



MATTHEW R. BERNIER
SENIOR COUNSEL

April 19, 2016

VIA ELECTRONIC FILING

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

Re: Docket No.: 160001
Performance Data Report for March 2016

Dear Ms. Stauffer:

Enclosed for filing in the above docket is Duke Energy Florida, LLC's Performance Data Report for March 2016.

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
Enclosure

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

CERTIFICATE OF SERVICE

Docket No. 160001-EI

I HEREBY CERTIFY that a true copy of Duke Energy Florida, LLC's Performance Data Report for the month of March 2016 has been furnished to the following individuals via e-mail on this 19th day of April, 2016.

/s/ Matthew R. Bernier

Attorney

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Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2016

Bartow CC	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan - Mar Period
1. EAF	90.99	98.10	76.99										88.49
2. PH	744	696	743										2,183
3. SH	648.7	645.8	548.9										1,843.5
4. RSH	28.3	37.0	23.1										88.4
5. UH	67.0	13.2	171.0										251.2
6. POH	0.0	0.0	171.0										171.0
7. FOH	67.0	13.2	0.0										80.2
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	0.0	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	4,724,270	4,705,387	3,521,015										12,950,672
17. NET GEN (MWH)	640,347	644,116	488,672										1,773,135
18. ANOHR (BTU/KWH)	7,377.7	7,305.2	7,205.3										7,303.8
19. NOF (%)	84.95	85.83	76.61										82.78
20. NPC (MW)	1162	1162	1162										1162

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2016

CRYSTAL RIVER 4	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan - Mar Period
1. EAF	97.15	87.56	10.31										64.54
2. PH	744	696	743										2,183
3. SH	723.1	613.7	83.8										1,420.5
4. RSH	0.0	0.0	0.0										0.0
5. UH	20.9	82.4	659.2										762.5
6. POH	0.0	82.4	659.2										741.6
7. FOH	20.9	0.0	0.0										20.9
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	0.0	0.0										0.0
12. LR PF (MW)	0.0	0.0	0.0										0.0
13. PMOH	2.0	17.3	54.7										74.0
14. LR PM (MW)	93.0	174.0	93.0										111.9
15. NSC (MW)	712	712	712										712
16. OPER MBTU	3,181,413	2,381,195	328,279										5,890,888
17. NET GEN (MWH)	281,627	212,501	27,079										521,207
18. ANOHR (BTU/KWH)	11,296.5	11,205.6	12,123.0										11,302.4
19. NOF (%)	54.70	48.64	45.40										51.53
20. NPC (MW)	712	712	712										712

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2016

CRYSTAL RIVER 5	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan - Mar Period
1. EAF	98.65	98.05	99.22										98.65
2. PH	744	696	743										2,183
3. SH	618.5	696.0	743.0										2,057.5
4. RSH	124.4	0.0	0.0										124.4
5. UH	1.2	0.0	0.0										1.2
6. POH	0.0	0.0	0.0										0.0
7. FOH	1.2	0.0	0.0										1.2
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	20.0	8.3	5.5										33.7
12. LR PF (MW)	303.7	91.1	91.0										217.3
13. PMOH	3.6	58.1	10.5										72.3
14. LR PM (MW)	63.1	152.7	345.0										176.1
15. NSC (MW)	710	710	710										710
16. OPER MBTU	2,805,817	2,583,132	2,935,831										8,324,780
17. NET GEN (MWH)	249,857	236,536	280,664										767,057
18. ANOHR (BTU/KWH)	11,229.7	10,920.7	10,460.3										10,852.9
19. NOF (%)	56.90	47.87	53.20										52.51
20. NPC (MW)	710	710	710										710

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2016

HINES Power Block 1	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan - Mar Period
1. EAF	100.00	100.00	64.99										88.08
2. PH	744	696	743										2,183
3. SH	744.0	696.0	477.7										1,917.7
4. RSH	0.0	0.0	5.2										5.2
5. UH	0.0	0.0	260.1										260.1
6. POH	0.0	0.0	214.8										214.8
7. FOH	0.0	0.0	45.4										45.4
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	0.0	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)	518	518	518										518
16. OPER MBTU	2,438,979	2,267,530	1,577,217										6,283,726
17. NET GEN (MWH)	344,015	322,178	207,300										873,493
18. ANOHR (BTU/KWH)	7,089.7	7,038.1	7,608.4										7,193.8
19. NOF (%)	89.26	89.36	83.78										87.93
20. NPC (MW)	518	518	518										518

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2016

HINES Power Block 2	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan - Mar Period
1. EAF	99.62	65.36	25.92										63.61
2. PH	744	696	743										2,183
3. SH	649.8	316.3	191.6										1,157.7
4. RSH	91.4	138.6	0.9										230.9
5. UH	2.9	241.1	550.4										794.4
6. POH	0.0	240.0	527.0										767.0
7. FOH	2.9	1.1	23.5										27.4
8. MOH	0.0	0.0	0.0										0.0
9. PPOH	0.0	1.7	0.0										1.7
10. LR PP (MW)	0.0	68.6	0.0										68.6
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)	546	546	546										546
16. OPER MBTU	2,135,651	1,041,398	611,137										3,788,185
17. NET GEN (MWH)	288,534	138,689	84,068										511,291
18. ANOHR (BTU/KWH)	7,401.7	7,508.9	7,269.6										7,409.1
19. NOF (%)	81.33	80.30	80.35										80.89
20. NPC (MW)	546	546	546										546

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2016

HINES Power Block 3	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan - Mar Period
1. EAF	100.00	100.00	100.00										100.00
2. PH	744	696	743										2,183
3. SH	699.6	647.3	700.1										2,046.9
4. RSH	44.4	48.7	43.0										136.1
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	2.3	7.7										10.0
10. LR PP (MW)	0.0	52.4	59.5										57.9
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)	544	544	544										544
16. OPER MBTU	2,363,034	2,105,001	2,263,623										6,731,657
17. NET GEN (MWH)	327,590	288,963	313,593										930,146
18. ANOHR (BTU/KWH)	7,213.4	7,284.7	7,218.3										7,237.2
19. NOF (%)	86.08	82.06	82.35										83.53
20. NPC (MW)	544	544	544										544

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2016

HINES Power Block 4	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan - Mar Period
1. EAF	99.12	100.00	100.00										99.70
2. PH	744	696	743										2,183
3. SH	713.5	696.0	743.0										2,152.5
4. RSH	24.0	0.0	0.0										24.0
5. UH	6.6	0.0	0.0										6.6
6. POH	0.0	0.0	0.0										0.0
7. FOH	6.6	0.0	0.0										6.6
8. MOH	0.0	0.0	0.0										0.0
9. PPOH	1.5	8.0	1.2										10.7
10. LR PP (MW)	59.2	59.3	55.4										58.9
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)	528	528	528										528
16. OPER MBTU	2,418,323	2,361,296	2,500,840										7,280,459
17. NET GEN (MWH)	348,625	337,289	358,855										1,044,769
18. ANOHR (BTU/KWH)	6,936.7	7,000.8	6,968.9										6,968.5
19. NOF (%)	92.54	91.78	91.47										91.93
20. NPC (MW)	528	528	528										528

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - March 2016

Bartow CC

Unit	Date	Outage Type	Hours	MW Affected	Description
BCC 4A	1/24/2016	FFO	18.00	176.7	LOW PRESSURE COMPRESSURE BLEED VALVES
BCC 4A	1/27/2016	FFO	22.08	176.7	GAS TURBINE - COOLING WATER SYSTEM
BCC 4B	1/17/2016	FFO	9.00	177.7	GAS TURBINE - LOAD SHAFT AND BEARINGS
BCC 4B	1/27/2016	FFO	31.58	177.7	GAS TURBINE - COOLING WATER SYSTEM
BCC 4B	2/26/2016	FFO	21.23	177.7	GENERATOR METERING DEVICES
BCC 4B	3/5/2016	PO	646.27	177.7	GAS TURBINE - EXHAUST SYSTEM VANES/NOZZLES
BCC 4C	1/3/2016	FFO	2.00	180.9	OTHER GAS TURBINE PROBLEMS
BCC 4C	1/27/2016	FFO	86.70	180.9	CIRCULATING WATER PUMPS
BCC 4C	1/30/2016	FFO	19.80	180.9	NOX STACK EMISSIONS - GAS TURBINE UNITS
BCC 4C	2/19/2016	FFO	63.98	180.9	HP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
BCC 4D	1/26/2016	FFO	1.98	175.6	GAS TURBINE COMPRESSOR - BLEED VALVES
BCC 4D	3/12/2016	PO	477.15	175.6	GAS TURBINE - EXHAUST SYSTEM VANES/NOZZLES
BCC 4S	1/27/2016	FFO	96.70	451.1	CIRCULATING WATER SYSTEM INSTRUMENTS AND CONTROLS

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - March 2016

Crystal River 4

Date	Outage Type	Hours	MW Affected	Description
1/2/2016	FFO	20.93	712.0	PRIMARY AIR HEATER
1/5/2016	PMO	2.00	92.9	PRIMARY AIR DUCTS AND DAMPERS
2/4/2016	PMO	4.28	69.0	INDUCED DRAFT FANS
2/15/2016	PMO	5.50	236.0	4000-7000-VOLT CIRCUIT BREAKERS
2/17/2016	PMO	2.50	93.1	4000-7000-VOLT CIRCUIT BREAKERS
2/17/2016	PMO	5.00	236.0	4000-7000-VOLT CIRCUIT BREAKERS
2/26/2016	PO	741.58	712.0	MINOR BOILER OVERHAUL (LESS THAN 720 HOURS)
3/28/2016	PMO	54.67	93.0	PULVERIZER MILLS

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - March 2016

Crystal River 5

Date	Outage Type	Hours	MW Affected	Description
1/7/2016	FFO	1.15	710.0	FEEDWATER PUMP DRIVE - STEAM TURBINE
1/7/2016	PFO	12.35	424.0	FEEDWATER PUMP/DRIVE LUBE OIL SYSTEM
1/15/2016	PMO	3.63	62.9	PULVERIZER MOTORS AND DRIVES
1/29/2016	PFO	7.67	110.0	SOOT BLOWERS - STEAM
2/5/2016	PFO	2.43	91.0	WET COAL (OMC)
2/6/2016	PFO	5.83	91.0	PULVERIZER FEEDERS
2/15/2016	PMO	6.25	234.0	CONDENSATE/HOTWELL PUMPS
2/15/2016	PMO	6.50	472.0	OTHER FEEDWATER VALVES
2/16/2016	PMO	7.98	234.0	CONDENSATE/HOTWELL PUMPS
2/17/2016	PMO	3.33	91.0	HEATER LEVEL CONTROL
2/22/2016	PMO	33.08	63.0	PULVERIZER MILLS
2/27/2016	PMO	1.00	90.9	PULVERIZER FEEDERS
3/1/2016	PMO	5.00	472.0	OTHER FEEDWATER VALVES
3/18/2016	PMO	3.50	91.1	PRIMARY AIR DUCTS AND DAMPERS
3/24/2016	PMO	2.00	472.2	START-UP FEEDWATER PUMP
3/30/2016	PFO	5.45	91.1	HEATER DRAIN PUMPS

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - March 2016

Hines Power Block 1

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 1A	3/19/2016	FFO	30.00	169.3	GENERATOR SEAL OIL SYSTEM AND SEALS
HEP 1A	3/21/2016	FFO	6.02	169.3	GAS TURBINE - FUEL PIPING AND VALVES
HEP 1A	3/23/2016	PO	214.75	169.3	GENERAL GAS TURBINE UNIT INSPECTION
HEP 1B	3/19/2016	FFO	60.17	169.3	GENERATOR SEAL OIL SYSTEM AND SEALS
HEP 1B	3/23/2016	PO	214.75	169.3	GENERAL GAS TURBINE UNIT INSPECTION
HEP ST1	3/19/2016	FFO	40.20	179.4	GENERATOR SEAL OIL SYSTEM AND SEALS
HEP ST1	3/23/2016	PO	214.75	179.4	GENERAL GAS TURBINE UNIT INSPECTION

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - March 2016

Hines Power Block 2

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 2A	1/27/2016	FFO	0.20	171.6	GAS TURBINE - FUEL PIPING AND VALVES
HEP 2A	1/27/2016	FFO	0.58	171.6	GAS TURBINE - FUEL PIPING AND VALVES
HEP 2A	1/29/2016	FFO	1.90	171.6	GAS TURBINE CONTROL SYSTEM - HARDWARE PROBLEM
HEP 2A	1/29/2016	FFO	0.13	171.6	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
HEP 2A	1/29/2016	FFO	6.30	171.6	GAS TURBINE - FUEL PIPING AND VALVES
HEP 2A	2/9/2016	PPO	1.00	58.5	INTAKE GRATING FOULING
HEP 2A	2/13/2016	PPO	0.70	72.6	INTAKE GRATING FOULING
HEP 2A	2/20/2016	PO	767.45	171.6	GENERAL GAS TURBINE UNIT INSPECTION
HEP 2A	3/24/2016	FFO	30.03	171.6	FEEDWATER PUMP
HEP 2A	3/25/2016	FFO	35.47	171.6	FEEDWATER PUMP
HEP 2B	2/8/2016	FFO	3.43	171.6	GAS TURBINE CONTROL SYSTEM - HARDWARE PROBLEM
HEP 2B	2/9/2016	PPO	1.00	58.5	INTAKE GRATING FOULING
HEP 2B	2/13/2016	PPO	0.70	72.6	INTAKE GRATING FOULING
HEP 2B	2/20/2016	PO	754.50	171.6	GENERAL GAS TURBINE UNIT INSPECTION
HEP 2B	3/22/2016	PO	9.88	171.6	OTHER FEEDWATER VALVES
HEP 2B	3/24/2016	FFO	1.93	171.6	FEEDWATER PUMP
HEP 2B	3/28/2016	FFO	3.17	171.6	OTHER INSTRUMENT AIR PROBLEMS
HEP ST2	2/9/2016	PPO	1.00	75.8	INTAKE GRATING FOULING
HEP ST2	2/13/2016	PPO	0.70	75.9	INTAKE GRATING FOULING
HEP ST2	2/20/2016	PO	768.75	202.8	INSPECTION
HEP ST2	3/24/2016	FFO	3.43	202.8	FEEDWATER PUMP

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - March 2016

Hines Power Block 3

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 3A	2/10/2016	PPO	1.53	52.7	INTAKE GRATING FOULING
HEP 3A	2/21/2016	PPO	0.75	52.8	INTAKE GRATING FOULING
HEP 3A	3/6/2016	PPO	1.25	63.7	INTAKE GRATING FOULING
HEP 3A	3/28/2016	PPO	6.42	59.8	CONDENSER TUBE AND WATER BOX CLEANING
HEP 3B	2/10/2016	PPO	1.53	52.7	INTAKE GRATING FOULING
HEP 3B	2/21/2016	PPO	0.75	52.8	INTAKE GRATING FOULING
HEP 3B	3/6/2016	PPO	1.25	63.7	INTAKE GRATING FOULING
HEP 3B	3/28/2016	PPO	6.42	59.8	CONDENSER TUBE AND WATER BOX CLEANING
HEP ST3	2/10/2016	PPO	1.53	51.4	INTAKE GRATING FOULING
HEP ST3	2/21/2016	PPO	0.75	51.3	INTAKE GRATING FOULING
HEP ST3	3/6/2016	PPO	1.25	60.5	INTAKE GRATING FOULING
HEP ST3	3/28/2016	PPO	6.42	57.4	CONDENSER TUBE AND WATER BOX CLEANING

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - March 2016

Hines Power Block 4

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 4A	1/26/2016	PPO	1.50	56.0	INTAKE GRATING FOULING
HEP 4A	2/1/2016	PPO	1.62	55.9	INTAKE GRATING FOULING
HEP 4A	2/6/2016	PPO	1.00	55.9	INTAKE GRATING FOULING
HEP 4A	2/10/2016	PPO	0.83	56.0	INTAKE GRATING FOULING
HEP 4A	2/11/2016	PPO	0.97	55.9	INTAKE GRATING FOULING
HEP 4A	2/13/2016	PPO	0.88	61.0	INTAKE GRATING FOULING
HEP 4A	2/16/2016	PPO	0.58	60.8	INTAKE GRATING FOULING
HEP 4A	2/19/2016	PPO	1.33	55.9	INTAKE GRATING FOULING
HEP 4A	2/23/2016	PPO	0.50	56.1	INTAKE GRATING FOULING
HEP 4A	2/29/2016	PPO	0.50	56.1	INTAKE GRATING FOULING
HEP 4A	3/6/2016	PPO	1.17	60.9	INTAKE GRATING FOULING
HEP 4B	1/16/2016	FFO	9.05	168.9	FEEDWATER PUMP
HEP 4B	1/26/2016	PPO	1.50	56.0	INTAKE GRATING FOULING
HEP 4B	2/1/2016	PPO	1.62	55.9	INTAKE GRATING FOULING
HEP 4B	2/6/2016	PPO	1.00	55.9	INTAKE GRATING FOULING
HEP 4B	2/10/2016	PPO	0.83	56.0	INTAKE GRATING FOULING
HEP 4B	2/11/2016	PPO	0.97	55.9	INTAKE GRATING FOULING
HEP 4B	2/13/2016	PPO	0.88	61.0	INTAKE GRATING FOULING
HEP 4B	2/16/2016	PPO	0.58	60.8	INTAKE GRATING FOULING
HEP 4B	2/19/2016	PPO	1.33	55.9	INTAKE GRATING FOULING
HEP 4B	2/23/2016	PPO	0.50	56.1	INTAKE GRATING FOULING
HEP 4B	2/29/2016	PPO	0.50	56.1	INTAKE GRATING FOULING
HEP 4B	3/6/2016	PPO	1.17	60.9	INTAKE GRATING FOULING
HEP ST4	1/16/2016	FFO	10.15	190.2	FEEDWATER PUMP
HEP ST4	1/26/2016	PPO	1.50	65.2	INTAKE GRATING FOULING
HEP ST4	2/1/2016	PPO	1.62	65.2	INTAKE GRATING FOULING
HEP ST4	2/6/2016	PPO	1.00	65.2	INTAKE GRATING FOULING

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - March 2016

Hines Power Block 4

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP ST4	2/10/2016	PPO	0.83	65.3	INTAKE GRATING FOULING
HEP ST4	2/11/2016	PPO	0.97	65.1	INTAKE GRATING FOULING
HEP ST4	2/13/2016	PPO	0.88	65.3	INTAKE GRATING FOULING
HEP ST4	2/16/2016	PPO	0.58	65.2	INTAKE GRATING FOULING
HEP ST4	2/19/2016	PPO	1.33	65.2	INTAKE GRATING FOULING
HEP ST4	2/23/2016	PPO	0.50	45.3	INTAKE GRATING FOULING
HEP ST4	3/6/2016	PPO	1.17	46.1	INTAKE GRATING FOULING