



Matthew R. Bernier
ASSOCIATE GENERAL COUNSEL

February 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 January 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 January 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
Attachments

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 January 2018 has been furnished to the following individuals via e-mail on this 20th day of February, 2018.

/s/ Matthew R. Bernier

Attorney

<p>Suzanne Brownless Office of General Counsel FL Public Service Commission 2540 Shumard Oak Blvd. Tallahassee, FL 32399-0850 sbrownle@psc.state.fl.us</p> <p>James Beasley / J. Jeffry Wahlen Ausley McMullen P.O. Box 391 Tallahassee, FL 32302 jbeasley@ausley.com jwahlen@ausley.com</p> <p>Russell Badders / Steven Griffin Beggs & Lane P.O. Box 12950 Pensacola, FL 32591 rab@beggslane.com srg@beggslane.com</p> <p>Kenneth A. Hoffman Florida Power & Light Company 215 S. Monroe Street, Suite 810 Tallahassee, FL 32301-1858 ken.hoffman@fpl.com</p> <p>Rhonda J. Alexander / Jeffrey A. Stone Gulf Power Company One Energy Place Pensacola, FL 32520 rjalexad@southernco.com jastone@southernco.com</p> <p>Jon C. Moyle, Jr. Moyle Law Firm, P.A. 118 North Gadsden Street Tallahassee, FL 32301 jmoyle@moylelaw.com</p> <p>Beth Keating Gunster, Yoakley & Stewart, P.A. 215 South Monroe Street, Suite 601 Tallahassee, FL 32301 bkeating@gunster.com</p>	<p>Charles Rehwinkel / Erik Sayler/ J.R. Kelly / Patricia Christensen Office of Public Counsel c/o The Florida Legislature 111 W. Madison St., Room 812 Tallahassee, FL 32399-1400 kelly.jr@leg.state.fl.us sayler.erik@leg.state.fl.us christensen.patty@leg.state.fl.us rehwinkel.charles@leg.state.fl.us</p> <p>Ms. Paula K. Brown Regulatory Affairs Tampa Electric Company P.O. Box 111 Tampa, FL 33601-0111 regdept@tecoenergy.com</p> <p>John Butler / Maria Moncada Florida Power & Light Company 700 Universe Blvd (LAW/JB) Juno Beach, FL 33408-0420 john.butler@fpl.com maria.moncada@fpl.com</p> <p>James Brew / Laura Wynn Stone Law Firm 1025 Thomas Jefferson St., N.W. Suite 800 West Washington, DC 20007 jbrew@smxblaw.com law@smxblaw.com</p> <p>Robert Scheffel Wright / John T. LaVia, III c/o Gardner Law Firm 1300 Thomaswood Drive Tallahassee, FL 32308 schef@gbwlegal.com jlavia@gbwlegal.com</p> <p><u>Mike Cassel</u> Florida Public Utilities Company 1750 S. 14th Street, Suite 200 Fernandina Beach, FL 32034 mcassel@fpuc.com</p>
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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 - Jan Period
1. EAF	100.00												100.00
2. PH	744												744
3. SH	723.1												723.1
4. RSH	20.9												20.9
5. UH	0.0												0.0
6. POH	0.0												0.0
7. FOH	0.0												0.0
8. MOH	0.0												0.0
9. PPOH	0.0												0.0
10. LR PP (MW)	0.0												0.0
11. PFOH	0.0												0.0
12. LR PF (MW)	0.0												0.0
13. PMOH	0.0												0.0
14. LR PM (MW)	0.0												0.0
15. NSC (MW)	1080												1080
16. OPER MBTU	4,808,629												4,808,629
17. NET GEN (MWH)	627,889												627,889
18. ANOHR (BTU/KWH)	7,658.4												7,658.4
19. NOF (%)	80.40												80.40
20. NPC (MW)	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 - Jan Period
1. EAF	95.73												95.73
2. PH	744												744
3. SH	744.0												744.0
4. RSH	0.0												0.0
5. UH	0.0												0.0
6. POH	0.0												0.0
7. FOH	0.0												0.0
8. MOH	0.0												0.0
9. PPOH	0.6												0.6
10. LR PP (MW)	555.0												555.0
11. PFOH	65.7												65.7
12. LR PF (MW)	339.0												339.0
13. PMOH	0.0												0.0
14. LR PM (MW)	0.0												0.0
15. NSC (MW)	712												712
16. OPER MBTU	4,015,993												4,015,993
17. NET GEN (MWH)	413,001												413,001
18. ANOHR (BTU/KWH)	9,723.9												9,723.9
19. NOF (%)	77.96												77.96
20. NPC (MW)	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 - Jan Period
1. EAF	97.92												97.92
2. PH	744												744
3. SH	744.0												744.0
4. RSH	0.0												0.0
5. UH	0.0												0.0
6. POH	0.0												0.0
7. FOH	0.0												0.0
8. MOH	0.0												0.0
9. PPOH	2.0												2.0
10. LR PP (MW)	91.0												91.0
11. PFOH	36.5												36.5
12. LR PF (MW)	296.0												296.0
13. PMOH	0.0												0.0
14. LR PM (MW)	0.0												0.0
15. NSC (MW)	710												710
16. OPER MBTU	4,144,476												4,144,476
17. NET GEN (MWH)	429,919												429,919
18. ANOHR (BTU/KWH)	9,640.1												9,640.1
19. NOF (%)	81.39												81.39
20. NPC (MW)	710												710

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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 - Jan Period
1. EAF	98.04												98.04
2. PH	744												744
3. SH	714.5												714.5
4. RSH	16.7												16.7
5. UH	12.9												12.9
6. POH	0.0												0.0
7. FOH	12.9												12.9
8. MOH	0.0												0.0
9. PPOH	0.0												0.0
10. LR PP (MW)	0.0												0.0
11. PFOH	12.4												12.4
12. LR PF (MW)	69.8												69.8
13. PMOH	0.0												0.0
14. LR PM (MW)	0.0												0.0
15. NSC (MW)	495												495
16. OPER MBTU	2,318,447												2,318,447
17. NET GEN (MWH)	321,975												321,975
18. ANOHR (BTU/KWH)	7,200.7												7,200.7
19. NOF (%)	91.04												91.04
20. NPC (MW)	495												495

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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 - Jan Period
1. EAF	100.00												100.00
2. PH	744												744
3. SH	693.3												693.3
4. RSH	50.7												50.7
5. UH	0.0												0.0
6. POH	0.0												0.0
7. FOH	0.0												0.0
8. MOH	0.0												0.0
9. PPOH	0.0												0.0
10. LR PP (MW)	0.0												0.0
11. PFOH	0.0												0.0
12. LR PF (MW)	0.0												0.0
13. PMOH	0.0												0.0
14. LR PM (MW)	0.0												0.0
15. NSC (MW)	527												527
16. OPER MBTU	2,282,848												2,282,848
17. NET GEN (MWH)	314,763												314,763
18. ANOHR (BTU/KWH)	7,252.6												7,252.6
19. NOF (%)	86.15												86.15
20. NPC (MW)	527												527

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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 - Jan Period
1. EAF	99.51												99.51
2. PH	744												744
3. SH	478.3												478.3
4. RSH	262.5												262.5
5. UH	3.2												3.2
6. POH	0.0												0.0
7. FOH	3.2												3.2
8. MOH	0.0												0.0
9. PPOH	0.0												0.0
10. LR PP (MW)	0.0												0.0
11. PFOH	2.9												2.9
12. LR PF (MW)	81.0												81.0
13. PMOH	0.0												0.0
14. LR PM (MW)	0.0												0.0
15. NSC (MW)	521												521
16. OPER MBTU	1,547,605												1,547,605
17. NET GEN (MWH)	207,822												207,822
18. ANOHR (BTU/KWH)	7,446.8												7,446.8
19. NOF (%)	83.40												83.40
20. NPC (MW)	521												521

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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 - Jan Period
1. EAF	98.03												98.03
2. PH	744												744
3. SH	574.2												574.2
4. RSH	156.8												156.8
5. UH	13.0												13.0
6. POH	0.0												0.0
7. FOH	13.0												13.0
8. MOH	0.0												0.0
9. PPOH	0.5												0.5
10. LR PP (MW)	50.1												50.1
11. PFOH	12.0												12.0
12. LR PF (MW)	69.2												69.2
13. PMOH	0.0												0.0
14. LR PM (MW)	0.0												0.0
15. NSC (MW)	504												504
16. OPER MBTU	1,859,462												1,859,462
17. NET GEN (MWH)	268,522												268,522
18. ANOHR (BTU/KWH)	6,924.8												6,924.8
19. NOF (%)	92.78												92.78
20. NPC (MW)	504												504

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ACTUAL UNIT EVENT DATA -- January - January 2018

Bartow CC

Unit	Date	Outage Type	Hours	MW Affected	Description

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ACTUAL UNIT EVENT DATA -- January - January 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

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ACTUAL UNIT EVENT DATA -- January - January 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

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ACTUAL UNIT EVENT DATA -- January - January 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 1B	1/27/2018	FFO	1.00	170.7	GAS TURBINE - COOLING AND SEAL AIR SYSTEM
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

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ACTUAL UNIT EVENT DATA -- January - January 2018

Hines Power Block 2

Unit	Date	Outage Type	Hours	MW Affected	Description

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - January 2018

Hines Power Block 3

Unit	Date	Outage Type	Hours	MW Affected	Description
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 ST3	1/5/2018	PFO	8.97	81.0	GAS TURBINE COMPRESSOR - BLEED VALVES

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - January 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 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 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