



DIANNE M. TRIPLETT  
ASSOCIATE GENERAL COUNSEL

February 22, 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 January 2016

Dear Ms. Stauffer:

Enclosed for filing in the above docket is Duke Energy Florida, LLC's Performance Data Report for January 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 January 2016 has been furnished to the following individuals via e-mail on this 22nd day of February, 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 - Jan Period
1. EAF	90.99												90.99
2. PH	744												744
3. SH	648.7												648.7
4. RSH	28.3												28.3
5. UH	67.0												67.0
6. POH	0.0												0.0
7. FOH	67.0												67.0
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)	1162												1162
16. OPER MBTU	4,724,270												4,724,270
17. NET GEN (MWH)	640,347												640,347
18. ANOHR (BTU/KWH)	7,377.7												7,377.7
19. NOF (%)	84.95												84.95
20. NPC (MW)	1162												1162

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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 - Jan Period
1. EAF	97.15												97.15
2. PH	744												744
3. SH	723.1												723.1
4. RSH	0.0												0.0
5. UH	20.9												20.9
6. POH	0.0												0.0
7. FOH	20.9												20.9
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	2.0												2.0
14. LR PM (MW)	93.0												93.0
15. NSC (MW)	712												712
16. OPER MBTU	3,181,413												3,181,413
17. NET GEN (MWH)	281,627												281,627
18. ANOHR (BTU/KWH)	11,296.5												11,296.5
19. NOF (%)	54.70												54.70
20. NPC (MW)	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 - Jan Period
1. EAF	98.65												98.65
2. PH	744												744
3. SH	618.5												618.5
4. RSH	124.4												124.4
5. UH	1.2												1.2
6. POH	0.0												0.0
7. FOH	1.2												1.2
8. MOH	0.0												0.0
9. PPOH	0.0												0.0
10. LR PP (MW)	0.0												0.0
11. PFOH	20.0												20.0
12. LR PF (MW)	303.7												303.7
13. PMOH	3.6												3.6
14. LR PM (MW)	63.1												63.1
15. NSC (MW)	710												710
16. OPER MBTU	2,805,817												2,805,817
17. NET GEN (MWH)	249,857												249,857
18. ANOHR (BTU/KWH)	11,229.7												11,229.7
19. NOF (%)	56.90												56.90
20. NPC (MW)	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 - Jan Period
1. EAF	100.00												100.00
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	0.0												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)	518												518
16. OPER MBTU	2,438,979												2,438,979
17. NET GEN (MWH)	344,015												344,015
18. ANOHR (BTU/KWH)	7,089.7												7,089.7
19. NOF (%)	89.26												89.26
20. NPC (MW)	518												518

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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 - Jan Period
1. EAF	99.62												99.62
2. PH	744												744
3. SH	649.8												649.8
4. RSH	91.4												91.4
5. UH	2.9												2.9
6. POH	0.0												0.0
7. FOH	2.9												2.9
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)	546												546
16. OPER MBTU	2,135,651												2,135,651
17. NET GEN (MWH)	288,534												288,534
18. ANOHR (BTU/KWH)	7,401.7												7,401.7
19. NOF (%)	81.33												81.33
20. NPC (MW)	546												546

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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 - Jan Period
1. EAF	100.00												100.00
2. PH	744												744
3. SH	699.6												699.6
4. RSH	44.4												44.4
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)	544												544
16. OPER MBTU	2,363,034												2,363,034
17. NET GEN (MWH)	327,590												327,590
18. ANOHR (BTU/KWH)	7,213.4												7,213.4
19. NOF (%)	86.08												86.08
20. NPC (MW)	544												544



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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 - Jan Period
1. EAF	99.12												99.12
2. PH	744												744
3. SH	713.5												713.5
4. RSH	24.0												24.0
5. UH	6.6												6.6
6. POH	0.0												0.0
7. FOH	6.6												6.6
8. MOH	0.0												0.0
9. PPOH	1.5												1.5
10. LR PP (MW)	59.2												59.2
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)	528												528
16. OPER MBTU	2,418,323												2,418,323
17. NET GEN (MWH)	348,625												348,625
18. ANOHR (BTU/KWH)	6,936.7												6,936.7
19. NOF (%)	92.54												92.54
20. NPC (MW)	528												528

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**ACTUAL UNIT EVENT DATA -- January - January 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 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 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

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**ACTUAL UNIT EVENT DATA -- January - January 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

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**ACTUAL UNIT EVENT DATA -- January - January 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

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

**Hines Power Block 1**

Unit	Date	Outage Type	Hours	MW Affected	Description

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

**Hines Power Block 2**

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

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

**Hines Power Block 3**

Unit	Date	Outage Type	Hours	MW Affected	Description

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**ACTUAL UNIT EVENT DATA -- January - January 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 4A	1/26/2016	PPO	1.50	56.0	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 ST4	1/16/2016	FFO	10.15	190.2	FEEDWATER PUMP
HEP ST4	1/26/2016	PPO	1.50	65.2	INTAKE GRATING FOULING