



Matthew R. Bernier
ASSOCIATE GENERAL COUNSEL

March 28, 2019

VIA ELECTRONIC FILING

Mr. Adam Teitzman, Commission Clerk
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, Florida 32399-0850

Re: *Performance Data Report for February 2019*
Docket No. 20190001-EI

Dear Mr. Teitzman:

Attached for electronic filing in the above-referenced Docket is Duke Energy Florida, LLC's Performance Data Report for February 2019.

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/cm
Attachment

cc: Daniel Lee, Division of Engineering, FPSC

CERTIFICATE OF SERVICE

Docket No. 20190001-EI

I HEREBY CERTIFY that a true copy of Performance Data Report for the month of February 2019 has been furnished to the following individuals via e-mail on this 28th day of March, 2019.

/s/ Matthew R. Bernier

Attorney

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Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2019

Bartow CC	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan - Feb Period
1. EAF	98.50	97.87											98.20
2. PH	744	672											1,416
3. SH	603.9	593.9											1,197.9
4. RSH	128.9	65.1											194.0
5. UH	11.2	12.9											24.1
6. POH	0.0	0.0											0.0
7. FOH	8.7	12.9											21.6
8. MOH	2.5	0.0											2.5
9. PPOH	0.0	0.0											0.0
10. LR PP (MW)	0.0	0.0											0.0
11. PFOH	0.0	21.6											21.6
12. LR PF (MW)	0.0	67.0											67.0
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	3,968,623	3,524,794											7,493,417
17. NET GEN (MWH)	519,987	458,412											978,399
18. ANOHR (BTU/KWH)	7,632.2	7,689.1											7,658.9
19. NOF (%)	79.72	71.47											75.63
20. NPC (MW)	1080	1080											1080

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2019

CRYSTAL RIVER 4	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan - Feb Period
1. EAF	95.90	98.58											97.18
2. PH	744	672											1,416
3. SH	249.0	85.3											334.3
4. RSH	465.5	582.4											1,047.9
5. UH	29.6	4.2											33.8
6. POH	0.0	4.2											4.2
7. FOH	29.6	0.0											29.6
8. MOH	0.0	0.0											0.0
9. PPOH	0.0	6.7											6.7
10. LR PP (MW)	0.0	93.0											93.0
11. PFOH	2.2	2.9											5.1
12. LR PF (MW)	284.4	93.0											176.2
13. PMOH	0.0	31.0											31.0
14. LR PM (MW)	0.0	93.0											93.0
15. NSC (MW)	712	712											712
16. OPER MBTU	917,440	391,844											1,309,284
17. NET GEN (MWH)	82,152	31,051											113,203
18. ANOHR (BTU/KWH)	11,167.6	12,619.4											11,565.8
19. NOF (%)	46.35	51.11											47.56
20. NPC (MW)	712	712											712

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2019

CRYSTAL RIVER 5	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan - Feb Period
1. EAF	99.93	78.57											89.79
2. PH	744	672											1,416
3. SH	547.7	0.0											547.7
4. RSH	196.3	528.0											724.3
5. UH	0.0	144.0											144.0
6. POH	0.0	144.0											144.0
7. FOH	0.0	0.0											0.0
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	1.0	0.0											1.0
12. LR PF (MW)	377.0	0.0											377.0
13. PMOH	0.0	0.0											0.0
14. LR PM (MW)	0.0	0.0											0.0
15. NSC (MW)	710	710											710
16. OPER MBTU	2,006,569	0											2,006,569
17. NET GEN (MWH)	185,022	0											185,022
18. ANOHR (BTU/KWH)	10,845.0	0.0											10,845.0
19. NOF (%)	47.58	0.00											47.58
20. NPC (MW)	710	710											710

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ACTUAL UNIT PERFORMANCE DATA -- YEAR 2019

HINES Power Block 1	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan - Feb Period
1. EAF	47.59	89.85											67.64
2. PH	744	672											1,416
3. SH	356.2	588.3											944.5
4. RSH	25.7	17.4											43.2
5. UH	362.1	66.2											428.3
6. POH	0.0	0.0											0.0
7. FOH	6.7	0.0											6.7
8. MOH	355.4	66.2											421.6
9. PPOH	0.0	0.0											0.0
10. LR PP (MW)	0.0	0.0											0.0
11. PFOH	166.5	12.0											178.5
12. LR PF (MW)	82.0	82.0											82.0
13. PMOH	0.0	0.0											0.0
14. LR PM (MW)	0.0	0.0											0.0
15. NSC (MW)	490	490											490
16. OPER MBTU	872,136	1,738,925											2,611,061
17. NET GEN (MWH)	114,118	234,944											349,062
18. ANOHR (BTU/KWH)	7,642.4	7,401.4											7,480.2
19. NOF (%)	65.39	81.50											75.42
20. NPC (MW)	490	490											490

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ACTUAL UNIT PERFORMANCE DATA -- YEAR 2019

HINES Power Block 2	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan - Feb Period
1. EAF	99.35	99.93											99.63
2. PH	744	672											1,416
3. SH	522.1	594.2											1,116.3
4. RSH	217.0	77.8											294.9
5. UH	4.8	0.0											4.8
6. POH	0.0	0.0											0.0
7. FOH	4.8	0.0											4.8
8. MOH	0.0	0.0											0.0
9. PPOH	0.0	4.5											4.5
10. LR PP (MW)	0.0	51.1											51.1
11. PFOH	0.0	0.0											0.0
12. LR PF (MW)	0.0	0.0											0.0
13. PMOH	0.0	0.0											0.0
14. LR PM (MW)	0.0	0.0											0.0
15. NSC (MW)	512	512											512
16. OPER MBTU	1,575,600	1,841,414											3,417,014
17. NET GEN (MWH)	216,465	250,392											466,857
18. ANOHR (BTU/KWH)	7,278.8	7,354.1											7,319.2
19. NOF (%)	80.97	82.31											81.68
20. NPC (MW)	512	512											512

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ACTUAL UNIT PERFORMANCE DATA -- YEAR 2019

HINES Power Block 3	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan - Feb Period
1. EAF	99.50	100.00											99.74
2. PH	744	672											1,416
3. SH	700.1	638.3											1,338.5
4. RSH	40.7	33.7											74.3
5. UH	3.2	0.0											3.2
6. POH	0.0	0.0											0.0
7. FOH	3.2	0.0											3.2
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	3.3	0.0											3.3
12. LR PF (MW)	75.3	0.0											75.3
13. PMOH	0.0	0.0											0.0
14. LR PM (MW)	0.0	0.0											0.0
15. NSC (MW)	516	516											516
16. OPER MBTU	2,287,431	1,840,031											4,127,462
17. NET GEN (MWH)	308,437	251,190											559,627
18. ANOHR (BTU/KWH)	7,416.2	7,325.3											7,375.4
19. NOF (%)	85.38	76.26											81.03
20. NPC (MW)	516	516											516

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2019

HINES Power Block 4	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan - Feb Period
1. EAF	99.64	99.77											99.70
2. PH	744	672											1,416
3. SH	677.2	637.2											1,314.4
4. RSH	64.8	33.4											98.2
5. UH	2.0	1.4											3.4
6. POH	0.0	0.0											0.0
7. FOH	2.0	1.4											3.4
8. MOH	0.0	0.0											0.0
9. PPOH	5.5	0.0											5.5
10. LR PP (MW)	64.2	0.0											64.2
11. PFOH	0.0	0.0											0.0
12. LR PF (MW)	0.0	0.0											0.0
13. PMOH	0.0	1.3											1.3
14. LR PM (MW)	0.0	78.1											78.1
15. NSC (MW)	516	516											516
16. OPER MBTU	2,212,083	1,913,058											4,125,141
17. NET GEN (MWH)	319,434	276,729											596,163
18. ANOHR (BTU/KWH)	6,925.0	6,913.1											6,919.5
19. NOF (%)	91.42	84.16											87.90
20. NPC (MW)	516	516											516

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - February 2019

Bartow CC

Unit	Date	Outage Type	Hours	MW Affected	Description
BCC 4A	1/19/2019	FMO	14.00	185.0	OTHER CO REDUCTION PROBLEMS
BCC 4B	2/11/2019	FFO	74.72	183.0	GAS TURBINE - STARTING SYSTEM (INCLUDING MOTOR)
BCC 4S	1/7/2019	FFO	30.10	339.0	CIRCULATING WATER PUMPS
BCC 4S	2/11/2019	PFO	74.72	67.0	GAS TURBINE - STARTING SYSTEM (INCLUDING MOTOR)

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ACTUAL UNIT EVENT DATA -- January - February 2019

Crystal River 4

Date	Outage Type	Hours	MW Affected	Description
1/20/2019	FFO	29.58	712.0	DESUPERHEATER/ATTEMPERATOR CONTROLS (NOT LOCAL CONTROLS)
1/26/2019	PFO	2.23	284.1	CONDENSATE VALVES
2/25/2019	PO	0.13	712.0	FEEDWATER CONTROLS
2/25/2019	PO	4.10	712.0	CONDENSATE/HOTWELL PUMPS
2/26/2019	PMO	27.50	93.0	PULVERIZER MILLS
2/28/2019	PMO	3.50	93.0	PULVERIZED FUEL AND AIR PIPING (PULVERIZER TO WIND BOX)
2/28/2019	PFO	2.90	93.1	PULVERIZED FUEL AND AIR PIPING (PULVERIZER TO WIND BOX)
2/28/2019	PPO	6.67	93.0	PULVERIZER MILLS

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ACTUAL UNIT EVENT DATA -- January - February 2019

Crystal River 5

Date	Outage Type	Hours	MW Affected	Description
1/11/2019	PFO	1.00	377.0	OTHER PULVERIZER PROBLEMS
2/23/2019	PO	144.00	710.0	BOILER - OTHER INTERNAL AND STRUCTURAL PROBLEMS

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ACTUAL UNIT EVENT DATA -- January - February 2019

Hines Power Block 1

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 1A	1/1/2019	FMO	95.75	163.0	OTHER EXCITER PROBLEMS
HEP 1A	1/6/2019	FMO	83.48	163.0	LP TURBINE SHAFT SEALS
HEP 1A	2/8/2019	FMO	58.00	163.0	IP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP 1B	1/1/2019	FMO	95.75	169.0	OTHER EXCITER PROBLEMS
HEP 1B	1/6/2019	FMO	83.00	169.0	LP TURBINE SHAFT SEALS
HEP 1B	1/9/2019	FFO	20.00	169.0	GAS TURBINE - CONTROLS AND INSTRUMENTS
HEP 1B	1/10/2019	FMO	534.42	169.0	GENERATOR LUBE OIL SYSTEM
HEP 1B	2/8/2019	FMO	42.27	169.0	HP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP 1B	2/10/2019	FMO	16.73	169.0	HP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP ST1	1/1/2019	FMO	95.75	158.0	OTHER EXCITER PROBLEMS
HEP ST1	1/6/2019	FMO	92.92	158.0	LP TURBINE SHAFT SEALS
HEP ST1	1/10/2019	PFO	525.83	82.0	GENERATOR LUBE OIL SYSTEM
HEP ST1	2/8/2019	PFO	15.73	82.0	IP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP ST1	2/8/2019	FMO	42.27	158.0	IP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP ST1	2/10/2019	FMO	18.42	158.0	HP STARTUP BYPASS INSTRUMENTATION AND CONTROLS

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - February 2019

Hines Power Block 2

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 2A	1/1/2019	FFO	4.50	166.3	OTHER MISC. OPERATIONAL ENVIRONMENTAL LIMITS - GAS
HEP 2A	2/8/2019	PPO	4.50	60.3	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
HEP 2B	1/1/2019	FFO	4.53	174.3	OTHER MISC. OPERATIONAL ENVIRONMENTAL LIMITS - GAS
HEP 2B	2/8/2019	PPO	4.50	68.3	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
HEP ST2	1/1/2019	FFO	5.47	171.3	OTHER MISC. OPERATIONAL ENVIRONMENTAL LIMITS - GAS
HEP ST2	2/8/2019	PPO	4.50	25.4	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - February 2019

Hines Power Block 3

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 3B	1/31/2019	FFO	9.70	173.3	GAS TURBINE - CONTROLS AND INSTRUMENTS
HEP ST3	1/31/2019	PFO	9.70	75.3	GAS TURBINE - CONTROLS AND INSTRUMENTS

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - February 2019

Hines Power Block 4

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 4A	1/22/2019	PPO	1.50	75.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4A	1/23/2019	PPO	3.00	72.0	DISTRIBUTIVE CONTROL SYSTEM - PROCESS COMPUTER
HEP 4A	1/28/2019	PPO	2.00	70.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4B	1/20/2019	FFO	0.08	175.0	HP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP 4B	1/20/2019	FFO	0.05	175.0	HP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP 4B	1/20/2019	FFO	5.80	175.0	HP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP 4B	1/22/2019	PPO	1.50	74.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4B	1/28/2019	PPO	2.00	69.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4B	2/24/2019	FFO	4.00	175.0	GAS TURBINE - IGNITION SYSTEM
HEP ST4	1/22/2019	PPO	1.50	21.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST4	1/23/2019	PPO	3.00	91.0	DISTRIBUTIVE CONTROL SYSTEM - PROCESS COMPUTER
HEP ST4	1/28/2019	PPO	2.00	18.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST4	2/24/2019	PMO	4.00	78.0	GAS TURBINE - IGNITION SYSTEM