



Matthew R. Bernier
Senior Counsel

March 15, 2017

VIA ELECTRONIC FILING

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

Re: *Fuel and Purchased Power Cost recovery clause with Generating Performance
Incentive Factor; Docket No. 170001-EI*

Dear Ms. Stauffer:

On behalf of Duke Energy Florida, LLC ("DEF"), please find enclosed for electronic filing in the above-referenced docket:

- DEF's Generating Performance Incentive Factor ("GPIF") True-Up Petition for the period ending December 2016; and
- Direct Testimony of Matthew J. Jones with Exhibit No. ___(MJJ-1T).

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.

Respectfully,

s/ Matthew R. Bernier
Matthew R. Bernier

MRB/mw
Enclosures
cc: Certificate of Service

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

In Re: Fuel and Purchased Power Cost
Recovery Clause with Generating
Performance Incentive Factor

Docket No. 170001-EI

Filed: March 15, 2017

**PETITION FOR APPROVAL OF GPIF RESULTS
FOR THE PERIOD ENDING DECEMBER 2016**

Duke Energy Florida, LLC (“DEF”) hereby petitions this Commission for approval of its Generating Performance Incentive Factor (“GPIF”) results for the period ending December 2016. In support of this Petition, DEF states as follows:

1. DEF is a public utility subject to the jurisdiction of the Commission under Chapter 366, Florida Statutes. DEF's General Offices are located at 299 First Avenue North, St. Petersburg, FL 33701.

2. All notices, pleadings and other communications required to be served on the petitioner should be directed to:

Dianne M. Triplett
299 First Avenue North
St. Petersburg, FL, 33701
Dianne.triplett@duke-energy.com

Matthew R. Bernier
106 East College Avenue
Suite 800
Tallahassee, FL 32301
Matthew.bernier@duke-energy.com

3. By Order No. PSC-15-0586-FOF-EI, dated December 23, 2015, the Commission approved DEF’s GPIF Targets for the period January 2016 through December 2016. The application of the GPIF formula to DEF’s performance during that period produces a reward of \$3,639,706. Matters relating to the GPIF are contained in

the prepared direct testimony of DEF witness Matthew J. Jones which is being filed with and incorporated in this Petition.

WHEREFORE, DEF respectfully requests the Commission to approve this Petition and include the aforementioned amount in the calculation of the Fuel and Purchased Power Cost Recovery (“FCR”) Factor for the period beginning January 2017.

Respectfully submitted,

s/Matthew R. Bernier

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CERTIFICATE OF SERVICE

I HEREBY CERTIFY that a true and correct copy of the foregoing has been furnished via electronic mail to the following this 15th day of March, 2017.

s/Matthew R. Bernier

Attorney

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DUKE ENERGY FLORIDA, LLC

DOCKET No. 170001-EI

**GPIF Schedules for
January through December 2016**

**DIRECT TESTIMONY OF
MATTHEW J. JONES**

March 15, 2017

1 **Q. Please state your name and business address.**

2 A. My name is Matthew J. Jones. My business address is 526 South Church
3 Street, Charlotte, North Carolina 28202.

4

5 **Q. By whom are you employed and in what capacity?**

6 A. I am employed by Duke Energy Carolinas, LLC ("DEC") as Managing
7 Director of Analytics for Fuels and Systems Optimization. DEC is a
8 corporate affiliate of Duke Energy Florida ("DEF" or the "Company"), both
9 of which are wholly-owned subsidiaries of Duke Energy Corporation ("Duke
10 Energy").

11

12 **Q. Describe your responsibilities as Managing Director of Analytics.**

13 A. As Managing Director of Analytics for Fuels and Systems Optimization, I
14 oversee the analysis and modeling of energy portfolios for Duke Energy's

1 regulated utility subsidiaries, including DEF, DEC, Duke Energy Indiana
2 LLC, and Duke Energy Kentucky, Inc. My responsibilities include oversight
3 of planning and coordination associated with economic system operations,
4 including production cost modeling, outage coordination, dispatch pricing,
5 fuel burn forecasting, position analysis, and commodities analytics.

6
7 **Q. What is the purpose of your testimony?**

8 A. The purpose of my testimony is to describe the calculation of DEF's
9 Generating Performance Incentive Factor ("GPIF") reward/(penalty)
10 amount for the period of January through December 2016. This calculation
11 was based on a comparison of the actual performance of DEF's Seven (7)
12 GPIF generating units for this period against the approved targets set for
13 these units prior to the actual performance period.

14
15 **Q. Do you have an exhibit to your testimony in this proceeding?**

16 A. Yes, I am sponsoring Exhibit No. __ (MJJ-1T), which consists of the
17 schedules required by the ("GPIF") Implementation Manual to support the
18 development of the incentive amount. This 24-page exhibit is attached to
19 my prepared testimony and includes as its first page an index to the
20 contents of the exhibit.

21
22 **Q. What GPIF incentive amount has been calculated for this period?**

23 A. DEF's calculated GPIF incentive amount is a reward of \$3,639,706. This
24 amount was developed in a manner consistent with the GPIF
25 Implementation Manual. Page 2 of my exhibit shows the system GPIF

1 points and the corresponding reward/(penalty). The summary of weighted
2 incentive points earned by each individual unit can be found on page 4 of
3 my exhibit.

4
5 **Q. How were the incentive points for equivalent availability and heat rate
6 calculated for the individual GPIF units?**

7 A. The calculation of incentive points was made by comparing the adjusted
8 actual performance data for equivalent availability and heat rate to the
9 target performance indicators for each unit. This comparison is shown on
10 each unit's Generating Performance Incentive Points Table found on pages
11 9 through 15 of my exhibit.

12
13 **Q. Why is it necessary to make adjustments to the actual performance
14 data for comparison with the targets?**

15 A. Adjustments to the actual equivalent availability and heat rate data are
16 necessary to allow their comparison with the "target" Point Tables exactly
17 as approved by the Commission prior to the period. These adjustments
18 are described in the Implementation Manual and are further explained by a
19 Staff memorandum, dated October 23, 1981, directed to the GPIF utilities.
20 The adjustments to actual equivalent availability primarily concern the
21 differences between target and actual planned outage hours, and are
22 shown on page 7 of my exhibit. The heat rate adjustments concern the
23 differences between the target and actual Net Output Factor (NOF), and

1 are shown on page 8. The methodology for both the equivalent availability
2 and heat rate adjustments are explained in the Staff memorandum.

3
4 In addition, the Bartow combined cycle (“CC”) unit had data excluded
5 during the March through June steam turbine planned-outage extension
6 period. The Bartow CC unit has the capability to operate in simple cycle
7 mode while the steam turbine is in an outage; when operating in simple
8 cycle mode, the unit’s heat rate deviates significantly from its normal range.
9 To account for the heat-rate deviation that occurs when Bartow operates in
10 simple cycle mode, DEF’s heat rate target setting process for the Bartow
11 CC unit excludes historical data from periods when the unit operated in
12 simple cycle mode. To be consistent with the target setting process, the
13 simple cycle mode heat rate data was excluded from actuals for the
14 purposes of calculating the 2016 heat rate for the Bartow CC unit.

15
16 **Q. Have you provided the as-worked planned outage schedules for**
17 **DEF’s GPIF units to support your adjustments to actual equivalent**
18 **availability?**

19 A. Yes. Page 23 of my exhibit summarizes the planned outages experienced
20 by DEF’s GPIF units during the period. Page 24 presents an as-worked
21 schedule for each individual planned outage.

22
23 **Q. Does this conclude your testimony?**

24 A. Yes.

GPIF REWARD/PENALTY SCHEDULES

<u>Description</u>	<u>Sheet</u>
Index	1
Reward/Penalty Table (Actual)	2
Calculation of Maximum Incentive Dollars (Actual)	3
Calculation of System Actual GPIF Points	4
GPIF Unit Performance Summary	5
Actual Unit Performance Data	6
Adjustments to EAF Actual	7
Adjustments to ANOHR Actual	8
Generating Performance Incentive Points Table	9-15
Actual Unit Performance Data	16-22
Planned Outage Schedules (Actual)	23-24

GENERATING PERFORMANCE INCENTIVE FACTOR

REWARD/PENALTY TABLE

ACTUAL

Duke Energy Florida
January 2016 - December 2016

Generating Performance Incentive Points (GPIF)	Fuel Savings/Loss (\$)	Generating Performance Incentive Factor (\$)
10	\$ 57,221,000	\$ 20,299,532
9	\$ 51,498,900	\$ 18,269,579
8	\$ 45,776,800	\$ 16,239,626
7	\$ 40,054,700	\$ 14,209,672
6	\$ 34,332,600	\$ 12,179,719
5	\$ 28,610,500	\$ 10,149,766
4	\$ 22,888,400	\$ 8,119,813
3	\$ 17,166,300	\$ 6,089,860
2	\$ 11,444,200	\$ 4,059,906
**** 1.793	\$ 10,259,725	\$ 3,639,706
1	\$ 5,722,100	\$ 2,029,953
0	\$ -	\$ -
-1	\$ (6,836,000)	\$ (2,029,953)
-2	\$ (13,672,000)	\$ (4,059,906)
-3	\$ (20,508,000)	\$ (6,089,860)
-4	\$ (27,344,000)	\$ (8,119,813)
-5	\$ (34,180,000)	\$ (10,149,766)
-6	\$ (41,016,000)	\$ (12,179,719)
-7	\$ (47,852,000)	\$ (14,209,672)
-8	\$ (54,688,000)	\$ (16,239,626)
-9	\$ (61,524,000)	\$ (18,269,579)
-10	\$ (68,360,000)	\$ (20,299,532)

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GENERATION PERFORMANCE INCENTIVE FACTOR

CALCULATION OF MAXIMUM ALLOWED INCENTIVE DOLLARS

Duke Energy Florida

January 2016 - December 2016

1	Beginning of period balance of common equity	\$ 5,121,368,695	
	END OF MONTH BALANCE OF COMMON EQUITY:		
2	Month of JANUARY 2016	\$ 5,189,911,509	
3	Month of FEBRUARY 2016	\$ 5,199,762,937	
4	Month of MARCH 2016	\$ 5,232,038,627	
5	Month of APRIL 2016	\$ 5,269,916,262	
6	Month of MAY 2016	\$ 5,334,413,417	
7	Month of JUNE 2016	\$ 4,753,947,076	
8	Month of JULY 2016	\$ 4,832,496,936	
9	Month of AUGUST 2016	\$ 4,908,871,417	
10	Month of SEPTEMBER 2016	\$ 4,838,988,801	
11	Month of OCTOBER 2016	\$ 4,876,631,366	
12	Month of NOVEMBER 2016	\$ 4,902,152,150	
13	Month of DECEMBER 2016	\$ 4,900,112,586	
14	Average common equity for the period	\$ 5,027,739,368	
15	25 Basis Points	0.0025	
16	Revenue Expansion Factor	61.2073%	
17	Maximum allowed incentive dollars	\$ 20,535,692	
18	Jurisdictional Sales *	38,773,960 MWH	
19	Total Sales *	39,223,491 MWH	
20	Jurisdictional Separation Factor	98.8500%	
21	Maximum allowed jurisdictional incentive dollars	\$ 20,299,532	
22	Incentive Cap (50% of Projected Fuel Savings at 10 GPIF Point Level) From Sheet No. 6.101.1	\$ 28,610,500	
23	Maximum Allowed GPIF Reward (Lesser of Line 21 and Line 22)	\$ 20,299,532	
*	Net sales (Sales - Interruptible)		

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GENERATION PERFORMANCE INCENTIVE FACTOR

CALCULATION OF SYSTEM ACTUAL GPIF POINTS

Duke Energy Florida
January 2016 - December 2016

<u>Plant/Unit</u>	<u>Performance Indicator EAF or ANOHR</u>	<u>Weighting Factor %</u>	<u>Unit Points</u>	<u>Weighted Unit Points</u>
Bartow CC	EAF	2.57	-6.592	-0.169
	ANOHR	22.98	-3.553	-0.816
Crystal River 4	EAF	1.63	8.052	0.131
	ANOHR	9.14	0.382	0.035
Crystal River 5	EAF	1.80	-0.461	-0.008
	ANOHR	12.92	3.454	0.446
Hines 1	EAF	0.72	-2.144	-0.015
	ANOHR	11.81	7.986	0.943
Hines 2	EAF	9.44	10.000	0.944
	ANOHR	5.22	0.000	0.000
Hines 3	EAF	1.80	9.427	0.170
	ANOHR	11.01	1.596	0.176
Hines 4	EAF	0.44	-10.000	-0.044
	ANOHR	8.53	0.000	0.000
GPIF System		100.0		1.793

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Order No.:

GENERATION PERFORMANCE INCENTIVE FACTOR
GPIF UNIT PERFORMANCE SUMMARY

Duke Energy Florida
January 2016 - December 2016

Plant/Unit	Weighting Factor (%)	EAF Target (%)	EAF RANGE		Max. Fuel Savings (\$000)	Max. Fuel Loss (\$000)	EAF Adjusted Actual (%)	Estimated
			Max. (%)	Min. (%)				Fuel Savings/ Loss (\$000)
Bartow CC	2.57	88.61	91.04	83.67	\$1,471	(\$4,321)	85.35	(\$2,848)
Crystal River 4	1.63	83.19	87.42	74.93	\$934	(\$2,418)	86.60	\$752
Crystal River 5	1.80	94.56	97.11	89.38	\$1,031	(\$1,013)	94.32	(\$47)
Hines 1	0.72	92.45	93.18	90.93	\$413	(\$921)	92.12	(\$197)
Hines 2	9.44	57.57	69.41	32.70	\$5,403	(\$10,865)	79.07	\$5,403
Hines 3	1.80	82.93	84.47	79.76	\$1,028	(\$1,484)	84.38	\$969
Hines 4	0.44	84.95	85.48	83.86	\$250	(\$647)	61.66	(\$647)
GPIF System	18.40				\$10,530.0	(\$21,669.0)		\$3,384.6

Plant/Unit	Weighting Factor (%)	ANOHR Target (BTU/KWH)	NOF	ANOHR RANGE		Max. Fuel Savings (\$000)	Max. Fuel Loss (\$000)	ANOHR Adjusted Actual (Btu/kwh)	Estimated
				Min. (Btu/kwh)	Max. (Btu/kwh)				Fuel Savings/ Loss (\$000)
Bartow CC	22.98	7,427	82.7	6,984	7,870	\$13,149	(\$13,149)	7,633	(\$4,672)
Crystal River 4	9.14	10,465	71.0	10,053	10,878	\$5,227	(\$5,227)	10,377	\$200
Crystal River 5	12.92	10,345	71.7	9,851	10,838	\$7,392	(\$7,392)	10,125	\$2,553
Hines 1	11.81	7,319	96.7	6,855	7,782	\$6,758	(\$6,758)	6,933	\$5,397
Hines 2	5.22	7,343	80.5	6,931	7,755	\$2,987	(\$2,987)	7,274	\$0
Hines 3	11.01	7,227	90.2	6,745	7,708	\$6,298	(\$6,298)	7,087	\$1,005
Hines 4	8.53	6,983	97.3	6,634	7,333	\$4,880	(\$4,880)	6,946	\$0
GPIF System	81.61					\$46,691.0	(\$46,691.0)		\$4,483.1

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GENERATION PERFORMANCE INCENTIVE FACTOR
ACTUAL UNIT PERFORMANCE DATA

Duke Energy Florida
January 2016 - December 2016

Plant/Unit	ACTUAL EAF %	ADJUSTMENTS (1) TO EAF %	ADJUSTED ACTUAL EAF %
Bartow CC	80.86	4.50	85.35
Crystal River 4	85.85	0.74	86.60
Crystal River 5	92.37	1.95	94.32
Hines 1	88.03	4.09	92.12
Hines 2	87.42	-8.35	79.07
Hines 3	83.07	1.31	84.38
Hines 4	66.08	-4.42	61.66

Plant/Unit	ACTUAL ANOHR BTU/KWH	ADJUSTMENTS (2) TO ANOHR BTU/KWH	ADJUSTED ACTUAL ANOHR BTU/KWH
Bartow CC	7,680.1	-47.3	7,632.7
Crystal River 4	10,384.3	-7.1	10,377.1
Crystal River 5	10,296.3	-171.0	10,125.3
Hines 1	7,112.5	-179.1	6,933.3
Hines 2	7,274.4	0.0	7,274.4
Hines 3	7,157.8	-70.7	7,087.1
Hines 4	6,984.6	-38.2	6,946.3

(1) For documentation of adjustments to actual EAF, see sheet 6.

(2) For documentation of adjustments to actual ANOHR, see sheet 7.

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GENERATION PERFORMANCE INCENTIVE FACTOR
ADJUSTMENTS TO EAF ACTUAL

Duke Energy Florida
January 2016 - December 2016

EAF adjustments for Planned Outage Hours			<u>BA4</u>	<u>CR4</u>	<u>CR5</u>	<u>HN1</u>	<u>HN2</u>	<u>HN3</u>	<u>HN4</u>
1	Actual POH	Hrs.	980.15	741.58	181.62	894.67	770.46	1,329.40	682.11
2	Target POH	Hrs.	546.00	672.00	0.00	528.00	1,536.00	1,212.00	1,224.00
3	Adj. Factor (PH-POHT/PH-POHA)		1.06	1.01	1.02	1.05	0.90	1.02	0.93
4	Actual EUOH	Hrs.	701.52	501.06	488.52	156.55	334.66	157.42	2,297.07
5	Adj. EUOH (3*4)	Hrs.	740.55	505.40	498.83	163.82	302.69	159.90	2,143.43
6	Actual EAF	%	80.86	85.85	92.37	88.03	87.42	83.07	66.08
7	Adjusted EAF (using 2 & 5)	%	85.35	86.60	94.32	92.12	79.07	84.38	61.66
8	Difference (7-6)	%	4.50	0.74	1.95	4.09	-8.35	1.31	-4.42
9	Total adj. to EAF	%	4.50	0.74	1.95	4.09	-8.35	1.31	-4.42

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GENERATION PERFORMANCE INCENTIVE FACTOR
ADJUSTMENTS TO ANOHR ACTUAL

Duke Energy Florida
January 2016 - December 2016

ANOHR adjustments for Target NOF			<u>BA4</u>	<u>CR4</u>	<u>CR5</u>	<u>HN1</u>	<u>HN2</u>	<u>HN3</u>	<u>HN4</u>
1	Target NOF	%	82.7	71.0	71.7	96.7	80.5	90.2	97.3
2	Target ANOHR	Btu/kwh	7427.0	10465.0	10345.0	7319.0	7343.0	7227.0	6983.0
3	Actual NOF	%	79.5	69.7	65.5	84.2	83.0	81.9	84.2
4	Calc. ANOHR (using 3)	Btu/kwh	7,474.3	10,472.1	10,516.0	7,498.1	7,339.0	7,297.7	7,021.2
5	Total adj. to ANOHR (2-4)	Btu/kwh	-47.3	-7.1	-171.0	-179.1	0.0	-70.7	-38.2

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Effective:
Docket No.:
Order No.:

GENERATING PERFORMANCE INCENTIVE POINTS TABLE

Duke Energy Florida
January 2016 - December 2016

Unit: Bartow CC

Equivalent Availability (Points)	Fuel Savings/Loss (\$)	Equivalent Availability (%)	Average Heat Rate (Points)	Fuel Savings/Loss (\$)	Average Heat Rate (BTU/KWH)	
10	\$1,471,000	91.04	10	\$13,149,000	6,984.0	
9	\$1,323,900	90.80	9	\$11,834,100	7,020.8	
8	\$1,176,800	90.55	8	\$10,519,200	7,057.6	
7	\$1,029,700	90.31	7	\$9,204,300	7,094.4	
6	\$882,600	90.07	6	\$7,889,400	7,131.2	
5	\$735,500	89.83	5	\$6,574,500	7,168.0	
4	\$588,400	89.58	4	\$5,259,600	7,204.8	
3	\$441,300	89.34	3	\$3,944,700	7,241.6	
2	\$294,200	89.10	2	\$2,629,800	7,278.4	
1	\$147,100	88.85	1	\$1,314,900	7,315.2	
	\$0	88.61	0	\$0	7,352.0	
0	\$0	88.61	0	\$0	7,427.0	
	\$0	88.61	0	\$0	7,502.0	
-1	(\$432,100)	88.12	-1	(\$1,314,900)	7,538.8	
-2	(\$864,200)	87.62	-2	(\$2,629,800)	7,575.6	
-3	(\$1,296,300)	87.13	-3	(\$3,944,700)	7,612.4	
-4	(\$1,728,400)	86.63	-3.553	(\$4,671,840)	7,632.8 ****	
-5	(\$2,160,500)	86.14	-4	(\$5,259,600)	7,649.2	
-6	(\$2,592,600)	85.65	-5	(\$6,574,500)	7,686.0	
****	-6.592	(\$2,848,403)	85.35	-6	(\$7,889,400)	7,722.8
	-7	(\$3,024,700)	85.15	-7	(\$9,204,300)	7,759.6
	-8	(\$3,456,800)	84.66	-8	(\$10,519,200)	7,796.4
	-9	(\$3,888,900)	84.16	-9	(\$11,834,100)	7,833.2
	-10	(\$4,321,000)	83.67	-10	(\$13,149,000)	7,870.0

Equivalent Availability
Weighting Factor:

2.57%

Heat Rate
Weighting Factor:

22.98%

Issued by: Duke Energy Florida

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Order No.:

GENERATING PERFORMANCE INCENTIVE POINTS TABLE

Duke Energy Florida
January 2016 - December 2016

Unit: Crystal River 4

Equivalent Availability (Points)	Fuel Savings/Loss (\$)	Equivalent Availability (%)	Average Heat Rate (Points)	Fuel Savings/Loss (\$)	Average Heat Rate (BTU/KWH)
10	\$934,000	87.42	10	\$5,227,000	10,053.0
9	\$840,600	87.00	9	\$4,704,300	10,086.7
**** 8.052	\$752,057	86.60	8	\$4,181,600	10,120.4
8	\$747,200	86.57	7	\$3,658,900	10,154.1
7	\$653,800	86.15	6	\$3,136,200	10,187.8
6	\$560,400	85.73	5	\$2,613,500	10,221.5
5	\$467,000	85.31	4	\$2,090,800	10,255.2
4	\$373,600	84.88	3	\$1,568,100	10,288.9
3	\$280,200	84.46	2	\$1,045,400	10,322.6
2	\$186,800	84.04	1	\$522,700	10,356.3
1	\$93,400	83.61	0.382	\$199,671	10,377.1 ****
	\$0	83.19	0	\$0	10,390.0
0	\$0	83.19	0	\$0	10,465.0
	\$0	83.19	0	\$0	10,540.0
-1	(\$241,800)	82.36	-1	(\$522,700)	10,573.8
-2	(\$483,600)	81.54	-2	(\$1,045,400)	10,607.6
-3	(\$725,400)	80.71	-3	(\$1,568,100)	10,641.4
-4	(\$967,200)	79.89	-4	(\$2,090,800)	10,675.2
-5	(\$1,209,000)	79.06	-5	(\$2,613,500)	10,709.0
-6	(\$1,450,800)	78.23	-6	(\$3,136,200)	10,742.8
-7	(\$1,692,600)	77.41	-7	(\$3,658,900)	10,776.6
-8	(\$1,934,400)	76.58	-8	(\$4,181,600)	10,810.4
-9	(\$2,176,200)	75.76	-9	(\$4,704,300)	10,844.2
-10	(\$2,418,000)	74.93	-10	(\$5,227,000)	10,878.0

Equivalent Availability
Weighting Factor:

1.63%

Heat Rate
Weighting Factor:

9.14%

Issued by: Duke Energy Florida

Filed:
Suspended:
Effective:
Docket No.:
Order No.:

GENERATING PERFORMANCE INCENTIVE POINTS TABLE

Duke Energy Florida
January 2016 - December 2016

Unit: Crystal River 5

Equivalent Availability (Points)	Fuel Savings/Loss (\$)	Equivalent Availability (%)	Average Heat Rate (Points)	Fuel Savings/Loss (\$)	Average Heat Rate (BTU/KWH)
10	\$1,031,000	97.11	10	\$7,392,000	9,851.0
9	\$927,900	96.86	9	\$6,652,800	9,892.9
8	\$824,800	96.60	8	\$5,913,600	9,934.8
7	\$721,700	96.35	7	\$5,174,400	9,976.7
6	\$618,600	96.09	6	\$4,435,200	10,018.6
5	\$515,500	95.84	5	\$3,696,000	10,060.5
4	\$412,400	95.58	4	\$2,956,800	10,102.4
3	\$309,300	95.33	3.454	\$2,553,197	10,125.3 ****
2	\$206,200	95.07	3	\$2,217,600	10,144.3
1	\$103,100	94.82	2	\$1,478,400	10,186.2
	\$0	94.56	1	\$739,200	10,228.1
0	\$0	94.56	0	\$0	10,270.0
	\$0	94.56	0	\$0	10,345.0
****	-0.461	(\$46,699)	0	\$0	10,420.0
	-1	(\$101,300)	-1	(\$739,200)	10,461.8
	-2	(\$202,600)	-2	(\$1,478,400)	10,503.6
	-3	(\$303,900)	-3	(\$2,217,600)	10,545.4
	-4	(\$405,200)	-4	(\$2,956,800)	10,587.2
	-5	(\$506,500)	-5	(\$3,696,000)	10,629.0
	-6	(\$607,800)	-6	(\$4,435,200)	10,670.8
	-7	(\$709,100)	-7	(\$5,174,400)	10,712.6
	-8	(\$810,400)	-8	(\$5,913,600)	10,754.4
	-9	(\$911,700)	-9	(\$6,652,800)	10,796.2
	-10	(\$1,013,000)	-10	(\$7,392,000)	10,838.0

Equivalent Availability
Weighting Factor:

1.80%

Heat Rate
Weighting Factor:

12.92%

Issued by: Duke Energy Florida

Filed:
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Effective:
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Order No.:

GENERATING PERFORMANCE INCENTIVE POINTS TABLE

Duke Energy Florida
January 2016 - December 2016

Unit: Hines 1

Equivalent Availability (Points)	Fuel Savings/Loss (\$)	Equivalent Availability (%)	Average Heat Rate (Points)	Fuel Savings/Loss (\$)	Average Heat Rate (BTU/KWH)	
10	\$413,000	93.18	10	\$6,758,000	6,855.0	
9	\$371,700	93.11	9	\$6,082,200	6,893.9	
8	\$330,400	93.03	8	\$5,406,400	6,932.8	
7	\$289,100	92.96	7.986	\$5,396,939	6,933.3 ****	
6	\$247,800	92.89	7	\$4,730,600	6,971.7	
5	\$206,500	92.82	6	\$4,054,800	7,010.6	
4	\$165,200	92.74	5	\$3,379,000	7,049.5	
3	\$123,900	92.67	4	\$2,703,200	7,088.4	
2	\$82,600	92.60	3	\$2,027,400	7,127.3	
1	\$41,300	92.52	2	\$1,351,600	7,166.2	
	\$0	92.45	1	\$675,800	7,205.1	
0	\$0	92.45	0	\$0	7,244.0	
	\$0	92.45	0	\$0	7,319.0	
-1	(\$92,100)	92.30	0	\$0	7,394.0	
-2	(\$184,200)	92.15	-1	(\$675,800)	7,432.8	
****	-2.144	(\$197,462)	92.12	-2	(\$1,351,600)	7,471.6
	-3	(\$276,300)	91.99	-3	(\$2,027,400)	7,510.4
	-4	(\$368,400)	91.84	-4	(\$2,703,200)	7,549.2
	-5	(\$460,500)	91.69	-5	(\$3,379,000)	7,588.0
	-6	(\$552,600)	91.54	-6	(\$4,054,800)	7,626.8
	-7	(\$644,700)	91.39	-7	(\$4,730,600)	7,665.6
	-8	(\$736,800)	91.23	-8	(\$5,406,400)	7,704.4
	-9	(\$828,900)	91.08	-9	(\$6,082,200)	7,743.2
	-10	(\$921,000)	90.93	-10	(\$6,758,000)	7,782.0

Equivalent Availability
Weighting Factor:

0.72%

Heat Rate
Weighting Factor:

11.81%

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GENERATING PERFORMANCE INCENTIVE POINTS TABLE

Duke Energy Florida
January 2016 - December 2016

Unit: Hines 2

Equivalent Availability (Points)	Fuel Savings/Loss (\$)	Equivalent Availability (%)	Average Heat Rate (Points)	Fuel Savings/Loss (\$)	Average Heat Rate (BTU/KWH)

10	\$5,403,000	69.41	10	\$2,987,000	6,931.0
10	\$5,403,000	69.41	9	\$2,688,300	6,964.7
9	\$4,862,700	68.23	8	\$2,389,600	6,998.4
8	\$4,322,400	67.04	7	\$2,090,900	7,032.1
7	\$3,782,100	65.86	6	\$1,792,200	7,065.8
6	\$3,241,800	64.67	5	\$1,493,500	7,099.5
5	\$2,701,500	63.49	4	\$1,194,800	7,133.2
4	\$2,161,200	62.31	3	\$896,100	7,166.9
3	\$1,620,900	61.12	2	\$597,400	7,200.6
2	\$1,080,600	59.94	1	\$298,700	7,234.3
1	\$540,300	58.75	0	\$0	7,268.0
	\$0	57.57	0.000	\$0	7,274.4 ****
0	\$0	57.57	0	\$0	7,343.0
	\$0	57.57	0	\$0	7,418.0
-1	(\$1,086,500)	55.08	-1	(\$298,700)	7,451.7
-2	(\$2,173,000)	52.60	-2	(\$597,400)	7,485.4
-3	(\$3,259,500)	50.11	-3	(\$896,100)	7,519.1
-4	(\$4,346,000)	47.62	-4	(\$1,194,800)	7,552.8
-5	(\$5,432,500)	45.14	-5	(\$1,493,500)	7,586.5
-6	(\$6,519,000)	42.65	-6	(\$1,792,200)	7,620.2
-7	(\$7,605,500)	40.16	-7	(\$2,090,900)	7,653.9
-8	(\$8,692,000)	37.67	-8	(\$2,389,600)	7,687.6
-9	(\$9,778,500)	35.19	-9	(\$2,688,300)	7,721.3
-10	(\$10,865,000)	32.70	-10	(\$2,987,000)	7,755.0

Equivalent Availability
Weighting Factor:

9.44%

Heat Rate
Weighting Factor:

5.22%

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Docket No.:
Order No.:

GENERATING PERFORMANCE INCENTIVE POINTS TABLE

Duke Energy Florida
January 2016 - December 2016

Unit: Hines 3

Equivalent Availability (Points)	Fuel Savings/Loss (\$)	Equivalent Availability (%)	Average Heat Rate (Points)	Fuel Savings/Loss (\$)	Average Heat Rate (BTU/KWH)
10	\$1,028,000	84.47	10	\$6,298,000	6,745.0
**** 9.427	\$969,096	84.38	9	\$5,668,200	6,785.7
9	\$925,200	84.32	8	\$5,038,400	6,826.4
8	\$822,400	84.16	7	\$4,408,600	6,867.1
7	\$719,600	84.01	6	\$3,778,800	6,907.8
6	\$616,800	83.85	5	\$3,149,000	6,948.5
5	\$514,000	83.70	4	\$2,519,200	6,989.2
4	\$411,200	83.55	3	\$1,889,400	7,029.9
3	\$308,400	83.39	2	\$1,259,600	7,070.6
2	\$205,600	83.24	1.596	\$1,005,161	7,087.0 ****
1	\$102,800	83.08	1	\$629,800	7,111.3
	\$0	82.93	0	\$0	7,152.0
0	\$0	82.93	0	\$0	7,227.0
	\$0	82.93	0	\$0	7,302.0
-1	(\$148,400)	82.61	-1	(\$629,800)	7,342.6
-2	(\$296,800)	82.30	-2	(\$1,259,600)	7,383.2
-3	(\$445,200)	81.98	-3	(\$1,889,400)	7,423.8
-4	(\$593,600)	81.66	-4	(\$2,519,200)	7,464.4
-5	(\$742,000)	81.35	-5	(\$3,149,000)	7,505.0
-6	(\$890,400)	81.03	-6	(\$3,778,800)	7,545.6
-7	(\$1,038,800)	80.71	-7	(\$4,408,600)	7,586.2
-8	(\$1,187,200)	80.39	-8	(\$5,038,400)	7,626.8
-9	(\$1,335,600)	80.08	-9	(\$5,668,200)	7,667.4
-10	(\$1,484,000)	79.76	-10	(\$6,298,000)	7,708.0

Equivalent Availability
Weighting Factor:

1.80%

Heat Rate
Weighting Factor:

11.01%

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Order No.:

GENERATING PERFORMANCE INCENTIVE POINTS TABLE

Duke Energy Florida
January 2016 - December 2016

Unit: Hines 4

Equivalent Availability (Points)	Fuel Savings/Loss (\$)	Equivalent Availability (%)	Average Heat Rate (Points)	Fuel Savings/Loss (\$)	Average Heat Rate (BTU/KWH)
10	\$250,000	85.48	10	\$4,880,000	6,634.0
9	\$225,000	85.43	9	\$4,392,000	6,661.4
8	\$200,000	85.37	8	\$3,904,000	6,688.8
7	\$175,000	85.32	7	\$3,416,000	6,716.2
6	\$150,000	85.27	6	\$2,928,000	6,743.6
5	\$125,000	85.22	5	\$2,440,000	6,771.0
4	\$100,000	85.16	4	\$1,952,000	6,798.4
3	\$75,000	85.11	3	\$1,464,000	6,825.8
2	\$50,000	85.06	2	\$976,000	6,853.2
1	\$25,000	85.00	1	\$488,000	6,880.6
	\$0	84.95	0	\$0	6,908.0
0	\$0	84.95	0.000	\$0	6,946.3 ****
	\$0	84.95	0	\$0	6,983.0
-1	(\$64,700)	84.84	0	\$0	7,058.0
-2	(\$129,400)	84.73	-1	(\$488,000)	7,085.5
-3	(\$194,100)	84.62	-2	(\$976,000)	7,113.0
-4	(\$258,800)	84.51	-3	(\$1,464,000)	7,140.5
-5	(\$323,500)	84.41	-4	(\$1,952,000)	7,168.0
-6	(\$388,200)	84.30	-5	(\$2,440,000)	7,195.5
-7	(\$452,900)	84.19	-6	(\$2,928,000)	7,223.0
-8	(\$517,600)	84.08	-7	(\$3,416,000)	7,250.5
-9	(\$582,300)	83.97	-8	(\$3,904,000)	7,278.0
-10	(\$647,000)	83.86	-9	(\$4,392,000)	7,305.5
****	(\$647,000)	83.86	-10	(\$4,880,000)	7,333.0

Equivalent Availability
Weighting Factor:

0.44%

Heat Rate
Weighting Factor:

8.53%

Issued by: Duke Energy Florida

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Docket No.:
Order No.:

ACTUAL UNIT PERFORMANCE DATA

Duke Energy Florida

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-Dec Period
1. EAF	90.99	98.10	76.99	52.57	59.75	85.02	97.03	97.99	96.85	73.61	59.64	91.59	80.86
2. PH	744	696	743	720	744	720	744	744	720	744	721	744	8,784
3. SH	648.7	645.8	548.9	378.5	440.5	612.2	730.8	736.4	700.3	529.7	430.0	653.2	7,055.0
4. RSH	28.3	37.0	23.1	0.0	4.6	0.0	0.0	0.0	0.0	19.8	0.0	28.2	141.0
5. UH	67.0	13.2	171.0	341.5	298.9	107.8	13.2	7.6	19.7	194.5	291.0	62.6	1,588.1
6. POH	0.0	0.0	171.0	340.6	288.9	107.8	0.0	0.0	0.0	0.0	0.0	0.0	908.2
7. FOH	67.0	13.2	0.0	0.9	5.3	0.0	13.2	7.1	19.7	112.4	291.0	62.6	592.4
8. MOH	0.0	0.0	0.0	0.0	4.7	0.0	0.0	0.6	0.0	82.1	0.0	0.0	87.4
9. PPOH	0.0	0.0	436.1	264.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	700.4
10. LR PP (MW)	0.0	0.0	120.0	118.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	119.4
11. PFOH	0.0	0.0	0.0	0.0	43.0	0.0	34.4	52.0	86.7	12.0	0.0	0.0	228.1
12. LR PF (MW)	0.0	0.0	0.0	0.0	14.4	0.0	301.5	163.5	40.7	179.1	0.0	0.0	110.3
13. PMOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14. LR PM (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15. NSC (MW)	1,162	1,162	1,162	1,162	1,162	1,162	1,162	1,162	1,162	1,162	1,162	1,162	1,162
16. OPER MBTU	4,724,270	4,705,387	3,521,015	1,311,112	0	3,196,281	5,351,907	5,408,184	5,106,946	3,804,917	4,085,289	4,158,027	45,373,335
17. NET GEN (MWH)	640,347	644,116	488,672	174,943	0	434,926	732,862	738,912	688,871	438,059	361,038	565,169	5,907,915
18. ANOHR (BTU/KWH)	7,377.7	7,305.2	7,205.3	7,494.5	0.0	7,349.0	7,302.7	7,319.1	7,413.5	8,685.9	11,315.4	7,357.1	7,680.1
19. NOF (%)	84.95	85.83	76.61	47.12	0.00	91.10	86.30	86.36	84.65	71.17	72.26	74.47	79.54
20. NPC (MW)	1,162	1,162	1,162	1,162	1,162	1,162	1,162	1,162	1,162	1,162	1,162	1,162	1,162
ANOHR EQUATION:	ANOHR=	-14.832	x NOF +	8,654.17									

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Docket No.:
Order No.:

ACTUAL UNIT PERFORMANCE DATA

Duke Energy Florida

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-Dec Period
1. EAF	97.15	87.56	10.31	99.11	66.47	99.82	93.43	96.95	95.86	98.47	86.42	99.89	85.85
2. PH	744	696	743	720	744	720	744	744	720	744	721	744	8,784
3. SH	723.1	613.7	83.8	720.0	498.9	720.0	714.5	744.0	720.0	744.0	629.3	744.0	7,655.1
4. RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5. UH	20.9	82.4	659.2	0.0	245.1	0.0	29.5	0.0	0.0	0.0	91.8	0.0	1,128.9
6. POH	0.0	82.4	659.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	741.6
7. FOH	20.9	0.0	0.0	0.0	0.0	0.0	29.5	0.0	0.0	0.0	0.0	0.0	50.4
8. MOH	0.0	0.0	0.0	0.0	245.1	0.0	0.0	0.0	0.0	0.0	91.8	0.0	336.9
9. PPOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10. LR PP (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11. PFOH	0.0	0.0	0.0	1.2	10.1	0.3	30.6	81.3	30.0	13.1	0.0	0.0	166.5
12. LR PF (MW)	0.0	0.0	0.0	92.7	284.0	65.0	175.0	164.6	401.8	98.3	0.0	0.0	210.6
13. PMOH	2.0	17.3	54.7	46.0	3.0	13.7	32.8	21.6	75.6	73.2	41.2	6.2	387.2
14. LR PM (MW)	93.0	174.0	93.0	96.5	65.0	65.6	256.9	128.0	121.4	93.0	106.1	93.0	118.6
15. NSC (MW)	712	712	712	712	712	712	712	712	712	712	712	712	712
16. OPER MBTU	3,181,413	2,381,195	328,279	3,293,827	2,219,686	4,160,428	4,255,023	4,422,325	4,096,631	4,068,228	2,965,014	4,052,488	39,424,537
17. NET GEN (MWH)	281,627	212,501	27,079	319,988	199,549	402,205	431,436	432,186	399,809	402,655	291,367	396,167	3,796,569
18. ANOHR (BTU/KWH)	11,296.5	11,205.6	12,123.0	10,293.6	11,123.5	10,344.0	9,862.5	10,232.5	10,246.5	10,103.5	10,176.2	10,229.2	10,384.3
19. NOF (%)	54.70	48.64	45.40	62.42	56.18	78.46	84.81	81.59	77.99	76.01	65.03	74.79	69.66
20. NPC (MW)	712	712	712	712	712	712	712	712	712	712	712	712	712
ANOHR EQUATION:	ANOHR=	-4.998	x NOF +	10,820.25									

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ACTUAL UNIT PERFORMANCE DATA

Duke Energy Florida

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-Dec Period
1. EAF	98.65	98.05	99.22	99.55	99.70	98.83	97.43	94.03	53.89	70.11	99.58	99.20	92.37
2. PH	744	696	743	720	744	720	744	744	720	744	721	744	8,784
3. SH	618.5	696.0	743.0	720.0	744.0	720.0	744.0	744.0	403.0	562.4	721.0	744.0	8,159.9
4. RSH	124.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	124.4
5. UH	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	317.0	181.6	0.0	0.0	499.8
6. POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	181.6	0.0	0.0	181.6
7. FOH	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	317.0	0.0	0.0	0.0	318.1
8. MOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9. PPOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10. LR PP (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11. PFOH	20.0	8.3	5.5	3.0	0.0	0.0	0.0	67.7	31.4	0.0	7.8	0.0	143.6
12. LR PF (MW)	303.7	91.1	91.0	63.0	0.0	0.0	0.0	149.9	106.2	0.0	91.0	0.0	151.2
13. PMOH	3.6	58.1	10.5	16.9	2.8	40.2	39.1	83.4	51.2	318.1	15.7	46.4	686.0
14. LR PM (MW)	63.1	152.7	345.0	126.3	567.0	148.8	347.1	256.3	142.9	91.0	91.0	91.0	144.7
15. NSC (MW)	710	710	710	710	710	710	710	710	710	710	710	710	710
16. OPER MBTU	2,805,817	2,583,132	2,935,831	3,207,108	3,285,973	4,023,544	4,269,448	4,247,901	1,884,116	2,702,011	3,255,703	3,874,503	39,075,088
17. NET GEN (MWH)	249,857	236,536	280,664	313,678	301,125	396,796	439,920	412,581	198,071	263,041	321,444	381,356	3,795,069
18. ANOHR (BTU/KWH)	11,229.7	10,920.7	10,460.3	10,224.2	10,912.3	10,140.1	9,705.1	10,295.9	9,512.3	10,272.2	10,128.4	10,159.8	10,296.3
19. NOF (%)	56.90	47.87	53.20	61.36	57.01	77.62	83.28	78.10	69.22	65.88	62.79	72.19	65.51
20. NPC (MW)	710	710	710	710	710	710	710	710	710	710	710	710	710
ANOHR EQUATION:	ANOHR=	-27.458	x NOF +	12,314.63									

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ACTUAL UNIT PERFORMANCE DATA

Duke Energy Florida

Hines 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-Dec Period
1. EAF	100.00	100.00	64.99	12.83	87.36	98.62	96.49	100.00	100.00	97.60	100.00	98.79	88.03
2. PH	744	696	743	720	744	720	744	744	720	744	721	744	8,784
3. SH	744.0	696.0	477.7	92.4	650.0	711.9	722.5	744.0	720.0	726.1	686.7	635.2	7,606.5
4. RSH	0.0	0.0	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.3	99.8	139.4
5. UH	0.0	0.0	260.1	627.6	94.0	8.1	21.5	0.0	0.0	17.9	0.0	9.0	1,038.2
6. POH	0.0	0.0	214.8	623.6	49.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	888.0
7. FOH	0.0	0.0	45.4	4.0	44.3	8.1	21.5	0.0	0.0	0.0	0.0	0.0	123.3
8. MOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.9	0.0	9.0	26.9
9. PPOH	0.0	0.0	0.0	0.0	18.9	7.0	15.6	2.0	0.0	5.8	0.0	0.0	49.4
10. LR PP (MW)	0.0	0.0	0.0	0.0	78.3	85.9	47.1	79.2	0.0	80.9	0.0	0.0	69.8
11. PFOH	0.0	0.0	0.0	0.0	0.0	8.6	22.7	0.0	0.0	0.0	0.0	0.0	31.4
12. LR PF (MW)	0.0	0.0	0.0	0.0	0.0	106.4	105.4	0.0	0.0	0.0	0.0	0.0	105.7
13. PMOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14. LR PM (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15. NSC (MW)	518	518	518	518	518	518	518	518	518	518	518	518	518
16. OPER MBTU	2,438,979	2,267,530	1,577,217	218,014	1,995,079	2,304,431	2,254,881	2,428,474	2,257,831	2,054,260	2,042,815	1,762,624	23,602,136
17. NET GEN (MWH)	344,015	322,178	207,300	26,041	270,336	308,101	314,579	335,591	316,133	315,687	301,381	257,070	3,318,412
18. ANOHR (BTU/KWH)	7,089.7	7,038.1	7,608.4	8,372.0	7,380.0	7,479.5	7,167.9	7,236.4	7,142.0	6,507.3	6,778.2	6,856.6	7,112.5
19. NOF (%)	89.26	89.36	83.78	54.40	80.29	83.55	84.05	87.08	84.76	83.93	84.73	78.13	84.22
20. NPC (MW)	518	518	518	518	518	518	518	518	518	518	518	518	518
ANOHR EQUATION:	ANOHR=	-14.372	x NOF +	8,708.51									

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ACTUAL UNIT PERFORMANCE DATA

Duke Energy Florida

Hines 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-Dec Period
1. EAF	99.62	65.36	25.92	99.86	98.82	99.85	100.00	81.32	95.21	99.18	84.82	99.00	87.42
2. PH	744	696	743	720	744	720	744	744	720	744	721	744	8,784
3. SH	649.8	316.3	191.6	719.0	735.3	720.0	744.0	605.5	667.5	736.8	542.2	611.6	7,239.7
4. RSH	91.4	138.6	0.9	0.0	0.0	0.0	0.0	0.0	18.0	1.1	91.7	126.4	468.1
5. UH	2.9	241.1	550.4	1.0	8.8	0.0	0.0	138.5	34.5	6.1	87.1	6.0	1,076.3
6. POH	0.0	240.0	527.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	767.0
7. FOH	2.9	1.1	23.5	1.0	3.1	0.0	0.0	18.5	8.0	0.0	87.1	6.0	151.0
8. MOH	0.0	0.0	0.0	0.0	5.6	0.0	0.0	120.0	26.6	6.1	0.0	0.0	158.3
9. PPOH	0.0	1.7	0.0	1.0	3.4	12.6	3.2	4.5	0.0	1.4	0.0	0.0	27.7
10. LR PP (MW)	0.0	68.6	0.0	70.2	71.2	70.9	72.0	65.4	0.0	47.8	0.0	0.0	68.8
11. PFOH	0.0	0.0	0.0	0.0	0.0	14.5	0.0	2.1	0.0	0.0	104.3	7.0	127.9
12. LR PF (MW)	0.0	0.0	0.0	0.0	0.0	39.8	0.0	120.6	0.0	0.0	116.8	116.7	108.1
13. PMOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14. LR PM (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15. NSC (MW)	546	546	546	546	546	546	546	546	546	546	546	546	546
16. OPER MBTU	2,135,651	1,041,398	611,137	2,475,832	2,463,484	2,433,998	2,496,763	2,132,267	2,385,170	2,419,538	1,686,582	1,579,439	23,861,257
17. NET GEN (MWH)	288,534	138,689	84,068	341,940	342,463	342,291	346,849	289,973	307,757	346,560	234,024	217,022	3,280,170
18. ANOHR (BTU/KWH)	7,401.7	7,508.9	7,269.6	7,240.5	7,193.4	7,110.9	7,198.4	7,353.3	7,750.2	6,981.6	7,206.9	7,277.8	7,274.4
19. NOF (%)	81.33	80.30	80.35	87.10	85.31	87.07	85.38	87.71	84.44	86.14	79.05	64.99	82.98
20. NPC (MW)	546	546	546	546	546	546	546	546	546	546	546	546	546
ANOHR EQUATION:	ANOHR=	-1.643	x NOF +	7,475.31									

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ACTUAL UNIT PERFORMANCE DATA

Duke Energy Florida

Hines 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-Dec Period
1. EAF	100.00	100.00	100.00	83.79	0.00	52.05	100.00	98.72	100.00	86.63	78.30	98.31	83.07
2. PH	744	696	743	720	744	720	744	744	720	744	721	744	8,784
3. SH	699.6	647.3	700.1	601.0	0.0	373.9	744.0	734.5	720.0	618.0	554.6	703.3	7,096.2
4. RSH	44.4	48.7	43.0	2.3	0.0	0.9	0.0	0.0	0.0	26.5	9.9	29.6	205.2
5. UH	0.0	0.0	0.0	116.7	744.0	345.2	0.0	9.5	0.0	99.5	156.5	11.1	1,482.6
6. POH	0.0	0.0	0.0	95.6	744.0	266.0	0.0	0.0	0.0	76.2	144.8	0.0	1,326.6
7. FOH	0.0	0.0	0.0	5.5	0.0	79.2	0.0	9.5	0.0	17.7	11.7	5.5	129.2
8. MOH	0.0	0.0	0.0	15.6	0.0	0.0	0.0	0.0	0.0	5.5	0.0	5.7	26.8
9. PPOH	0.0	2.3	7.7	8.3	0.0	6.1	0.6	1.5	0.0	0.0	0.0	0.0	26.5
10. LR PP (MW)	0.0	52.4	59.5	57.4	0.0	60.9	22.6	62.1	0.0	0.0	0.0	0.0	57.8
11. PFOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	7.1
12. LR PF (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	111.4	111.4
13. PMOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14. LR PM (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15. NSC (MW)	544	544	544	544	544	544	544	544	544	544	544	544	544
16. OPER MBTU	2,363,034	2,105,001	2,263,623	1,970,384	0	1,216,110	2,451,575	2,420,249	2,186,895	1,843,341	1,584,951	2,216,895	22,622,057
17. NET GEN (MWH)	327,590	288,963	313,593	273,740	0	165,343	342,907	347,446	323,791	257,478	213,178	306,466	3,160,495
18. ANOHR (BTU/KWH)	7,213.4	7,284.7	7,218.3	7,198.0	0.0	7,355.1	7,149.4	6,965.8	6,754.0	7,159.2	7,434.9	7,233.7	7,157.8
19. NOF (%)	86.08	82.06	82.35	83.73	0.00	81.30	84.72	86.95	82.67	76.59	70.66	80.10	81.87
20. NPC (MW)	544	544	544	544	544	544	544	544	544	544	544	544	544
ANOHR EQUATION:	ANOHR=	-8.512	x NOF +	7,994.57									

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ACTUAL UNIT PERFORMANCE DATA

Duke Energy Florida

Hines 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-Dec Period
1. EAF	99.12	100.00	100.00	100.00	73.46	0.85	0.00	22.48	100.00	82.36	62.39	54.74	66.08
2. PH	744	696	743	720	744	720	744	744	720	744	721	744	8,784
3. SH	713.5	696.0	743.0	720.0	569.4	6.1	0.0	167.3	720.0	574.1	440.3	404.4	5,754.0
4. RSH	24.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.6	9.6	2.8	75.0
5. UH	6.6	0.0	0.0	0.0	174.6	713.9	744.0	576.7	0.0	131.3	271.2	336.7	2,954.9
6. POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	130.5	230.1	320.0	680.7
7. FOH	6.6	0.0	0.0	0.0	157.2	713.9	744.0	576.7	0.0	0.7	0.3	0.0	2,199.4
8. MOH	0.0	0.0	0.0	0.0	17.4	0.0	0.0	0.0	0.0	0.0	40.7	16.7	74.8
9. PPOH	1.5	8.0	1.2	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.7
10. LR PP (MW)	59.2	59.3	55.4	63.6	58.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59.2
11. PFOH	0.0	0.0	0.0	0.0	203.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	203.8
12. LR PF (MW)	0.0	0.0	0.0	0.0	59.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59.1
13. PMOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14. LR PM (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15. NSC (MW)	528	528	528	528	528	528	528	528	528	528	528	528	528
16. OPER MBTU	2,418,323	2,361,296	2,500,840	2,413,309	1,603,043	12,003	0	526,791	2,231,123	1,536,413	1,059,837	1,198,545	17,861,524
17. NET GEN (MWH)	348,625	337,289	358,855	342,436	223,149	1,026	0	73,966	327,247	221,549	154,425	168,715	2,557,282
18. ANOHR (BTU/KWH)	6,936.7	7,000.8	6,968.9	7,047.5	7,183.7	11,699.1	0.0	7,122.1	6,817.9	6,934.9	6,863.1	7,104.0	6,984.6
19. NOF (%)	92.54	91.78	91.47	90.08	74.23	31.96	0.00	83.74	86.08	73.09	66.43	79.01	84.17
20. NPC (MW)	528	528	528	528	528	528	528	528	528	528	528	528	528
ANOHR EQUATION:	ANOHR=	-2.886	x NOF +	7,264.12									

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PLANNED OUTAGE SCHEDULES
ACTUAL

Duke Energy Florida
January 2016 - December 2016

<u>Plant/Unit</u>	<u>Planned Outage Dates</u>	<u>Reason for Outage</u>
Bartow CC	03/05 (0044) - 06/12 (1346)	Gas Turbine - Exhaust System Vanes/nozzles, LP Turbine Buckets Or Blades
Crystal River 4	02/26 (1339) - 03/28 (1214)	Minor Boiler Overhaul (less than 720 Hours)
Crystal River 5	10/21 (2250) - 10/29 (1227)	Boiler Inspections
Hines 1	03/23 (0115) - 05/07 (0805)	General Gas Turbine Unit Inspection
Hines 2	02/20 (0000) - 03/22 (2220)	General Gas Turbine Unit Inspection
Hines 3	04/27 (0033) - 06/12 (0430)	General Gas Turbine Unit Inspection
Hines 3	10/22 (0004) - 11/19 (2250)	Gas Turbine - Hot End Inspection
Hines 4	10/15 (0000) - 12/19 (2340)	General Gas Turbine Unit Inspection

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Planned Outage Schedule - Actual													
January 2016 - December 2016													
Duke Energy Florida													
	January	February	March	April	May	June	July	August	September	October	November	December	
Bartow CC			3/5	Exhaust System Vanes/nozzles, LP Turbine Blades			6/12						
				100 days									
Crystal River 4		2/26	Minor Boiler Overhaul		3/28								
			32 days										
Crystal River 5										10/21	10/29		
										8 days			
Hines 1			3/23	General Gas Turbine Unit Inspection		5/7							
				46 days									
Hines 2		2/20	General Gas Turbine Unit Inspection		3/22								
			32 days										
Hines 3				4/27	General Gas Turbine Unit Inspection		6/12			10/22	11/19		
				47 days						29 days			
Hines 4										10/15	12/19		
										66 days			

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