



MATTHEW R. BERNIER
SENIOR COUNSEL

April 20, 2017

VIA ELECTRONIC FILING

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

Re: Docket No.: 170001
Performance Data Report for March 2017

Dear Ms. Stauffer:

Attached for filing in the above docket is Duke Energy Florida, LLC's Performance Data Report for March 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
Attachment

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 March 2017 has been furnished to the following individuals via e-mail on this 20th day of April, 2017.

/s/ Matthew R. Bernier

Attorney

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Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2017

Bartow CC	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan - Mar Period
1. EAF	100.00	61.18	54.81										72.36
2. PH	744	672	743										2,159
3. SH	677.0	411.2	365.4										1,453.6
4. RSH	67.0	0.0	41.8										108.8
5. UH	0.0	260.9	335.8										596.6
6. POH	0.0	0.0	41.1										41.1
7. FOH	0.0	233.1	292.1										525.2
8. MOH	0.0	27.8	2.7										30.4
9. PPOH	56.4	0.0	0.0										56.4
10. LR PP (MW)	203.1	0.0	0.0										203.1
11. PFOH	0.0	0.0	0.0										0.0
12. LR PF (MW)	0.0	0.0	0.0										0.0
13. PMOH	0.0	0.0	0.0										0.0
14. LR PM (MW)	0.0	0.0	0.0										0.0
15. NSC (MW)	1162	1162	1162										1162
16. OPER MBTU	4,539,060	2,658,016	3,220,610										10,417,686
17. NET GEN (MWH)	616,163	269,471	286,966										1,172,600
18. ANOHR (BTU/KWH)	7,366.7	9,863.8	11,223.0										8,884.3
19. NOF (%)	78.32	56.40	67.58										69.42
20. NPC (MW)	1162	1162	1162										1162

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 - Mar Period
1. EAF	86.49	95.82	93.36										91.76
2. PH	744	672	743										2,159
3. SH	648.7	650.3	696.4										1,995.4
4. RSH	0.0	0.0	0.0										0.0
5. UH	95.3	21.7	46.6										163.6
6. POH	0.0	0.0	0.0										0.0
7. FOH	0.0	0.0	0.0										0.0
8. MOH	95.3	21.7	46.6										163.6
9. PPOH	0.0	0.0	0.0										0.0
10. LR PP (MW)	0.0	0.0	0.0										0.0
11. PFOH	21.1	14.0	13.5										48.6
12. LR PF (MW)	155.5	61.9	93.0										111.2
13. PMOH	4.5	14.8	7.0										26.3
14. LR PM (MW)	93.0	249.0	93.0										180.8
15. NSC (MW)	712	712	712										712
16. OPER MBTU	3,201,197	3,213,960	3,897,728										10,312,884
17. NET GEN (MWH)	311,345	321,341	390,869										1,023,555
18. ANOHR (BTU/KWH)	10,281.8	10,001.7	9,972.0										10,075.6
19. NOF (%)	67.41	69.40	78.83										72.04
20. NPC (MW)	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 - Mar Period
1. EAF	99.76	99.71	81.87										93.59
2. PH	744	672	743										2,159
3. SH	744.0	672.0	658.8										2,074.8
4. RSH	0.0	0.0	0.0										0.0
5. UH	0.0	0.0	84.2										84.2
6. POH	0.0	0.0	0.0										0.0
7. FOH	0.0	0.0	10.0										10.0
8. MOH	0.0	0.0	74.2										74.2
9. PPOH	0.0	0.0	0.0										0.0
10. LR PP (MW)	0.0	0.0	0.0										0.0
11. PFOH	0.0	0.0	6.3										6.3
12. LR PF (MW)	0.0	0.0	150.6										150.6
13. PMOH	13.8	15.0	384.0										412.8
14. LR PM (MW)	91.0	91.0	91.0										91.0
15. NSC (MW)	710	710	710										710
16. OPER MBTU	3,645,405	3,211,345	3,234,019										10,090,768
17. NET GEN (MWH)	358,248	321,503	331,274										1,011,025
18. ANOHR (BTU/KWH)	10,175.6	9,988.5	9,762.4										9,980.7
19. NOF (%)	67.82	67.38	70.82										68.63
20. NPC (MW)	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 - Mar Period
1. EAF	100.00	100.00	99.12										99.70
2. PH	744	672	743										2,159
3. SH	603.3	672.0	736.4										2,011.7
4. RSH	140.7	0.0	0.1										140.7
5. UH	0.0	0.0	6.5										6.5
6. POH	0.0	0.0	6.5										6.5
7. FOH	0.0	0.0	0.0										0.0
8. MOH	0.0	0.0	0.0										0.0
9. PPOH	0.0	7.5	0.0										7.5
10. LR PP (MW)	0.0	57.1	0.0										57.1
11. PFOH	0.0	0.0	0.0										0.0
12. LR PF (MW)	0.0	0.0	0.0										0.0
13. PMOH	0.0	0.0	0.0										0.0
14. LR PM (MW)	0.0	0.0	0.0										0.0
15. NSC (MW)	445	454	454										445
16. OPER MBTU	1,613,671	2,095,469	2,367,291										6,076,431
17. NET GEN (MWH)	236,527	303,529	341,546										881,602
18. ANOHR (BTU/KWH)	6,822.4	6,903.7	6,931.1										6,892.5
19. NOF (%)	88.10	99.49	102.16										98.48
20. NPC (MW)	445	454	454										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 - Mar Period
1. EAF	100.00	100.00	100.00										100.00
2. PH	744	672	743										2,159
3. SH	646.2	419.6	743.0										1,808.8
4. RSH	97.8	252.4	0.0										350.2
5. UH	0.0	0.0	0.0										0.0
6. POH	0.0	0.0	0.0										0.0
7. FOH	0.0	0.0	0.0										0.0
8. MOH	0.0	0.0	0.0										0.0
9. PPOH	0.0	0.0	1.5										1.5
10. LR PP (MW)	0.0	0.0	39.0										39.0
11. PFOH	0.0	0.0	0.0										0.0
12. LR PF (MW)	0.0	0.0	0.0										0.0
13. PMOH	0.0	0.0	0.0										0.0
14. LR PM (MW)	0.0	0.0	0.0										0.0
15. NSC (MW)	477	454	454										477
16. OPER MBTU	2,042,538	1,267,778	2,563,600										5,873,916
17. NET GEN (MWH)	277,273	179,574	368,942										825,789
18. ANOHR (BTU/KWH)	7,366.5	7,059.9	6,948.5										7,113.1
19. NOF (%)	89.96	94.26	109.37										95.71
20. NPC (MW)	477	454	454										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 - Mar Period
1. EAF	96.79	100.00	13.57										69.15
2. PH	744	672	743										2,159
3. SH	419.3	606.7	92.9										1,118.9
4. RSH	304.9	65.3	7.9										378.1
5. UH	19.9	0.0	642.2										662.0
6. POH	0.0	0.0	629.0										629.0
7. FOH	0.1	0.0	13.2										13.3
8. MOH	19.8	0.0	0.0										19.8
9. PPOH	0.0	0.0	0.0										0.0
10. LR PP (MW)	0.0	0.0	0.0										0.0
11. PFOH	0.1	0.0	0.0										0.1
12. LR PF (MW)	84.9	0.0	0.0										84.9
13. PMOH	22.7	0.0	0.0										22.7
14. LR PM (MW)	83.8	0.0	0.0										83.8
15. NSC (MW)	471	454	454										471
16. OPER MBTU	1,378,484	1,843,655	302,495										3,524,634
17. NET GEN (MWH)	187,937	272,008	38,867										498,812
18. ANOHR (BTU/KWH)	7,334.8	6,777.9	7,782.8										7,066.1
19. NOF (%)	95.17	98.75	92.11										94.65
20. NPC (MW)	471	454	454										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 - Mar Period
1. EAF	100.00	99.87	100.00										99.96
2. PH	744	672	743										2,159
3. SH	627.8	523.0	743.0										1,893.7
4. RSH	116.2	148.3	0.0										264.5
5. UH	0.0	0.8	0.0										0.8
6. POH	0.0	0.0	0.0										0.0
7. FOH	0.0	0.8	0.0										0.8
8. MOH	0.0	0.0	0.0										0.0
9. PPOH	0.0	0.0	0.0										0.0
10. LR PP (MW)	0.0	0.0	0.0										0.0
11. PFOH	0.0	0.8	0.0										0.8
12. LR PF (MW)	0.0	80.6	0.0										80.6
13. PMOH	0.0	0.0	0.0										0.0
14. LR PM (MW)	0.0	0.0	0.0										0.0
15. NSC (MW)	454	454	454										454
16. OPER MBTU	2,189,339	1,654,101	2,418,596										6,262,035
17. NET GEN (MWH)	302,283	247,902	367,494										917,679
18. ANOHR (BTU/KWH)	7,242.7	6,672.4	6,581.3										6,823.8
19. NOF (%)	106.06	104.42	108.94										106.74
20. NPC (MW)	454	454	454										454

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - March 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	1318.50	434.8	OTHER LOW PRESSURE TURBINE PROBLEMS

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ACTUAL UNIT EVENT DATA -- January - March 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

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - March 2017

Crystal River 5

Date	Outage Type	Hours	MW Affected	Description
1/4/2017	PMO	6.33	91.0	PULVERIZER LUBE OIL SYSTEM
1/12/2017	PMO	7.50	91.0	PULVERIZER MILLS
2/16/2017	PMO	15.00	91.0	FOREIGN OBJECT IN MILL
3/4/2017	PFO	3.50	44.0	SOOT BLOWER CONTROLS
3/5/2017	FMO	74.17	710.0	AIR HEATER SOOT BLOWER
3/8/2017	PMO	339.62	91.0	PULVERIZER MILLS
3/22/2017	PFO	2.83	281.9	PULVERIZER LUBE OIL SYSTEM
3/25/2017	PMO	44.38	91.0	PULVERIZER MILLS
3/31/2017	FFO	10.00	710.0	SECOND SUPERHEATER LEAKS

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - March 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	19.97	145.4	GENERAL GAS TURBINE UNIT INSPECTION
HEP 1B	2/25/2017	PPO	7.45	62.4	CONDENSER TUBE FOULING TUBE SIDE
HEP ST1	2/25/2017	PPO	7.45	46.1	CONDENSER TUBE FOULING TUBE SIDE

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - March 2017

Hines Power Block 2

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 2A	3/10/2017	PPO	1.50	41.9	INTAKE GRATING FOULING
HEP 2B	3/10/2017	PPO	1.50	41.9	INTAKE GRATING FOULING
HEP ST2	3/10/2017	PPO	1.50	34.1	INTAKE GRATING FOULING

Duke Energy Florida**ACTUAL UNIT EVENT DATA -- January - March 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 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 - March 2017

Hines Power Block 4

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 4B	2/20/2017	FFO	2.33	145.2	GAS TURBINE - CONTROLS AND INSTRUMENTS
HEP ST4	2/20/2017	PFO	2.33	80.5	OTHER GAS TURBINE EXHAUST PROBLEMS