



Matthew R. Bernier
ASSOCIATE GENERAL COUNSEL

February 26, 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 January 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 January 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/cm
Attachment

cc: Director, 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 26th day of February, 2021.

/s/ Matthew R. Bernier

Attorney

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Duke Energy Florida

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 - Jan Period
1. EAF	82.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	82.10
2. PH	744	0	0	0	0	0	0	0	0	0	0	0	744
3. SH	539.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	539.1
4. RSH	80.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.7
5. UH	124.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	124.2
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	124.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	124.2
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	165.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	165.7
12. LR PF (MW)	63.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.0
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)	1169	0	0	0	0	0	0	0	0	0	0	0	1169
16. OPER MBTU	3,009,582	0	0	0	0	0	0	0	0	0	0	0	3,009,582
17. NET GEN (MWH)	371,666	0	0	0	0	0	0	0	0	0	0	0	371,666
18. ANOHR (BTU/KWH)	8,097.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8,097.5
19. NOF (%)	58.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	58.98
20. NPC (MW)	1169	0	0	0	0	0	0	0	0	0	0	0	1169

Duke Energy Florida

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 - Jan Period
1. EAF	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2. PH	744	0	0	0	0	0	0	0	0	0	0	0	744
3. SH	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
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	744.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	744.0
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	744.0
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	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
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	0.0	0.0
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)	712	0	0	0	0	0	0	0	0	0	0	0	712
16. OPER MBTU	0	0	0	0	0	0	0	0	0	0	0	0	0
17. NET GEN (MWH)	0	0	0	0	0	0	0	0	0	0	0	0	0
18. ANOHR (BTU/KWH)	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
19. NOF (%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20. NPC (MW)	712	0	0	0	0	0	0	0	0	0	0	0	712

Duke Energy Florida

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 - Jan Period
1. EAF	94.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	94.97
2. PH	744	0	0	0	0	0	0	0	0	0	0	0	744
3. SH	615.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	615.0
4. RSH	105.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	105.0
5. UH	24.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.0
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	24.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.0
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	33.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.8
12. LR PF (MW)	282.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	282.0
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)	710	0	0	0	0	0	0	0	0	0	0	0	710
16. OPER MBTU	2,554,184	0	0	0	0	0	0	0	0	0	0	0	2,554,184
17. NET GEN (MWH)	243,139	0	0	0	0	0	0	0	0	0	0	0	243,139
18. ANOHR (BTU/KWH)	10,505.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10,505.0
19. NOF (%)	55.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	55.68
20. NPC (MW)	710	0	0	0	0	0	0	0	0	0	0	0	710

Duke Energy Florida

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 - Jan Period
1. EAF	98.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	98.70
2. PH	744	0	0	0	0	0	0	0	0	0	0	0	744
3. SH	734.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	734.3
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	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.7
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	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.7
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	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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	0.0	0.0
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	0	0	0	0	0	0	0	0	0	0	0	490
16. OPER MBTU	2,447,182	0	0	0	0	0	0	0	0	0	0	0	2,447,182
17. NET GEN (MWH)	337,478	0	0	0	0	0	0	0	0	0	0	0	337,478
18. ANOHR (BTU/KWH)	7,251.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7,251.4
19. NOF (%)	93.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	93.79
20. NPC (MW)	490	0	0	0	0	0	0	0	0	0	0	0	490

Duke Energy Florida

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 - Jan Period
1. EAF	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
2. PH	744	0	0	0	0	0	0	0	0	0	0	0	744
3. SH	608.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	608.3
4. RSH	135.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	135.7
5. UH	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
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	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
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	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
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	0.0	0.0
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)	524	0	0	0	0	0	0	0	0	0	0	0	524
16. OPER MBTU	1,766,001	0	0	0	0	0	0	0	0	0	0	0	1,766,001
17. NET GEN (MWH)	235,715	0	0	0	0	0	0	0	0	0	0	0	235,715
18. ANOHR (BTU/KWH)	7,492.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7,492.1
19. NOF (%)	73.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	73.95
20. NPC (MW)	524	0	0	0	0	0	0	0	0	0	0	0	524

Duke Energy Florida

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 - Jan Period
1. EAF	97.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	97.33
2. PH	744	0	0	0	0	0	0	0	0	0	0	0	744
3. SH	360.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	360.5
4. RSH	363.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	363.6
5. UH	19.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.9
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	19.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.9
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	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
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	0.0	0.0
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)	521	0	0	0	0	0	0	0	0	0	0	0	521
16. OPER MBTU	942,240	0	0	0	0	0	0	0	0	0	0	0	942,240
17. NET GEN (MWH)	132,532	0	0	0	0	0	0	0	0	0	0	0	132,532
18. ANOHR (BTU/KWH)	7,109.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7,109.5
19. NOF (%)	70.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	70.56
20. NPC (MW)	521	0	0	0	0	0	0	0	0	0	0	0	521

Duke Energy Florida

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 - Jan Period
1. EAF	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
2. PH	744	0	0	0	0	0	0	0	0	0	0	0	744
3. SH	247.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	247.5
4. RSH	496.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	496.5
5. UH	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
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	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
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	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
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	0.0	0.0
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)	519	0	0	0	0	0	0	0	0	0	0	0	519
16. OPER MBTU	667,789	0	0	0	0	0	0	0	0	0	0	0	667,789
17. NET GEN (MWH)	96,627	0	0	0	0	0	0	0	0	0	0	0	96,627
18. ANOHR (BTU/KWH)	6,911.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6,911.0
19. NOF (%)	75.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	75.24
20. NPC (MW)	519	0	0	0	0	0	0	0	0	0	0	0	519

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - January 2021

Bartow CC

Unit	Date	Outage Type	Hours	MW Affected	Description
BCC 4A	01-11-21	FFO	497.85	195.0	GENERATOR ROTOR WINDINGS
BCC 4C	01-01-21	FFO	139.63	195.0	OTHER FUEL QUALITY PROBLEMS (OMC)
BCC 4C	01-11-21	FFO	0.42	195.0	HEAT RECOVERY STEAM GENERATOR TO GAS TURBINE CON..
BCC 4D	01-01-21	FFO	161.23	195.0	OTHER FUEL QUALITY PROBLEMS (OMC)
BCC 4D	01-16-21	FFO	0.62	195.0	OPERATOR ERROR
BCC 4S	01-05-21	FFO	113.47	389.0	TURBINE - MISCELLANEOUS TURBINE PIPING
BCC 4S	01-11-21	PFO	497.85	63.0	GENERATOR ROTOR WINDINGS

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ACTUAL UNIT EVENT DATA -- January - January 2021

Crystal River 4

Date	Outage Type	Hours	MW Affected	Description
01-01-21	FFO	744.00	712.0	ROTOR; GENERAL

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ACTUAL UNIT EVENT DATA -- January - January 2021

Crystal River 5

Date	Outage Type	Hours	MW Affected	Description
01-05-21	FFO	24.00	710.0	DC PROTECTION DEVICES
01-18-21	PFO	33.75	282.0	CONDENSATE/HOTWELL PUMPS

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ACTUAL UNIT EVENT DATA -- January - January 2021

Hines Power Block 1

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 1A	01-31-21	FFO	9.75	163.0	OTHER MISCELLANEOUS BALANCE OF PLANT PROBLEMS
HEP 1B	01-31-21	FFO	9.63	169.0	GAS TURBINE - CONTROLS AND INSTRUMENTS
HEP ST1	01-31-21	FFO	9.63	158.0	GAS TURBINE - CONTROLS AND INSTRUMENTS

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ACTUAL UNIT EVENT DATA -- January - January 2021

Hines Power Block 2

Unit	Date	Outage Type	Hours	MW Affected	Description

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ACTUAL UNIT EVENT DATA -- January - January 2021

Hines Power Block 3

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 3A	01-10-21	FFO	14.50	173.0	FEEDWATER PUMP
HEP 3A	01-25-21	FFO	0.55	173.0	BLADE PATH TEMPERATURE SPREAD
HEP 3A	01-25-21	FFO	44.48	173.0	BLADE PATH TEMPERATURE SPREAD

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ACTUAL UNIT EVENT DATA -- January - January 2021

Hines Power Block 4

Unit	Date	Outage Type	Hours	MW Affected	Description