



Stephanie A. Cuello
SENIOR COUNSEL

January 28, 2022

VIA ELECTRONIC FILING

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

Re: *Fuel and Purchased Power Clause with Generating Performance Incentive
Factor; Performance Data Report for December 2021; Docket No. 20220001-EI*

Dear Mr. Teitzman:

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

Thank you for your assistance in this matter and if you have any questions, please feel free to contact me at (850) 521-1425.

Sincerely,

s/ Stephanie A. Cuello

Stephanie A. Cuello

SAC/mw
Attachment

CERTIFICATE OF SERVICE

Docket No. 20220001-EI

I HEREBY CERTIFY that a true and correct copy of the foregoing has been furnished via electronic mail to the following this 28th day of January, 2022.

s/ Stephanie A. Cuello

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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-Dec Period
1. EAF	76.62	75.31	82.47	85.28	79.43	75.76	67.86	62.46	76.15	72.59	65.12	85.85	75.41
2. PH	744.0	672.0	743.0	720.0	744.0	720.0	744.0	744.0	720.0	744.0	721.0	744.0	8,760.0
3. SH	491.2	468.1	606.8	613.7	593.6	548.1	507.6	466.9	550.4	524.3	348.7	559.7	6,279.1
4. RSH	80.7	40.0	8.7	0.7	0.0	0.0	0.0	0.2	0.6	17.8	120.8	79.1	348.4
5. UH	172.1	164.0	127.5	105.7	150.4	171.9	236.4	277.0	169.0	201.9	251.5	105.2	2,132.5
6. POH	0.0	0.0	0.0	57.1	2.9	46.5	120.0	120.0	53.7	80.7	218.9	32.7	732.4
7. FOH	172.1	115.3	127.5	48.6	147.5	112.7	116.4	157.0	115.4	117.6	32.6	4.2	1,266.7
8. MOH	0.0	48.7	0.0	0.0	0.0	12.7	0.0	0.0	0.0	3.7	0.0	68.4	133.4
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	165.7	223.6	247.2	28.3	238.6	239.6	247.6	211.8	237.8	176.8	0.0	0.0	2,017.1
12. LR PF (MW)	13.0	10.2	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	0.0	0.0	12.7
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)	1,169.00	1,169.00	1,169.00	1,169.00	1,169.00	1,169.00	1,169.00	1,169.00	1,169.00	1,169.00	1,169.00	1,169.00	1,169.00
16. OPER MBTU	3,009,590	3,248,580	4,027,760	4,164,210	3,801,770	3,423,480	2,777,720	2,714,880	3,397,700	3,696,470	3,002,750	3,305,100	40,570,010
17. NET GEN (MWH)	371,666	405,079	545,492	567,154	509,059	459,979	370,554	346,447	458,292	462,668	302,897	445,176	5,244,463
18. ANOHR (BTU/KWH)	8,097.6	8,019.6	7,383.7	7,342.3	7,468.2	7,442.7	7,496.1	7,836.4	7,413.8	7,989.5	9,913.4	7,424.3	7,735.8
19. NOF %	64.72	74.03	76.90	79.06	73.36	71.79	62.44	63.48	71.23	75.49	74.30	68.04	71.45
20. NPC (MW)	1,169.00	1,169.00	1,169.00	1,169.00	1,169.00	1,169.00	1,169.00	1,169.00	1,169.00	1,169.00	1,169.00	1,169.00	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-Dec Period
1. EAF	0.00	0.00	13.64	95.58	85.86	77.24	67.12	99.86	92.61	86.53	97.22	100.00	68.29
2. PH	744.0	672.0	743.0	720.0	744.0	720.0	744.0	744.0	720.0	744.0	721.0	744.0	8,760.0
3. SH	0.0	0.0	137.6	713.3	654.5	675.6	633.3	744.0	674.9	656.9	530.9	158.8	5,579.8
4. RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	190.1	585.2	775.3
5. UH	744.0	672.0	605.4	6.7	89.5	44.4	110.7	0.0	45.1	87.1	0.0	0.0	2,404.9
6. POH	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
7. FOH	744.0	672.0	605.4	6.7	20.7	41.6	21.7	0.0	45.1	0.0	0.0	0.0	2,157.2
8. MOH	0.0	0.0	0.0	0.0	68.8	2.8	89.0	0.0	0.0	87.1	0.0	0.0	247.7
9. PPOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.0	0.00	0.00	14.0
10. LR PP (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	93.0	0.0	0.0	93.0
11. PFOH	0.0	0.0	72.9	91.6	86.2	235.6	287.5	7.9	47.0	84.5	22.0	0.0	935.2
12. LR PF (MW)	0.0	0.0	353.7	182.8	129.4	309.0	331.6	93.0	122.4	95.2	437.0	0.0	263.0
13. PMOH	0.0	0.0	0.0	12.6	0.0	37.6	0.0	0.0	0.0	0.0	50.0	0.0	100.2
14. LR PM (MW)	0.0	0.0	0.0	92.8	0.0	326.8	0.0	0.0	0.0	0.0	93.0	0.0	180.7
15. NSC (MW)	712.00	712.00	712.00	712.00	712.00	712.00	712.00	712.00	712.00	712.00	712.00	712.00	712.00
16. OPER MBTU	0	0	529,940	3,452,550	3,288,630	3,358,340	2,976,900	4,074,820	2,093,530	1,920,180	1,350,320	702,630	23,747,840
17. NET GEN (MWH)	0	0	41,724	335,824	319,517	320,470	281,351	397,073	163,964	150,076	106,408	62,844	2,179,251
18. ANOHR (BTU/KWH)	0.0	0.0	12,701.1	10,280.8	10,292.5	10,479.4	10,580.7	10,262.1	12,768.2	12,794.7	12,690.0	11,180.5	10,897.2
19. NOF %	0.00	0.00	42.59	66.12	68.57	66.62	62.40	74.96	34.12	32.09	28.15	55.57	54.85
20. NPC (MW)	712.00	712.00	712.00	712.00	712.00	712.00	712.00	712.00	712.00	712.00	712.00	712.00	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-Dec Period
1. EAF	94.97	93.80	98.56	87.06	94.17	80.00	93.15	88.07	99.48	99.38	19.97	37.52	82.19
2. PH	744.0	672.0	743.0	720.0	744.0	720.0	744.0	744.0	720.0	744.0	721.0	744.0	8,760.0
3. SH	615.0	664.0	743.0	654.0	703.7	590.5	744.0	673.3	551.1	607.9	0.0	98.5	6,645.0
4. RSH	105.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	168.9	136.1	144.0	201.7	755.7
5. UH	24.0	8.0	0.0	66.0	40.3	129.5	0.0	70.7	0.0	0.0	577.0	443.8	1,359.3
6. POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	577.0	443.8	1,020.8
7. FOH	24.0	8.0	0.0	66.0	40.3	129.5	0.0	4.2	0.0	0.0	0.0	0.0	272.0
8. MOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66.5	0.0	0.0	0.0	0.0	66.5
9. PPOH	0.0	31.7	0.0	0.0	0.0	3.7	0.0	0.0	0.0	8.0	0.00	0.00	43.4
10. LR PP (MW)	0.0	298.2	0.0	0.0	0.0	90.9	0.0	0.0	0.0	410.0	0.0	0.0	301.3
11. PFOH	33.8	61.6	24.9	91.7	12.9	77.4	201.3	52.3	12.5	0.0	0.0	53.0	621.3
12. LR PF (MW)	281.9	216.4	306.0	153.3	168.0	129.0	179.8	244.2	213.2	0.0	0.0	282.0	198.3
13. PMOH	0.0	11.0	0.0	18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.0
14. LR PM (MW)	0.0	101.8	0.0	290.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	218.6
15. NSC (MW)	710.00	710.00	710.00	710.00	710.00	710.00	710.00	710.00	710.00	710.00	710.00	710.00	710.00
16. OPER MBTU	2,554,180	3,923,300	3,466,340	2,929,150	3,368,810	3,285,230	3,835,560	3,467,060	1,638,820	1,731,960	0	240,900	30,441,310
17. NET GEN (MWH)	243,139	409,436	341,957	268,825	321,255	312,461	360,468	327,290	128,103	130,993	0	19,125	2,863,052
18. ANOHR (BTU/KWH)	10,505.0	9,582.2	10,136.8	10,896.1	10,486.4	10,514.0	10,640.5	10,593.2	12,793.0	13,221.8	0.0	12,596.1	10,632.5
19. NOF %	55.68	86.85	64.82	57.89	64.30	74.53	68.24	68.47	32.74	30.35	0.00	27.34	60.68
20. NPC (MW)	710.00	710.00	710.00	710.00	710.00	710.00	710.00	710.00	710.00	710.00	710.00	710.00	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-Dec Period
1. EAF	98.70	86.94	100.00	33.17	0.00	51.25	93.61	89.82	94.25	100.00	98.24	100.00	78.87
2. PH	744.0	672.0	743.0	720.0	744.0	720.0	744.0	744.0	720.0	744.0	721.0	744.0	8,760.0
3. SH	734.3	515.0	743.0	238.9	0.0	346.3	695.6	668.0	679.8	737.3	668.6	744.0	6,771.0
4. RSH	0.0	70.2	0.0	0.0	0.0	22.7	3.1	10.7	4.4	6.7	41.4	0.0	159.1
5. UH	9.7	86.7	0.0	481.1	744.0	351.0	45.3	65.3	35.7	0.0	11.0	0.0	1,829.9
6. POH	0.0	0.0	0.0	481.1	744.0	215.1	0.0	0.0	0.0	0.0	0.0	0.0	1,440.2
7. FOH	9.7	86.7	0.0	0.0	0.0	135.9	25.9	65.3	35.7	0.0	11.0	0.0	370.3
8. MOH	0.0	0.0	0.0	0.0	0.0	0.0	19.4	0.0	0.0	0.0	0.0	0.0	19.4
9. PPOH	0.0	0.0	0.0	0.0	0.0	0.0	10.9	0.0	0.0	0.0	0.0	0.0	10.9
10. LR PP (MW)	0.0	0.0	0.0	0.0	0.0	0.0	75.7	0.0	0.0	0.0	0.0	0.0	75.7
11. PFOH	0.0	6.2	0.0	2.0	0.0	0.0	6.9	61.5	33.4	0.0	10.3	0.0	120.3
12. LR PF (MW)	0.0	78.0	0.0	23.9	0.0	0.0	41.4	83.0	82.9	0.0	78.0	0.0	79.0
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)	490.00	490.00	490.00	490.00	490.00	490.00	490.00	490.00	490.00	490.00	490.00	490.00	490.00
16. OPER MBTU	2,447,180	1,470,070	2,348,430	716,040	0	943,010	2,042,930	1,953,750	1,969,470	2,160,730	1,898,220	2,089,710	20,039,540
17. NET GEN (MWH)	337,478	194,896	325,063	102,549	0	124,781	276,192	264,272	269,773	305,359	257,694	282,863	2,740,920
18. ANOHR (BTU/KWH)	7,251.4	7,542.8	7,224.5	6,982.4	0.0	7,557.3	7,396.8	7,393.0	7,300.5	7,076.0	7,366.2	7,387.7	7,311.2
19. NOF %	93.79	77.23	89.29	87.60	0.00	73.53	81.03	80.73	80.99	84.52	78.66	77.59	82.61
20. NPC (MW)	490.00	490.00	490.00	490.00	490.00	490.00	490.00	490.00	490.00	490.00	490.00	490.00	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-Dec Period
1. EAF	100.00	100.00	100.00	100.00	99.58	100.00	99.74	100.00	95.60	99.38	86.14	69.93	95.83
2. PH	744.0	672.0	743.0	720.0	744.0	720.0	744.0	744.0	720.0	744.0	721.0	744.0	8,760.0
3. SH	608.0	621.6	537.5	697.4	725.0	720.0	735.2	744.0	685.3	734.4	606.4	491.7	7,906.6
4. RSH	136.0	50.4	205.5	22.6	16.3	0.0	6.9	0.0	3.1	6.5	14.8	28.6	490.6
5. UH	0.0	0.0	0.0	0.0	2.7	0.0	1.9	0.0	31.7	3.1	99.8	223.7	362.8
6. POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.8	223.7	323.5
7. FOH	0.0	0.0	0.0	0.0	2.7	0.0	1.9	0.0	0.0	3.1	0.0	0.0	7.7
8. MOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.7	0.0	0.0	0.0	31.7
9. PPOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	1.7
10. LR PP (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	49.1	0.0	49.1
11. PFOH	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0	13.5	0.0	0.0	16.0
12. LR PF (MW)	0.0	0.0	0.0	0.0	94.4	0.0	0.0	0.0	0.0	57.6	0.0	0.0	63.4
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)	524.00	524.00	524.00	524.00	524.00	524.00	524.00	524.00	524.00	524.00	524.00	524.00	524.00
16. OPER MBTU	1,766,010	1,898,050	1,653,660	2,288,660	2,302,280	2,413,160	2,373,440	2,452,090	2,201,090	2,319,550	1,869,390	1,466,380	25,003,760
17. NET GEN (MWH)	235,715	249,585	220,637	313,833	313,341	321,959	316,304	327,132	293,801	318,746	248,008	195,373	3,354,434
18. ANOHR (BTU/KWH)	7,492.1	7,604.8	7,494.9	7,292.6	7,347.5	7,495.2	7,503.7	7,495.7	7,491.8	7,277.1	7,537.6	7,505.5	7,453.9
19. NOF %	73.98	76.62	78.33	85.88	82.48	85.34	82.11	83.91	81.82	82.83	78.05	75.83	80.97
20. NPC (MW)	524.00	524.00	524.00	524.00	524.00	524.00	524.00	524.00	524.00	524.00	524.00	524.00	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-Dec Period
1. EAF	97.33	42.86	0.00	0.00	0.00	41.53	100.00	100.00	93.99	99.23	100.00	100.00	64.83
2. PH	744.0	672.0	743.0	720.0	744.0	720.0	744.0	744.0	720.0	744.0	721.0	744.0	8,760.0
3. SH	360.5	68.6	0.0	0.0	0.0	299.0	744.0	744.0	670.5	705.3	677.6	744.0	5,013.5
4. RSH	363.6	219.4	0.0	0.0	0.0	0.0	0.0	0.0	9.5	33.9	43.4	0.0	669.8
5. UH	19.9	384.0	743.0	720.0	744.0	421.0	0.0	0.0	40.0	4.8	0.0	0.0	3,076.7
6. POH	0.0	384.0	743.0	720.0	744.0	287.4	0.0	0.0	0.0	0.0	0.0	0.0	2,878.4
7. FOH	19.9	0.0	0.0	0.0	0.0	133.6	0.0	0.0	26.3	4.8	0.0	0.0	184.6
8. MOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.8	0.0	0.0	0.0	13.8
9. PPOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0
10. LR PP (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.3	0.0	0.0	80.3
11. PFOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.5	4.7	0.0	0.0	24.2
12. LR PF (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	86.3	86.6	0.0	0.0	86.4
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)	521.00	521.00	521.00	521.00	521.00	521.00	521.00	521.00	521.00	521.00	521.00	521.00	521.00
16. OPER MBTU	942,250	191,430	0	0	0	919,460	2,347,470	2,400,960	2,109,940	2,127,730	1,985,750	2,233,840	15,258,830
17. NET GEN (MWH)	132,532	25,683	0	0	0	124,414	327,307	335,536	294,577	304,750	273,820	311,458	2,130,077
18. ANOHR (BTU/KWH)	7,109.6	7,453.6	0.0	0.0	0.0	7,390.3	7,172.1	7,155.6	7,162.6	6,981.9	7,252.0	7,172.2	7,163.5
19. NOF %	70.56	71.82	0.00	0.00	0.00	79.86	84.44	86.56	84.33	82.94	77.56	80.35	81.55
20. NPC (MW)	521.00	521.00	521.00	521.00	521.00	521.00	521.00	521.00	521.00	521.00	521.00	521.00	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-Dec Period
1. EAF	100.00	100.00	100.00	95.55	100.00	99.88	100.00	95.56	85.37	70.96	54.56	100.00	91.84
2. PH	744.0	672.0	743.0	720.0	744.0	720.0	744.0	744.0	720.0	744.0	721.0	744.0	8,760.0
3. SH	247.5	657.2	730.9	645.0	734.5	720.0	744.0	712.5	614.7	528.1	348.3	717.2	7,399.8
4. RSH	496.5	14.8	12.1	44.1	9.5	0.0	0.0	0.0	0.0	0.0	45.0	26.8	648.9
5. UH	0.0	0.0	0.0	30.9	0.0	0.0	0.0	31.5	105.3	215.9	327.6	0.0	711.2
6. POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	215.9	327.6	0.0	543.5
7. FOH	0.0	0.0	0.0	30.9	0.0	0.0	0.0	31.5	105.3	0.0	0.1	0.0	167.7
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	7.5	0.0	7.5	0.0	1.3	0.0	0.0	16.3
10. LR PP (MW)	0.0	0.0	0.0	0.0	0.0	57.9	0.0	58.4	0.0	58.0	0.0	0.0	58.1
11. PFOH	0.0	0.0	0.0	7.7	0.0	0.0	0.0	4.2	0.0	0.0	0.0	0.0	11.9
12. LR PF (MW)	0.0	0.0	0.0	79.6	0.0	0.0	0.0	85.9	0.0	0.0	0.0	0.0	81.8
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)	519.00	519.00	519.00	519.00	519.00	519.00	519.00	519.00	519.00	519.00	519.00	519.00	519.00
16. OPER MBTU	667,790	2,091,980	2,329,870	1,987,870	2,317,060	2,376,670	2,383,620	2,303,390	1,955,770	1,642,590	1,085,780	2,132,920	23,275,310
17. NET GEN (MWH)	96,627	297,969	331,999	285,888	329,922	332,462	331,674	322,359	273,879	237,098	152,629	299,692	3,292,198
18. ANOHR (BTU/KWH)	6,911.0	7,020.8	7,017.7	6,953.3	7,023.1	7,148.7	7,186.6	7,145.4	7,141.0	6,927.9	7,113.9	7,117.0	7,069.8
19. NOF %	75.24	87.36	87.53	85.40	86.55	88.97	85.90	87.17	85.85	86.51	84.42	80.51	85.72
20. NPC (MW)	519.00	519.00	519.00	519.00	519.00	519.00	519.00	519.00	519.00	519.00	519.00	519.00	519.00

Duke Energy Florida

ACTUAL UNIT EVENT DATA - January - December 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 4A	8/13/2021	FFO	7.03	185.0	LIGHTNING
BCC 4A	8/13/2021	FFO	6.33	185.0	SWITCHYARD SYSTEM PROTECTION DEVICES
BCC 4A	10/30/2021	PO	257.40	185.0	BOROSCOPE INSPECTION
BCC 4A	11/10/2021	FFO	4.82	185.0	DC PROTECTION DEVICES
BCC 4A	11/24/2021	FFO	15.75	185.0	FUEL PIPING & VALVES
BCC 4A	11/26/2021	FFO	12.93	185.0	STARTING SYSTEM (INCLUDING MOTOR)
BCC 4A	11/27/2021	FFO	17.57	185.0	OTHER BOILER INSTRUMENTATION AND CONTROL PROBLEMS
BCC 4A	11/28/2021	FFO	0.52	185.0	OTHER BOILER INSTRUMENTATION AND CONTROL PROBLEMS
BCC 4A	11/28/2021	FFO	2.23	185.0	OTHER BOILER INSTRUMENTATION AND CONTROL PROBLEMS
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 4B	8/13/2021	FFO	9.90	183.0	LIGHTNING
BCC 4B	9/10/2021	FFO	3.32	183.0	FUEL PIPING AND VALVES
BCC 4B	9/15/2021	FFO	2.00	183.0	GAGE GLASSES
BCC 4B	10/1/2021	FMO	9.70	183.0	GAS TURBINE COOLING SYSTEM
BCC 4B	12/3/2021	PO	192.42	183.0	FUEL PIPING & VALVES
BCC 4B	12/20/2021	FFO	24.58	183.0	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
BCC 4B	12/27/2021	FMO	120.00	183.0	OTHER GAS TURBINE FUEL SYSTEM PROBLEMS
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	4,525.20	187.0	GENERATOR ROTOR WINDINGS
BCC 4C	11/10/2021	FFO	10.00	187.0	GAS FUEL SYSTEM INCLUDING CONTROLS AND INSTRUMENTATION
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	2,109.33	186.0	GENERATOR ROTOR WINDINGS
BCC 4D	10/4/2021	FMO	12.50	186.0	GAS TURBINE COOLING SYSTEM
BCC 4D	10/5/2021	FFO	7.13	186.0	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
BCC 4D	11/21/2021	FFO	3.05	186.0	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
BCC 4D	12/10/2021	FMO	297.43	186.0	FUEL PIPING & VALVES
BCC 4S	1/5/2021	FFO	113.47	339.0	TURBINE - MISCELLANEOUS TURBINE PIPING

Duke Energy Florida

ACTUAL UNIT EVENT DATA - January - December 2021

Bartow CC

Unit	Date	Outage Type	Hours	MW Affected	Description
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	2,485.60	13.0	GENERATOR ROTOR WINDINGS
BCC 4S	8/13/2021	FFO	107.48	339.0	LIGHTNING
BCC 4S	8/18/2021	PFO	568.42	13.0	GENERATOR ROTOR WINDINGS
BCC 4S	9/10/2021	FFO	5.32	339.0	GAGE GLASSES
BCC 4S	9/11/2021	PFO	1,009.60	13.0	GENERATOR ROTOR WINDINGS
BCC 4S	10/23/2021	PO	749.53	339.0	INSPECTION

Duke Energy Florida

ACTUAL UNIT EVENT DATA - January - December 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	127.2	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	94.9	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 - December 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
8/9/2021	PFO	7.92	93.0	OTHER BOILER CONTROL AND INSTRUMENTATION PROBLEMS
9/10/2021	FFO	19.28	712.0	TRANSMISSION SYSTEM PROBLEM OTHER THAN CATASTROPHE
9/10/2021	FFO	3.40	712.0	TRANSMISSION SYSTEM PROBLEM OTHER THAN CATASTROPHE
9/11/2021	FFO	1.27	712.0	TRANSMISSION SYSTEM PROBLEM OTHER THAN CATASTROPHE
9/15/2021	PFO	3.00	102.0	COMBUSTION/STEAM CONDITION CONTROLS
9/16/2021	FFO	21.17	712.0	OTHER SAFETY PROBLEMS
9/28/2021	PFO	5.00	22.0	FEEDWATER CONTROLS
9/29/2021	PFO	31.00	93.0	PULVERIZER FEEDER COAL SCALES
9/30/2021	PFO	8.00	307.0	OTHER FEEDWATER PUMP PROBLEMS
10/1/2021	PPO	14.00	93.0	OTHER FEEDWATER PUMP PROBLEMS
10/7/2021	PFO	4.00	112.0	PRIMARY AIR FAN
10/13/2021	PFO	2.00	92.0	PULVERIZER FEEDERS
10/14/2021	PFO	6.00	112.0	PULVERIZER FEEDERS
10/15/2021	PFO	72.50	93.0	PRIMARY AIR FLOW INSTRUMENTATION
10/17/2021	FMO	87.07	712.0	AIR HEATER (REGENERATIVE)
11/9/2021	PFO	22.00	437.0	FEEDWATER PUMP DRIVE – LOCAL CONTROLS
11/16/2021	PMO	50.00	93.0	COOLING TOWER BOOSTER MOTOR

Duke Energy Florida

ACTUAL UNIT EVENT DATA - January - December 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	25.7	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	415.2	MISCELLANEOUS REGULATORY
2/25/2021	PPO	12.98	415.1	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	567.7	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 - December 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	90.9	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	404.9	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	485.6	COAL CRUSHER DRYER HAMMERS
7/28/2021	PFO	5.98	535.3	OTHER COAL FUEL SUPPLY PROBLEMS UP THROUGH BUNKERS
8/8/2021	PFO	5.67	100.9	AIR SUPPLY DAMPERS
8/8/2021	FFO	4.22	710.0	OTHER MISCELLANEOUS BOILER AIR AND GAS SYSTEM PROBLEMS
8/13/2021	FMO	66.52	710.0	AIR HEATER SOOT BLOWER
8/16/2021	PFO	20.88	472.1	DESUPERHEATER/ATTEMPERATOR VALVES
8/17/2021	PFO	4.75	91.0	HEATER DRAIN PUMPS
8/27/2021	PFO	10.00	91.0	HEATER DRAIN PUMPS
8/30/2021	PFO	11.00	91.0	HEATER DRAIN PUMPS
9/3/2021	PFO	4.50	91.0	PULVERIZER FEEDERS
9/21/2021	PFO	8.00	282.0	PULVERIZER FEEDERS

Duke Energy Florida

ACTUAL UNIT EVENT DATA - January - December 2021

Crystal River 5

Date	Outage Type	Hours	MW Affected	Description
10/26/2021	PPO	8.00	410.0	PULVERIZER MILLS
11/7/2021	PO	1,020.82	710.0	MAJOR BOILER OVERHAUL
12/21/2021	PFO	53.00	282.0	CONDENSATE/HOTWELL PUMP MOTOR

Duke Energy Florida

ACTUAL UNIT EVENT DATA - January - December 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	82.8	OTHER GENERATOR CONTROLS AND METERING PROBLEMS
HEP 1A	7/27/2021	PFO	2.50	83.0	SCR NOX OTHER AMMONIA SYSTEM PROBLEMS
HEP 1A	8/4/2021	FFO	7.33	163.0	FEEDWATER PUMP DRIVE - MOTOR
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 1B	8/19/2021	FFO	25.93	169.0	GAS TURBINE - COOLING AND SEAL AIR SYSTEM
HEP 1B	8/21/2021	FFO	156.32	169.0	GAS TURBINE - FUEL PIPING AND VALVES
HEP 1B	9/2/2021	FFO	92.33	169.0	HP SUPERHEATER LEAK
HEP 1B	9/25/2021	FFO	11.32	169.0	FEEDWATER PUMP
HEP 1B	11/18/2021	FFO	32.00	169.0	GENERATOR CURRENT AND POTENTIAL TRANSFORMERS
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

Duke Energy Florida

ACTUAL UNIT EVENT DATA - January - December 2021

Hines Power Block 1

Unit	Date	Outage Type	Hours	MW Affected	Description
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
HEP ST1	8/4/2021	PFO	7.33	83.0	FEEDWATER PUMP
HEP ST1	8/19/2021	PFO	25.93	83.0	GAS TURBINE - COOLING AND SEAL AIR SYSTEM
HEP ST1	8/21/2021	PFO	157.32	83.0	GAS TURBINE - FUEL PIPING AND VALVES
HEP ST1	9/2/2021	PFO	92.33	83.0	HP STEAM PIPING UP TO TURBINE STOP VALVES
HEP ST1	9/25/2021	PFO	11.32	82.0	FEEDWATER PUMP DRIVE - MOTOR
HEP ST1	11/18/2021	PFO	32.00	78.0	GENERATOR CURRENT AND POTENTIAL TRANSFORMERS

Duke Energy Florida

ACTUAL UNIT EVENT DATA - January - December 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 2A	10/3/2021	FFO	9.50	172.0	NOX STEAM INJECTION SYSTEM
HEP 2A	10/4/2021	PFO	10.25	47.0	GAS FUEL SYSTEM INCLUDING INSTRUMENTS & CONTROLS
HEP 2A	11/19/2021	PPO	1.50	62.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 2A	11/26/2021	PO	303.87	172.0	GENERAL GAS TURBINE UNIT INSPECTION
HEP 2B	5/24/2021	FFO	7.50	175.0	GAS TURBINE - IGNITION SYSTEM
HEP 2B	9/14/2021	FMO	94.80	175.0	OTHER MAIN STEAM VALVES
HEP 2B	10/4/2021	PFO	10.25	50.0	GAS FUEL SYSTEM INCLUDING INSTRUMENTS & CONTROLS
HEP 2B	11/20/2021	PPO	1.00	65.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 2B	11/26/2021	PO	356.07	175.0	GENERAL GAS TURBINE UNIT INSPECTION
HEP ST2	5/24/2021	PFO	7.50	94.4	GAS TURBINE - IGNITION SYSTEM
HEP ST2	10/3/2021	PFO	9.50	94.0	NOX STEAM INJECTION SYSTEM
HEP ST2	10/4/2021	PFO	10.25	42.0	GAS FUEL SYSTEM INCLUDING INSTRUMENTS & CONTROLS
HEP ST2	11/19/2021	PPO	2.50	35.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST2	11/26/2021	PO	310.28	177.0	GENERAL GAS TURBINE UNIT INSPECTION

Duke Energy Florida

ACTUAL UNIT EVENT DATA - January - December 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 3A	9/12/2021	FFO	16.15	173.3	HP EXTRACTION STEAM VALVES
HEP 3A	9/18/2021	FMO	41.20	173.3	VANES/NOZZLES
HEP 3A	9/22/2021	FFO	1.30	173.3	CONTRACTOR ERROR
HEP 3A	10/14/2021	PPO	1.00	91.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
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 3B	9/28/2021	FFO	59.00	173.3	FUEL PIPING AND VALVES
HEP 3B	10/1/2021	FFO	10.98	173.3	FUEL PIPING AND VALVES
HEP 3B	10/10/2021	FFO	3.35	173.3	OTHER FEEDWATER SYSTEM PROBLEMS
HEP 3B	10/14/2021	PPO	1.00	90.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
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
HEP ST3	9/12/2021	FFO	1.88	169.3	VIBRATION OF TURBINE/GENERATOR
HEP ST3	9/28/2021	PFO	59.00	86.3	FUEL PIPING AND VALVES
HEP ST3	10/1/2021	PFO	10.98	86.3	FUEL PIPING AND VALVES
HEP ST3	10/10/2021	PFO	3.35	87.3	OTHER FEEDWATER SYSTEM PROBLEMS
HEP ST3	10/14/2021	PPO	1.00	59.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS

Duke Energy Florida

ACTUAL UNIT EVENT DATA - January - December 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 4A	8/1/2021	PPO	6.00	74.6	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4A	8/2/2021	PPO	1.50	70.6	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4A	8/29/2021	FFO	22.18	175.0	STEAM TURBINE CONTROL SYSTEM - HARDWARE PROBLEMS
HEP 4A	8/30/2021	FFO	19.05	175.0	FEEDWATER REGULATING (BOILER LEVEL CONTROL) VALVE
HEP 4A	9/20/2021	FFO	92.55	175.0	OTHER MISCELLANEOUS BALANCE OF PLANT PROBLEMS
HEP 4A	9/24/2021	FFO	16.62	175.0	IP STARTUP BYPASS SYSTEM VALVES
HEP 4A	10/13/2021	PPO	1.33	71.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4A	10/22/2021	PO	519.97	175.0	GENERAL UNIT INSPECTION
HEP 4A	11/19/2021	FFO	0.17	175.0	GENERATOR OUTPUT BREAKER
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 4B	8/1/2021	PPO	6.00	74.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4B	8/2/2021	PPO	1.50	70.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4B	8/29/2021	FFO	26.17	175.0	STEAM TURBINE CONTROL SYSTEM - HARDWARE PROBLEMS
HEP 4B	9/20/2021	FFO	101.30	175.0	OTHER MISCELLANEOUS BALANCE OF PLANT PROBLEMS
HEP 4B	10/13/2021	PPO	1.33	72.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4B	10/23/2021	PO	591.80	175.0	GENERAL UNIT INSPECTION
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
HEP ST4	8/1/2021	PPO	6.00	28.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST4	8/2/2021	PPO	1.50	29.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST4	8/29/2021	FFO	21.73	165.0	STEAM TURBINE CONTROL SYSTEM - HARDWARE PROBLEMS
HEP ST4	8/30/2021	FFO	5.57	165.0	FEEDWATER REGULATING (BOILER LEVEL CONTROL) VALVE
HEP ST4	8/30/2021	PFO	12.50	81.0	OTHER MISC. OPERATIONAL ENVIRONMENTAL LIMITS - GAS
HEP ST4	9/20/2021	FFO	105.57	165.0	EMERGENCY GENERATOR TRIP DEVICES
HEP ST4	10/13/2021	PPO	1.33	31.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST4	10/23/2021	PO	519.08	165.0	GENERAL UNIT INSPECTION