



Matthew R. Bernier
ASSOCIATE GENERAL COUNSEL

May 29, 2019

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 April 2019*
Docket No. 20190001-EI

Dear Mr. Teitzman:

Attached for electronic filing in the above-referenced Docket is Duke Energy Florida, LLC's Performance Data Report for April 2019.

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: Daniel Lee, Division of Engineering, FPSC

CERTIFICATE OF SERVICE

Docket No. 20190001-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 29th day of May, 2019.

/s/ Matthew R. Bernier

Attorney

<p>Suzanne Brownless Office of General Counsel FL Public Service Commission 2540 Shumard Oak Blvd. Tallahassee, FL 32399-0850 sbrownle@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>Steven Griffin Beggs & Lane P.O. Box 12950 Pensacola, FL 32591 srg@beggslane.com</p> <p>Russell A. Badders Gulf Power Company One Energy Place Pensacola, FL 32520 russell.badders@nexteraenergy.com</p> <p>Holly Henderson Gulf Power Company 215 S. Monroe St., Ste. 618 Tallahassee, FL 32301 holly.henderson@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. 118 North Gadsden Street Tallahassee, FL 32301 jmoyle@moylelaw.com mqualls@moylelaw.com</p>	<p>J.R. Kelly / P. Christensen / T. David / S. Morse Office of Public Counsel 111 W. Madison St., Room 812 Tallahassee, FL 32399-1400 kelly.jr@leg.state.fl.us christensen.patty@leg.state.fl.us david.tad@leg.state.fl.us morse.stephanie@leg.state.fl.us</p> <p>Ms. Paula K. Brown Regulatory Affairs Tampa Electric Company P.O. Box 111 Tampa, FL 33601-0111 regdept@tecoenergy.com</p> <p>Maria Moncada / Joel Baker Florida Power & Light Company 700 Universe Blvd. (LAW/JB) Juno Beach, FL 33408-0420 maria.moncada@fpl.com joel.baker@fpl.com</p> <p>James Brew / Laura Wynn Stone Law Firm 1025 Thomas Jefferson St., N.W. Suite 800 West Washington, DC 20007 jbrew@smxblaw.com law@smxblaw.com</p> <p>Robert Scheffel Wright / John T. LaVia, III c/o Gardner Law Firm 1300 Thomaswood Drive Tallahassee, FL 32308 schef@gbwlegal.com jlavia@gbwlegal.com</p> <p>Mike Cassel Florida Public Utilities Company 1750 S. 14th Street, Suite 200 Fernandina Beach, FL 32034 mcassel@fpuc.com</p> <p>Beth Keating Gunster, Yoakley & Stewart, P.A. 215 South Monroe Street, Suite 601 Tallahassee, FL 32301 bkeating@gunster.com</p>
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Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2019

Bartow CC	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan - Apr Period
1. EAF	98.52	97.86	62.26	85.22									85.68
2. PH	744	672	743	720									2,879
3. SH	603.9	593.9	485.5	612.3									2,295.6
4. RSH	129.0	65.0	8.7	1.3									204.1
5. UH	11.0	13.1	248.8	106.4									379.3
6. POH	0.0	0.0	133.5	70.6									204.0
7. FOH	8.5	13.1	0.0	14.1									35.7
8. MOH	2.5	0.0	115.4	21.7									139.6
9. PPOH	0.0	0.0	0.0	0.0									0.0
10. LR PP (MW)	0.0	0.0	0.0	0.0									0.0
11. PFOH	0.0	21.6	0.0	0.0									21.6
12. LR PF (MW)	0.0	67.0	0.0	0.0									67.0
13. PMOH	0.0	0.0	182.7	0.0									182.7
14. LR PM (MW)	0.0	0.0	187.0	0.0									187.0
15. NSC (MW)	1080	1080	1080	1080									1080
16. OPER MBTU	3,968,623	3,524,794	2,757,930	3,820,788									14,072,135
17. NET GEN (MWH)	519,987	458,412	365,538	483,493									1,827,430
18. ANOHR (BTU/KWH)	7,632.2	7,689.1	7,544.9	7,902.5									7,700.5
19. NOF (%)	79.72	71.47	69.72	73.11									73.71
20. NPC (MW)	1080	1080	1080	1080									1080

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2019

CRYSTAL RIVER 4	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan - Apr Period
1. EAF	95.90	98.58	99.85	99.10									98.35
2. PH	744	672	743	720									2,879
3. SH	249.0	85.3	743.0	720.0									1,797.3
4. RSH	465.5	582.4	0.0	0.0									1,047.9
5. UH	29.6	4.2	0.0	0.0									33.8
6. POH	0.0	4.2	0.0	0.0									4.2
7. FOH	29.6	0.0	0.0	0.0									29.6
8. MOH	0.0	0.0	0.0	0.0									0.0
9. PPOH	0.0	6.7	8.5	39.6									54.7
10. LR PP (MW)	0.0	93.0	93.0	108.4									104.1
11. PFOH	2.2	2.9	0.0	1.7									6.8
12. LR PF (MW)	284.4	93.0	0.0	188.0									179.1
13. PMOH	0.0	31.0	0.0	0.0									31.0
14. LR PM (MW)	0.0	93.0	0.0	0.0									93.0
15. NSC (MW)	712	712	712	712									712
16. OPER MBTU	917,440	391,844	3,216,166	3,273,475									7,798,925
17. NET GEN (MWH)	82,152	31,051	323,578	318,328									755,109
18. ANOHR (BTU/KWH)	11,167.6	12,619.4	9,939.4	10,283.3									10,328.2
19. NOF (%)	46.35	51.11	61.17	62.10									59.01
20. NPC (MW)	712	712	712	712									712

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ACTUAL UNIT PERFORMANCE DATA -- YEAR 2019

CRYSTAL RIVER 5	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan - Apr Period
1. EAF	99.93	78.57	0.00	0.00									44.16
2. PH	744	672	743	720									2,879
3. SH	547.7	0.0	0.0	0.0									547.7
4. RSH	196.3	528.0	0.0	0.0									724.3
5. UH	0.0	144.0	743.0	720.0									1,607.0
6. POH	0.0	144.0	743.0	720.0									1,607.0
7. FOH	0.0	0.0	0.0	0.0									0.0
8. MOH	0.0	0.0	0.0	0.0									0.0
9. PPOH	0.0	0.0	0.0	0.0									0.0
10. LR PP (MW)	0.0	0.0	0.0	0.0									0.0
11. PFOH	1.0	0.0	0.0	0.0									1.0
12. LR PF (MW)	377.0	0.0	0.0	0.0									377.0
13. PMOH	0.0	0.0	0.0	0.0									0.0
14. LR PM (MW)	0.0	0.0	0.0	0.0									0.0
15. NSC (MW)	710	710	710	710									710
16. OPER MBTU	2,006,569	0	0	0									2,006,569
17. NET GEN (MWH)	185,022	0	0	0									185,022
18. ANOHR (BTU/KWH)	10,845.0	0.0	0.0	0.0									10,845.0
19. NOF (%)	47.58	0.00	0.00	0.00									47.58
20. NPC (MW)	710	710	710	710									710

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ACTUAL UNIT PERFORMANCE DATA -- YEAR 2019

HINES Power Block 1	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan - Apr Period
1. EAF	47.59	89.85	98.58	39.42									68.57
2. PH	744	672	743	720									2,879
3. SH	356.2	588.3	669.0	260.0									1,873.5
4. RSH	25.7	17.4	66.4	28.5									138.1
5. UH	362.1	66.2	7.6	431.5									867.5
6. POH	0.0	0.0	0.0	391.9									391.9
7. FOH	6.7	0.0	7.6	39.6									54.0
8. MOH	355.4	66.2	0.0	0.0									421.6
9. PPOH	0.0	0.0	12.1	0.0									12.1
10. LR PP (MW)	0.0	0.0	68.1	0.0									68.1
11. PFOH	166.5	12.0	7.3	26.3									212.1
12. LR PF (MW)	82.0	82.0	85.1	78.4									81.7
13. PMOH	0.0	0.0	0.0	2.7									2.7
14. LR PM (MW)	0.0	0.0	0.0	78.1									78.1
15. NSC (MW)	490	490	490	490									490
16. OPER MBTU	872,136	1,738,925	1,939,335	666,151									5,216,547
17. NET GEN (MWH)	114,118	234,944	260,779	88,049									697,890
18. ANOHR (BTU/KWH)	7,642.4	7,401.4	7,436.7	7,565.7									7,474.7
19. NOF (%)	65.39	81.50	79.55	69.13									76.02
20. NPC (MW)	490	490	490	490									490

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ACTUAL UNIT PERFORMANCE DATA -- YEAR 2019

HINES Power Block 2	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan - Apr Period
1. EAF	99.35	99.93	99.06	100.00									99.57
2. PH	744	672	743	720									2,879
3. SH	522.1	594.2	262.4	703.8									2,082.5
4. RSH	217.0	77.8	473.6	16.2									784.7
5. UH	4.8	0.0	7.0	0.0									11.8
6. POH	0.0	0.0	0.0	0.0									0.0
7. FOH	4.8	0.0	0.0	0.0									4.8
8. MOH	0.0	0.0	7.0	0.0									7.0
9. PPOH	0.0	4.5	0.0	0.0									4.5
10. LR PP (MW)	0.0	51.1	0.0	0.0									51.1
11. PFOH	0.0	0.0	0.0	0.0									0.0
12. LR PF (MW)	0.0	0.0	0.0	0.0									0.0
13. PMOH	0.0	0.0	0.0	0.0									0.0
14. LR PM (MW)	0.0	0.0	0.0	0.0									0.0
15. NSC (MW)	512	512	512	512									512
16. OPER MBTU	1,575,600	1,841,414	767,331	2,404,824									6,589,169
17. NET GEN (MWH)	216,465	250,392	94,594	326,935									888,386
18. ANOHR (BTU/KWH)	7,278.8	7,354.1	8,111.8	7,355.7									7,417.0
19. NOF (%)	80.97	82.31	70.40	90.73									83.32
20. NPC (MW)	512	512	512	512									512

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ACTUAL UNIT PERFORMANCE DATA -- YEAR 2019

HINES Power Block 3	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan - Apr Period
1. EAF	99.51	100.00	99.99	95.45									98.73
2. PH	744	672	743	720									2,879
3. SH	700.1	638.3	343.6	606.6									2,288.6
4. RSH	40.7	33.7	399.4	86.5									560.3
5. UH	3.2	0.0	0.0	26.9									30.1
6. POH	0.0	0.0	0.0	0.0									0.0
7. FOH	3.2	0.0	0.0	23.9									27.1
8. MOH	0.0	0.0	0.0	3.0									3.0
9. PPOH	0.0	0.0	1.0	18.8									19.8
10. LR PP (MW)	0.0	0.0	52.2	54.8									54.6
11. PFOH	3.3	0.0	0.0	24.5									27.8
12. LR PF (MW)	75.3	0.0	0.0	80.4									79.8
13. PMOH	0.0	0.0	0.0	0.0									0.0
14. LR PM (MW)	0.0	0.0	0.0	0.0									0.0
15. NSC (MW)	516	516	516	516									516
16. OPER MBTU	2,287,431	1,840,031	1,054,849	1,858,493									7,040,804
17. NET GEN (MWH)	308,437	251,190	147,150	263,134									969,911
18. ANOHR (BTU/KWH)	7,416.2	7,325.3	7,168.5	7,062.9									7,259.2
19. NOF (%)	85.38	76.26	82.99	84.07									82.13
20. NPC (MW)	516	516	516	516									516

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ACTUAL UNIT PERFORMANCE DATA -- YEAR 2019

HINES Power Block 4	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan - Apr Period
1. EAF	99.64	99.77	98.79	99.78									99.49
2. PH	744	672	743	720									2,879
3. SH	677.2	637.2	680.2	678.2									2,672.8
4. RSH	64.8	33.4	62.8	41.8									202.8
5. UH	2.0	1.4	0.0	0.0									3.4
6. POH	0.0	0.0	0.0	0.0									0.0
7. FOH	2.0	1.4	0.0	0.0									3.4
8. MOH	0.0	0.0	0.0	0.0									0.0
9. PPOH	5.5	0.0	202.9	39.8									248.2
10. LR PP (MW)	64.2	0.0	21.2	21.0									22.1
11. PFOH	0.0	0.0	8.5	0.0									8.5
12. LR PF (MW)	0.0	0.0	38.7	0.0									38.7
13. PMOH	0.0	1.3	0.0	0.0									1.3
14. LR PM (MW)	0.0	78.1	0.0	0.0									78.1
15. NSC (MW)	516	516	516	516									516
16. OPER MBTU	2,212,083	1,913,058	2,029,918	2,065,703									8,220,762
17. NET GEN (MWH)	319,434	276,729	292,615	303,025									1,191,803
18. ANOHR (BTU/KWH)	6,925.0	6,913.1	6,937.2	6,816.9									6,897.8
19. NOF (%)	91.42	84.16	83.37	86.59									86.41
20. NPC (MW)	516	516	516	516									516

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - April 2019

Bartow CC

Unit	Date	Outage Type	Hours	MW Affected	Description
BCC 4A	1/19/2019	FMO	14.00	185.0	OTHER CO REDUCTION PROBLEMS
BCC 4A	3/1/2019	FMO	743.00	185.0	MAJOR GAS TURBINE OVERHAUL
BCC 4B	2/11/2019	FFO	74.72	183.0	GAS TURBINE - STARTING SYSTEM (INCLUDING MOTOR)
BCC 4C	3/3/2019	FMO	558.70	187.0	MAJOR GAS TURBINE OVERHAUL
BCC 4D	3/27/2019	FMO	73.15	186.0	GAS TURBINE - EXHAUST SYSTEM CHAMBER
BCC 4S	1/7/2019	FFO	30.10	339.0	CIRCULATING WATER PUMPS
BCC 4S	2/11/2019	PFO	74.72	67.0	GAS TURBINE - STARTING SYSTEM (INCLUDING MOTOR)
BCC 4S	3/3/2019	PMO	558.70	187.0	MAJOR GAS TURBINE OVERHAUL
BCC 4S	3/27/2019	PMO	73.10	187.0	GAS TURBINE - EXHAUST SYSTEM CHAMBER

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - April 2019

Crystal River 4

Date	Outage Type	Hours	MW Affected	Description
1/20/2019	FFO	29.58	712.0	DESUPERHEATER/ATTEMPERATOR CONTROLS (NOT LOCAL CONTROLS)
1/26/2019	PFO	2.23	284.1	CONDENSATE VALVES
2/25/2019	PO	0.13	712.0	FEEDWATER CONTROLS
2/25/2019	PO	4.10	712.0	CONDENSATE/HOTWELL PUMPS
2/26/2019	PMO	27.50	93.0	PULVERIZER MILLS
2/28/2019	PMO	3.50	93.0	PULVERIZED FUEL AND AIR PIPING (PULVERIZER TO WIND BOX)
2/28/2019	PFO	2.90	93.1	PULVERIZED FUEL AND AIR PIPING (PULVERIZER TO WIND BOX)
2/28/2019	PPO	15.17	93.0	PULVERIZER MILLS

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - April 2019

Crystal River 5

Date	Outage Type	Hours	MW Affected	Description
1/11/2019	PFO	1.00	377.0	OTHER PULVERIZER PROBLEMS
2/23/2019	PO	887.00	710.0	BOILER - OTHER INTERNAL AND STRUCTURAL PROBLEMS

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - April 2019

Hines Power Block 1

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 1A	1/1/2019	FMO	95.75	163.0	OTHER EXCITER PROBLEMS
HEP 1A	1/6/2019	FMO	83.48	163.0	LP TURBINE SHAFT SEALS
HEP 1A	2/8/2019	FMO	58.00	163.0	IP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP 1A	3/3/2019	PPO	10.00	77.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 1A	3/5/2019	PPO	2.08	73.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 1A	3/11/2019	FFO	2.98	163.0	FEEDWATER PUMP/DRIVE LUBE OIL SYSTEM
HEP 1A	3/25/2019	FFO	0.45	163.0	FEEDWATER CONTROLS
HEP 1B	1/1/2019	FMO	95.75	169.0	OTHER EXCITER PROBLEMS
HEP 1B	1/6/2019	FMO	83.00	169.0	LP TURBINE SHAFT SEALS
HEP 1B	1/9/2019	FFO	20.00	169.0	GAS TURBINE - CONTROLS AND INSTRUMENTS
HEP 1B	1/10/2019	FMO	534.42	169.0	GENERATOR LUBE OIL SYSTEM
HEP 1B	2/8/2019	FMO	42.27	169.0	HP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP 1B	2/10/2019	FMO	16.73	169.0	HP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP 1B	3/3/2019	PPO	10.00	83.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 1B	3/5/2019	PPO	2.08	79.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 1B	3/31/2019	FFO	19.23	169.0	EMERGENCY GENERATOR TRIP DEVICES
HEP ST1	1/1/2019	FMO	95.75	158.0	OTHER EXCITER PROBLEMS
HEP ST1	1/6/2019	FMO	92.92	158.0	LP TURBINE SHAFT SEALS
HEP ST1	1/10/2019	PFO	525.83	82.0	GENERATOR LUBE OIL SYSTEM
HEP ST1	2/8/2019	PFO	15.73	82.0	IP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP ST1	2/8/2019	FMO	42.27	158.0	IP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP ST1	2/10/2019	FMO	18.42	158.0	HP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP ST1	3/3/2019	PPO	10.00	45.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST1	3/5/2019	PPO	2.08	46.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST1	3/11/2019	PFO	2.98	79.0	FEEDWATER PUMP/DRIVE LUBE OIL SYSTEM
HEP ST1	3/31/2019	PFO	19.23	86.0	EMERGENCY GENERATOR TRIP DEVICES

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - April 2019

Hines Power Block 2

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 2A	1/1/2019	FFO	4.50	166.3	OTHER MISC. OPERATIONAL ENVIRONMENTAL LIMITS - GAS
HEP 2A	2/8/2019	PPO	4.50	60.3	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
HEP 2A	3/2/2019	PO	331.28	166.3	OTHER MISCELLANEOUS BALANCE OF PLANT PROBLEMS
HEP 2A	3/27/2019	FMO	7.00	166.3	OTHER CONDENSING SYSTEM CONTROLS AND INSTRUMENTS
HEP 2B	1/1/2019	FFO	4.53	174.3	OTHER MISC. OPERATIONAL ENVIRONMENTAL LIMITS - GAS
HEP 2B	2/8/2019	PPO	4.50	68.3	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
HEP 2B	3/2/2019	PO	331.28	174.3	OTHER MISCELLANEOUS BALANCE OF PLANT PROBLEMS
HEP 2B	3/27/2019	FMO	7.00	174.3	OTHER CONDENSING SYSTEM CONTROLS AND INSTRUMENTS
HEP ST2	1/1/2019	FFO	5.47	171.3	OTHER MISC. OPERATIONAL ENVIRONMENTAL LIMITS - GAS
HEP ST2	2/8/2019	PPO	4.50	25.4	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
HEP ST2	3/2/2019	PO	331.28	171.3	OTHER MISCELLANEOUS BALANCE OF PLANT PROBLEMS
HEP ST2	3/27/2019	FMO	7.00	171.3	OTHER CONDENSING SYSTEM CONTROLS AND INSTRUMENTS

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - April 2019

Hines Power Block 3

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 3A	3/6/2019	PPO	1.00	64.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 3B	1/31/2019	FFO	9.70	173.3	GAS TURBINE - CONTROLS AND INSTRUMENTS
HEP 3B	3/6/2019	PPO	1.00	64.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST3	1/31/2019	PFO	9.70	75.3	GAS TURBINE - CONTROLS AND INSTRUMENTS
HEP ST3	3/6/2019	PPO	1.00	28.3	OTHER MISCELLANEOUS EXTERNAL PROBLEMS

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - April 2019

Hines Power Block 4

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 4A	1/22/2019	PPO	1.50	75.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4A	1/23/2019	PPO	3.00	72.0	DISTRIBUTIVE CONTROL SYSTEM - PROCESS COMPUTER
HEP 4A	1/28/2019	PPO	2.00	70.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4A	3/1/2019	PFO	8.50	42.0	CIRCULATING WATER PUMP MOTORS
HEP 4A	3/6/2019	PPO	0.92	76.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4B	1/20/2019	FFO	0.08	175.0	HP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP 4B	1/20/2019	FFO	0.05	175.0	HP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP 4B	1/20/2019	FFO	5.80	175.0	HP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP 4B	1/22/2019	PPO	1.50	74.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4B	1/28/2019	PPO	2.00	69.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP 4B	2/24/2019	FFO	4.00	175.0	GAS TURBINE - IGNITION SYSTEM
HEP 4B	3/1/2019	PFO	8.50	41.0	CIRCULATING WATER PUMP MOTORS
HEP 4B	3/6/2019	PPO	0.92	76.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST4	1/22/2019	PPO	1.50	21.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST4	1/23/2019	PPO	3.00	91.0	DISTRIBUTIVE CONTROL SYSTEM - PROCESS COMPUTER
HEP ST4	1/28/2019	PPO	2.00	18.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS
HEP ST4	2/24/2019	PMO	4.00	78.0	GAS TURBINE - IGNITION SYSTEM
HEP ST4	3/1/2019	PFO	8.50	33.0	CIRCULATING WATER PUMP MOTORS
HEP ST4	3/6/2019	PPO	621.75	21.0	OTHER MISCELLANEOUS EXTERNAL PROBLEMS