



Matthew R. Bernier
ASSOCIATE GENERAL COUNSEL

November 30, 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 October 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 October 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 30th day of November, 2021.

s/ Matthew R. Bernier

Attorney

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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-Oct Period
1. EAF	76.62	75.31	82.47	85.28	79.43	75.76	67.86	62.46	76.15	72.59	0.00	0.00	75.36
2. PH	744.0	672.0	743.0	720.0	744.0	720.0	744.0	744.0	720.0	744.0	0.00	0.00	7,295.0
3. SH	491.2	468.1	606.8	613.7	593.6	548.1	507.6	466.9	550.4	524.3	0.00	0.00	5,370.7
4. RSH	80.7	40.0	8.7	0.7	0.0	0.0	0.0	0.2	0.6	17.8	0.00	0.00	148.5
5. UH	172.1	164.0	127.5	105.7	150.4	171.9	236.4	277.0	169.0	201.9	0.00	0.00	1,775.8
6. POH	0.0	0.0	0.0	57.1	2.9	46.5	120.0	120.0	53.7	80.7	0.00	0.00	480.8
7. FOH	172.1	115.3	127.5	48.6	147.5	112.7	116.4	157.0	115.4	117.6	0.00	0.00	1,230.0
8. MOH	0.0	48.7	0.0	0.0	0.0	12.7	0.0	0.0	0.0	3.7	0.00	0.00	65.0
9. PPOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0
10. LR PP (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.00	0.00	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	0.00	0.00	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	0.00	0.00	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	0.00	0.00	34,262,160
17. NET GEN (MWH)	371,666	405,079	545,492	567,154	509,059	459,979	370,554	346,447	458,292	462,668	0	0	4,496,390
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	0.00	0.00	7,619.9
19. NOF %	64.72	74.03	76.90	79.06	73.36	71.79	62.44	63.48	71.23	75.49	0.00	0.00	71.62
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	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-Oct Period
1. EAF	0.00	0.00	13.64	95.58	85.86	77.24	67.12	99.86	92.61	86.53	0.00	0.00	62.20
2. PH	744.0	672.0	743.0	720.0	744.0	720.0	744.0	744.0	720.0	744.0	0.00	0.00	7,295.0
3. SH	0.0	0.0	137.6	713.3	654.5	675.6	633.3	744.0	674.9	656.9	0.00	0.00	4,890.1
4. RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0
5. UH	744.0	672.0	605.4	6.7	89.5	44.4	110.7	0.0	45.1	87.1	0.00	0.00	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	0.00	0.00	0.0
7. FOH	744.0	672.0	605.4	6.7	20.7	41.6	21.7	0.0	45.1	0.0	0.00	0.00	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	0.00	0.00	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	0.00	0.00	913.2
12. LR PF (MW)	0.0	0.0	353.7	182.8	129.4	309.0	331.6	93.0	122.4	95.2	0.0	0.0	258.8
13. PMOH	0.0	0.0	0.0	12.6	0.0	37.6	0.0	0.0	0.0	0.0	0.00	0.00	50.2
14. LR PM (MW)	0.0	0.0	0.0	92.8	0.0	326.8	0.0	0.0	0.0	0.0	0.0	0.0	268.2
15. NSC (MW)	712.00	712.00	712.00	712.00	712.00	712.00	712.00	712.00	712.00	712.00	0.00	0.00	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	0.00	0.00	21,694,890
17. NET GEN (MWH)	0	0	41,724	335,824	319,517	320,470	281,351	397,073	163,964	150,076	0	0	2,009,999
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	0.00	0.00	10,793.5
19. NOF %	0.00	0.00	42.59	66.12	68.57	66.62	62.40	74.96	34.12	32.09	0.00	0.00	57.73
20. NPC (MW)	712.00	712.00	712.00	712.00	712.00	712.00	712.00	712.00	712.00	712.00	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-Oct Period
1. EAF	94.97	93.80	98.56	87.06	94.17	80.00	93.15	88.07	99.48	99.38	0.00	0.00	92.89
2. PH	744.0	672.0	743.0	720.0	744.0	720.0	744.0	744.0	720.0	744.0	0.00	0.00	7,295.0
3. SH	615.0	664.0	743.0	654.0	703.7	590.5	744.0	673.3	551.1	607.9	0.00	0.00	6,546.5
4. RSH	105.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	168.9	136.1	0.00	0.00	410.0
5. UH	24.0	8.0	0.0	66.0	40.3	129.5	0.0	70.7	0.0	0.0	0.00	0.00	338.5
6. POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0
7. FOH	24.0	8.0	0.0	66.0	40.3	129.5	0.0	4.2	0.0	0.0	0.00	0.00	272.0
8. MOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66.5	0.0	0.0	0.00	0.00	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	0.00	0.00	568.3
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	0.0	190.5
13. PMOH	0.0	11.0	0.0	18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	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	0.00	0.00	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	0.00	0.00	30,200,410
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	0	2,843,927
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	0.00	0.00	10,619.3
19. NOF %	55.68	86.85	64.82	57.89	64.30	74.53	68.24	68.47	32.74	30.35	0.00	0.00	61.19
20. NPC (MW)	710.00	710.00	710.00	710.00	710.00	710.00	710.00	710.00	710.00	710.00	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-Oct Period
1. EAF	98.70	86.94	100.00	33.17	0.00	51.25	93.61	89.82	94.25	100.00	0.00	0.00	74.80
2. PH	744.0	672.0	743.0	720.0	744.0	720.0	744.0	744.0	720.0	744.0	0.00	0.00	7,295.0
3. SH	734.3	515.0	743.0	238.9	0.0	346.3	695.6	668.0	679.8	737.3	0.00	0.00	5,358.4
4. RSH	0.0	70.2	0.0	0.0	0.0	22.7	3.1	10.7	4.4	6.7	0.00	0.00	117.8
5. UH	9.7	86.7	0.0	481.1	744.0	351.0	45.3	65.3	35.7	0.0	0.00	0.00	1,818.8
6. POH	0.0	0.0	0.0	481.1	744.0	215.1	0.0	0.0	0.0	0.0	0.00	0.00	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	0.00	0.00	359.3
8. MOH	0.0	0.0	0.0	0.0	0.0	0.0	19.4	0.0	0.0	0.0	0.00	0.00	19.4
9. PPOH	0.0	0.0	0.0	0.0	0.0	0.0	10.9	0.0	0.0	0.0	0.00	0.00	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	0.0	0.0	110.0
12. LR PF (MW)	0.0	78.0	0.0	23.9	0.0	0.0	41.4	83.0	82.9	0.0	0.0	0.0	79.1
13. PMOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0
14. LR PM (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.00	0.00	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	0.00	0.00	16,051,610
17. NET GEN (MWH)	337,478	194,896	325,063	102,549	0	124,781	276,192	264,272	269,773	305,359	0	0	2,200,363
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	0.00	0.00	7,295.0
19. NOF %	93.79	77.23	89.29	87.60	0.00	73.53	81.03	80.73	80.99	84.52	0.00	0.00	83.80
20. NPC (MW)	490.00	490.00	490.00	490.00	490.00	490.00	490.00	490.00	490.00	490.00	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-Oct Period
1. EAF	100.00	100.00	100.00	100.00	99.58	100.00	99.74	100.00	95.60	99.38	0.00	0.00	99.43
2. PH	744.0	672.0	743.0	720.0	744.0	720.0	744.0	744.0	720.0	744.0	0.00	0.00	7,295.0
3. SH	608.0	621.6	537.5	697.4	725.0	720.0	735.2	744.0	685.3	734.4	0.00	0.00	6,808.4
4. RSH	136.0	50.4	205.5	22.6	16.3	0.0	6.9	0.0	3.1	6.5	0.00	0.00	447.2
5. UH	0.0	0.0	0.0	0.0	2.7	0.0	1.9	0.0	31.7	3.1	0.00	0.00	39.4
6. POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0
7. FOH	0.0	0.0	0.0	0.0	2.7	0.0	1.9	0.0	0.0	3.1	0.00	0.00	7.7
8. MOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.7	0.0	0.00	0.00	31.7
9. PPOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0
10. LR PP (MW)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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	0.00	0.00	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	0.00	0.00	21,667,990
17. NET GEN (MWH)	235,715	249,585	220,637	313,833	313,341	321,959	316,304	327,132	293,801	318,746	0	0	2,911,053
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	0.00	0.00	7,443.4
19. NOF %	73.98	76.62	78.33	85.88	82.48	85.34	82.11	83.91	81.82	82.83	0.00	0.00	81.60
20. NPC (MW)	524.00	524.00	524.00	524.00	524.00	524.00	524.00	524.00	524.00	524.00	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-Oct Period
1. EAF	97.33	42.86	0.00	0.00	0.00	41.53	100.00	100.00	93.99	99.23	0.00	0.00	57.77
2. PH	744.0	672.0	743.0	720.0	744.0	720.0	744.0	744.0	720.0	744.0	0.00	0.00	7,295.0
3. SH	360.5	68.6	0.0	0.0	0.0	299.0	744.0	744.0	670.5	705.3	0.00	0.00	3,591.9
4. RSH	363.6	219.4	0.0	0.0	0.0	0.0	0.0	0.0	9.5	33.9	0.00	0.00	626.4
5. UH	19.9	384.0	743.0	720.0	744.0	421.0	0.0	0.0	40.0	4.8	0.00	0.00	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	0.00	0.00	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	0.00	0.00	184.6
8. MOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.8	0.0	0.00	0.00	13.8
9. PPOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.00	0.00	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	0.00	0.00	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	0.00	0.00	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	0.00	0.00	11,039,240
17. NET GEN (MWH)	132,532	25,683	0	0	0	124,414	327,307	335,536	294,577	304,750	0	0	1,544,799
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	0.0	0.0	7,146.1
19. NOF %	70.56	71.82	0.00	0.00	0.00	79.86	84.44	86.56	84.33	82.94	0.00	0.00	82.55
20. NPC (MW)	521.00	521.00	521.00	521.00	521.00	521.00	521.00	521.00	521.00	521.00	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-Oct Period
1. EAF	100.00	100.00	100.00	95.55	100.00	99.88	100.00	95.56	85.37	70.96	0.00	0.00	94.69
2. PH	744.0	672.0	743.0	720.0	744.0	720.0	744.0	744.0	720.0	744.0	0.00	0.00	7,295.0
3. SH	247.5	657.2	730.9	645.0	734.5	720.0	744.0	712.5	614.7	528.1	0.00	0.00	6,334.2
4. RSH	496.5	14.8	12.1	44.1	9.5	0.0	0.0	0.0	0.0	0.0	0.00	0.00	577.1
5. UH	0.0	0.0	0.0	30.9	0.0	0.0	0.0	31.5	105.3	215.9	0.00	0.00	383.6
6. POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	215.9	0.00	0.00	215.9
7. FOH	0.0	0.0	0.0	30.9	0.0	0.0	0.0	31.5	105.3	0.0	0.00	0.00	167.7
8. MOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0
9. PPOH	0.0	0.0	0.0	0.0	0.0	7.5	0.0	7.5	0.0	1.3	0.00	0.00	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	0.00	0.00	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	0.00	0.00	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	0.00	0.00	20,056,610
17. NET GEN (MWH)	96,627	297,969	331,999	285,888	329,922	332,462	331,674	322,359	273,879	237,098	0	0	2,839,877
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	0.0	0.0	7,062.5
19. NOF %	75.24	87.36	87.53	85.40	86.55	88.97	85.90	87.17	85.85	86.51	0.00	0.00	86.38
20. NPC (MW)	519.00	519.00	519.00	519.00	519.00	519.00	519.00	519.00	519.00	519.00	0.00	0.00	519.00

Duke Energy Florida

ACTUAL UNIT EVENT DATA - January - October 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	48.00	185.0	BOROSCOPE INSPECTION
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 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	4,389.08	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	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 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	2,485.60	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	212.67	339.0	INSPECTION

Duke Energy Florida

ACTUAL UNIT EVENT DATA - January - October 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 - October 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)

Duke Energy Florida

ACTUAL UNIT EVENT DATA - January - October 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 - October 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 - October 2021

Crystal River 5

Date	Outage Type	Hours	MW Affected	Description
10/26/2021	PPO	8.00	410.0	PULVERIZER MILLS

Duke Energy Florida

ACTUAL UNIT EVENT DATA - January - October 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 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

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ACTUAL UNIT EVENT DATA - January - October 2021

Hines Power Block 1

Unit	Date	Outage Type	Hours	MW Affected	Description
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

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ACTUAL UNIT EVENT DATA - January - October 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 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 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

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ACTUAL UNIT EVENT DATA - January - October 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

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ACTUAL UNIT EVENT DATA - January - October 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	216.47	175.0	GENERAL UNIT INSPECTION
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	215.75	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	215.58	165.0	GENERAL UNIT INSPECTION