



Matthew R. Bernier
ASSOCIATE GENERAL COUNSEL

March 20, 2018

VIA ELECTRONIC FILING

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

Re: *Performance Date Report for February 2018*
Docket No. 20180001-EI

Dear Ms. Stauffer:

Attached for electronic filing in the above docket is Duke Energy Florida, LLC's Performance Data Report for February 2018.

Thank you for your assistance in this matter. Please feel free to call me at (850) 521-1428 should you have any questions concerning this filing.

Sincerely,

/s/ Matthew R. Bernier

Matthew R. Bernier

MRB/cmK
Attachment

cc: Daniel Lee, Division of Engineering, FPSC

CERTIFICATE OF SERVICE

Docket No. 20180001-EI

I HEREBY CERTIFY that a true copy of Performance Data Report for the month of February 2018 has been furnished to the following individuals via e-mail on this 20th day of March, 2018.

/s/ Matthew R. Bernier

Attorney

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Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2018

Bartow CC	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan - Feb Period
1. EAF	100.00	99.71											99.86
2. PH	744	672											1,416
3. SH	723.1	576.0											1,299.1
4. RSH	20.9	95.7											116.6
5. UH	0.0	0.3											0.3
6. POH	0.0	0.0											0.0
7. FOH	0.0	0.3											0.3
8. MOH	0.0	0.0											0.0
9. PPOH	0.0	0.0											0.0
10. LR PP (MW)	0.0	0.0											0.0
11. PFOH	0.0	15.1											15.1
12. LR PF (MW)	0.0	120.0											120.0
13. PMOH	0.0	0.0											0.0
14. LR PM (MW)	0.0	0.0											0.0
15. NSC (MW)	1080	1080											1080
16. OPER MBTU	4,808,629	3,821,765											8,630,394
17. NET GEN (MWH)	627,889	499,274											1,127,163
18. ANOHR (BTU/KWH)	7,658.4	7,654.6											7,656.7
19. NOF (%)	80.40	80.26											80.34
20. NPC (MW)	1080	1080											1080

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2018

CRYSTAL RIVER 4	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan - Feb Period
1. EAF	95.73	99.52											97.53
2. PH	744	672											1,416
3. SH	744.0	672.0											1,416.0
4. RSH	0.0	0.0											0.0
5. UH	0.0	0.0											0.0
6. POH	0.0	0.0											0.0
7. FOH	0.0	0.0											0.0
8. MOH	0.0	0.0											0.0
9. PPOH	0.6	4.0											4.6
10. LR PP (MW)	555.0	426.0											442.8
11. PFOH	65.7	6.5											72.2
12. LR PF (MW)	339.0	93.0											317.0
13. PMOH	0.0	0.0											0.0
14. LR PM (MW)	0.0	0.0											0.0
15. NSC (MW)	712	712											712
16. OPER MBTU	4,015,993	3,240,899											7,256,891
17. NET GEN (MWH)	413,001	321,886											734,887
18. ANOHR (BTU/KWH)	9,723.9	10,068.5											9,874.8
19. NOF (%)	77.96	67.27											72.89
20. NPC (MW)	712	712											712

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2018

CRYSTAL RIVER 5	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan - Feb Period
1. EAF	97.92	97.07											97.52
2. PH	744	672											1,416
3. SH	744.0	668.0											1,412.0
4. RSH	0.0	0.0											0.0
5. UH	0.0	4.0											4.0
6. POH	0.0	0.0											0.0
7. FOH	0.0	0.0											0.0
8. MOH	0.0	4.0											4.0
9. PPOH	2.0	0.0											2.0
10. LR PP (MW)	91.0	0.0											91.0
11. PFOH	36.5	0.0											36.5
12. LR PF (MW)	296.0	0.0											296.0
13. PMOH	0.0	22.5											22.5
14. LR PM (MW)	0.0	496.0											496.0
15. NSC (MW)	710	710											710
16. OPER MBTU	4,144,476	3,158,789											7,303,265
17. NET GEN (MWH)	429,919	314,067											743,986
18. ANOHR (BTU/KWH)	9,640.1	10,057.7											9,816.4
19. NOF (%)	81.39	66.22											74.21
20. NPC (MW)	710	710											710

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2018

HINES Power Block 1	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan - Feb Period
1. EAF	98.04	99.99											98.96
2. PH	744	672											1,416
3. SH	714.5	672.0											1,386.5
4. RSH	16.7	0.0											16.7
5. UH	12.9	0.0											12.9
6. POH	0.0	0.0											0.0
7. FOH	12.9	0.0											12.9
8. MOH	0.0	0.0											0.0
9. PPOH	0.0	0.8											0.8
10. LR PP (MW)	0.0	50.6											50.6
11. PFOH	12.4	0.0											12.4
12. LR PF (MW)	69.8	0.0											69.8
13. PMOH	0.0	0.0											0.0
14. LR PM (MW)	0.0	0.0											0.0
15. NSC (MW)	495	495											495
16. OPER MBTU	2,318,447	2,219,815											4,538,262
17. NET GEN (MWH)	321,975	304,049											626,024
18. ANOHR (BTU/KWH)	7,200.7	7,300.8											7,249.3
19. NOF (%)	91.04	91.40											91.21
20. NPC (MW)	495	495											495

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2018

HINES Power Block 2	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan - Feb Period
1. EAF	100.00	99.39											99.71
2. PH	744	672											1,416
3. SH	693.3	464.5											1,157.8
4. RSH	50.7	204.0											254.7
5. UH	0.0	3.5											3.5
6. POH	0.0	0.0											0.0
7. FOH	0.0	3.5											3.5
8. MOH	0.0	0.0											0.0
9. PPOH	0.0	0.0											0.0
10. LR PP (MW)	0.0	0.0											0.0
11. PFOH	0.0	3.4											3.4
12. LR PF (MW)	0.0	92.3											92.3
13. PMOH	0.0	0.0											0.0
14. LR PM (MW)	0.0	0.0											0.0
15. NSC (MW)	527	527											527
16. OPER MBTU	2,282,848	1,421,231											3,704,079
17. NET GEN (MWH)	314,763	201,941											516,704
18. ANOHR (BTU/KWH)	7,252.6	7,037.9											7,168.7
19. NOF (%)	86.15	82.49											84.68
20. NPC (MW)	527	527											527

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2018

HINES Power Block 3	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan - Feb Period
1. EAF	99.51	99.62											99.56
2. PH	744	672											1,416
3. SH	478.3	413.2											891.6
4. RSH	262.5	256.5											519.0
5. UH	3.2	2.3											5.5
6. POH	0.0	0.0											0.0
7. FOH	3.2	2.3											5.5
8. MOH	0.0	0.0											0.0
9. PPOH	0.0	1.0											1.0
10. LR PP (MW)	0.0	59.1											59.1
11. PFOH	2.9	1.1											4.1
12. LR PF (MW)	81.0	81.0											81.0
13. PMOH	0.0	0.0											0.0
14. LR PM (MW)	0.0	0.0											0.0
15. NSC (MW)	521	521											521
16. OPER MBTU	1,547,605	1,321,596											2,869,201
17. NET GEN (MWH)	207,822	179,431											387,253
18. ANOHR (BTU/KWH)	7,446.8	7,365.5											7,409.1
19. NOF (%)	83.40	83.34											83.37
20. NPC (MW)	521	521											521

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2018

HINES Power Block 4	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan - Feb Period
1. EAF	98.03	99.97											98.95
2. PH	744	672											1,416
3. SH	574.2	630.0											1,204.3
4. RSH	156.8	42.0											198.8
5. UH	13.0	0.0											13.0
6. POH	0.0	0.0											0.0
7. FOH	13.0	0.0											13.0
8. MOH	0.0	0.0											0.0
9. PPOH	0.5	2.1											2.6
10. LR PP (MW)	50.1	50.9											50.7
11. PFOH	12.0	0.0											12.0
12. LR PF (MW)	69.2	0.0											69.2
13. PMOH	0.0	0.0											0.0
14. LR PM (MW)	0.0	0.0											0.0
15. NSC (MW)	504	504											504
16. OPER MBTU	1,859,462	1,997,841											3,857,302
17. NET GEN (MWH)	268,522	289,609											558,131
18. ANOHR (BTU/KWH)	6,924.8	6,898.4											6,911.1
19. NOF (%)	92.78	91.21											91.96
20. NPC (MW)	504	504											504

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - February 2018

Bartow CC

Unit	Date	Outage Type	Hours	MW Affected	Description
BCC 4A	2/2/2018	FFO	1.47	185.0	OTHER GAS TURBINE PROBLEMS
BCC 4S	2/7/2018	PFO	19.53	120.0	FEEDWATER CHEMISTRY
BCC 4S	2/9/2018	PFO	28.55	120.0	FEEDWATER CHEMISTRY

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - February 2018

Crystal River 4

Date	Outage Type	Hours	MW Affected	Description
1/3/2018	PFO	15.17	93.0	CONDENSER TUBE LEAKS
1/4/2018	PFO	3.07	235.9	CONDENSER TUBE LEAKS
1/4/2018	PFO	1.23	474.1	CONDENSER TUBE LEAKS
1/4/2018	PFO	8.98	498.0	CONDENSER TUBE LEAKS
1/4/2018	PFO	1.48	403.3	OTHER WET SCRUBBER PROBLEMS
1/7/2018	PFO	6.00	284.0	CONDENSER TUBE LEAKS
1/7/2018	PFO	26.98	474.0	CONDENSER TUBE LEAKS
1/18/2018	PFO	2.83	1.0	OTHER MISC. OPERATIONAL ENVIRONMENTAL LIMITS-FOSSI
1/29/2018	PPO	0.60	555.4	GENERATOR - OTHER COOLING SYSTEM PROBLEMS
2/7/2018	PFO	6.48	93.0	AIR SUPPLY DAMPERS
2/27/2018	PPO	4.00	426.0	FORCED DRAFT FANS

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ACTUAL UNIT EVENT DATA -- January - February 2018

Crystal River 5

Date	Outage Type	Hours	MW Affected	Description
1/1/2018	PFO	3.17	423.9	OTHER BOILER CONTROL AND INSTRUMENTATION PROBLEMS
1/1/2018	PFO	2.13	186.1	OTHER BOILER CONTROL AND INSTRUMENTATION PROBLEMS
1/4/2018	PFO	10.92	234.0	OTHER WET SCRUBBER PROBLEMS
1/6/2018	PFO	1.40	124.8	CONDENSER TUBE LEAKS
1/7/2018	PFO	6.00	44.0	CONDENSER TUBE LEAKS
1/9/2018	PFO	12.83	472.0	CONDENSER TUBE LEAKS
1/31/2018	PPO	2.00	90.9	PULVERIZER LUBE OIL SYSTEM
2/1/2018	FMO	4.00	710.0	BURNERS
2/24/2018	PMO	22.50	496.0	WET SCRUBBER - RECYCLE (LIQUID) PUMPS

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - February 2018

Hines Power Block 1

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 1A	1/4/2018	FFO	2.40	164.7	COMBINED CYCLE INSTRUMENTS AND CONTROLS
HEP 1A	1/29/2018	FFO	35.18	164.7	GENERATOR CURRENT AND POTENTIAL TRANSFORMERS
HEP 1A	2/22/2018	PPO	0.75	54.7	TRAVELING SCREEN FOULING
HEP 1B	1/27/2018	FFO	1.00	170.7	GAS TURBINE - COOLING AND SEAL AIR SYSTEM
HEP 1B	2/22/2018	PPO	0.75	60.8	TRAVELING SCREEN FOULING
HEP ST1	1/4/2018	PFO	2.40	69.6	COMBINED CYCLE INSTRUMENTS AND CONTROLS
HEP ST1	1/27/2018	PFO	1.00	75.7	GAS TURBINE - COOLING AND SEAL AIR SYSTEM
HEP ST1	1/29/2018	PFO	35.18	69.6	GENERATOR CURRENT AND POTENTIAL TRANSFORMERS
HEP ST1	2/22/2018	PPO	0.75	35.5	TRAVELING SCREEN FOULING

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - February 2018

Hines Power Block 2

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 2B	2/21/2018	FFO	10.22	179.5	GAS TURBINE VIBRATION
HEP ST2	2/21/2018	PFO	10.22	92.3	GAS TURBINE VIBRATION

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - February 2018

Hines Power Block 3

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 3A	2/22/2018	PPO	1.00	65.1	TRAVELING SCREEN FOULING
HEP 3A	2/27/2018	FFO	3.38	175.0	GAS TURBINE CONTROL SYSTEM - HARDWARE PROBLEM
HEP 3B	1/5/2018	FFO	8.97	175.0	GAS TURBINE COMPRESSOR - BLEED VALVES
HEP 3B	1/13/2018	FFO	0.50	175.0	BLADE PATH TEMPERATURE SPREAD
HEP 3B	2/10/2018	FFO	0.17	175.0	GAS TURBINE - HIGH ENGINE EXHAUST TEMPERATURE
HEP 3B	2/10/2018	FFO	3.25	175.0	HP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP 3B	2/22/2018	PPO	1.00	65.1	TRAVELING SCREEN FOULING
HEP ST3	1/5/2018	PFO	8.97	81.0	GAS TURBINE COMPRESSOR - BLEED VALVES
HEP ST3	2/22/2018	PPO	1.00	47.0	TRAVELING SCREEN FOULING
HEP ST3	2/27/2018	PFO	3.38	81.0	GAS TURBINE CONTROL SYSTEM - HARDWARE PROBLEM

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - February 2018

Hines Power Block 4

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 4A	1/22/2018	PPO	0.50	68.8	TRAVELING SCREEN FOULING
HEP 4A	2/2/2018	PPO	1.10	56.9	TRAVELING SCREEN FOULING
HEP 4A	2/22/2018	PPO	1.00	61.9	TRAVELING SCREEN FOULING
HEP 4B	1/13/2018	FFO	38.25	170.9	IP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP 4B	1/22/2018	PPO	0.50	66.0	TRAVELING SCREEN FOULING
HEP 4B	2/2/2018	PPO	1.10	55.9	TRAVELING SCREEN FOULING
HEP 4B	2/22/2018	PPO	1.00	60.9	TRAVELING SCREEN FOULING
HEP ST4	1/13/2018	PFO	37.50	69.2	IP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP ST4	1/22/2018	PPO	0.50	13.2	TRAVELING SCREEN FOULING
HEP ST4	2/2/2018	PPO	1.10	31.2	TRAVELING SCREEN FOULING
HEP ST4	2/22/2018	PPO	1.00	37.2	TRAVELING SCREEN FOULING