



DIANNE M. TRIPLETT  
ASSOCIATE GENERAL COUNSEL

March 23, 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 February 2016

Dear Ms. Stauffer:

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

If you have any questions, please do not hesitate to contact me at (727) 820-4692.

Sincerely,

A handwritten signature in blue ink that reads 'Dianne M. Triplett'.

Dianne M. Triplett  
Associate General Counsel

DMT/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 February 2016 has been furnished to the following individuals via e-mail on this 23rd day of March, 2016.

  
\_\_\_\_\_  
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 - Feb Period
1. EAF	90.99	98.10											94.43
2. PH	744	696											1,440
3. SH	648.7	645.8											1,294.6
4. RSH	28.3	37.0											65.2
5. UH	67.0	13.2											80.2
6. POH	0.0	0.0											0.0
7. FOH	67.0	13.2											80.2
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	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)	1162	1162											1162
16. OPER MBTU	4,724,270	4,705,387											9,429,656
17. NET GEN (MWH)	640,347	644,116											1,284,463
18. ANOHR (BTU/KWH)	7,377.7	7,305.2											7,341.3
19. NOF (%)	84.95	85.83											85.39
20. NPC (MW)	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 - Feb Period
1. EAF	97.15	87.56											92.52
2. PH	744	696											1,440
3. SH	723.1	613.7											1,336.7
4. RSH	0.0	0.0											0.0
5. UH	20.9	82.4											103.3
6. POH	0.0	82.4											82.4
7. FOH	20.9	0.0											20.9
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	0.0											0.0
12. LR PF (MW)	0.0	0.0											0.0
13. PMOH	2.0	17.3											19.3
14. LR PM (MW)	93.0	174.0											165.6
15. NSC (MW)	712	712											712
16. OPER MBTU	3,181,413	2,381,195											5,562,608
17. NET GEN (MWH)	281,627	212,501											494,128
18. ANOHR (BTU/KWH)	11,296.5	11,205.6											11,257.4
19. NOF (%)	54.70	48.64											51.92
20. NPC (MW)	712	712											712

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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 - Feb Period
1. EAF	98.65	98.05											98.36
2. PH	744	696											1,440
3. SH	618.5	696.0											1,314.5
4. RSH	124.4	0.0											124.4
5. UH	1.2	0.0											1.2
6. POH	0.0	0.0											0.0
7. FOH	1.2	0.0											1.2
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	20.0	8.3											28.3
12. LR PF (MW)	303.7	91.1											241.6
13. PMOH	3.6	58.1											61.8
14. LR PM (MW)	63.1	152.7											147.4
15. NSC (MW)	710	710											710
16. OPER MBTU	2,805,817	2,583,132											5,388,948
17. NET GEN (MWH)	249,857	236,536											486,393
18. ANOHR (BTU/KWH)	11,229.7	10,920.7											11,079.4
19. NOF (%)	56.90	47.87											52.12
20. NPC (MW)	710	710											710

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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 - Feb Period
1. EAF	100.00	100.00											100.00
2. PH	744	696											1,440
3. SH	744.0	696.0											1,440.0
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	0.0	0.0											0.0
10. LR PP (MW)	0.0	0.0											0.0
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)	518	518											518
16. OPER MBTU	2,438,979	2,267,530											4,706,510
17. NET GEN (MWH)	344,015	322,178											666,193
18. ANOHR (BTU/KWH)	7,089.7	7,038.1											7,064.8
19. NOF (%)	89.26	89.36											89.31
20. NPC (MW)	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 - Feb Period
1. EAF	99.62	65.36											83.06
2. PH	744	696											1,440
3. SH	649.8	316.3											966.1
4. RSH	91.4	138.6											230.0
5. UH	2.9	241.1											243.9
6. POH	0.0	240.0											240.0
7. FOH	2.9	1.1											3.9
8. MOH	0.0	0.0											0.0
9. PPOH	0.0	1.7											1.7
10. LR PP (MW)	0.0	68.6											68.6
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)	546	546											546
16. OPER MBTU	2,135,651	1,041,398											3,177,048
17. NET GEN (MWH)	288,534	138,689											427,223
18. ANOHR (BTU/KWH)	7,401.7	7,508.9											7,436.5
19. NOF (%)	81.33	80.30											80.99
20. NPC (MW)	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 - Feb Period
1. EAF	100.00	100.00											100.00
2. PH	744	696											1,440
3. SH	699.6	647.3											1,346.9
4. RSH	44.4	48.7											93.1
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	0.0	2.3											2.3
10. LR PP (MW)	0.0	52.4											52.4
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)	544	544											544
16. OPER MBTU	2,363,034	2,105,001											4,468,035
17. NET GEN (MWH)	327,590	288,963											616,553
18. ANOHR (BTU/KWH)	7,213.4	7,284.7											7,246.8
19. NOF (%)	86.08	82.06											84.15
20. NPC (MW)	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 - Feb Period
1. EAF	99.12	100.00											99.55
2. PH	744	696											1,440
3. SH	713.5	696.0											1,409.5
4. RSH	24.0	0.0											24.0
5. UH	6.6	0.0											6.6
6. POH	0.0	0.0											0.0
7. FOH	6.6	0.0											6.6
8. MOH	0.0	0.0											0.0
9. PPOH	1.5	8.0											9.5
10. LR PP (MW)	59.2	59.3											59.3
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)	528	528											528
16. OPER MBTU	2,418,323	2,361,296											4,779,619
17. NET GEN (MWH)	348,625	337,289											685,914
18. ANOHR (BTU/KWH)	6,936.7	7,000.8											6,968.2
19. NOF (%)	92.54	91.78											92.17
20. NPC (MW)	528	528											528

**Duke Energy Florida****ACTUAL UNIT EVENT DATA -- January - February 2016****Bartow CC**

<b>Unit</b>	<b>Date</b>	<b>Outage Type</b>	<b>Hours</b>	<b>MW Affected</b>	<b>Description</b>
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 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 4S	1/27/2016	FFO	96.70	451.1	CIRCULATING WATER SYSTEM INSTRUMENTS AND CONTROLS

**Duke Energy Florida**

**ACTUAL UNIT EVENT DATA -- January - February 2016**

**Crystal River 4**

<b>Date</b>	<b>Outage Type</b>	<b>Hours</b>	<b>MW Affected</b>	<b>Description</b>
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	82.35	712.0	MINOR BOILER OVERHAUL (LESS THAN 720 HOURS)

**Duke Energy Florida**

**ACTUAL UNIT EVENT DATA -- January - February 2016**

**Crystal River 5**

<b>Date</b>	<b>Outage Type</b>	<b>Hours</b>	<b>MW Affected</b>	<b>Description</b>
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

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**ACTUAL UNIT EVENT DATA -- January - February 2016**

**Hines Power Block 1**

Unit	Date	Outage Type	Hours	MW Affected	Description

**Duke Energy Florida**

**ACTUAL UNIT EVENT DATA -- January - February 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	240.00	171.6	GENERAL GAS TURBINE UNIT INSPECTION
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	240.00	171.6	GENERAL GAS TURBINE UNIT INSPECTION
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	240.00	202.8	INSPECTION

**Duke Energy Florida**

**ACTUAL UNIT EVENT DATA -- January - February 2016**

**Hines Power Block 3**

<b>Unit</b>	<b>Date</b>	<b>Outage Type</b>	<b>Hours</b>	<b>MW Affected</b>	<b>Description</b>
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 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 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

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - February 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 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 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
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



**Duke Energy Florida**

**ACTUAL UNIT EVENT DATA -- January - February 2016**

**Hines Power Block 4**

<b>Unit</b>	<b>Date</b>	<b>Outage Type</b>	<b>Hours</b>	<b>MW Affected</b>	<b>Description</b>
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