



MATTHEW R. BERNIER  
SENIOR COUNSEL

June 27, 2017

**VIA ELECTRONIC FILING**

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

Re: Performance Data Report for May 2017 and **Revised** Performance Data Report for April 2017; Docket 170001

Dear Ms. Stauffer:

Attached for filing in the above docket is Duke Energy Florida, LLC's Performance Data Report for May 2017 and DEF's Revised Performance Data Report for April 2017 that contains revisions to the Bartow page.

Please replace Document No. 05064-17 filed on May 25, 2017, with the attached Revised Performance Data Report for April 2017.

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  
Attachments

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

CERTIFICATE OF SERVICE

Docket No. 170001-EI

I HEREBY CERTIFY that a true copy of Duke Energy Florida, LLC's Performance Data Report for the month of May 2017 and Revised Performance Data Report for the Month of April 2017 has been furnished to the following individuals via e-mail on this 27th day of June, 2017.

/s/ Matthew R. Bernier

Attorney

<p>Suzanne S. Brownless Danijela Janjic Office of General Counsel Florida Public Service Commission 2540 Shumard Oak Blvd. Tallahassee, FL 32399-0850 <a href="mailto:sbrownle@psc.state.fl.us">sbrownle@psc.state.fl.us</a> <a href="mailto:djanjic@psc.state.fl.us">djanjic@psc.state.fl.us</a> <a href="mailto:asoete@psc.state.fl.us">asoete@psc.state.fl.us</a></p> <p>James D. Beasley J. Jeffrey Wahlen Ausley McMullen P.O. Box 391 Tallahassee, FL 32302 <a href="mailto:jbeasley@ausley.com">jbeasley@ausley.com</a> <a href="mailto:jwahlen@ausley.com">jwahlen@ausley.com</a></p> <p>Jeffrey A. Stone Russell A. Badders Steven R. Griffin Beggs &amp; Lane P.O. Box 12950 Pensacola, FL 32591 <a href="mailto:jas@beggslane.com">jas@beggslane.com</a> <a href="mailto:rab@beggslane.com">rab@beggslane.com</a> <a href="mailto:srg@beggslane.com">srg@beggslane.com</a></p> <p>James W. Brew Laura A. Wynn Stone Matheis Xenopoulos &amp; Brew 1025 Thomas Jefferson Street, NW 8<sup>th</sup> Floor, West Tower Washington, DC 20007 <a href="mailto:jbrew@smxblaw.com">jbrew@smxblaw.com</a> <a href="mailto:law@smxblaw.com">law@smxblaw.com</a></p>	<p>Mike Cassel, Director Regulatory Affairs Florida Public Utilities Company 1750 S 14<sup>th</sup> Street, Suite 200 Fernandina Beach, FL 32034 <a href="mailto:mcassel@fpuc.com">mcassel@fpuc.com</a></p> <p>Robert L. McGee, Jr. Regulatory and Pricing Manager Gulf Power Company One Energy Place Pensacola, FL 32520-0780 <a href="mailto:rlmcgee@southernco.com">rlmcgee@southernco.com</a></p> <p>Beth Keating Gunster, Yoakley &amp; Stewart, P.A. 215 South Monroe Street, Suite 601 Tallahassee, FL 32301 <a href="mailto:bkeating@gunster.com">bkeating@gunster.com</a></p> <p>Charles J. Rehwinkel / Erik Sayler J.R. Kelly / Patty Christensen Office of Public Counsel c/o The Florida Legislature 111 W. Madison Street, Room 812 Tallahassee, FL 32399-1400 <a href="mailto:rehwinkel.charles@leg.state.fl.us">rehwinkel.charles@leg.state.fl.us</a> <a href="mailto:sayler.erik@leg.state.fl.us">sayler.erik@leg.state.fl.us</a> <a href="mailto:kelly.jr@leg.state.fl.us">kelly.jr@leg.state.fl.us</a> <a href="mailto:christensen.patty@leg.state.fl.us">christensen.patty@leg.state.fl.us</a></p> <p>Robert Scheffel Wright John T. LaVia, III c/o Gardner Law Firm 1300 Thomaswood Drive Tallahassee, FL 32308 <a href="mailto:schef@gbwlegal.com">schef@gbwlegal.com</a> <a href="mailto:jlavia@gbwlegal.com">jlavia@gbwlegal.com</a></p>	<p>Ms. Paula K. Brown Manager, Regulatory Coordination Tampa Electric Company P.O. Box 111 Tampa, FL 33601 <a href="mailto:regdept@tecoenergy.com">regdept@tecoenergy.com</a></p> <p>John T. Butler Maria Jose Moncada Florida Power &amp; Light Company 700 Universe Boulevard (LAW/JB) Juno Beach, FL 33408-0420 <a href="mailto:john.butler@fpl.com">john.butler@fpl.com</a> <a href="mailto:maria.moncada@fpl.com">maria.moncada@fpl.com</a></p> <p>Kenneth Hoffman, Vice President Regulatory Affairs Florida Power &amp; Light Company 215 S. Monroe Street, Suite 810 Tallahassee, FL 32301-1858 <a href="mailto:ken.hoffman@fpl.com">ken.hoffman@fpl.com</a></p> <p>Jon C. Moyle, Jr. Moyle Law Firm, PA 118 North Gadsden Street Tallahassee, FL 32301 <a href="mailto:jmoyle@moylelaw.com">jmoyle@moylelaw.com</a></p>
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Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2017

Bartow CC	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan - May Period
1. EAF	98.62	61.18	54.81	87.21	92.49								79.16
2. PH	744	672	743	720	744								3,623
3. SH	677.0	411.2	365.4	644.2	725.6								2,823.4
4. RSH	67.0	0.0	41.8	0.0	1.7								110.4
5. UH	0.0	260.9	335.8	75.8	16.8								689.2
6. POH	0.0	0.0	41.1	0.0	0.0								41.1
7. FOH	0.0	233.1	292.1	75.8	8.0								608.9
8. MOH	0.0	27.8	2.7	0.0	8.8								39.2
9. PPOH	56.4	0.0	0.0	0.0	0.0								56.4
10. LR PP (MW)	203.1	0.0	0.0	0.0	0.0								203.1
11. PFOH	0.0	0.0	0.0	203.8	521.6								725.4
12. LR PF (MW)	0.0	0.0	0.0	89.8	82.0								84.2
13. PMOH	0.0	0.0	0.0	0.0	22.5								22.5
14. LR PM (MW)	0.0	0.0	0.0	0.0	46.5								46.5
15. NSC (MW)	1120	1120	1120	1120	1120								1120
16. OPER MBTU	4,539,060	2,658,016	3,220,610	4,384,107	5,221,540								20,023,333
17. NET GEN (MWH)	616,163	269,471	286,966	529,238	686,378								2,388,216
18. ANOHR (BTU/KWH)	7,366.7	9,863.8	11,223.0	8,283.8	7,607.4								8,384.2
19. NOF (%)	81.26	58.52	70.11	73.35	84.47								75.52
20. NPC (MW)	1120	1120	1120	1120	1120								1120

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2017

CRYSTAL RIVER 4	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan - May Period
1. EAF	86.49	95.82	93.36	97.90	96.59								93.97
2. PH	744	672	743	720	744								3,623
3. SH	648.7	650.3	696.4	720.0	744.0								3,459.4
4. RSH	0.0	0.0	0.0	0.0	0.0								0.0
5. UH	95.3	21.7	46.6	0.0	0.0								163.6
6. POH	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
8. MOH	95.3	21.7	46.6	0.0	0.0								163.6
9. PPOH	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
11. PFOH	21.1	14.0	13.5	8.4	36.8								93.8
12. LR PF (MW)	155.5	61.9	93.0	89.2	97.2								103.7
13. PMOH	4.5	14.8	7.0	46.0	204.0								276.4
14. LR PM (MW)	93.0	249.0	93.0	217.5	71.0								105.8
15. NSC (MW)	712	712	712	712	712								712
16. OPER MBTU	3,201,197	3,213,960	3,897,728	4,051,925	4,065,264								18,430,074
17. NET GEN (MWH)	311,345	321,341	390,869	417,993	404,965								1,846,513
18. ANOHR (BTU/KWH)	10,281.8	10,001.7	9,972.0	9,693.8	10,038.6								9,981.0
19. NOF (%)	67.41	69.40	78.83	81.54	76.45								74.97
20. NPC (MW)	712	712	712	712	712								712

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2017

CRYSTAL RIVER 5	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan - May Period
1. EAF	99.76	99.71	81.87	76.96	98.67								91.33
2. PH	744	672	743	720	744								3,623
3. SH	744.0	672.0	658.8	607.1	744.0								3,425.9
4. RSH	0.0	0.0	0.0	0.0	0.0								0.0
5. UH	0.0	0.0	84.2	112.9	0.0								197.1
6. POH	0.0	0.0	0.0	0.0	0.0								0.0
7. FOH	0.0	0.0	10.0	112.9	0.0								122.9
8. MOH	0.0	0.0	74.2	0.0	0.0								74.2
9. PPOH	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
11. PFOH	0.0	0.0	6.3	4.3	10.6								21.3
12. LR PF (MW)	0.0	0.0	150.6	91.3	282.1								204.2
13. PMOH	13.8	15.0	384.0	408.7	44.2								865.8
14. LR PM (MW)	91.0	91.0	91.0	91.0	91.0								91.0
15. NSC (MW)	710	710	710	710	710								710
16. OPER MBTU	3,645,405	3,211,345	3,234,019	3,012,117	4,110,218								17,213,103
17. NET GEN (MWH)	358,248	321,503	331,274	318,570	422,498								1,752,093
18. ANOHR (BTU/KWH)	10,175.6	9,988.5	9,762.4	9,455.1	9,728.4								9,824.3
19. NOF (%)	67.82	67.38	70.82	73.91	79.98								72.03
20. NPC (MW)	710	710	710	710	710								710

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2017

HINES Power Block 1	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan - May Period
1. EAF	100.00	99.86	99.12	15.67	84.13								79.77
2. PH	744	672	743	720	744								3,623
3. SH	603.3	672.0	736.4	112.8	514.8								2,639.3
4. RSH	140.7	0.0	0.1	0.0	134.8								275.5
5. UH	0.0	0.0	6.5	607.2	94.4								708.2
6. POH	0.0	0.0	6.5	607.2	61.7								675.4
7. FOH	0.0	0.0	0.0	0.0	32.7								32.7
8. MOH	0.0	0.0	0.0	0.0	0.0								0.0
9. PPOH	0.0	7.5	0.0	0.0	0.0								7.5
10. LR PP (MW)	0.0	57.1	0.0	0.0	0.0								57.1
11. PFOH	0.0	0.0	0.0	0.0	287.4								287.4
12. LR PF (MW)	0.0	0.0	0.0	0.0	36.6								36.6
13. PMOH	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
15. NSC (MW)	445	445	445	445	445								445
16. OPER MBTU	1,613,671	2,095,469	2,367,291	240,309	1,179,897								7,496,637
17. NET GEN (MWH)	236,527	303,529	341,546	32,942	158,770								1,073,314
18. ANOHR (BTU/KWH)	6,822.4	6,903.7	6,931.1	7,294.9	7,431.5								6,984.6
19. NOF (%)	88.10	101.50	104.22	65.63	69.31								91.38
20. NPC (MW)	445	445	445	445	445								445

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2017

HINES Power Block 2	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan - May Period
1. EAF	100.00	100.00	99.98	99.98	99.94								99.98
2. PH	744	672	743	720	744								3,623
3. SH	646.2	419.6	743.0	672.7	744.0								3,225.5
4. RSH	97.8	252.4	0.0	47.3	0.0								397.5
5. UH	0.0	0.0	0.0	0.0	0.0								0.0
6. POH	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
8. MOH	0.0	0.0	0.0	0.0	0.0								0.0
9. PPOH	0.0	0.0	1.5	1.3	5.7								8.5
10. LR PP (MW)	0.0	0.0	39.0	46.4	40.0								40.8
11. PFOH	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
13. PMOH	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
15. NSC (MW)	477	477	477	477	477								477
16. OPER MBTU	2,042,538	1,267,778	2,563,600	2,005,494	2,247,984								10,127,394
17. NET GEN (MWH)	277,273	179,574	368,942	301,569	332,165								1,459,523
18. ANOHR (BTU/KWH)	7,366.5	7,059.9	6,948.5	6,650.2	6,767.7								6,938.8
19. NOF (%)	89.96	89.71	104.10	93.98	93.60								94.86
20. NPC (MW)	477	477	477	477	477								477

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2017

HINES Power Block 3	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan - May Period
1. EAF	96.79	100.00	13.57	100.00	99.85								81.59
2. PH	744	672	743	720	744								3,623
3. SH	419.3	606.7	92.9	694.7	712.0								2,525.6
4. RSH	304.9	65.3	7.9	25.3	31.3								434.6
5. UH	19.9	0.0	642.2	0.0	0.7								662.8
6. POH	0.0	0.0	629.0	0.0	0.0								629.0
7. FOH	0.1	0.0	13.2	0.0	0.7								14.0
8. MOH	19.8	0.0	0.0	0.0	0.0								19.8
9. PPOH	0.0	0.0	0.0	0.0	6.0								6.0
10. LR PP (MW)	0.0	0.0	0.0	0.0	28.6								28.6
11. PFOH	0.1	0.0	0.0	0.0	0.0								0.1
12. LR PF (MW)	84.9	0.0	0.0	0.0	0.0								84.9
13. PMOH	22.7	0.0	0.0	0.0	0.0								22.7
14. LR PM (MW)	83.8	0.0	0.0	0.0	0.0								83.8
15. NSC (MW)	471	471	471	471	471								471
16. OPER MBTU	1,378,484	1,843,655	302,495	1,999,411	2,104,447								7,628,493
17. NET GEN (MWH)	187,937	272,008	38,867	320,313	311,290								1,130,415
18. ANOHR (BTU/KWH)	7,334.8	6,777.9	7,782.8	6,242.1	6,760.4								6,748.4
19. NOF (%)	95.17	95.19	88.79	97.89	92.82								95.03
20. NPC (MW)	471	471	471	471	471								471



Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2017

HINES Power Block 4	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan - May Period
1. EAF	100.00	99.87	100.00	96.13	98.20								98.84
2. PH	744	672	743	720	744								3,623
3. SH	627.8	523.0	743.0	693.4	696.3								3,283.4
4. RSH	116.2	148.3	0.0	0.0	36.8								301.3
5. UH	0.0	0.8	0.0	26.6	10.9								38.2
6. POH	0.0	0.0	0.0	13.8	0.0								13.8
7. FOH	0.0	0.8	0.0	12.8	10.9								24.4
8. MOH	0.0	0.0	0.0	0.0	0.0								0.0
9. PPOH	0.0	0.0	0.0	38.0	0.0								38.0
10. LR PP (MW)	0.0	0.0	0.0	15.5	0.0								15.5
11. PFOH	0.0	0.8	0.0	0.0	12.3								13.1
12. LR PF (MW)	0.0	80.6	0.0	0.0	93.5								92.7
13. PMOH	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
15. NSC (MW)	454	454	454	454	454								454
16. OPER MBTU	2,189,339	1,654,101	2,418,596	2,019,129	1,889,923								10,171,087
17. NET GEN (MWH)	302,283	247,902	367,494	323,783	295,301								1,536,763
18. ANOHR (BTU/KWH)	7,242.7	6,672.4	6,581.3	6,236.1	6,400.0								6,618.5
19. NOF (%)	106.06	104.42	108.94	102.85	93.41								103.09
20. NPC (MW)	454	454	454	454	454								454

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - May 2017

Bartow CC

Unit	Date	Outage Type	Hours	MW Affected	Description
BCC 4A	1/24/2017	PPO	40.52	25.3	NOX STACK EMISSIONS - GAS TURBINE UNITS
BCC 4A	3/4/2017	PO	270.00	170.3	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
BCC 4A	5/13/2017	FMO	57.82	170.3	BLADE PATH TEMPERATURE SPREAD
BCC 4B	1/26/2017	PPO	11.00	26.3	NOX STACK EMISSIONS - GAS TURBINE UNITS
BCC 4B	2/15/2017	FFO	48.02	171.3	GAS TURBINE - DIVERTER DAMPERS
BCC 4B	2/17/2017	FMO	70.97	171.3	GAS TURBINE - TURNING GEAR AND MOTOR
BCC 4B	2/24/2017	FMO	87.00	171.3	SOLID STATE EXCITER ELEMENT
BCC 4B	2/28/2017	FFO	14.98	171.3	LOW PRESSURE COMPRESSURE BLEED VALVES
BCC 4B	3/7/2017	FMO	17.30	171.3	BLADE PATH TEMPERATURE SPREAD
BCC 4B	5/16/2017	FFO	45.32	171.3	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
BCC 4B	5/18/2017	FFO	6.73	171.3	FIRE PROTECTION SYSTEM INSTRUMENTATION AND CONTROL
BCC 4B	5/29/2017	FFO	0.32	171.3	GAS TURBINE PERFORMANCE TESTING - INDIVID. ENGINES
BCC 4C	1/27/2017	PPO	35.00	29.3	NOX STACK EMISSIONS - GAS TURBINE UNITS
BCC 4D	1/28/2017	PPO	35.00	24.3	NOX STACK EMISSIONS - GAS TURBINE UNITS
BCC 4D	2/14/2017	FMO	24.02	169.3	GAS TURBINE - FUEL PIPING AND VALVES
BCC 4D	3/15/2017	FFO	2.00	169.3	BLADE PATH TEMPERATURE SPREAD
BCC 4D	3/23/2017	FFO	7.00	169.3	BLADE PATH TEMPERATURE SPREAD
BCC 4D	3/28/2017	FFO	15.00	169.3	OTHER GAS TURBINE PROBLEMS
BCC 4S	1/24/2017	PPO	40.52	289.8	NOX STACK EMISSIONS - GAS TURBINE UNITS
BCC 4S	1/26/2017	PPO	11.00	289.8	NOX STACK EMISSIONS - GAS TURBINE UNITS
BCC 4S	1/27/2017	PPO	11.00	289.8	NOX STACK EMISSIONS - GAS TURBINE UNITS
BCC 4S	1/28/2017	PPO	35.00	289.8	NOX STACK EMISSIONS - GAS TURBINE UNITS
BCC 4S	2/5/2017	FFO	1513.67	434.8	LP TURBINE BUCKETS OR BLADES
BCC 4S	4/9/2017	PFO	1268.83	89.8	OTHER LOW PRESSURE TURBINE PROBLEMS
BCC 4S	5/1/2017	PFO	592.38	72.5	OTHER COMBINED CYCLE PROBLEMS
BCC 4S	5/13/2017	PMO	57.82	46.5	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
BCC 4S	5/18/2017	PFO	6.73	46.0	FIRE PROTECTION SYSTEM INSTRUMENTATION AND CONTROL

**Duke Energy Florida**

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

**Bartow CC**

<b>Unit</b>	<b>Date</b>	<b>Outage Type</b>	<b>Hours</b>	<b>MW Affected</b>	<b>Description</b>
BCC 4S	5/29/2017	PFO	0.53	72.6	OTHER COMBINED CYCLE PROBLEMS

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - May 2017

Crystal River 4

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

**Duke Energy Florida**

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

**Crystal River 4**

<b>Date</b>	<b>Outage Type</b>	<b>Hours</b>	<b>MW Affected</b>	<b>Description</b>
5/3/2017	PFO	1.18	222.1	PULVERIZED FUEL AND AIR PIPING (PULVERIZER TO WIND BOX)
5/3/2017	PFO	26.13	93.0	PULVERIZER MILLS
5/5/2017	PMO	7.00	93.0	PULVERIZER LUBE OIL SYSTEM
5/8/2017	PFO	9.47	93.0	PULVERIZER MILLS
5/10/2017	PMO	5.80	93.1	PULVERIZED FUEL AND AIR PIPING (PULVERIZER TO WIND BOX)
5/25/2017	PMO	3.50	93.0	PULVERIZED FUEL AND AIR PIPING (PULVERIZER TO WIND BOX)
5/25/2017	PMO	160.48	65.0	HEATER DRAIN PUMPS

**Duke Energy Florida**

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

**Crystal River 5**

<b>Date</b>	<b>Outage Type</b>	<b>Hours</b>	<b>MW Affected</b>	<b>Description</b>
1/4/2017	PMO	6.33	91.0	PULVERIZER LUBE OIL SYSTEM
1/12/2017	PMO	7.50	91.0	PULVERIZER MILLS
2/16/2017	PMO	15.00	91.0	FOREIGN OBJECT IN MILL
3/4/2017	PFO	3.50	44.0	SOOT BLOWER CONTROLS
3/5/2017	FMO	74.17	710.0	AIR HEATER SOOT BLOWER
3/8/2017	PMO	339.62	91.0	PULVERIZER MILLS
3/22/2017	PFO	2.83	281.9	PULVERIZER LUBE OIL SYSTEM
3/25/2017	PMO	44.38	91.0	PULVERIZER MILLS
3/31/2017	FFO	122.92	710.0	SECOND SUPERHEATER LEAKS
4/5/2017	PMO	361.07	91.0	PULVERIZER MILLS
4/23/2017	PMO	45.12	91.0	PULVERIZER MILLS
4/26/2017	PMO	2.50	90.9	COAL CONVEYERS AND FEEDERS
4/28/2017	PFO	4.33	91.3	PULVERIZER FEEDERS
5/4/2017	PMO	8.00	91.0	PULVERIZER LUBE OIL SYSTEM
5/9/2017	PFO	10.63	282.0	CIRCULATING WATER PIPING
5/16/2017	PMO	16.42	91.0	PULVERIZER MILLS
5/21/2017	PMO	19.82	91.0	PULVERIZER MILLS

**Duke Energy Florida**

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

**Hines Power Block 1**

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 1A	2/25/2017	PPO	7.45	63.4	CONDENSER TUBE FOULING TUBE SIDE
HEP 1A	3/31/2017	PO	690.22	145.4	GENERAL GAS TURBINE UNIT INSPECTION
HEP 1A	5/4/2017	PFO	1.25	54.5	OTHER EXCITER PROBLEMS
HEP 1A	5/15/2017	FFO	7.98	145.4	FEEDWATER REGULATING (BOILER LEVEL CONTROL) VALVE
HEP 1A	5/16/2017	PFO	236.00	39.4	CIRCULATING WATER PUMPS
HEP 1A	5/28/2017	FFO	1.55	145.4	OTHER FEEDWATER SYSTEM PROBLEMS
HEP 1B	2/25/2017	PPO	7.45	62.4	CONDENSER TUBE FOULING TUBE SIDE
HEP 1B	4/6/2017	PO	784.97	145.4	GENERAL GAS TURBINE UNIT INSPECTION
HEP 1B	5/8/2017	FFO	0.58	145.4	FEEDWATER REGULATING (BOILER LEVEL CONTROL) VALVE
HEP 1B	5/16/2017	PFO	236.00	39.4	CIRCULATING WATER PUMPS
HEP 1B	5/28/2017	FFO	90.00	145.4	CONTRACTOR ERROR
HEP ST1	2/25/2017	PPO	7.45	46.1	CONDENSER TUBE FOULING TUBE SIDE
HEP ST1	4/6/2017	PO	558.10	154.1	GENERAL GAS TURBINE UNIT INSPECTION
HEP ST1	5/4/2017	PFO	1.25	100.1	OTHER EXCITER PROBLEMS
HEP ST1	5/16/2017	PFO	382.00	33.1	CIRCULATING WATER PUMPS

**Duke Energy Florida**

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

**Hines Power Block 2**

<b>Unit</b>	<b>Date</b>	<b>Outage Type</b>	<b>Hours</b>	<b>MW Affected</b>	<b>Description</b>
HEP 2A	3/10/2017	PPO	1.50	41.9	INTAKE GRATING FOULING
HEP 2A	4/20/2017	PPO	1.33	49.9	INTAKE GRATING FOULING
HEP 2A	5/5/2017	PPO	5.67	39.9	INTAKE GRATING FOULING
HEP 2B	3/10/2017	PPO	1.50	41.9	INTAKE GRATING FOULING
HEP 2B	4/20/2017	PPO	1.33	49.9	INTAKE GRATING FOULING
HEP 2B	5/4/2017	PPO	5.67	39.9	INTAKE GRATING FOULING
HEP ST2	3/10/2017	PPO	1.50	34.1	INTAKE GRATING FOULING
HEP ST2	4/20/2017	PPO	1.33	40.1	INTAKE GRATING FOULING
HEP ST2	5/4/2017	PPO	5.67	40.2	INTAKE GRATING FOULING



**Duke Energy Florida**

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

**Hines Power Block 3**

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 3A	1/21/2017	FFO	0.25	149.6	FEEDWATER CONTROLS
HEP 3A	1/21/2017	FMO	62.25	149.6	BOILER; MISCELLANEOUS
HEP 3A	3/3/2017	PO	619.52	149.6	GENERAL GAS TURBINE UNIT INSPECTION
HEP 3A	3/30/2017	FFO	12.08	149.6	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 3A	3/30/2017	FFO	8.02	149.6	OPERATOR ERROR
HEP 3A	5/20/2017	PPO	6.00	22.6	INTAKE GRATING FOULING
HEP 3B	3/4/2017	PO	642.73	149.6	GENERAL GAS TURBINE UNIT INSPECTION
HEP 3B	5/7/2017	FFO	2.33	149.6	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
HEP 3B	5/20/2017	PPO	6.00	35.6	INTAKE GRATING FOULING
HEP ST3	1/21/2017	PFO	0.25	83.8	FEEDWATER REGULATING (BOILER LEVEL CONTROL) VALVE
HEP ST3	1/21/2017	PMO	62.17	83.8	OTHER STACK OR EXHAUST EMISSIONS -GAS TURBINE UNIT
HEP ST3	3/3/2017	PO	625.17	171.8	GENERAL GAS TURBINE UNIT INSPECTION
HEP ST3	3/30/2017	FFO	13.67	171.8	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST3	3/30/2017	FFO	5.03	171.8	OPERATOR ERROR
HEP ST3	5/20/2017	PPO	6.00	27.8	INTAKE GRATING FOULING

**Duke Energy Florida**

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

**Hines Power Block 4**

<b>Unit</b>	<b>Date</b>	<b>Outage Type</b>	<b>Hours</b>	<b>MW Affected</b>	<b>Description</b>
HEP 4A	4/8/2017	PO	16.37	145.2	TURBINE HYDRAULIC SYSTEM PIPES AND VALVES
HEP 4A	4/14/2017	FFO	10.85	145.2	CIRCULATING WATER PUMPS
HEP 4A	5/30/2017	FFO	34.00	145.2	CONDENSER TUBE FOULING TUBE SIDE
HEP 4B	2/20/2017	FFO	2.33	145.2	GAS TURBINE - CONTROLS AND INSTRUMENTS
HEP 4B	4/8/2017	PO	11.50	145.2	TURBINE HYDRAULIC SYSTEM PIPES AND VALVES
HEP 4B	4/14/2017	FFO	15.03	145.2	CIRCULATING WATER PUMPS
HEP ST4	2/20/2017	PFO	2.33	80.5	OTHER GAS TURBINE EXHAUST PROBLEMS
HEP ST4	4/8/2017	PO	13.65	163.5	TURBINE HYDRAULIC SYSTEM PIPES AND VALVES
HEP ST4	4/10/2017	PPO	105.62	15.5	TURBINE HYDRAULIC SYSTEM PIPES AND VALVES
HEP ST4	4/14/2017	FFO	12.45	163.5	CIRCULATING WATER PUMPS
HEP ST4	5/30/2017	PFO	34.00	93.5	CONDENSER TUBE FOULING TUBE SIDE

# **Revised Performance Data Report for April 2017**

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2017

Bartow CC	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan - Apr Period
1. EAF	98.62	61.18	54.81	87.21									75.72
2. PH	744	672	743	720									2,879
3. SH	677.0	411.2	365.4	644.2									2,097.9
4. RSH	67.0	0.0	41.8	0.0									108.8
5. UH	0.0	260.9	335.8	75.8									672.4
6. POH	0.0	0.0	41.1	0.0									41.1
7. FOH	0.0	233.1	292.1	75.8									600.9
8. MOH	0.0	27.8	2.7	0.0									30.4
9. PPOH	56.4	0.0	0.0	0.0									56.4
10. LR PP (MW)	203.1	0.0	0.0	0.0									203.1
11. PFOH	0.0	0.0	0.0	203.8									203.8
12. LR PF (MW)	0.0	0.0	0.0	89.8									89.8
13. PMOH	0.0	0.0	0.0	0.0									0.0
14. LR PM (MW)	0.0	0.0	0.0	0.0									0.0
15. NSC (MW)	1120	1120	1120	1120									1120
16. OPER MBTU	4,539,060	2,658,016	3,220,610	4,384,107									14,801,793
17. NET GEN (MWH)	616,163	269,471	286,966	529,238									1,701,838
18. ANOHR (BTU/KWH)	7,366.7	9,863.8	11,223.0	8,283.8									8,697.5
19. NOF (%)	81.26	58.52	70.11	73.35									72.43
20. NPC (MW)	1120	1120	1120	1120									1120

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2017

CRYSTAL RIVER 4	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan - Apr Period
1. EAF	86.49	95.82	93.36	97.90									93.30
2. PH	744	672	743	720									2,879
3. SH	648.7	650.3	696.4	720.0									2,715.4
4. RSH	0.0	0.0	0.0	0.0									0.0
5. UH	95.3	21.7	46.6	0.0									163.6
6. POH	0.0	0.0	0.0	0.0									0.0
7. FOH	0.0	0.0	0.0	0.0									0.0
8. MOH	95.3	21.7	46.6	0.0									163.6
9. PPOH	0.0	0.0	0.0	0.0									0.0
10. LR PP (MW)	0.0	0.0	0.0	0.0									0.0
11. PFOH	21.1	14.0	13.5	8.4									57.0
12. LR PF (MW)	155.5	61.9	93.0	89.2									108.0
13. PMOH	4.5	14.8	7.0	46.0									72.3
14. LR PM (MW)	93.0	249.0	93.0	217.5									204.2
15. NSC (MW)	712	712	712	712									712
16. OPER MBTU	3,201,197	3,213,960	3,897,728	4,051,925									14,364,810
17. NET GEN (MWH)	311,345	321,341	390,869	417,993									1,441,548
18. ANOHR (BTU/KWH)	10,281.8	10,001.7	9,972.0	9,693.8									9,964.8
19. NOF (%)	67.41	69.40	78.83	81.54									74.56
20. NPC (MW)	712	712	712	712									712

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ACTUAL UNIT PERFORMANCE DATA -- YEAR 2017

CRYSTAL RIVER 5	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan - Apr Period
1. EAF	99.76	99.71	81.87	76.96									89.43
2. PH	744	672	743	720									2,879
3. SH	744.0	672.0	658.8	607.1									2,681.9
4. RSH	0.0	0.0	0.0	0.0									0.0
5. UH	0.0	0.0	84.2	112.9									197.1
6. POH	0.0	0.0	0.0	0.0									0.0
7. FOH	0.0	0.0	10.0	112.9									122.9
8. MOH	0.0	0.0	74.2	0.0									74.2
9. PPOH	0.0	0.0	0.0	0.0									0.0
10. LR PP (MW)	0.0	0.0	0.0	0.0									0.0
11. PFOH	0.0	0.0	6.3	4.3									10.7
12. LR PF (MW)	0.0	0.0	150.6	91.3									126.5
13. PMOH	13.8	15.0	384.0	408.7									821.5
14. LR PM (MW)	91.0	91.0	91.0	91.0									91.0
15. NSC (MW)	710	710	710	710									710
16. OPER MBTU	3,645,405	3,211,345	3,234,019	3,012,117									13,102,885
17. NET GEN (MWH)	358,248	321,503	331,274	318,570									1,329,595
18. ANOHR (BTU/KWH)	10,175.6	9,988.5	9,762.4	9,455.1									9,854.8
19. NOF (%)	67.82	67.38	70.82	73.91									69.83
20. NPC (MW)	710	710	710	710									710

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ACTUAL UNIT PERFORMANCE DATA -- YEAR 2017

HINES Power Block 1	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan - Apr Period
1. EAF	100.00	99.86	99.12	15.67									78.65
2. PH	744	672	743	720									2,879
3. SH	603.3	672.0	736.4	112.8									2,124.5
4. RSH	140.7	0.0	0.1	0.0									140.7
5. UH	0.0	0.0	6.5	607.2									613.7
6. POH	0.0	0.0	6.5	607.2									613.7
7. FOH	0.0	0.0	0.0	0.0									0.0
8. MOH	0.0	0.0	0.0	0.0									0.0
9. PPOH	0.0	7.5	0.0	0.0									7.5
10. LR PP (MW)	0.0	57.1	0.0	0.0									57.1
11. PFOH	0.0	0.0	0.0	0.0									0.0
12. LR PF (MW)	0.0	0.0	0.0	0.0									0.0
13. PMOH	0.0	0.0	0.0	0.0									0.0
14. LR PM (MW)	0.0	0.0	0.0	0.0									0.0
15. NSC (MW)	445	445	445	445									445
16. OPER MBTU	1,613,671	2,095,469	2,367,291	240,309									6,316,740
17. NET GEN (MWH)	236,527	303,529	341,546	32,942									914,544
18. ANOHR (BTU/KWH)	6,822.4	6,903.7	6,931.1	7,294.9									6,907.0
19. NOF (%)	88.10	101.50	104.22	65.63									96.73
20. NPC (MW)	445	445	445	445									445

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ACTUAL UNIT PERFORMANCE DATA -- YEAR 2017

HINES Power Block 2	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan - Apr Period
1. EAF	100.00	100.00	99.98	99.98									99.99
2. PH	744	672	743	720									2,879
3. SH	646.2	419.6	743.0	672.7									2,481.5
4. RSH	97.8	252.4	0.0	47.3									397.5
5. UH	0.0	0.0	0.0	0.0									0.0
6. POH	0.0	0.0	0.0	0.0									0.0
7. FOH	0.0	0.0	0.0	0.0									0.0
8. MOH	0.0	0.0	0.0	0.0									0.0
9. PPOH	0.0	0.0	1.5	1.3									2.8
10. LR PP (MW)	0.0	0.0	39.0	46.4									42.5
11. PFOH	0.0	0.0	0.0	0.0									0.0
12. LR PF (MW)	0.0	0.0	0.0	0.0									0.0
13. PMOH	0.0	0.0	0.0	0.0									0.0
14. LR PM (MW)	0.0	0.0	0.0	0.0									0.0
15. NSC (MW)	477	477	477	477									477
16. OPER MBTU	2,042,538	1,267,778	2,563,600	2,005,494									7,879,410
17. NET GEN (MWH)	277,273	179,574	368,942	301,569									1,127,358
18. ANOHR (BTU/KWH)	7,366.5	7,059.9	6,948.5	6,650.2									6,989.3
19. NOF (%)	89.96	89.71	104.10	93.98									95.24
20. NPC (MW)	477	477	477	477									477



Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2017

HINES Power Block 3	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan - Apr Period
1. EAF	96.79	100.00	13.57	100.00									76.86
2. PH	744	672	743	720									2,879
3. SH	419.3	606.7	92.9	694.7									1,813.6
4. RSH	304.9	65.3	7.9	25.3									403.4
5. UH	19.9	0.0	642.2	0.0									662.0
6. POH	0.0	0.0	629.0	0.0									629.0
7. FOH	0.1	0.0	13.2	0.0									13.3
8. MOH	19.8	0.0	0.0	0.0									19.8
9. PPOH	0.0	0.0	0.0	0.0									0.0
10. LR PP (MW)	0.0	0.0	0.0	0.0									0.0
11. PFOH	0.1	0.0	0.0	0.0									0.1
12. LR PF (MW)	84.9	0.0	0.0	0.0									84.9
13. PMOH	22.7	0.0	0.0	0.0									22.7
14. LR PM (MW)	83.8	0.0	0.0	0.0									83.8
15. NSC (MW)	471	471	471	471									471
16. OPER MBTU	1,378,484	1,843,655	302,495	1,999,411									5,524,045
17. NET GEN (MWH)	187,937	272,008	38,867	320,313									819,125
18. ANOHR (BTU/KWH)	7,334.8	6,777.9	7,782.8	6,242.1									6,743.8
19. NOF (%)	95.17	95.19	88.79	97.89									95.89
20. NPC (MW)	471	471	471	471									471

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ACTUAL UNIT PERFORMANCE DATA -- YEAR 2017

HINES Power Block 4	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan - Apr Period
1. EAF	100.00	99.87	100.00	96.13									99.00
2. PH	744	672	743	720									2,879
3. SH	627.8	523.0	743.0	693.4									2,587.1
4. RSH	116.2	148.3	0.0	0.0									264.5
5. UH	0.0	0.8	0.0	26.6									27.4
6. POH	0.0	0.0	0.0	13.8									13.8
7. FOH	0.0	0.8	0.0	12.8									13.5
8. MOH	0.0	0.0	0.0	0.0									0.0
9. PPOH	0.0	0.0	0.0	38.0									38.0
10. LR PP (MW)	0.0	0.0	0.0	15.5									15.5
11. PFOH	0.0	0.8	0.0	0.0									0.8
12. LR PF (MW)	0.0	80.6	0.0	0.0									80.6
13. PMOH	0.0	0.0	0.0	0.0									0.0
14. LR PM (MW)	0.0	0.0	0.0	0.0									0.0
15. NSC (MW)	454	454	454	454									454
16. OPER MBTU	2,189,339	1,654,101	2,418,596	2,019,129									8,281,164
17. NET GEN (MWH)	302,283	247,902	367,494	323,783									1,241,462
18. ANOHR (BTU/KWH)	7,242.7	6,672.4	6,581.3	6,236.1									6,670.5
19. NOF (%)	106.06	104.42	108.94	102.85									105.70
20. NPC (MW)	454	454	454	454									454

**Duke Energy Florida**

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

**Bartow CC**

Unit	Date	Outage Type	Hours	MW Affected	Description
BCC 4A	1/24/2017	PPO	40.52	25.3	NOX STACK EMISSIONS - GAS TURBINE UNITS
BCC 4A	3/4/2017	PO	270.00	170.3	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
BCC 4B	1/26/2017	PPO	11.00	26.3	NOX STACK EMISSIONS - GAS TURBINE UNITS
BCC 4B	2/15/2017	FFO	48.02	171.3	GAS TURBINE - DIVERTER DAMPERS
BCC 4B	2/17/2017	FMO	70.97	171.3	GAS TURBINE - TURNING GEAR AND MOTOR
BCC 4B	2/24/2017	FMO	87.00	171.3	SOLID STATE EXCITER ELEMENT
BCC 4B	2/28/2017	FFO	14.98	171.3	LOW PRESSURE COMPRESSURE BLEED VALVES
BCC 4B	3/7/2017	FMO	17.30	171.3	BLADE PATH TEMPERATURE SPREAD
BCC 4C	1/27/2017	PPO	35.00	29.3	NOX STACK EMISSIONS - GAS TURBINE UNITS
BCC 4D	1/28/2017	PPO	35.00	24.3	NOX STACK EMISSIONS - GAS TURBINE UNITS
BCC 4D	2/14/2017	FMO	24.02	169.3	GAS TURBINE - FUEL PIPING AND VALVES
BCC 4D	3/15/2017	FFO	2.00	169.3	BLADE PATH TEMPERATURE SPREAD
BCC 4D	3/23/2017	FFO	7.00	169.3	BLADE PATH TEMPERATURE SPREAD
BCC 4D	3/28/2017	FFO	15.00	169.3	OTHER GAS TURBINE PROBLEMS
BCC 4S	1/24/2017	PPO	40.52	289.8	NOX STACK EMISSIONS - GAS TURBINE UNITS
BCC 4S	1/26/2017	PPO	11.00	289.8	NOX STACK EMISSIONS - GAS TURBINE UNITS
BCC 4S	1/27/2017	PPO	11.00	289.8	NOX STACK EMISSIONS - GAS TURBINE UNITS
BCC 4S	1/28/2017	PPO	35.00	289.8	NOX STACK EMISSIONS - GAS TURBINE UNITS
BCC 4S	2/5/2017	FFO	1513.67	434.8	LP TURBINE BUCKETS OR BLADES
BCC 4S	4/9/2017	PFO	524.83	46.2	OTHER LOW PRESSURE TURBINE PROBLEMS

**Duke Energy Florida**

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

**Crystal River 4**

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

**Duke Energy Florida**

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

**Crystal River 5**

<b>Date</b>	<b>Outage Type</b>	<b>Hours</b>	<b>MW Affected</b>	<b>Description</b>
1/4/2017	PMO	6.33	91.0	PULVERIZER LUBE OIL SYSTEM
1/12/2017	PMO	7.50	91.0	PULVERIZER MILLS
2/16/2017	PMO	15.00	91.0	FOREIGN OBJECT IN MILL
3/4/2017	PFO	3.50	44.0	SOOT BLOWER CONTROLS
3/5/2017	FMO	74.17	710.0	AIR HEATER SOOT BLOWER
3/8/2017	PMO	339.62	91.0	PULVERIZER MILLS
3/22/2017	PFO	2.83	281.9	PULVERIZER LUBE OIL SYSTEM
3/25/2017	PMO	44.38	91.0	PULVERIZER MILLS
3/31/2017	FFO	122.92	710.0	SECOND SUPERHEATER LEAKS
4/5/2017	PMO	361.07	91.0	PULVERIZER MILLS
4/23/2017	PMO	45.12	91.0	PULVERIZER MILLS
4/26/2017	PMO	2.50	90.9	COAL CONVEYERS AND FEEDERS
4/28/2017	PFO	4.33	91.3	PULVERIZER FEEDERS

**Duke Energy Florida**

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

**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 1A	2/25/2017	PPO	7.45	63.4	CONDENSER TUBE FOULING TUBE SIDE
HEP 1A	3/31/2017	PO	690.22	145.4	GENERAL GAS TURBINE UNIT INSPECTION
HEP 1B	2/25/2017	PPO	7.45	62.4	CONDENSER TUBE FOULING TUBE SIDE
HEP 1B	4/6/2017	PO	596.22	145.4	GENERAL GAS TURBINE UNIT INSPECTION
HEP ST1	2/25/2017	PPO	7.45	46.1	CONDENSER TUBE FOULING TUBE SIDE
HEP ST1	4/6/2017	PO	558.10	154.1	GENERAL GAS TURBINE UNIT INSPECTION

**Duke Energy Florida**

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

**Hines Power Block 2**

<b>Unit</b>	<b>Date</b>	<b>Outage Type</b>	<b>Hours</b>	<b>MW Affected</b>	<b>Description</b>
HEP 2A	3/10/2017	PPO	1.50	41.9	INTAKE GRATING FOULING
HEP 2A	4/20/2017	PPO	1.33	49.9	INTAKE GRATING FOULING
HEP 2B	3/10/2017	PPO	1.50	41.9	INTAKE GRATING FOULING
HEP 2B	4/20/2017	PPO	1.33	49.9	INTAKE GRATING FOULING
HEP ST2	3/10/2017	PPO	1.50	34.1	INTAKE GRATING FOULING
HEP ST2	4/20/2017	PPO	1.33	40.1	INTAKE GRATING FOULING

**Duke Energy Florida**

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

**Hines Power Block 3**

<b>Unit</b>	<b>Date</b>	<b>Outage Type</b>	<b>Hours</b>	<b>MW Affected</b>	<b>Description</b>
HEP 3A	1/21/2017	FFO	0.25	149.6	FEEDWATER CONTROLS
HEP 3A	1/21/2017	FMO	62.25	149.6	BOILER; MISCELLANEOUS
HEP 3A	3/3/2017	PO	619.52	149.6	GENERAL GAS TURBINE UNIT INSPECTION
HEP 3A	3/30/2017	FFO	12.08	149.6	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 3A	3/30/2017	FFO	8.02	149.6	OPERATOR ERROR
HEP 3B	3/4/2017	PO	642.73	149.6	GENERAL GAS TURBINE UNIT INSPECTION
HEP ST3	1/21/2017	PFO	0.25	83.8	FEEDWATER REGULATING (BOILER LEVEL CONTROL) VALVE
HEP ST3	1/21/2017	PMO	62.17	83.8	OTHER STACK OR EXHAUST EMISSIONS -GAS TURBINE UNIT
HEP ST3	3/3/2017	PO	625.17	171.8	GENERAL GAS TURBINE UNIT INSPECTION
HEP ST3	3/30/2017	FFO	13.67	171.8	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST3	3/30/2017	FFO	5.03	171.8	OPERATOR ERROR



**Duke Energy Florida**

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

**Hines Power Block 4**

<b>Unit</b>	<b>Date</b>	<b>Outage Type</b>	<b>Hours</b>	<b>MW Affected</b>	<b>Description</b>
HEP 4A	4/8/2017	PO	16.37	145.2	TURBINE HYDRAULIC SYSTEM PIPES AND VALVES
HEP 4A	4/14/2017	FFO	10.85	145.2	CIRCULATING WATER PUMPS
HEP 4B	2/20/2017	FFO	2.33	145.2	GAS TURBINE - CONTROLS AND INSTRUMENTS
HEP 4B	4/8/2017	PO	11.50	145.2	TURBINE HYDRAULIC SYSTEM PIPES AND VALVES
HEP 4B	4/14/2017	FFO	15.03	145.2	CIRCULATING WATER PUMPS
HEP ST4	2/20/2017	PFO	2.33	80.5	OTHER GAS TURBINE EXHAUST PROBLEMS
HEP ST4	4/8/2017	PO	13.65	163.5	TURBINE HYDRAULIC SYSTEM PIPES AND VALVES
HEP ST4	4/10/2017	PPO	105.62	15.5	TURBINE HYDRAULIC SYSTEM PIPES AND VALVES
HEP ST4	4/14/2017	FFO	12.45	163.5	CIRCULATING WATER PUMPS