



Matthew R. Bernier
ASSOCIATE GENERAL COUNSEL

August 27, 2021

VIA ELECTRONIC FILING

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

Re: *Performance Data Report for July 2021*
Docket No. 20210001-EI

Dear Mr. Teitzman:

Attached for electronic filing in the above-referenced Docket is Duke Energy Florida, LLC's Performance Data Report for July 2021.

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/mw
Attachment

cc: Damian Kistner, Division of Engineering, FPSC

CERTIFICATE OF SERVICE

Docket No. 20210001-EI

I HEREBY CERTIFY that a true copy of the above-mentioned document has been furnished to the following individuals via e-mail on this 27th day of August, 2021.

s/ Matthew R. Bernier

Attorney

<p>Suzanne Brownless Stefanie Jo Osborn Office of General Counsel FL Public Service Commission 2540 Shumard Oak Blvd. Tallahassee, FL 32399-0850 sbrownle@psc.state.fl.us sosborn@psc.state.fl.us</p> <p>J. Beasley / J. Wahlen / M. Means Ausley McMullen P.O. Box 391 Tallahassee, FL 32302 jbeasley@ausley.com jwahlen@ausley.com mmeans@ausley.com</p> <p>Russell A. Badders Gulf Power Company One Energy Place, Bin 100 Pensacola, FL 32520-0100 russell.badders@nexteraenergy.com</p> <p>Kenneth A. Hoffman Florida Power & Light Company 134 W. Jefferson Street Tallahassee, FL 32301-1713 ken.hoffman@fpl.com</p> <p>Jon C. Moyle, Jr. Moyle Law Firm, P.A. FIPUG 118 North Gadsden Street Tallahassee, FL 32301 jmoyle@moylelaw.com mqualls@moylelaw.com</p> <p>Peter J. Mattheis Michael K. Lavanga Stone Mattheis Xenopoulos & Brew, PC Nucor 1025 Thomas Jefferson Street, NW Suite 800 West Washington, DC 20007-5201 pjm@smxblaw.com mkl@smxblaw.com</p>	<p>Anastacia Pirrello / Richard Gentry /C. Rehwinkel/S. Morse/Patty Christensen Office of Public Counsel 111 W. Madison St., Room 812 Tallahassee, FL 32399-1400 pirrello.anastacia@leg.state.fl.us gentry.richard@leg.state.fl.us Rehwinkel.charles@leg.state.fl.us Christensen.patty@leg.state.fl.us Morse.stephanie@leg.state.fl.us</p> <p>Paula K. Brown Regulatory Affairs Tampa Electric Company P.O. Box 111 Tampa, FL 33601-0111 regdept@tecoenergy.com</p> <p>Maria Moncada Florida Power & Light Company 700 Universe Blvd. (LAW/JB) Juno Beach, FL 33408-0420 maria.moncada@fpl.com David.lee@fpl.com</p> <p>James Brew / Laura W. Baker Stone Law Firm White Springs/PCS Phosphate 1025 Thomas Jefferson St., N.W. Suite 800 West Washington, DC 20007 jbrew@smxblaw.com lwb@smxblaw.com</p> <p>Mike Cassel Florida Public Utilities Company 208 Wildlight Avenue Yulee, FL 32097 mcassel@fpuc.com</p> <p>Beth Keating Gunster, Yoakley & Stewart, P.A. FPUC 215 South Monroe Street, Suite 601 Tallahassee, FL 32301 bkeating@gunster.com</p>
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Duke Energy

ACTUAL UNIT PERFORMANCE DATA - YEAR 2021

Bartow CC	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan - Jul Period
1. EAF	76.06	74.65	81.64	85.18	78.63	74.94	67.86	0.00	0.00	0.00	0.00	0.00	77.54
2. PH	744.0	672.0	743.0	720.0	744.00	720.00	744.00	0.00	0.00	0.00	0.00	0.00	5,087.0
3. SH	491.2	468.1	606.8	613.7	593.6	548.2	507.6	0.00	0.00	0.00	0.00	0.00	3,829.2
4. RSH	80.7	40.0	8.7	0.7	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	130.0
5. UH	172.1	164.0	127.5	105.7	150.4	171.8	236.4	0.00	0.00	0.00	0.00	0.00	1,127.8
6. POH	0.0	0.0	0.0	57.1	2.9	46.4	120.0	0.00	0.00	0.00	0.00	0.00	226.4
7. FOH	172.1	115.3	127.5	48.6	147.5	112.7	116.4	0.00	0.00	0.00	0.00	0.00	840.0
8. MOH	0.0	48.7	0.0	0.0	0.0	12.7	0.0	0.00	0.00	0.00	0.00	0.00	61.4
9. PPOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.0
10. LR PP (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.0
11. PFOH	165.7	223.6	247.2	28.3	238.6	239.6	247.6	0.00	0.00	0.00	0.00	0.00	1,390.6
12. LR PF (MW)	13.0	10.2	13.0	13.0	13.0	13.0	13.0	0.00	0.00	0.00	0.00	0.00	12.6
13. PMOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.0
14. LR PM (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.0
15. NSC (MW)	1,169.00	1,169.00	1,169.00	1,169.00	1,169.00	1,169.00	1,169.00	0.00	0.00	0.00	0.00	0.00	1,169.00
16. OPER MBTU	3,009,582	3,248,573	4,027,767	4,164,212	3,801,769	3,423,489	2,777,715	0.00	0.00	0.00	0.00	0.00	24,453,108
17. NET GEN (MWH)	371,666	405,079	545,492	567,154	509,059	459,979	370,554	0.00	0.00	0.00	0.00	0.00	3,228,983
18. ANOHR (BTU/KWH)	8,097.5	8,019.6	7,383.7	7,342.3	7,468.2	7,442.7	7,496.1	0.00	0.00	0.00	0.00	0.00	7,573.0
19. NOF %	64.73	74.03	76.90	79.06	73.36	71.78	62.44	0.00	0.00	0.00	0.00	0.00	72.13
20. NPC (MW)	1,169.00	1,169.00	1,169.00	1,169.00	1,169.00	1,169.00	1,169.00	0.00	0.00	0.00	0.00	0.00	1,169.00

Duke Energy

ACTUAL UNIT PERFORMANCE DATA - YEAR 2021

Crystal River 4	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan - Jul Period
1. EAF	0.00	0.00	13.64	95.58	85.86	77.24	67.12	0.00	0.00	0.00	0.00	0.00	48.83
2. PH	744.0	672.0	743.0	720.0	744.00	720.00	744.00	0.00	0.00	0.00	0.00	0.00	5,087.0
3. SH	0.0	0.0	137.6	713.3	654.5	675.6	633.3	0.00	0.00	0.00	0.00	0.00	2,814.3
4. RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.0
5. UH	744.0	672.0	605.4	6.7	89.5	44.4	110.7	0.00	0.00	0.00	0.00	0.00	2,272.7
6. POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.0
7. FOH	744.0	672.0	605.4	6.7	20.7	41.6	21.7	0.00	0.00	0.00	0.00	0.00	2,112.1
8. MOH	0.0	0.0	0.0	0.0	68.8	2.8	89.0	0.00	0.00	0.00	0.00	0.00	160.6
9. PPOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.0
10. LR PP (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.0
11. PFOH	0.0	0.0	72.9	91.6	86.2	235.6	287.5	0.00	0.00	0.00	0.00	0.00	773.8
12. LR PF (MW)	0.0	0.0	353.7	182.8	129.4	309.0	331.6	0.00	0.00	0.00	0.00	0.00	286.7
13. PMOH	0.0	0.0	0.0	12.6	0.0	37.6	0.0	0.00	0.00	0.00	0.00	0.00	50.2
14. LR PM (MW)	0.0	0.0	0.0	92.8	0.0	326.8	0.0	0.00	0.00	0.00	0.00	0.00	268.2
15. NSC (MW)	712.00	712.00	712.00	712.00	712.00	712.00	712.00	0.00	0.00	0.00	0.00	0.00	712.00
16. OPER MBTU	0	0	529,940	3,452,548	3,288,633	3,358,341	2,977,114	0.00	0.00	0.00	0.00	0.00	13,606,575
17. NET GEN (MWH)	0	0	41,724	335,824	319,517	320,470	281,351	0.00	0.00	0.00	0.00	0.00	1,298,886
18. ANOHR (BTU/KWH)	0.0	0.0	12,701.1	10,280.8	10,292.5	10,479.4	10,581.5	0.00	0.00	0.00	0.00	0.00	10,475.6
19. NOF %	0.00	0.00	42.58	66.12	68.57	66.62	62.40	0.00	0.00	0.00	0.00	0.00	64.82
20. NPC (MW)	712.00	712.00	712.00	712.00	712.00	712.00	712.00	0.00	0.00	0.00	0.00	0.00	712.00

Duke Energy

ACTUAL UNIT PERFORMANCE DATA - YEAR 2021

Crystal River 5	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan - Jul Period
1. EAF	94.97	93.80	98.56	87.07	94.17	80.00	93.15	0.00	0.00	0.00	0.00	0.00	91.72
2. PH	744.0	672.0	743.0	720.0	744.00	720.00	744.00	0.00	0.00	0.00	0.00	0.00	5,087.0
3. SH	615.0	664.0	743.0	654.0	703.7	590.5	744.0	0.00	0.00	0.00	0.00	0.00	4,714.3
4. RSH	105.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	105.0
5. UH	24.0	8.0	0.0	66.0	40.3	129.5	0.0	0.00	0.00	0.00	0.00	0.00	267.8
6. POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.0
7. FOH	24.0	8.0	0.0	66.0	40.3	129.5	0.0	0.00	0.00	0.00	0.00	0.00	267.8
8. MOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.0
9. PPOH	0.0	31.7	0.0	0.0	0.0	3.7	0.0	0.00	0.00	0.00	0.00	0.00	35.4
10. LR PP (MW)	0.0	298.2	0.0	0.0	0.0	90.9	0.0	0.00	0.00	0.00	0.00	0.00	276.7
11. PFOH	33.8	61.6	24.9	91.7	12.9	77.4	201.3	0.00	0.00	0.00	0.00	0.00	503.5
12. LR PF (MW)	281.9	216.4	306.0	153.3	168.0	129.0	179.8	0.00	0.00	0.00	0.00	0.00	184.4
13. PMOH	0.0	11.0	0.0	18.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	29.0
14. LR PM (MW)	0.0	102.0	0.0	289.9	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	218.6
15. NSC (MW)	710.00	710.00	710.00	710.00	710.00	710.00	710.00	0.00	0.00	0.00	0.00	0.00	710.00
16. OPER MBTU	2,554,184	3,923,300	3,466,343	2,929,153	3,368,809	3,285,230	3,836,411	0.00	0.00	0.00	0.00	0.00	23,363,428
17. NET GEN (MWH)	243,139	409,436	341,957	268,825	321,255	312,461	360,468	0.00	0.00	0.00	0.00	0.00	2,257,541
18. ANOHR (BTU/KWH)	10,505.0	9,582.2	10,136.8	10,896.1	10,486.4	10,514.0	10,642.9	0.00	0.00	0.00	0.00	0.00	10,349.1
19. NOF %	55.68	86.85	64.82	57.89	64.30	74.53	68.24	0.00	0.00	0.00	0.00	0.00	67.45
20. NPC (MW)	710.00	710.00	710.00	710.00	710.00	710.00	710.00	0.00	0.00	0.00	0.00	0.00	710.00

Duke Energy

ACTUAL UNIT PERFORMANCE DATA - YEAR 2021

Hines Power Block 1	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan - Jul Period
1. EAF	98.70	86.63	100.00	33.14	0.00	51.25	93.61	0.00	0.00	0.00	0.00	0.00	66.04
2. PH	744.0	672.0	743.0	720.0	744.00	720.00	744.00	0.00	0.00	0.00	0.00	0.00	5,087.0
3. SH	734.3	515.0	743.0	238.9	0.0	346.3	695.6	0.00	0.00	0.00	0.00	0.00	3,273.2
4. RSH	0.0	70.2	0.0	0.0	0.0	22.7	3.1	0.00	0.00	0.00	0.00	0.00	96.0
5. UH	9.7	86.7	0.0	481.1	744.0	351.0	45.3	0.00	0.00	0.00	0.00	0.00	1,717.8
6. POH	0.0	0.0	0.0	481.1	744.0	215.1	0.0	0.00	0.00	0.00	0.00	0.00	1,440.2
7. FOH	9.7	86.7	0.0	0.0	0.0	135.9	25.9	0.00	0.00	0.00	0.00	0.00	258.3
8. MOH	0.0	0.0	0.0	0.0	0.0	0.0	19.4	0.00	0.00	0.00	0.00	0.00	19.4
9. PPOH	0.0	0.0	0.0	0.0	0.0	0.0	10.9	0.00	0.00	0.00	0.00	0.00	10.9
10. LR PP (MW)	0.0	0.0	0.0	0.0	0.0	0.0	75.7	0.00	0.00	0.00	0.00	0.00	75.7
11. PFOH	0.0	6.2	0.0	2.0	0.0	0.0	6.9	0.00	0.00	0.00	0.00	0.00	15.1
12. LR PF (MW)	0.0	78.0	0.0	23.9	0.0	0.0	41.4	0.00	0.00	0.00	0.00	0.00	54.2
13. PMOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.0
14. LR PM (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.0
15. NSC (MW)	490.00	490.00	490.00	490.00	490.00	490.00	490.00	0.00	0.00	0.00	0.00	0.00	490.00
16. OPER MBTU	2,447,182	1,470,073	2,348,431	716,044	0	943,011	2,042,933	0.00	0.00	0.00	0.00	0.00	9,967,673
17. NET GEN (MWH)	337,478	194,896	325,063	102,549	0	124,781	276,192	0.00	0.00	0.00	0.00	0.00	1,360,959
18. ANOHR (BTU/KWH)	7,251.4	7,542.9	7,224.5	6,982.5	0.0	7,557.3	7,396.8	0.00	0.00	0.00	0.00	0.00	7,324.0
19. NOF %	93.79	77.23	89.29	87.60	0.00	73.53	81.03	0.00	0.00	0.00	0.00	0.00	84.85
20. NPC (MW)	490.00	490.00	490.00	490.00	490.00	490.00	490.00	0.00	0.00	0.00	0.00	0.00	490.00

Duke Energy

ACTUAL UNIT PERFORMANCE DATA - YEAR 2021

Hines Power Block 2	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan - Jul Period
1. EAF	100.00	100.00	100.00	100.00	99.46	100.00	99.74	0.00	0.00	0.00	0.00	0.00	99.88
2. PH	744.0	672.0	743.0	720.0	744.00	720.00	744.00	0.00	0.00	0.00	0.00	0.00	5,087.0
3. SH	608.0	621.6	537.5	697.4	725.0	720.0	735.2	0.00	0.00	0.00	0.00	0.00	4,644.8
4. RSH	136.0	50.4	205.5	22.6	16.3	0.0	6.9	0.00	0.00	0.00	0.00	0.00	437.6
5. UH	0.0	0.0	0.0	0.0	2.7	0.0	1.9	0.00	0.00	0.00	0.00	0.00	4.6
6. POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.0
7. FOH	0.0	0.0	0.0	0.0	2.7	0.0	1.9	0.00	0.00	0.00	0.00	0.00	4.6
8. MOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.0
9. PPOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.0
10. LR PP (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.0
11. PFOH	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.00	0.00	0.00	0.00	0.00	2.5
12. LR PF (MW)	0.0	0.0	0.0	0.0	94.4	0.0	0.0	0.00	0.00	0.00	0.00	0.00	94.4
13. PMOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.0
14. LR PM (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.0
15. NSC (MW)	524.00	524.00	524.00	524.00	524.00	524.00	524.00	0.00	0.00	0.00	0.00	0.00	524.00
16. OPER MBTU	1,766,001	1,898,055	1,653,661	2,288,659	2,302,286	2,413,165	2,373,446	0.00	0.00	0.00	0.00	0.00	14,695,273
17. NET GEN (MWH)	235,715	249,585	220,637	313,833	313,341	321,959	316,304	0.00	0.00	0.00	0.00	0.00	1,971,374
18. ANOHR (BTU/KWH)	7,492.1	7,604.8	7,494.9	7,292.6	7,347.5	7,495.3	7,503.7	0.00	0.00	0.00	0.00	0.00	7,454.3
19. NOF %	73.98	76.62	78.33	85.88	82.48	85.34	82.11	0.00	0.00	0.00	0.00	0.00	81.00
20. NPC (MW)	524.00	524.00	524.00	524.00	524.00	524.00	524.00	0.00	0.00	0.00	0.00	0.00	524.00

Duke Energy

ACTUAL UNIT PERFORMANCE DATA - YEAR 2021

Hines Power Block 3	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan - Jul Period
1. EAF	97.33	42.86	0.00	0.00	0.00	41.53	100.00	0.00	0.00	0.00	0.00	0.00	40.40
2. PH	744.0	672.0	743.0	720.0	744.00	720.00	744.00	0.00	0.00	0.00	0.00	0.00	5,087.0
3. SH	360.5	68.6	0.0	0.0	0.0	299.0	744.0	0.00	0.00	0.00	0.00	0.00	1,472.2
4. RSH	363.6	219.4	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	583.0
5. UH	19.9	384.0	743.0	720.0	744.0	421.0	0.0	0.00	0.00	0.00	0.00	0.00	3,031.9
6. POH	0.0	384.0	743.0	720.0	744.0	287.4	0.0	0.00	0.00	0.00	0.00	0.00	2,878.4
7. FOH	19.9	0.0	0.0	0.0	0.0	133.6	0.0	0.00	0.00	0.00	0.00	0.00	153.5
8. MOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.0
9. PPOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.0
10. LR PP (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.0
11. PFOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.0
12. LR PF (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.0
13. PMOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.0
14. LR PM (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.0
15. NSC (MW)	521.00	521.00	521.00	521.00	521.00	521.00	521.00	0.00	0.00	0.00	0.00	0.00	521.00
16. OPER MBTU	942,240	191,425	0	0	0	919,460	2,347,473	0.00	0.00	0.00	0.00	0.00	4,400,598
17. NET GEN (MWH)	132,532	25,683	0	0	0	124,414	327,307	0.00	0.00	0.00	0.00	0.00	609,936
18. ANOHR (BTU/KWH)	7,109.5	7,453.4	0.0	0.0	0.0	7,390.3	7,172.1	0.00	0.00	0.00	0.00	0.00	7,214.9
19. NOF %	70.56	71.83	0.00	0.00	0.00	79.86	84.44	0.00	0.00	0.00	0.00	0.00	79.52
20. NPC (MW)	521.00	521.00	521.00	521.00	521.00	521.00	521.00	0.00	0.00	0.00	0.00	0.00	521.00

Duke Energy

ACTUAL UNIT PERFORMANCE DATA - YEAR 2021

Hines Power Block 4	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan - Jul Period
1. EAF	100.00	100.00	100.00	95.23	100.00	99.66	100.00	0.00	0.00	0.00	0.00	0.00	99.28
2. PH	744.0	672.0	743.0	720.0	744.00	720.00	744.00	0.00	0.00	0.00	0.00	0.00	5,087.0
3. SH	247.5	657.2	730.9	645.0	734.5	720.0	744.0	0.00	0.00	0.00	0.00	0.00	4,479.0
4. RSH	496.5	14.8	12.1	44.1	9.5	0.0	0.0	0.00	0.00	0.00	0.00	0.00	577.1
5. UH	0.0	0.0	0.0	30.9	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	30.9
6. POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.0
7. FOH	0.0	0.0	0.0	30.9	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	30.9
8. MOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.0
9. PPOH	0.0	0.0	0.0	0.0	0.0	7.5	0.0	0.00	0.00	0.00	0.00	0.00	7.5
10. LR PP (MW)	0.0	0.0	0.0	0.0	0.0	57.9	0.0	0.00	0.00	0.00	0.00	0.00	57.9
11. PFOH	0.0	0.0	0.0	7.7	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	7.7
12. LR PF (MW)	0.0	0.0	0.0	79.6	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	79.6
13. PMOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.0
14. LR PM (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.0
15. NSC (MW)	519.00	519.00	519.00	519.00	519.00	519.00	519.00	0.00	0.00	0.00	0.00	0.00	519.00
16. OPER MBTU	667,789	2,091,981	2,329,866	1,987,871	2,317,051	2,376,660	2,383,619	0.00	0.00	0.00	0.00	0.00	14,154,837
17. NET GEN (MWH)	96,627	297,969	331,999	285,888	329,922	332,462	331,674	0.00	0.00	0.00	0.00	0.00	2,006,541
18. ANOHR (BTU/KWH)	6,911.0	7,020.8	7,017.7	6,953.3	7,023.0	7,148.7	7,186.6	0.00	0.00	0.00	0.00	0.00	7,054.3
19. NOF %	75.24	87.36	87.53	85.40	86.55	88.97	85.90	0.00	0.00	0.00	0.00	0.00	86.32
20. NPC (MW)	519.00	519.00	519.00	519.00	519.00	519.00	519.00	0.00	0.00	0.00	0.00	0.00	519.00

Duke Energy Florida

ACTUAL UNIT EVENT DATA - January - July 2021

Bartow CC

Unit	Date	Outage Type	Hours	MW Affected	Description
BCC 4A	1/11/2021	FFO	1,997.98	185.0	GENERATOR ROTOR WINDINGS
BCC 4A	4/4/2021	FFO	198.15	185.0	OTHER FUEL QUALITY PROBLEMS (OMC)
BCC 4B	4/17/2021	PO	353.02	183.0	GAS TURBINE - BOROSCOPE INSPECTION
BCC 4B	5/1/2021	FFO	5.38	183.0	OTHER FUEL QUALITY PROBLEMS (OMC)
BCC 4B	5/1/2021	FFO	61.48	183.0	OTHER FUEL QUALITY PROBLEMS (OMC)
BCC 4B	5/4/2021	FFO	10.02	183.0	OTHER FUEL QUALITY PROBLEMS (OMC)
BCC 4B	5/5/2021	FFO	113.42	183.0	OTHER FUEL QUALITY PROBLEMS (OMC)
BCC 4B	5/9/2021	FFO	15.25	183.0	HP EXTRACTION STEAM INSTRUMENTS AND CONTROLS
BCC 4B	6/12/2021	FMO	74.68	183.0	GAS TURBINE - FUEL NOZZLES/VANES
BCC 4C	1/1/2021	FFO	139.63	187.0	OTHER FUEL QUALITY PROBLEMS (OMC)
BCC 4C	1/11/2021	FFO	0.42	187.0	HEAT RECOVERY STEAM GENERATOR TO GAS TURBINE CON..
BCC 4C	5/2/2021	FFO	2,181.08	187.0	GENERATOR ROTOR WINDINGS
BCC 4D	1/1/2021	FFO	161.23	186.0	OTHER FUEL QUALITY PROBLEMS (OMC)
BCC 4D	1/16/2021	FFO	0.62	186.0	OPERATOR ERROR
BCC 4D	5/29/2021	FFO	2.00	186.0	PILOT FUEL PIPING AND VALVES
BCC 4D	6/18/2021	PO	1,032.48	339.0	GENERATOR ROTOR WINDINGS
BCC 4S	1/5/2021	FFO	113.47	339.0	TURBINE - MISCELLANEOUS TURBINE PIPING
BCC 4S	1/11/2021	PFO	1,997.98	12.1	GENERATOR ROTOR WINDINGS
BCC 4S	2/22/2021	FMO	142.85	339.0	TURBINE - MISCELLANEOUS TURBINE PIPING
BCC 4S	5/2/2021	PFO	2,181.08	13.0	GENERATOR ROTOR WINDINGS

Duke Energy Florida

ACTUAL UNIT EVENT DATA - January - July 2021

Crystal River 4

Date	Outage Type	Hours	MW Affected	Description
1/1/2021	FFO	1,998.08	712.0	ROTOR; GENERAL
3/26/2021	PFO	7.75	141.0	HEATER DRAIN PUMPS
3/28/2021	FFO	15.53	712.0	FEEDWATER PUMP
3/28/2021	PFO	65.18	379.0	FEEDWATER PUMP
3/31/2021	FFO	14.48	712.0	FEEDWATER PUMP
4/1/2021	PFO	3.98	127.1	PULVERIZER FEEDERS
4/11/2021	PFO	1.25	92.8	PULVERIZER FEEDERS
4/11/2021	PFO	17.50	426.0	PRIMARY AIR FAN
4/13/2021	PMO	12.58	93.0	HEATER DRAIN PUMPS
4/15/2021	PFO	3.32	92.9	PULVERIZER FEEDERS
4/16/2021	PFO	6.00	127.0	PULVERIZER FEEDERS
4/16/2021	PFO	5.00	46.0	WET COAL (OMC)
4/17/2021	PFO	35.50	46.0	PULVERIZER FEEDERS
4/19/2021	PFO	8.00	302.0	WET COAL (OMC)
4/20/2021	PFO	11.00	302.0	WET COAL (OMC)
5/4/2021	PFO	14.00	93.0	PULVERIZER FEEDERS
5/11/2021	PFO	4.50	93.0	PULVERIZER FEEDERS
5/21/2021	FFO	20.70	712.0	OTHER MISCELLANEOUS BOILER AIR AND GAS SYSTEM PROBLEMS
5/25/2021	PFO	3.00	103.0	PULVERIZER FEEDERS
5/26/2021	PFO	64.67	141.0	FURNACE WALL LEAKS
5/29/2021	FMO	70.60	712.0	FIRST SUPERHEATER LEAKS
6/1/2021	PFO	4.00	474.0	FORCED DRAFT FANS
6/7/2021	PMO	37.60	331.0	FEEDWATER BOOSTER PUMP
6/9/2021	FFO	11.05	712.0	FEEDWATER PUMP
6/9/2021	PFO	3.50	93.0	HEATER DRAIN PUMPS
6/10/2021	PFO	1.50	72.1	WET COAL (OMC)
6/10/2021	FMO	1.00	712.0	WET COAL (OMC)
6/10/2021	PFO	14.28	122.0	WET COAL (OMC)
6/10/2021	PFO	1.15	0.0	WET COAL (OMC)
6/11/2021	PFO	0.33	94.1	WET COAL (OMC)
6/11/2021	PFO	4.58	93.1	WET COAL (OMC)
6/13/2021	FFO	19.38	712.0	FEEDWATER PUMP
6/21/2021	FFO	4.97	712.0	FEEDWATER PUMP/DRIVE LUBE OIL SYSTEM
6/22/2021	PFO	96.40	331.0	FEEDWATER PUMP/DRIVE LUBE OIL SYSTEM
6/26/2021	FFO	6.20	712.0	PULVERIZER FEEDERS

Duke Energy Florida

ACTUAL UNIT EVENT DATA - January - July 2021

Crystal River 4

Date	Outage Type	Hours	MW Affected	Description
6/26/2021	PFO	277.92	331.0	FEEDWATER PUMP/DRIVE LUBE OIL SYSTEM
7/8/2021	FMO	89.03	712.0	FIRST SUPERHEATER LEAKS
7/15/2021	FFO	18.20	712.0	FEEDWATER PUMP
7/16/2021	FFO	3.50	712.0	FEEDWATER PUMP/DRIVE LUBE OIL SYSTEM
7/17/2021	PFO	101.00	302.0	FEEDWATER PUMP DRIVE - CONTROLS
7/24/2021	PFO	18.50	498.0	BUNKER FLOW PROBLEMS

Duke Energy Florida

ACTUAL UNIT EVENT DATA - January - July 2021

Crystal River 5

Date	Outage Type	Hours	MW Affected	Description
1/5/2021	FFO	24.00	710.0	DC PROTECTION DEVICES
1/18/2021	PFO	33.75	282.0	CONDENSATE/HOTWELL PUMPS
2/2/2021	PFO	1.50	109.8	PULVERIZER FEEDERS
2/4/2021	PMO	8.00	110.0	PULVERIZER FEEDERS
2/7/2021	PFO	27.47	72.0	HEATER DRAIN PUMPS
2/10/2021	PMO	3.00	80.0	LOW PRESSURE HEATER - OTHER
2/15/2021	PFO	0.58	25.6	SERVICE AIR VALVES
2/16/2021	FFO	8.00	710.0	OTHER MISCELLANEOUS STEAM TURBINE PROBLEMS
2/17/2021	PFO	8.00	510.0	FEEDWATER PUMP/DRIVE LUBE OIL SYSTEM
2/17/2021	PFO	4.00	370.1	FEEDWATER PUMP/DRIVE LUBE OIL SYSTEM
2/17/2021	PFO	18.00	300.0	FEEDWATER PUMP/DRIVE LUBE OIL SYSTEM
2/19/2021	PPO	9.50	25.0	MISCELLANEOUS REGULATORY
2/21/2021	PFO	2.00	100.1	PULVERIZER MILLS
2/24/2021	PPO	9.23	415.0	MISCELLANEOUS REGULATORY
2/25/2021	PPO	12.98	415.0	MISCELLANEOUS REGULATORY
3/15/2021	PFO	18.00	370.0	AIR HEATER (REGENERATIVE)
3/18/2021	PFO	6.90	139.0	PULVERIZER FEEDERS
4/8/2021	PFO	55.52	150.0	FIRST SUPERHEATER LEAKS
4/10/2021	FFO	65.98	710.0	FIRST SUPERHEATER LEAKS
4/14/2021	PFO	4.00	110.1	OPERATING PROCEDURE ERROR
4/14/2021	PMO	9.00	510.0	OTHER TURBINE INSTRUMENT AND CONTROL PROBLEMS
4/17/2021	PFO	8.20	91.0	PULVERIZER FEEDERS
4/17/2021	PFO	3.00	49.9	WET COAL (OMC)
4/19/2021	PFO	8.00	305.0	WET COAL (OMC)
4/20/2021	PFO	13.00	150.0	WET COAL (OMC)
4/21/2021	PMO	1.00	149.8	PULVERIZER FEEDERS
4/29/2021	PMO	8.00	60.0	HEATER DRAIN PUMPS
5/2/2021	PFO	4.25	25.1	OTHER HIGH PRESSURE HEATER PROBLEMS
5/2/2021	PFO	2.68	567.1	OTHER MISCELLANEOUS BOILER AIR AND GAS SYSTEM PROBLEMS
5/2/2021	FFO	40.30	710.0	OTHER MISCELLANEOUS BOILER AIR AND GAS SYSTEM PROBLEMS
5/14/2021	PFO	6.00	91.0	PULVERIZER INSPECTION
6/4/2021	PFO	2.50	90.9	PULVERIZER FEEDERS
6/8/2021	PFO	6.00	25.0	OTHER BOILER TUBE LEAKS
6/8/2021	PFO	28.48	186.0	OTHER BOILER TUBE LEAKS
6/9/2021	FFO	129.48	710.0	OTHER BOILER TUBE LEAKS

Duke Energy Florida

ACTUAL UNIT EVENT DATA - January - July 2021

Crystal River 5

Date	Outage Type	Hours	MW Affected	Description
6/16/2021	PFO	2.00	281.9	COAL CONVEYERS AND FEEDERS
6/17/2021	PPO	3.67	91.0	PULVERIZER FEEDERS
6/26/2021	PFO	17.17	139.0	WET COAL (OMC)
6/26/2021	PFO	11.50	0.0	WET COAL (OMC)
6/27/2021	PFO	2.00	90.9	INDUCED DRAFT FANS
6/30/2021	PFO	3.75	281.9	WET COAL (OMC)
6/30/2021	PFO	4.00	29.3	WET COAL (OMC)
7/1/2021	PFO	5.00	129.9	PULVERIZER FEEDERS
7/2/2021	PFO	5.00	160.0	WET COAL (OMC)
7/3/2021	PFO	4.00	139.0	WET COAL (OMC)
7/3/2021	PFO	5.50	282.1	WET COAL (OMC)
7/4/2021	PFO	3.50	139.0	WET COAL (OMC)
7/5/2021	PFO	58.50	139.0	PULVERIZER FEEDERS
7/5/2021	PFO	1.00	142.7	WET COAL (OMC)
7/8/2021	PFO	26.00	91.0	PULVERIZER FEEDERS
7/9/2021	PFO	1.50	90.9	INDUCED DRAFT FANS
7/11/2021	PFO	8.50	91.0	OTHER MISC. OPERATIONAL ENVIRONMENTAL LIMITS-FOSSI
7/12/2021	PFO	2.00	139.2	AIR SUPPLY DAMPERS
7/15/2021	PFO	9.00	91.0	PULVERIZER MILLS
7/15/2021	PFO	8.50	217.8	PULVERIZER FEEDERS
7/24/2021	PFO	22.33	139.0	INDUCED DRAFT FAN MOTORS - VARIABLE SPEED
7/24/2021	PFO	20.58	404.8	BUNKER FLOW PROBLEMS
7/25/2021	PFO	5.42	0.0	INDUCED DRAFT FAN MOTORS - VARIABLE SPEED
7/27/2021	PFO	6.00	260.0	OTHER COAL FUEL SUPPLY PROBLEMS UP THROUGH BUNKERS
7/27/2021	PFO	2.98	485.1	COAL CRUSHER DRYER HAMMERS
7/28/2021	PFO	5.98	535.1	OTHER COAL FUEL SUPPLY PROBLEMS UP THROUGH BUNKERS

Duke Energy Florida

ACTUAL UNIT EVENT DATA - January - July 2021

Hines Power Block 1

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 1A	1/31/2021	FFO	70.50	163.0	OTHER MISCELLANEOUS BALANCE OF PLANT PROBLEMS
HEP 1A	2/4/2021	FFO	30.37	163.0	SWITCHYARD SYSTEM PROTECTION DEVICES
HEP 1A	2/13/2021	FFO	35.00	163.0	OTHER MISCELLANEOUS BALANCE OF PLANT PROBLEMS
HEP 1A	2/16/2021	FFO	19.33	163.0	GAS TURBINE - FIRE DETECTION AND EXTINGUISHING SYS
HEP 1A	2/22/2021	FFO	35.70	163.0	OTHER EXCITER PROBLEMS
HEP 1A	4/7/2021	PFO	6.00	24.0	GAS TURBINE - HIGH PRESSURE TURBINE BEARINGS
HEP 1A	4/10/2021	PO	1,429.75	163.0	GENERAL GAS TURBINE UNIT INSPECTION
HEP 1A	6/15/2021	FFO	118.10	163.0	OTHER COMBINED CYCLE PROBLEMS
HEP 1A	6/21/2021	FFO	12.28	163.0	CONDENSATE VALVES
HEP 1A	7/7/2021	PFO	4.40	23.0	OTHER TURBINE VALVES
HEP 1A	7/8/2021	FFO	29.25	163.0	GAS TURBINE - FIRE DETECTION AND EXTINGUISHING SYS
HEP 1A	7/15/2021	PPO	9.50	83.0	CIRCULATING WATER PUMPS
HEP 1A	7/27/2021	PPO	1.42	82.9	OTHER GENERATOR CONTROLS AND METERING PROBLEMS
HEP 1A	7/27/2021	PFO	2.50	83.0	SCR NOX OTHER AMMONIA SYSTEM PROBLEMS
HEP 1B	1/31/2021	FFO	22.22	169.0	GAS TURBINE - CONTROLS AND INSTRUMENTS
HEP 1B	2/2/2021	FFO	3.42	169.0	OTHER MISCELLANEOUS CONDENSING SYSTEM PROBLEMS
HEP 1B	2/13/2021	FFO	9.47	169.0	OTHER MISCELLANEOUS BALANCE OF PLANT PROBLEMS
HEP 1B	4/10/2021	PO	1,454.08	169.0	GENERAL GAS TURBINE UNIT INSPECTION
HEP 1B	6/20/2021	FFO	5.30	169.0	OTHER COMBINED CYCLE PROBLEMS
HEP 1B	6/22/2021	FFO	243.35	169.0	GAS TURBINE - LUBE OIL COOLERS
HEP 1B	7/7/2021	PFO	4.40	29.0	OTHER TURBINE VALVES
HEP 1B	7/8/2021	FMO	31.25	169.0	OTHER INTERMEDIATE PRESSURE TURBINE PROBLEMS
HEP 1B	7/15/2021	PPO	9.50	89.0	CIRCULATING WATER PUMPS
HEP 1B	7/27/2021	PPO	1.42	89.0	OTHER GENERATOR CONTROLS AND METERING PROBLEMS
HEP 1B	7/27/2021	PFO	2.50	89.0	SCR NOX OTHER AMMONIA SYSTEM PROBLEMS
HEP ST1	1/31/2021	FFO	46.38	158.0	GAS TURBINE - CONTROLS AND INSTRUMENTS
HEP ST1	2/12/2021	FFO	6.47	158.0	EMERGENCY GENERATOR TRIP DEVICES
HEP ST1	2/13/2021	FFO	11.67	158.0	GENERATOR SYNCHRONIZATION EQUIPMENT
HEP ST1	2/16/2021	PFO	19.33	78.0	GAS TURBINE - FIRE DETECTION AND EXTINGUISHING SYS
HEP ST1	4/10/2021	PO	1,436.08	158.0	GENERAL GAS TURBINE UNIT INSPECTION
HEP ST1	6/15/2021	FFO	71.28	158.0	OTHER GENERATOR CONTROLS AND METERING PROBLEMS
HEP ST1	7/7/2021	PFO	4.40	14.0	OTHER TURBINE VALVES
HEP ST1	7/8/2021	FMO	26.63	158.0	OTHER INTERMEDIATE PRESSURE TURBINE PROBLEMS
HEP ST1	7/15/2021	PPO	9.50	55.0	CIRCULATING WATER PUMPS
HEP ST1	7/27/2021	PPO	1.42	55.0	OTHER GENERATOR CONTROLS AND METERING PROBLEMS
HEP ST1	7/27/2021	PFO	2.50	55.0	SCR NOX OTHER AMMONIA SYSTEM PROBLEMS

Duke Energy Florida

ACTUAL UNIT EVENT DATA - January - July 2021

Hines Power Block 2

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 2A	5/20/2021	FFO	0.50	172.0	OTHER MISCELLANEOUS CONDENSATE SYSTEM PROBLEMS
HEP 2A	7/3/2021	FFO	5.80	172.0	GAS TURBINE - FIRE DETECTION AND EXTINGUISHING SYS
HEP 2B	5/24/2021	FFO	7.50	175.0	GAS TURBINE - IGNITION SYSTEM
HEP ST2	5/24/2021	PFO	7.50	94.4	GAS TURBINE - IGNITION SYSTEM

Duke Energy Florida

ACTUAL UNIT EVENT DATA - January - July 2021

Hines Power Block 3

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 3A	1/10/2021	FFO	14.50	173.3	FEEDWATER PUMP
HEP 3A	1/25/2021	FFO	0.55	173.3	BLADE PATH TEMPERATURE SPREAD
HEP 3A	1/25/2021	FFO	44.48	173.3	BLADE PATH TEMPERATURE SPREAD
HEP 3A	2/13/2021	PO	2,890.00	173.3	GENERAL GAS TURBINE UNIT INSPECTION
HEP 3A	6/13/2021	PO	24.20	173.3	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
HEP 3A	6/19/2021	PO	3.13	173.3	GENERATOR VOLTAGE CONTROL
HEP 3A	6/20/2021	FFO	128.85	173.3	TURBINE TURNING GEAR AND MOTOR
HEP 3B	2/13/2021	PO	2,849.42	173.3	GENERAL GAS TURBINE UNIT INSPECTION
HEP 3B	6/19/2021	PO	3.13	173.3	GENERATOR VOLTAGE CONTROL
HEP 3B	6/20/2021	FFO	138.18	173.3	TURBINE TURNING GEAR AND MOTOR
HEP ST3	2/13/2021	PO	2,861.75	169.3	INSPECTION
HEP ST3	6/19/2021	PO	3.47	169.3	GENERATOR VOLTAGE CONTROL
HEP ST3	6/20/2021	FFO	133.83	169.3	TURBINE TURNING GEAR AND MOTOR

Duke Energy Florida

ACTUAL UNIT EVENT DATA - January - July 2021

Hines Power Block 4

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 4A	4/11/2021	FFO	22.92	175.0	PROTECTION DEVICES
HEP 4A	4/20/2021	FFO	34.68	175.0	MAIN TRANSFORMER
HEP 4A	6/12/2021	PPO	7.50	72.6	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4B	4/7/2021	FFO	36.15	175.0	OTHER GAS TURBINE FUEL SYSTEM PROBLEMS
HEP 4B	6/12/2021	PPO	7.50	72.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST4	4/11/2021	PFO	22.92	75.0	PROTECTION DEVICES
HEP ST4	6/12/2021	PPO	7.50	29.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS