



DIANNE M. TRIPLETT  
ASSOCIATE GENERAL COUNSEL

September 23, 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 August 2015

Dear Ms. Stauffer:

Enclosed for filing in the above docket is Duke Energy Florida, LLC's Performance Data Report for August 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, LLC**

**CERTIFICATE OF SERVICE**

Docket No. 150001-EI

I HEREBY CERTIFY that a true copy of Duke Energy Florida, LLC's Performance Data Report for the month of August 2015 has been furnished to the following individuals via e-mail on this 23<sup>rd</sup> day of September, 2015.



Attorney

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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 - Aug Period
1. EAF	91.68	93.44	56.55	87.01	96.26	97.92	97.44	100.00					89.98
2. PH	744	672	743	720	744	720	744	744					5,831
3. SH	669.9	591.6	406.2	614.5	726.7	692.3	716.8	733.7					5,151.6
4. RSH	12.2	36.4	14.0	12.0	0.6	14.7	13.8	10.3					113.9
5. UH	61.9	44.1	322.9	93.5	16.8	13.1	13.4	0.0					565.5
6. POH	58.3	0.5	222.8	80.9	0.0	0.0	0.0	0.0					362.4
7. FOH	0.0	0.0	0.0	12.6	1.5	0.7	9.6	0.0					24.4
8. MOH	3.6	43.7	100.1	0.0	15.3	12.5	3.8	0.0					178.8
9. PPOH	0.0	0.0	0.0	3.6	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					1.0
11. PFOH	0.0	0.0	0.0	0.0	57.3	14.9	44.4	0.0					116.6
12. LR PF (MW)	0.0	0.0	0.0	0.0	119.1	137.6	137.5	0.0					128.5
13. PMOH	0.0	0.0	0.0	3.4	34.8	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					134.0
15. NSC (MW)	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					37,050,850
17. NET GEN (MWH)	670,768	556,814	368,790	666,724	679,053	691,381	550,583	640,066					4,824,179
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					7,680.2
19. NOF (%)	84.50	79.43	76.62	101.02	87.01	92.99	71.52	81.22					84.37
20. NPC (MW)	1076	1076	1076	1076	1076	1076	1076	1076					1076

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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 - Aug Period
1. EAF	90.53	99.17	98.74	96.48	89.10	93.62	99.95	98.20					95.69
2. PH	744	672	743	720	744	720	744	744					5,831
3. SH	674.9	672.0	743.0	720.0	693.0	681.8	744.0	744.0					5,672.7
4. RSH	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					158.4
6. POH	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
8. MOH	69.1	0.0	0.0	0.0	51.1	38.2	0.0	0.0					158.4
9. PPOH	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
11. PFOH	0.0	17.4	10.3	19.7	0.0	8.3	0.0	21.4					77.0
12. LR PF (MW)	0.0	220.6	167.3	336.1	0.0	335.2	0.0	252.8					264.3
13. PMOH	10.5	1.5	18.2	128.0	238.7	34.0	4.0	20.7					455.6
14. LR PM (MW)	93.0	93.2	271.9	89.2	89.6	80.6	65.0	198.8					100.9
15. NSC (MW)	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					30,183,130
17. NET GEN (MWH)	332,848	319,716	412,868	398,291	351,041	349,885	380,025	359,740					2,904,414
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					10,392.2
19. NOF (%)	69.26	66.82	78.04	77.69	71.15	72.08	71.74	67.91					71.91
20. NPC (MW)	712	712	712	712	712	712	712	712					712

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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 - Aug Period
1. EAF	100.00	99.64	98.87	91.76	97.54	99.45	99.86	98.34					98.19
2. PH	744	672	743	720	744	720	744	744					5,831
3. SH	75.3	404.0	743.0	670.1	744.0	720.0	744.0	744.0					4,844.4
4. RSH	668.7	268.0	0.0	0.0	0.0	0.0	0.0	0.0					936.7
5. UH	0.0	0.0	0.0	49.9	0.0	0.0	0.0	0.0					49.9
6. POH	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	49.9	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
9. PPOH	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
11. PFOH	0.0	0.0	17.0	28.3	0.0	0.0	0.0	41.8					87.1
12. LR PF (MW)	0.0	0.0	91.0	88.4	0.0	0.0	0.0	174.5					130.3
13. PMOH	0.0	3.7	24.9	53.0	65.3	33.6	12.0	18.0					210.4
14. LR PM (MW)	0.0	471.6	177.5	78.5	199.4	83.6	63.0	80.3					134.7
15. NSC (MW)	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					25,947,228
17. NET GEN (MWH)	43,107	198,635	422,693	381,022	406,415	367,972	364,092	354,509					2,538,445
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					10,221.7
19. NOF (%)	80.61	69.25	80.13	80.09	76.94	71.98	68.93	67.11					73.80
20. NPC (MW)	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 - Aug Period
1. EAF	99.50	71.61	0.00	43.94	95.97	100.00	95.61	98.47					75.74
2. PH	744	672	743	720	744	720	744	744					5,831
3. SH	737.1	478.5	0.0	316.3	714.0	720.0	706.5	732.2					4,404.7
4. RSH	5.2	2.8	0.0	0.0	0.0	0.0	6.5	2.4					16.9
5. UH	1.6	190.8	743.0	403.7	30.0	0.0	31.0	9.4					1,409.4
6. POH	0.0	190.8	743.0	392.0	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					53.0
8. MOH	1.6	0.0	0.0	0.0	29.0	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					7.5
10. LR PP (MW)	66.0	0.0	0.0	0.0	0.0	59.1	63.7	59.8					61.7
11. PFOH	0.0	0.0	0.0	0.0	0.0	0.0	8.8	11.0					19.8
12. LR PF (MW)	0.0	0.0	0.0	0.0	0.0	0.0	89.1	81.5					84.8
13. PMOH	15.3	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					72.0
15. NSC (MW)	528	528	528	462	462	462	462	462					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					14,353,028
17. NET GEN (MWH)	338,209	229,988	0	140,888	312,850	310,748	309,357	311,702					1,953,742
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					7,346.4
19. NOF (%)	86.90	91.03	0.00	96.40	94.84	93.42	94.77	92.15					92.37
20. NPC (MW)	528	528	528	462	462	462	462	462					528

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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 - Aug Period
1. EAF	0.00	0.00	0.00	0.00	0.25	47.87	100.00	100.00					31.46
2. PH	744	672	743	720	744	720	744	744					5,831
3. SH	0.0	0.0	0.0	0.0	1.8	344.7	744.0	744.0					1,834.5
4. RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					0.0
5. UH	744.0	672.0	743.0	720.0	742.2	375.3	0.0	0.0					3,996.5
6. POH	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					3,996.5
8. MOH	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					9.3
10. LR PP (MW)	0.0	0.0	0.0	0.0	0.0	50.9	45.9	49.1					48.5
11. PFOH	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
13. PMOH	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
15. NSC (MW)	563	563	563	490	490	490	490	490					563
16. OPER MBTU	0	0	0	0	1,844	1,249,778	2,495,954	2,412,473					6,160,050
17. NET GEN (MWH)	0	0	0	0	0	157,237	349,214	341,647					848,098
18. ANOHR (BTU/KWH)	0.0	0.0	0.0	0.0	0.0	7,948.4	7,147.3	7,061.3					7,263.4
19. NOF (%)	0.00	0.00	0.00	0.00	0.00	93.10	95.79	93.71					94.27
20. NPC (MW)	563	563	563	490	490	490	490	490					563

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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 - Aug Period
1. EAF	97.81	100.00	100.00	59.68	68.07	100.00	98.97	100.00					90.54
2. PH	744	672	743	720	744	720	744	744					5,831
3. SH	686.9	672.0	743.0	429.7	506.4	720.0	738.2	744.0					5,240.3
4. RSH	40.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0					40.8
5. UH	16.3	0.0	0.0	290.3	237.6	0.0	5.8	0.0					549.9
6. POH	0.0	0.0	0.0	290.3	207.7	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					51.9
8. MOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					0.0
9. PPOH	0.0	0.0	1.3	0.0	5.5	6.1	2.3	1.2					16.3
10. LR PP (MW)	0.0	0.0	34.4	0.0	41.3	40.0	41.6	40.1					40.2
11. PFOH	0.0	0.0	0.0	0.0	0.0	0.0	14.4	0.0					14.4
12. LR PF (MW)	0.0	0.0	0.0	0.0	0.0	0.0	63.1	0.0					63.1
13. PMOH	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0					0.4
14. LR PM (MW)	0.0	0.0	0.0	0.0	0.0	0.0	41.9	0.0					41.9
15. NSC (MW)	564	564	564	488	488	488	488	488					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					17,584,801
17. NET GEN (MWH)	327,307	336,232	367,462	204,252	224,249	329,233	340,964	340,761					2,470,460
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					7,118.0
19. NOF (%)	84.48	88.71	87.69	97.40	90.74	93.70	94.64	93.85					90.93
20. NPC (MW)	564	564	564	488	488	488	488	488					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 - Aug Period
1. EAF	100.00	100.00	100.00	95.40	98.25	99.74	100.00	100.00					99.18
2. PH	744	672	743	720	744	720	744	744					5,831
3. SH	732.4	639.2	743.0	686.9	731.0	698.0	744.0	744.0					5,718.5
4. RSH	11.6	32.8	0.0	0.0	0.0	20.3	0.0	0.0					64.7
5. UH	0.0	0.0	0.0	33.1	13.0	1.7	0.0	0.0					47.8
6. POH	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	33.1	13.0	1.7	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
9. PPOH	3.2	0.0	1.8	0.0	0.0	16.3	21.6	2.0					44.8
10. LR PP (MW)	50.2	0.0	41.0	0.0	0.0	34.4	33.9	39.3					35.7
11. PFOH	0.0	0.0	0.0	0.0	0.0	1.1	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					90.0
13. PMOH	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
15. NSC (MW)	544	544	544	472	472	472	472	472					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					19,079,488
17. NET GEN (MWH)	359,310	308,121	367,129	319,896	339,415	308,507	347,039	345,023					2,694,440
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					7,081.1
19. NOF (%)	90.18	88.61	90.83	98.67	98.37	93.64	98.82	98.25					94.50
20. NPC (MW)	544	544	544	472	472	472	472	472					544

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - August 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 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 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
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 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

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - August 2015

Bartow CC

Unit	Date	Outage Type	Hours	MW Affected	Description
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 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..
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.

**Duke Energy Florida**

**ACTUAL UNIT EVENT DATA -- January - August 2015**

**Crystal River 4**

<b>Date</b>	<b>Outage Type</b>	<b>Hours</b>	<b>MW Affected</b>	<b>Description</b>
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 - August 2015**

**Crystal River 4**

<b>Date</b>	<b>Outage Type</b>	<b>Hours</b>	<b>MW Affected</b>	<b>Description</b>
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)

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - August 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 - August 2015**

**Crystal River 5**

<b>Date</b>	<b>Outage Type</b>	<b>Hours</b>	<b>MW Affected</b>	<b>Description</b>
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)

**Duke Energy Florida**

**ACTUAL UNIT EVENT DATA -- January - August 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 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
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



**Duke Energy Florida**

**ACTUAL UNIT EVENT DATA -- January - August 2015**

**Hines Power Block 1**

<b>Unit</b>	<b>Date</b>	<b>Outage Type</b>	<b>Hours</b>	<b>MW Affected</b>	<b>Description</b>
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

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - August 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 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
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

**Duke Energy Florida**

**ACTUAL UNIT EVENT DATA -- January - August 2015**

**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 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 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

**Duke Energy Florida**

**ACTUAL UNIT EVENT DATA -- January - August 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 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
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

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - August 2015

Hines Power Block 3

Unit	Date	Outage Type	Hours	MW Affected	Description
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 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

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - August 2015

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 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
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

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - August 2015

Hines Power Block 4

Unit	Date	Outage Type	Hours	MW Affected	Description
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 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
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

**Duke Energy Florida**

**ACTUAL UNIT EVENT DATA -- January - August 2015**

**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	8/27/2015	PPO	0.83	32.0	INTAKE GRATING FOULING