HINES Power Block 2	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan - Nov Period
1. EAF	0.00	0.00	0.00	0.00	0.25	47.87	100.00	100.00	100.00	97.64	100.00		49.93
2. PH	744	672	743	720	744	720	744	744	720	744	721		8,016
3. SH	0.0	0.0	0.0	0.0	1.8	344.7	744.0	744.0	672.1	729.9	715.0		3,951.5
4. RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48.0	0.0	6.0		54.0
5. UH	744.0	672.0	743.0	720.0	742.2	375.3	0.0	0.0	0.0	14.1	0.0		4,010.6
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	744.0	672.0	743.0	720.0	742.2	375.3	0.0	0.0	0.0	14.1	0.0		4,010.6
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
9. PPOH	0.0	0.0	0.0	0.0	0.0	2.0	2.8	4.5	1.1	2.8	0.0		13.1
10. LR PP (MW)	0.0	0.0	0.0	0.0	0.0	50.9	45.9	49.1	51.4	39.5	0.0		46.9
11. PFOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.6	0.0		16.6
12. LR PF (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	104.0	0.0		104.0
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)	563	563	563	490	490	490	490	490	490	490	563		563
16. OPER MBTU	0	0	0	0	1,844	1,249,778	2,495,954	2,412,473	2,054,047	2,497,869	2,302,212		13,014,178
17. NET GEN (MWH)	0	0	0	0	0	157,237	349,214	341,647	294,086	346,362	326,122		1,814,668
18. ANOHR (BTU/KWH)	0.0	0.0	0.0	0.0	0.0	7,948.4	7,147.3	7,061.3	6,984.5	7,211.7	7,059.4		7,171.7
19. NOF (%)	0.00	0.00	0.00	0.00	0.00	93.10	95.79	93.71	89.31	96.84	81.02		91.23
20. NPC (MW)	563	563	563	490	490	490	490	490	490	490	563		563

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2015

HINES Power Block 3	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan - Nov Period
1. EAF	97.81	100.00	100.00	59.68	68.07	100.00	98.97	100.00	99.56	100.00	98.19		92.92
2. PH	744	672	743	720	744	720	744	744	720	744	721		8,016
3. SH	686.9	672.0	743.0	429.7	506.4	720.0	738.2	744.0	710.2	744.0	685.5		7,380.0
4. RSH	40.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	0.0	22.4		69.9
5. UH	16.3	0.0	0.0	290.3	237.6	0.0	5.8	0.0	3.2	0.0	13.0		566.1
6. POH	0.0	0.0	0.0	290.3	207.7	0.0	0.0	0.0	0.0	0.0	0.0		498.0
7. FOH	16.3	0.0	0.0	0.0	29.9	0.0	5.8	0.0	0.0	0.0	13.0		64.9
8. MOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.0	0.0		3.2
9. PPOH	0.0	0.0	1.3	0.0	5.5	6.1	2.3	1.2	4.8	1.3	0.0		22.3
10. LR PP (MW)	0.0	0.0	34.4	0.0	41.3	40.0	41.6	40.1	41.4	41.3	0.0		40.5
11. PFOH	0.0	0.0	0.0	0.0	0.0	0.0	14.4	0.0	0.0	0.0	0.0		14.4
12. LR PF (MW)	0.0	0.0	0.0	0.0	0.0	0.0	63.1	0.0	0.0	0.0	0.0		63.1
13. PMOH	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0		0.4
14. LR PM (MW)	0.0	0.0	0.0	0.0	0.0	0.0	41.9	0.0	0.0	0.0	0.0		41.9
15. NSC (MW)	564	564	564	488	488	488	488	488	488	488	564		564
16. OPER MBTU	2,324,063	2,343,971	2,594,096	1,459,831	1,712,240	2,334,811	2,414,734	2,401,056	2,541,548	2,537,497	2,140,314		24,804,160
17. NET GEN (MWH)	327,307	336,232	367,462	204,252	224,249	329,233	340,964	340,761	325,315	353,058	310,522		3,459,355
18. ANOHR (BTU/KWH)	7,100.6	6,971.3	7,059.5	7,147.2	7,635.4	7,091.7	7,082.1	7,046.2	7,812.6	7,187.2	6,892.6		7,170.2
19. NOF (%)	84.48	88.71	87.69	97.40	90.74	93.70	94.64	93.85	93.87	97.24	80.31		90.72
20. NPC (MW)	564	564	564	488	488	488	488	488	488	488	564		564

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2015

HINES Power Block 4	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan - Nov Period
1. EAF	100.00	100.00	100.00	95.40	98.25	99.74	100.00	100.00	100.00	25.28	68.01		89.59
2. PH	744	672	743	720	744	720	744	744	720	744	721		8,016
3. SH	732.4	639.2	743.0	686.9	731.0	698.0	744.0	744.0	692.3	188.1	479.8		7,078.6
4. RSH	11.6	32.8	0.0	0.0	0.0	20.3	0.0	0.0	27.8	0.0	10.6		103.0
5. UH	0.0	0.0	0.0	33.1	13.0	1.7	0.0	0.0	0.0	556.0	230.7		834.4
6. POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	556.0	230.7		786.6
7. FOH	0.0	0.0	0.0	33.1	13.0	1.7	0.0	0.0	0.0	0.0	0.0		47.8
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
9. PPOH	3.2	0.0	1.8	0.0	0.0	16.3	21.6	2.0	1.0	13.0	0.0		58.8
10. LR PP (MW)	50.2	0.0	41.0	0.0	0.0	34.4	33.9	39.3	39.1	32.3	0.0		35.0
11. PFOH	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0		1.1
12. LR PF (MW)	0.0	0.0	0.0	0.0	0.0	90.0	0.0	0.0	0.0	0.0	0.0		90.0
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)	544	544	544	472	472	472	472	472	472	472	544		544
16. OPER MBTU	2,483,314	2,124,343	2,559,465	2,278,724	2,559,512	2,214,581	2,448,468	2,411,081	2,205,030	523,486	1,178,204		22,986,208
17. NET GEN (MWH)	359,310	308,121	367,129	319,896	339,415	308,507	347,039	345,023	315,811	69,813	171,115		3,251,179
18. ANOHR (BTU/KWH)	6,911.3	6,894.5	6,971.6	7,123.3	7,541.0	7,178.4	7,055.3	6,988.2	6,982.1	7,498.4	6,885.5		7,070.1
19. NOF (%)	90.18	88.61	90.83	98.67	98.37	93.64	98.82	98.25	96.65	78.65	65.56		92.16
20. NPC (MW)	544	544	544	472	472	472	472	472	472	472	544		544

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - November 2015

Bartow CC

Unit	Date	Outage Type	Hours	MW Affected	Description
BCC 4A	2/1/2015	FMO	264.80	164.0	HEAT RECOVERY STEAM GENERATOR TO GAS TURBINE CON..
BCC 4A	2/21/2015	FMO	22.27	164.0	GAS TURBINE - FUEL PIPING AND VALVES
BCC 4A	4/6/2015	FFO	22.00	164.0	GAS TURBINE - LUBE OIL SYSTEM - GENERAL
BCC 4A	4/8/2015	FFO	34.00	164.0	OTHER MISCELLANEOUS GENERATOR PROBLEMS
BCC 4A	5/14/2015	PFO	17.00	6.0	NERC RELIABILITY STANDARD REQUIREMENT
BCC 4A	6/23/2015	PFO	8.92	0.5	GAS TURBINE - IGNITION SYSTEM
BCC 4A	7/2/2015	FFO	46.00	164.0	GAS TURBINE - FIRE DETECTION AND EXTINGUISHING SYS
BCC 4A	7/10/2015	PFO	20.00	27.5	FISH KILL - GAS TURBINE UNITS
BCC 4A	7/12/2015	FMO	25.00	164.0	OTHER GAS TURBINE FUEL SYSTEM PROBLEMS
BCC 4A	8/28/2015	FMO	115.95	164.0	HP DESUPEHEATER/ATTEMPERATOR SPRAY NOZZLES
BCC 4A	9/26/2015	PO	1108.62	164.0	GAS TURBINE - FUEL NOZZLES/VANES
BCC 4B	1/16/2015	PO	384.25	165.0	GAS TURBINE - LUBE OIL SYSTEM - GENERAL
BCC 4B	3/27/2015	FMO	86.07	165.0	TOTAL UNIT PERFORMANCE TESTING
BCC 4B	4/28/2015	FFO	11.00	165.0	GENERATOR VOLTAGE CONTROL
BCC 4B	5/4/2015	FFO	10.00	165.0	PILOT FUEL NOZZLES/VANES
BCC 4B	5/14/2015	PFO	17.00	6.0	NERC RELIABILITY STANDARD REQUIREMENT
BCC 4B	6/22/2015	FFO	3.17	165.0	GAS TURBINE - COOLING AND SEAL AIR SYSTEM
BCC 4B	7/19/2015	PFO	14.00	28.5	GAS TURBINE - DIVERTER DAMPERS
BCC 4B	8/1/2015	FFO	14.05	165.0	GAS TURBINE - STARTING SYSTEM (INCLUDING MOTOR)
BCC 4B	8/15/2015	FFO	6.85	165.0	PILOT FUEL PIPING AND VALVES
BCC 4B	8/21/2015	FMO	27.13	165.0	PILOT FUEL PIPING AND VALVES
BCC 4B	9/17/2015	FMO	83.12	165.0	FEEDWATER CONTROLS
BCC 4C	3/8/2015	FMO	285.60	167.0	GAS TURBINE - DIVERTER DAMPERS
BCC 4C	3/20/2015	FMO	7.35	167.0	GAS TURBINE - CONTROLS AND INSTRUMENTS
BCC 4C	3/22/2015	FMO	136.57	167.0	GAS TURBINE - DIVERTER DAMPERS
BCC 4C	4/15/2015	PPO	23.00	1.0	FEEDWATER PIPING DOWNSTRM OF FEEDWTR REG. VALVE
BCC 4C	4/16/2015	PMO	22.00	27.0	EMERGENCY GENERATOR TRIP DEVICES

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - November 2015

Bartow CC

Unit	Date	Outage Type	Hours	MW Affected	Description
BCC 4C	5/14/2015	PFO	17.00	1.0	CIRCULATING WATER PRIMING SYSTEM
BCC 4C	5/15/2015	FMO	8.50	167.0	OTHER CLOSED COOLING WATER SYSTEM PROBLEMS
BCC 4C	5/26/2015	FMO	85.92	167.0	CLOSED COOLING WATER HEAT EXCHANGERS
BCC 4C	6/18/2015	FFO	1.05	167.0	OPERATOR ERROR
BCC 4C	8/1/2015	FFO	63.75	167.0	GENERATOR VOLTAGE CONTROL
BCC 4C	8/5/2015	FFO	34.65	167.0	LP DESUPERHEATER/ATTEMPERATOR VALVES
BCC 4C	8/6/2015	FFO	4.38	167.0	GENERATOR METERING DEVICES
BCC 4C	10/3/2015	PO	1210.87	167.0	GAS TURBINE - FUEL NOZZLES/VANES
BCC 4D	3/20/2015	FMO	132.82	163.0	GAS TURBINE - BOROSCOPE INSPECTION
BCC 4D	4/6/2015	FFO	16.00	163.0	GAS TURBINE - LUBE OIL SYSTEM - GENERAL
BCC 4D	5/14/2015	PFO	17.00	6.0	NERC RELIABILITY STANDARD REQUIREMENT
BCC 4D	5/16/2015	FMO	3.65	163.0	CLOSED COOLING WATER INSTRUMENTATION
BCC 4D	7/27/2015	FFO	17.00	163.0	FEEDWATER REGULATING (BOILER LEVEL CONTROL) VALVE
BCC 4D	7/28/2015	PFO	3.07	26.5	HP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
BCC 4D	8/14/2015	FMO	21.08	163.0	FLASHBACK (INCLUDING INSTRUMENTATION)
BCC 4S	1/16/2015	FMO	9.23	417.0	TURBINE OVERSPEED TRIP TEST
BCC 4S	3/8/2015	PO	621.77	417.0	OTHER COMBINED CYCLE PROBLEMS
BCC 4S	4/3/2015	PO	160.25	417.0	OTHER COMBINED CYCLE PROBLEMS
BCC 4S	5/4/2015	PFO	10.00	144.5	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
BCC 4S	5/4/2015	PFO	34.52	144.5	IP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
BCC 4S	5/5/2015	PFO	51.25	144.5	IP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
BCC 4S	5/14/2015	PFO	17.00	144.5	NERC RELIABILITY STANDARD REQUIREMENT
BCC 4S	5/15/2015	PFO	8.00	144.5	GAS TURBINE - CONTROLS AND INSTRUMENTS
BCC 4S	5/16/2015	PMO	3.65	144.5	GAS TURBINE - CONTROLS AND INSTRUMENTS
BCC 4S	5/26/2015	PMO	85.92	144.5	GAS TURBINE - LUBE OIL COOLERS
BCC 4S	6/11/2015	FMO	32.08	417.0	OTHER COMBINED CYCLE PROBLEMS
BCC 4S	6/18/2015	PFO	4.00	305.5	HEAT RECOVERY STEAM GENERATOR TO GAS TURBINE CON..

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - November 2015

Bartow CC

Unit	Date	Outage Type	Hours	MW Affected	Description
BCC 4S	6/18/2015	PFO	1.05	144.6	CONDENSATE/HOTWELL PUMPS
BCC 4S	6/22/2015	PFO	3.00	144.6	OTHER GAS TURBINE AUXILIARY SYSTEM PROBLEMS
BCC 4S	6/23/2015	PFO	7.85	144.5	UNIT AUXILIARIES TRANSFORMER
BCC 4S	6/23/2015	PFO	1.92	144.4	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
BCC 4S	6/24/2015	PFO	17.00	120.5	COMBINED CYCLE INSTRUMENTS AND CONTROLS
BCC 4S	7/10/2015	PFO	32.85	153.5	CIRCULATING WATER BIOLOGICAL CONDITIONS (EG; ZEBRA MUSSELS)
BCC 4S	7/17/2015	PFO	67.08	153.5	OTHER MAIN STEAM VALVES (INCLUDING VENT AND DRAIN.
BCC 4S	9/17/2015	PFO	87.18	194.0	GEN. STATOR WINDINGS; BUSHINGS; AND TERMINALS

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - November 2015

Crystal River 4

Date	Outage Type	Hours	MW Affected	Description
1/1/2015	PMO	10.50	93.0	PULVERIZED FUEL AND AIR PIPING (PULVERIZER TO WIND BOX)
1/2/2015	FMO	69.08	712.0	PLATEN SUPERHEATER LEAKS
2/3/2015	PFO	3.33	54.9	CIRCULATING WATER PUMP MOTORS
2/20/2015	PFO	7.92	93.0	PULVERIZER FEEDERS
2/24/2015	PMO	1.48	93.1	PULVERIZER MILLS
2/25/2015	PFO	6.17	473.9	PULVERIZER MILLS
3/17/2015	PMO	4.00	259.0	CEMS - CERTIFICATION AND RECERTIFICATION
3/18/2015	PMO	5.35	474.0	CEMS - CERTIFICATION AND RECERTIFICATION
3/19/2015	PMO	3.88	259.1	CEMS - CERTIFICATION AND RECERTIFICATION
3/20/2015	PMO	4.95	73.9	CEMS - CERTIFICATION AND RECERTIFICATION
3/23/2015	PFO	2.00	473.8	COAL CONVEYERS AND FEEDERS
3/24/2015	PFO	8.25	93.0	PULVERIZER FEEDERS
4/7/2015	PMO	6.18	284.0	FORCED DRAFT FANS
4/8/2015	PMO	7.95	284.0	FORCED DRAFT FANS
4/9/2015	PFO	17.60	331.0	FEEDWATER BOOSTER PUMP
4/20/2015	PMO	24.05	65.0	PULVERIZER MILLS
4/21/2015	PMO	10.25	65.0	PULVERIZER MILLS
4/22/2015	PFO	2.08	379.1	COAL CONVEYERS AND FEEDERS
4/22/2015	PMO	24.05	65.0	PULVERIZER MILLS
4/28/2015	PMO	25.80	65.0	PULVERIZER MILLS
4/29/2015	PMO	29.75	65.0	PULVERIZER MILLS
5/1/2015	PMO	6.00	65.0	PULVERIZER MILLS
5/4/2015	PMO	7.12	236.0	CLOSED COOLING WATER HEAT EXCHANGERS
5/6/2015	PMO	7.50	236.0	CLOSED COOLING WATER HEAT EXCHANGERS
5/12/2015	PMO	8.72	284.0	CONDENSATE/HOTWELL PUMPS
5/13/2015	PMO	6.70	283.9	CONDENSATE/HOTWELL PUMPS
5/14/2015	PMO	202.70	65.0	PULVERIZER MILLS

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - November 2015

Crystal River 4

Date	Outage Type	Hours	MW Affected	Description
5/28/2015	FMO	51.05	712.0	INDUCED DRAFT FANS
6/11/2015	PFO	4.75	65.1	COAL CONVEYERS AND FEEDERS
6/17/2015	PMO	18.00	27.0	CONVECTION PASS WALL LEAKS (WATER TUBES ONLY)
6/18/2015	PMO	15.98	141.0	CONVECTION PASS WALL LEAKS (WATER TUBES ONLY)
6/19/2015	FMO	38.22	712.0	CONVECTION PASS WALL LEAKS (WATER TUBES ONLY)
6/24/2015	PFO	3.50	702.0	COMBUSTION/STEAM CONDITION CONTROLS
7/2/2015	PMO	4.00	65.0	PULVERIZER MILLS
8/4/2015	PMO	5.00	379.1	COAL CONVEYERS AND FEEDERS
8/4/2015	PFO	3.92	103.1	WET COAL (OMC)
8/4/2015	PFO	12.23	303.0	WET COAL (OMC)
8/5/2015	PFO	1.00	93.3	WET COAL (OMC)
8/6/2015	PMO	6.00	236.0	CONDENSATE/HOTWELL PUMPS
8/20/2015	PMO	6.00	93.0	PULVERIZED FUEL AND AIR PIPING (PULVERIZER TO WIND BOX)
8/23/2015	PFO	4.27	284.0	COAL CONVEYERS AND FEEDERS
8/28/2015	PMO	3.65	65.0	PULVERIZED FUEL AND AIR PIPING (PULVERIZER TO WIND BOX)
9/3/2015	PMO	5.00	64.9	PULVERIZED FUEL AND AIR PIPING (PULVERIZER TO WIND BOX)
9/3/2015	PMO	7.50	65.0	PULVERIZER FEEDERS
9/10/2015	PMO	5.83	65.1	PULVERIZED FUEL AND AIR PIPING (PULVERIZER TO WIND BOX)
9/17/2015	PMO	4.38	65.0	PULVERIZED FUEL AND AIR PIPING (PULVERIZER TO WIND BOX)
9/24/2015	PMO	3.50	65.1	PULVERIZED FUEL AND AIR PIPING (PULVERIZER TO WIND BOX)
9/24/2015	PMO	9.50	74.0	HEATER DRAIN PUMPS
10/6/2015	PMO	25.63	65.0	PULVERIZED FUEL AND AIR PIPING (PULVERIZER TO WIND BOX)
10/7/2015	PMO	22.13	65.0	PULVERIZED FUEL AND AIR PIPING (PULVERIZER TO WIND BOX)
10/8/2015	PMO	21.85	65.0	PULVERIZED FUEL AND AIR PIPING (PULVERIZER TO WIND BOX)
10/13/2015	PMO	21.03	65.0	PULVERIZED FUEL AND AIR PIPING (PULVERIZER TO WIND BOX)
10/14/2015	PMO	20.88	65.0	PULVERIZED FUEL AND AIR PIPING (PULVERIZER TO WIND BOX)
10/15/2015	PMO	20.53	65.0	PULVERIZED FUEL AND AIR PIPING (PULVERIZER TO WIND BOX)

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - November 2015

Crystal River 4

Date	Outage Type	Hours	MW Affected	Description
10/17/2015	PFO	6.33	103.0	PULVERIZER FEEDERS
10/22/2015	PFO	0.75	150.0	AUTOMATIC TURBINE CONTROL SYSTEMS -DIGITAL CONTROL
10/27/2015	PMO	1.65	93.2	PULVERIZER SYSTEM COAL LEAKS (NOT PULVERIZERS)
10/27/2015	PMO	9.50	474.0	CIRCULATING WATER PIPING
10/28/2015	PMO	9.17	236.0	FORCED DRAFT FANS
10/29/2015	PMO	15.17	236.0	FORCED DRAFT FANS
10/29/2015	PMO	7.08	474.1	CIRCULATING WATER PIPING
10/30/2015	FFO	4.32	712.0	GENERATOR NEUTRAL GROUNDING EQUIPMENT
11/2/2015	PMO	9.08	284.0	INTAKE SYSTEM PROBLEMS OTHER THAN TRAVELING SCREEN
11/4/2015	PMO	6.83	331.0	INTAKE SYSTEM PROBLEMS OTHER THAN TRAVELING SCREEN
11/12/2015	PMO	10.38	65.0	HEATER DRAIN VALVES
11/19/2015	PMO	4.97	93.0	PULVERIZER LUBE OIL SYSTEM
11/19/2015	FMO	112.23	712.0	PLATEN SUPERHEATER LEAKS

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - November 2015

Crystal River 5

Date	Outage Type	Hours	MW Affected	Description
2/25/2015	PMO	3.67	472.0	GENERATOR LIQUID COOLING SYSTEM
3/17/2015	PMO	7.18	63.0	CIRCULATING WATER PUMPS
3/18/2015	PMO	0.38	63.0	CIRCULATING WATER PUMPS
3/18/2015	PMO	8.90	234.0	FORCED DRAFT FANS
3/19/2015	PMO	7.75	234.0	FORCED DRAFT FANS
3/26/2015	PFO	5.78	91.0	FOREIGN OBJECT IN MILL
3/29/2015	PFO	11.23	91.0	PULVERIZER MILLS
3/31/2015	PMO	0.65	63.4	CIRCULATING WATER PUMPS
4/1/2015	PMO	6.67	63.0	CIRCULATING WATER PUMPS
4/1/2015	PFO	6.55	91.1	PULVERIZER FIRES
4/1/2015	PMO	2.23	90.9	PULVERIZER MILLS
4/1/2015	PMO	6.97	63.0	CIRCULATING WATER PUMPS
4/7/2015	PMO	7.68	91.0	PULVERIZER MILLS
4/7/2015	PMO	11.80	91.0	PULVERIZER MILLS
4/8/2015	PMO	7.57	91.0	PULVERIZER MOTORS AND DRIVES
4/9/2015	PFO	16.92	91.0	OTHER HIGH PRESSURE HEATER PROBLEMS
4/12/2015	FFO	31.37	710.0	SWITCHYARD CIRCUIT BREAKERS
4/13/2015	FFO	18.55	710.0	SWITCHYARD CIRCUIT BREAKERS
4/18/2015	PFO	2.63	63.1	PULVERIZER FEEDERS
4/19/2015	PFO	1.38	90.9	PULVERIZER FEEDERS
4/19/2015	PFO	0.80	91.4	PULVERIZER FEEDERS
4/28/2015	PMO	10.05	63.0	PULVERIZER MILLS
5/7/2015	PMO	8.45	410.0	CIRCULATING WATER PIPING
5/8/2015	PMO	7.50	234.0	CLOSED COOLING WATER HEAT EXCHANGERS
5/9/2015	PMO	6.00	233.9	CLOSED COOLING WATER HEAT EXCHANGERS
5/12/2015	PMO	5.03	91.0	PULVERIZED FUEL AND AIR PIPING (PULVERIZER TO WIND BOX)
5/18/2015	PMO	2.67	63.1	PULVERIZER FEEDERS

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - November 2015

Crystal River 5

Date	Outage Type	Hours	MW Affected	Description
5/19/2015	PMO	4.00	63.0	PULVERIZER FEEDERS
5/20/2015	PMO	3.00	63.0	PULVERIZER FEEDERS
5/21/2015	PMO	28.62	186.0	PULVERIZED FUEL AND AIR PIPING (PULVERIZER TO WIND BOX)
6/4/2015	PMO	5.63	186.0	PULVERIZED FUEL AND AIR PIPING (PULVERIZER TO WIND BOX)
6/4/2015	PMO	21.58	63.0	OTHER PULVERIZER PROBLEMS
6/11/2015	PMO	2.75	63.0	PULVERIZED FUEL AND AIR PIPING (PULVERIZER TO WIND BOX)
6/18/2015	PMO	3.65	63.0	PULVERIZED FUEL AND AIR PIPING (PULVERIZER TO WIND BOX)
7/2/2015	PMO	4.00	63.0	PULVERIZED FUEL AND AIR PIPING (PULVERIZER TO WIND BOX)
7/16/2015	PMO	4.00	63.0	PULVERIZED FUEL AND AIR PIPING (PULVERIZER TO WIND BOX)
7/30/2015	PMO	4.00	63.0	PULVERIZED FUEL AND AIR PIPING (PULVERIZER TO WIND BOX)
8/3/2015	PFO	1.32	63.1	WET COAL (OMC)
8/3/2015	PFO	2.58	167.1	WET COAL (OMC)
8/3/2015	PFO	3.98	186.1	WET COAL (OMC)
8/4/2015	PFO	2.50	101.1	WET COAL (OMC)
8/4/2015	PFO	1.98	358.0	WET COAL (OMC)
8/4/2015	PFO	11.23	301.0	WET COAL (OMC)
8/5/2015	PFO	16.50	91.0	WET COAL (OMC)
8/13/2015	PFO	1.75	114.8	PULVERIZER CONTROL SYSTEMS (TEMP AND PRESSURE)
8/13/2015	PMO	11.13	91.0	PULVERIZER COAL LEAK (PULVERIZER ONLY)
8/14/2015	PMO	0.85	62.6	PULVERIZED FUEL AND AIR PIPING (PULVERIZER TO WIND BOX)
8/20/2015	PMO	6.00	63.0	PULVERIZED FUEL AND AIR PIPING (PULVERIZER TO WIND BOX)
9/2/2015	PFO	4.92	63.0	FLUE GAS DAMPERS (EXCEPT RECIRCULATION)
9/3/2015	PMO	4.95	233.9	CONDENSATE/HOTWELL PUMP MOTOR
9/7/2015	PFO	10.90	91.0	PULVERIZER MILLS
9/17/2015	PMO	7.87	63.0	PULVERIZER MILLS
9/23/2015	PMO	4.00	495.9	CONDENSER TUBE SHEETS
9/24/2015	PFO	7.17	281.9	CONDENSER TUBE SHEETS

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - November 2015

Crystal River 5

Date	Outage Type	Hours	MW Affected	Description
9/29/2015	PMO	6.25	496.0	CONDENSER GASKETS AND SEALS
10/12/2015	PMO	8.62	63.0	PULVERIZER MILLS
10/19/2015	PMO	2.23	163.1	FORCED DRAFT FANS
10/19/2015	PMO	1.62	234.0	CONDENSATE/HOTWELL PUMP MOTOR
10/20/2015	PMO	1.05	62.9	PULVERIZER MILLS
10/21/2015	PMO	0.57	62.6	PULVERIZER MILLS
10/21/2015	PMO	0.67	62.8	PULVERIZER MILLS
10/21/2015	PMO	0.63	62.8	CIRCULATING WATER PUMP MOTORS
10/21/2015	PMO	0.67	62.8	CIRCULATING WATER PUMP MOTORS
10/21/2015	PMO	1.00	63.2	PULVERIZER MILLS
10/22/2015	PMO	9.48	34.0	INDUCED DRAFT FANS
10/22/2015	PMO	10.20	163.0	FORCED DRAFT FANS
10/27/2015	PMO	2.87	472.0	OTHER COOLING TOWER PROBLEMS
10/27/2015	PFO	9.25	472.0	MAIN TRANSFORMER
10/30/2015	PO	528.02	710.0	MINOR BOILER OVERHAUL (LESS THAN 720 HOURS)

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - November 2015

Hines Power Block 1

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 1A	1/1/2015	PPO	1.80	66.0	INTAKE GRATING FOULING
HEP 1A	2/21/2015	PO	1314.92	151.0	GAS TURBINE - HIGH PRESSURE TURBINE SHAFT
HEP 1A	4/17/2015	FFO	12.42	151.0	TURBINE SUPERVISORY SYSTEM
HEP 1A	5/16/2015	FMO	88.67	151.0	GAS TURBINE - LUBE OIL COOLERS
HEP 1A	6/6/2015	PPO	1.83	64.0	INTAKE GRATING FOULING
HEP 1A	6/30/2015	PPO	1.00	64.0	INTAKE GRATING FOULING
HEP 1A	7/3/2015	PPO	1.42	68.0	INTAKE GRATING FOULING
HEP 1A	7/26/2015	FFO	22.65	151.0	DISTRIBUTIVE CONTROL SYSTEM - PROCESS COMPUTER
HEP 1A	8/4/2015	PPO	1.40	64.0	INTAKE GRATING FOULING
HEP 1A	9/25/2015	PPO	1.33	68.0	INTAKE GRATING FOULING
HEP 1A	10/27/2015	PPO	3.00	68.0	INTAKE GRATING FOULING
HEP 1B	1/1/2015	PPO	1.80	66.0	INTAKE GRATING FOULING
HEP 1B	1/12/2015	FMO	5.00	151.0	OTHER LP STEAM SYSTEM PROBLEMS
HEP 1B	2/21/2015	PO	1339.33	151.0	GAS TURBINE - HIGH PRESSURE TURBINE SHAFT
HEP 1B	4/17/2015	FFO	4.98	151.0	BLADE PATH TEMPERATURE SPREAD
HEP 1B	5/12/2015	FFO	3.00	151.0	SERVICE AIR COMPRESSORS
HEP 1B	6/6/2015	PPO	1.83	65.0	INTAKE GRATING FOULING
HEP 1B	6/30/2015	PPO	1.00	64.0	INTAKE GRATING FOULING
HEP 1B	7/3/2015	PPO	1.42	68.9	INTAKE GRATING FOULING
HEP 1B	7/22/2015	FFO	5.50	151.0	GAS TURBINE - COOLING AND SEAL AIR SYSTEM
HEP 1B	7/22/2015	FFO	20.00	151.0	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
HEP 1B	7/26/2015	FFO	22.65	151.0	DISTRIBUTIVE CONTROL SYSTEM - PROCESS COMPUTER
HEP 1B	8/4/2015	PPO	1.40	64.0	INTAKE GRATING FOULING
HEP 1B	8/18/2015	FFO	3.33	151.0	GAS TURBINE - CONTROLS AND INSTRUMENTS
HEP 1B	8/18/2015	FFO	2.12	151.0	GAS TURBINE - IGNITION SYSTEM
HEP 1B	8/19/2015	FFO	14.27	151.0	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
HEP 1B	8/24/2015	FFO	9.13	151.0	GAS TURBINE COMPRESSOR - BLEED VALVES

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ACTUAL UNIT EVENT DATA -- January - November 2015

Hines Power Block 1

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 1B	9/25/2015	PPO	1.33	69.0	INTAKE GRATING FOULING
HEP 1B	10/27/2015	PPO	3.00	68.0	INTAKE GRATING FOULING
HEP 1B	11/14/2015	FFO	3.27	151.0	OTHER GAS TURBINE FUEL SYSTEM PROBLEMS
HEP ST1	1/1/2015	PPO	1.80	66.0	INTAKE GRATING FOULING
HEP ST1	1/11/2015	PMO	44.08	72.0	OTHER LOW PRESSURE TURBINE PROBLEMS
HEP ST1	2/21/2015	PO	1323.22	160.0	INSPECTION
HEP ST1	4/17/2015	FFO	17.20	160.0	TURBINE SUPERVISORY SYSTEM
HEP ST1	6/6/2015	PPO	1.83	50.0	INTAKE GRATING FOULING
HEP ST1	6/30/2015	PPO	1.00	47.0	INTAKE GRATING FOULING
HEP ST1	7/3/2015	PPO	1.42	55.0	INTAKE GRATING FOULING
HEP ST1	7/22/2015	PFO	5.50	89.0	GAS TURBINE - COOLING AND SEAL AIR SYSTEM
HEP ST1	7/22/2015	PFO	19.98	89.0	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
HEP ST1	7/26/2015	FFO	22.65	160.0	DISTRIBUTIVE CONTROL SYSTEM - PROCESS COMPUTER
HEP ST1	8/4/2015	PPO	1.60	53.0	INTAKE GRATING FOULING
HEP ST1	8/18/2015	PFO	3.33	86.0	GAS TURBINE - CONTROLS AND INSTRUMENTS
HEP ST1	8/19/2015	PFO	14.27	73.0	GAS TURBINE COMPRESSOR - BLEED VALVES
HEP ST1	8/24/2015	PFO	14.02	89.0	GAS TURBINE COMPRESSOR - BLEED VALVES
HEP ST1	9/25/2015	PPO	1.33	50.1	INTAKE GRATING FOULING
HEP ST1	10/27/2015	PPO	3.00	49.0	INTAKE GRATING FOULING

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ACTUAL UNIT EVENT DATA -- January - November 2015

Hines Power Block 2

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 2A	1/1/2015	FFO	3563.92	154.0	MAJOR TURBINE OVERHAUL (720 HOURS OR LONGER)
HEP 2A	5/29/2015	FFO	18.50	154.0	MAJOR TURBINE OVERHAUL (720 HOURS OR LONGER)
HEP 2A	5/30/2015	FFO	252.22	154.0	MAJOR TURBINE OVERHAUL (720 HOURS OR LONGER)
HEP 2A	6/9/2015	FFO	2.40	154.0	IP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP 2A	6/10/2015	FFO	81.70	154.0	OTHER HP STEAM VALVES
HEP 2A	6/13/2015	FFO	11.58	154.0	DESUPERHATER/ATTEMPERATOR INSTRUMENTS (NOT LOCAL)
HEP 2A	6/16/2015	FFO	25.33	154.0	CONDENSATE/HOTWELL PUMPS
HEP 2A	6/18/2015	FFO	8.83	154.0	OTHER INTERMEDIATE PRESSURE TURBINE PROBLEMS
HEP 2A	6/22/2015	PPO	2.00	55.0	CIRCULATING WATER BIOLOGICAL CONDITIONS (EG; ZEBRA MUSSELS)
HEP 2A	7/3/2015	PPO	1.50	47.0	CIRCULATING WATER BIOLOGICAL CONDITIONS (EG; ZEBRA MUSSELS)
HEP 2A	7/31/2015	PPO	1.28	47.1	INTAKE GRATING FOULING
HEP 2A	8/11/2015	PPO	1.97	56.0	INTAKE GRATING FOULING
HEP 2A	8/26/2015	PPO	1.50	46.0	INTAKE GRATING FOULING
HEP 2A	8/28/2015	PPO	1.00	52.1	INTAKE GRATING FOULING
HEP 2A	9/7/2015	PPO	1.12	56.0	INTAKE GRATING FOULING
HEP 2A	10/27/2015	PPO	2.75	38.0	INTAKE GRATING FOULING
HEP 2B	1/1/2015	FFO	3518.42	154.0	MAJOR TURBINE OVERHAUL (720 HOURS OR LONGER)
HEP 2B	5/27/2015	FFO	309.05	154.0	MAJOR TURBINE OVERHAUL (720 HOURS OR LONGER)
HEP 2B	6/9/2015	FFO	21.53	154.0	HP DRUM
HEP 2B	6/10/2015	FFO	21.32	154.0	OTHER MAIN STEAM VALVES (INCLUDING VENT AND DRAIN.
HEP 2B	6/11/2015	FFO	1.00	154.0	CONDENSATE/HOTWELL PUMP MOTOR
HEP 2B	6/11/2015	FFO	62.33	154.0	CONDENSATE SYSTEM CONTROLS AND INSTRUMENTATION
HEP 2B	6/14/2015	FFO	10.25	154.0	HP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP 2B	6/16/2015	FFO	24.50	154.0	IP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP 2B	6/18/2015	FFO	8.93	154.0	OTHER INTERMEDIATE PRESSURE TURBINE PROBLEMS
HEP 2B	6/22/2015	PPO	2.00	55.0	CIRCULATING WATER BIOLOGICAL CONDITIONS (EG; ZEBRA MUSSELS)
HEP 2B	7/3/2015	PPO	1.50	47.0	INTAKE GRATING FOULING

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ACTUAL UNIT EVENT DATA -- January - November 2015

Hines Power Block 2

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 2B	7/31/2015	PPO	1.28	47.1	INTAKE GRATING FOULING
HEP 2B	8/11/2015	PPO	1.97	56.0	INTAKE GRATING FOULING
HEP 2B	8/26/2015	PPO	1.50	44.0	INTAKE GRATING FOULING
HEP 2B	8/28/2015	PPO	1.00	53.0	INTAKE GRATING FOULING
HEP 2B	9/7/2015	PPO	1.12	56.0	INTAKE GRATING FOULING
HEP 2B	10/10/2015	FFO	44.75	154.0	OTHER MAIN STEAM VALVES (INCLUDING VENT AND DRAIN.
HEP 2B	10/27/2015	PPO	2.75	38.0	INTAKE GRATING FOULING
HEP ST2	1/1/2015	FFO	4023.87	182.0	MAJOR TURBINE OVERHAUL (720 HOURS OR LONGER)
HEP ST2	6/17/2015	FFO	15.95	182.0	OTHER INTERMEDIATE PRESSURE TURBINE PROBLEMS
HEP ST2	6/22/2015	PPO	2.00	44.0	CIRCULATING WATER BIOLOGICAL CONDITIONS (EG; ZEBRA MUSSELS)
HEP ST2	7/3/2015	PPO	1.50	44.0	CIRCULATING WATER BIOLOGICAL CONDITIONS (EG; ZEBRA MUSSELS)
HEP ST2	7/31/2015	PPO	1.28	44.0	INTAKE GRATING FOULING
HEP ST2	8/11/2015	PPO	1.97	44.0	INTAKE GRATING FOULING
HEP ST2	8/26/2015	PPO	1.50	42.0	INTAKE GRATING FOULING
HEP ST2	8/28/2015	PPO	1.00	52.1	INTAKE GRATING FOULING
HEP ST2	9/7/2015	PPO	1.12	44.0	INTAKE GRATING FOULING
HEP ST2	10/10/2015	PFO	44.75	104.0	OTHER MAIN STEAM VALVES (INCLUDING VENT AND DRAIN.
HEP ST2	10/27/2015	PPO	2.75	42.0	INTAKE GRATING FOULING

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ACTUAL UNIT EVENT DATA -- January - November 2015

Hines Power Block 3

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 3A	1/20/2015	FFO	6.47	155.0	GENERATOR VOLTAGE SUPPLY SYSTEM
HEP 3A	1/27/2015	FFO	6.75	155.0	GAS TURBINE - CONTROLS AND INSTRUMENTS
HEP 3A	1/28/2015	FFO	5.50	155.0	GAS TURBINE VIBRATION
HEP 3A	3/29/2015	PPO	1.25	37.0	CONDENSER TUBE SHEET FOULING
HEP 3A	4/18/2015	PO	490.28	155.0	GAS TURBINE - BOROSCOPE INSPECTION
HEP 3A	5/9/2015	FFO	15.42	155.0	START-UP FEEDWATER PUMP
HEP 3A	5/10/2015	FFO	0.25	155.0	START-UP FEEDWATER PUMP
HEP 3A	5/23/2015	PPO	5.50	42.0	INTAKE GRATING FOULING
HEP 3A	6/4/2015	PPO	6.08	49.0	CONDENSER TUBE AND WATER BOX CLEANING
HEP 3A	7/4/2015	PPO	1.33	43.0	INTAKE GRATING FOULING
HEP 3A	7/7/2015	PFO	7.75	34.0	CIRCULATING WATER PUMP MOTORS
HEP 3A	7/23/2015	PPO	1.35	43.1	INTAKE GRATING FOULING
HEP 3A	7/28/2015	FFO	17.42	155.0	GENERATOR VOLTAGE CONTROL
HEP 3A	7/28/2015	FFO	0.70	155.0	FEEDWATER REGULATING (BOILER LEVEL CONTROL) VALVE
HEP 3A	8/27/2015	PPO	1.17	44.0	INTAKE GRATING FOULING
HEP 3A	9/14/2015	FMO	10.00	155.0	OTHER HP STEAM VALVES
HEP 3A	9/24/2015	PPO	4.75	45.0	CONDENSER TUBE AND WATER BOX CLEANING
HEP 3A	10/30/2015	PPO	1.30	42.0	INTAKE GRATING FOULING
HEP 3B	1/20/2015	FFO	6.42	155.0	GENERATOR VOLTAGE SUPPLY SYSTEM
HEP 3B	1/27/2015	FFO	2.57	155.0	FEEDWATER PUMP
HEP 3B	1/27/2015	FFO	4.45	155.0	FEEDWATER PUMP
HEP 3B	3/29/2015	PPO	1.25	37.0	CONDENSER TUBE SHEET FOULING
HEP 3B	4/18/2015	PO	492.22	155.0	GAS TURBINE - BOROSCOPE INSPECTION
HEP 3B	5/9/2015	FFO	0.25	155.0	FEEDWATER REGULATING (BOILER LEVEL CONTROL) VALVE
HEP 3B	5/9/2015	FFO	24.25	155.0	FEEDWATER REGULATING (BOILER LEVEL CONTROL) VALVE
HEP 3B	5/10/2015	FFO	31.67	155.0	FEEDWATER REGULATING (BOILER LEVEL CONTROL) VALVE
HEP 3B	5/12/2015	FFO	2.17	155.0	BLADE PATH TEMPERATURE SPREAD

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ACTUAL UNIT EVENT DATA -- January - November 2015

Hines Power Block 3

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 3B	5/12/2015	FFO	20.08	155.0	NOX STACK EMISSIONS - GAS TURBINE UNITS
HEP 3B	5/23/2015	PPO	5.50	42.0	INTAKE GRATING FOULING
HEP 3B	6/4/2015	PPO	6.08	48.0	CONDENSER TUBE AND WATER BOX CLEANING
HEP 3B	7/4/2015	PPO	1.33	42.0	INTAKE GRATING FOULING
HEP 3B	7/7/2015	PFO	7.75	33.0	CIRCULATING WATER PUMP MOTORS
HEP 3B	7/23/2015	PMO	1.35	42.0	INTAKE GRATING FOULING
HEP 3B	8/27/2015	PPO	1.17	39.0	INTAKE GRATING FOULING
HEP 3B	9/24/2015	PPO	4.75	45.0	CONDENSER TUBE AND WATER BOX CLEANING
HEP 3B	10/30/2015	PPO	1.30	42.0	INTAKE GRATING FOULING
HEP 3B	11/27/2015	FFO	41.00	155.0	FEEDWATER PUMP
HEP ST3	1/20/2015	FFO	6.45	178.0	GENERATOR VOLTAGE SUPPLY SYSTEM
HEP ST3	1/27/2015	FFO	10.15	178.0	FEEDWATER PUMP
HEP ST3	3/29/2015	PPO	1.25	30.0	CONDENSER TUBE SHEET FOULING
HEP ST3	4/18/2015	PO	509.67	178.0	INSPECTION
HEP ST3	5/23/2015	PPO	5.50	40.0	INTAKE GRATING FOULING
HEP ST3	6/4/2015	PPO	6.08	25.0	CONDENSER TUBE AND WATER BOX CLEANING
HEP ST3	7/4/2015	PPO	1.33	40.1	INTAKE GRATING FOULING
HEP ST3	7/7/2015	PFO	7.75	40.0	CIRCULATING WATER PUMP MOTORS
HEP ST3	7/23/2015	PPO	1.35	40.0	INTAKE GRATING FOULING
HEP ST3	7/28/2015	PFO	17.42	95.0	GENERATOR VOLTAGE CONTROL
HEP ST3	7/28/2015	PFO	0.70	95.1	FEEDWATER REGULATING (BOILER LEVEL CONTROL) VALVE
HEP ST3	8/27/2015	PPO	1.17	38.0	INTAKE GRATING FOULING
HEP ST3	9/24/2015	PPO	4.75	35.0	CONDENSER TUBE AND WATER BOX CLEANING
HEP ST3	10/30/2015	PPO	1.30	40.0	INTAKE GRATING FOULING

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Hines Power Block 4

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 4A	1/1/2015	PPO	0.95	52.9	INTAKE GRATING FOULING
HEP 4A	1/10/2015	PPO	1.17	48.0	INTAKE GRATING FOULING
HEP 4A	1/22/2015	PPO	1.08	53.0	INTAKE GRATING FOULING
HEP 4A	3/28/2015	PPO	1.75	45.0	CONDENSER TUBE SHEET FOULING
HEP 4A	4/19/2015	FFO	2.80	151.0	4000-7000-VOLT CIRCUIT BREAKERS
HEP 4A	4/19/2015	FFO	29.62	151.0	OTHER TURBINE VALVES
HEP 4A	4/21/2015	FFO	1.12	151.0	TURBINE SUPERVISORY SYSTEM
HEP 4A	4/21/2015	FFO	1.12	151.0	HP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP 4A	5/4/2015	FFO	17.08	151.0	4000-7000-VOLT CIRCUIT BREAKERS
HEP 4A	6/20/2015	PPO	5.00	38.0	GAS TURBINE PERFORMANCE TESTING - INDIVID. ENGINES
HEP 4A	6/20/2015	PPO	6.00	38.0	CIRCULATING WATER BIOLOGICAL CONDITIONS (EG; ZEBRA MUSSELS)
HEP 4A	6/21/2015	PPO	5.25	38.0	CIRCULATING WATER BIOLOGICAL CONDITIONS (EG; ZEBRA MUSSELS)
HEP 4A	7/5/2015	PPO	10.00	35.0	CIRCULATING WATER BIOLOGICAL CONDITIONS (EG; ZEBRA MUSSELS)
HEP 4A	7/5/2015	PPO	9.50	37.0	CIRCULATING WATER BIOLOGICAL CONDITIONS (EG; ZEBRA MUSSELS)
HEP 4A	7/16/2015	PPO	0.73	38.1	INTAKE GRATING FOULING
HEP 4A	7/21/2015	PPO	1.40	38.0	INTAKE GRATING FOULING
HEP 4A	8/3/2015	PPO	1.15	37.9	INTAKE GRATING FOULING
HEP 4A	8/27/2015	PPO	0.83	40.1	INTAKE GRATING FOULING
HEP 4A	9/10/2015	PPO	1.00	42.0	INTAKE GRATING FOULING
HEP 4A	10/1/2015	PPO	10.17	38.0	CONDENSER TUBE AND WATER BOX CLEANING
HEP 4A	10/2/2015	PPO	2.85	19.0	HEAT RECOVERY STEAM GENERATOR TO GAS TURBINE CON..
HEP 4A	10/3/2015	PO	1417.00	151.0	GAS TURBINE - HIGH PRESSURE TURBINE SHAFT
HEP 4B	1/1/2015	PPO	0.95	52.9	INTAKE GRATING FOULING
HEP 4B	1/10/2015	PPO	1.17	48.0	INTAKE GRATING FOULING
HEP 4B	1/22/2015	PPO	1.08	53.0	INTAKE GRATING FOULING
HEP 4B	3/28/2015	PPO	1.75	47.0	CONDENSER TUBE SHEET FOULING
HEP 4B	4/19/2015	FFO	2.80	151.0	4000-7000-VOLT CIRCUIT BREAKERS

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Hines Power Block 4

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 4B	4/19/2015	FFO	29.62	151.0	OTHER TURBINE VALVES
HEP 4B	5/4/2015	FFO	7.50	151.0	4000-7000-VOLT CIRCUIT BREAKERS
HEP 4B	5/8/2015	FFO	6.22	151.0	GAS TURBINE CONTROL SYSTEM - DATA HIGHWAY
HEP 4B	6/7/2015	FFO	3.17	151.0	OTHER GAS TURBINE EXHAUST PROBLEMS
HEP 4B	6/14/2015	FFO	2.08	151.0	OTHER GAS TURBINE EXHAUST PROBLEMS
HEP 4B	6/20/2015	PPO	5.00	38.0	GAS TURBINE PERFORMANCE TESTING - INDIVID. ENGINES
HEP 4B	6/20/2015	PPO	6.00	38.0	CIRCULATING WATER BIOLOGICAL CONDITIONS (EG; ZEBRA MUSSELS)
HEP 4B	6/21/2015	PPO	5.25	38.0	CIRCULATING WATER BIOLOGICAL CONDITIONS (EG; ZEBRA MUSSELS)
HEP 4B	7/5/2015	PPO	10.00	35.0	CIRCULATING WATER BIOLOGICAL CONDITIONS (EG; ZEBRA MUSSELS)
HEP 4B	7/5/2015	PPO	9.50	38.0	CIRCULATING WATER BIOLOGICAL CONDITIONS (EG; ZEBRA MUSSELS)
HEP 4B	7/16/2015	PPO	0.73	38.1	INTAKE GRATING FOULING
HEP 4B	7/21/2015	PPO	1.40	38.0	INTAKE GRATING FOULING
HEP 4B	8/3/2015	PPO	1.15	37.9	INTAKE GRATING FOULING
HEP 4B	8/27/2015	PPO	0.83	41.0	INTAKE GRATING FOULING
HEP 4B	9/10/2015	PPO	1.00	42.0	INTAKE GRATING FOULING
HEP 4B	10/1/2015	PPO	10.17	38.0	CONDENSER TUBE AND WATER BOX CLEANING
HEP 4B	10/2/2015	PPO	2.85	19.0	HEAT RECOVERY STEAM GENERATOR TO GAS TURBINE CON..
HEP 4B	10/3/2015	PO	488.83	151.0	GENERAL GAS TURBINE UNIT INSPECTION
HEP ST4	1/1/2015	PPO	0.93	46.1	INTAKE GRATING FOULING
HEP ST4	1/10/2015	PPO	1.17	52.0	INTAKE GRATING FOULING
HEP ST4	1/22/2015	PPO	1.08	46.0	INTAKE GRATING FOULING
HEP ST4	3/28/2015	PPO	1.75	32.0	CONDENSER TUBE SHEET FOULING
HEP ST4	4/19/2015	FFO	2.80	170.0	4000-7000-VOLT CIRCUIT BREAKERS
HEP ST4	4/19/2015	FFO	29.62	170.0	OTHER TURBINE VALVES
HEP ST4	5/4/2015	FFO	7.50	170.0	4000-7000-VOLT CIRCUIT BREAKERS
HEP ST4	5/8/2015	FFO	1.20	170.0	GAS TURBINE CONTROL SYSTEM - DATA HIGHWAY
HEP ST4	6/7/2015	PFO	3.17	90.0	OTHER GAS TURBINE EXHAUST PROBLEMS

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Hines Power Block 4

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP ST4	6/20/2015	PPO	5.00	28.0	GAS TURBINE PERFORMANCE TESTING - INDIVID. ENGINES
HEP ST4	6/20/2015	PPO	6.00	28.0	CIRCULATING WATER BIOLOGICAL CONDITIONS (EG; ZEBRA MUSSELS)
HEP ST4	6/21/2015	PPO	5.25	28.0	CIRCULATING WATER BIOLOGICAL CONDITIONS (EG; ZEBRA MUSSELS)
HEP ST4	7/5/2015	PPO	10.00	32.0	CIRCULATING WATER BIOLOGICAL CONDITIONS (EG; ZEBRA MUSSELS)
HEP ST4	7/5/2015	PPO	9.50	26.0	CIRCULATING WATER BIOLOGICAL CONDITIONS (EG; ZEBRA MUSSELS)
HEP ST4	7/16/2015	PPO	0.73	32.0	INTAKE GRATING FOULING
HEP ST4	7/21/2015	PPO	1.40	32.1	INTAKE GRATING FOULING
HEP ST4	8/3/2015	PPO	1.15	44.9	INTAKE GRATING FOULING
HEP ST4	8/27/2015	PPO	0.83	32.0	INTAKE GRATING FOULING
HEP ST4	9/10/2015	PPO	1.00	34.0	INTAKE GRATING FOULING
HEP ST4	10/1/2015	PPO	10.17	34.0	CONDENSER TUBE AND WATER BOX CLEANING
HEP ST4	10/2/2015	PPO	2.85	14.0	HEAT RECOVERY STEAM GENERATOR TO GAS TURBINE CON..
HEP ST4	10/3/2015	PO	491.17	170.0	INSPECTION