



Matthew R. Bernier
ASSOCIATE GENERAL COUNSEL

April 19, 2018

VIA ELECTRONIC FILING

Carlotta Stauffer, Commission Clerk
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, Florida 32399-0850

Re: *Performance Date Report for March 2018*
Docket No. 20180001-EI

Dear Ms. Stauffer:

Attached for electronic filing in the above docket is Duke Energy Florida, LLC's Performance Data Report for March 2018.

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. 20180001-EI

I HEREBY CERTIFY that a true copy of Performance Data Report for the month of March 2018 has been furnished to the following individuals via e-mail on this 19th day of April, 2018.

/s/ Matthew R. Bernier

Attorney

<p>Suzanne Brownless / Adria Harper Office of General Counsel FL Public Service Commission 2540 Shumard Oak Blvd. Tallahassee, FL 32399-0850 sbrownle@psc.state.fl.us aharper@psc.state.fl.us</p> <p>James Beasley / J. Jeffrey Wahlen Ausley McMullen P.O. Box 391 Tallahassee, FL 32302 jbeasley@ausley.com jwahlen@ausley.com</p> <p>Russell Badders / Steven Griffin Beggs & Lane P.O. Box 12950 Pensacola, FL 32591 rab@beggslane.com srg@beggslane.com</p> <p>Kenneth A. Hoffman Florida Power & Light Company 215 S. Monroe Street, Suite 810 Tallahassee, FL 32301-1858 ken.hoffman@fpl.com</p> <p>Rhonda J. Alexander / Jeffrey A. Stone Gulf Power Company One Energy Place Pensacola, FL 32520 rjalexad@southernco.com jastone@southernco.com</p> <p>Jon C. Moyle, Jr. Moyle Law Firm, P.A. 118 North Gadsden Street Tallahassee, FL 32301 jmoyle@moylelaw.com</p> <p>Beth Keating Gunster, Yoakley & Stewart, P.A. 215 South Monroe Street, Suite 601 Tallahassee, FL 32301 bkeating@gunster.com</p>	<p>Charles Rehwinkel / Erik Saylor/ J.R. Kelly / Patricia Christensen Office of Public Counsel c/o The Florida Legislature 111 W. Madison St., Room 812 Tallahassee, FL 32399-1400 kelly.jr@leg.state.fl.us saylor.erik@leg.state.fl.us christensen.patty@leg.state.fl.us rehwinkel.charles@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>John Butler / Maria Moncada Florida Power & Light Company 700 Universe Blvd (LAW/JB) Juno Beach, FL 33408-0420 john.butler@fpl.com maria.moncada@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>
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Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2018

Bartow CC	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan - Mar Period
1. EAF	100.00	99.71	83.44										94.21
2. PH	744	672	743										2,159
3. SH	723.1	576.0	617.3										1,916.5
4. RSH	20.9	95.7	13.3										129.9
5. UH	0.0	0.3	112.4										112.7
6. POH	0.0	0.0	111.7										111.7
7. FOH	0.0	0.3	0.8										1.0
8. MOH	0.0	0.0	0.0										0.0
9. PPOH	0.0	0.0	64.1										64.1
10. LR PP (MW)	0.0	0.0	178.5										178.5
11. PFOH	0.0	15.1	0.0										15.1
12. LR PF (MW)	0.0	120.0	0.0										120.0
13. PMOH	0.0	0.0	0.0										0.0
14. LR PM (MW)	0.0	0.0	0.0										0.0
15. NSC (MW)	1080	1080	1080										1080
16. OPER MBTU	4,808,629	3,821,765	4,534,493										13,164,887
17. NET GEN (MWH)	627,889	499,274	535,332										1,662,495
18. ANOHR (BTU/KWH)	7,658.4	7,654.6	8,470.4										7,918.8
19. NOF (%)	80.40	80.26	80.30										80.32
20. NPC (MW)	1080	1080	1080										1080

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2018

CRYSTAL RIVER 4	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan - Mar Period
1. EAF	95.73	99.52	6.46										66.19
2. PH	744	672	743										2,159
3. SH	744.0	672.0	48.0										1,464.0
4. RSH	0.0	0.0	0.0										0.0
5. UH	0.0	0.0	695.0										695.0
6. POH	0.0	0.0	695.0										695.0
7. FOH	0.0	0.0	0.0										0.0
8. MOH	0.0	0.0	0.0										0.0
9. PPOH	0.6	4.0	0.0										4.6
10. LR PP (MW)	555.0	426.0	0.0										442.8
11. PFOH	65.7	6.5	0.0										72.2
12. LR PF (MW)	339.0	93.0	0.0										317.0
13. PMOH	0.0	0.0	0.0										0.0
14. LR PM (MW)	0.0	0.0	0.0										0.0
15. NSC (MW)	712	712	712										712
16. OPER MBTU	4,015,993	3,240,899	222,277										7,479,168
17. NET GEN (MWH)	413,001	321,886	22,657										757,544
18. ANOHR (BTU/KWH)	9,723.9	10,068.5	9,810.5										9,872.9
19. NOF (%)	77.96	67.27	66.25										72.67
20. NPC (MW)	712	712	712										712

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2018

CRYSTAL RIVER 5	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan - Mar Period
1. EAF	97.92	97.07	97.93										97.66
2. PH	744	672	743										2,159
3. SH	744.0	668.0	730.3										2,142.3
4. RSH	0.0	0.0	0.0										0.0
5. UH	0.0	4.0	12.7										16.7
6. POH	0.0	0.0	0.0										0.0
7. FOH	0.0	0.0	12.7										12.7
8. MOH	0.0	4.0	0.0										4.0
9. PPOH	2.0	0.0	0.0										2.0
10. LR PP (MW)	91.0	0.0	0.0										91.0
11. PFOH	36.5	0.0	5.0										41.5
12. LR PF (MW)	296.0	0.0	377.0										305.8
13. PMOH	0.0	22.5	0.0										22.5
14. LR PM (MW)	0.0	496.0	0.0										496.0
15. NSC (MW)	710	710	710										710
16. OPER MBTU	4,144,476	3,158,789	3,800,740										11,104,005
17. NET GEN (MWH)	429,919	314,067	386,624										1,130,610
18. ANOHR (BTU/KWH)	9,640.1	10,057.7	9,830.6										9,821.3
19. NOF (%)	81.39	66.22	74.56										74.33
20. NPC (MW)	710	710	710										710

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2018

HINES Power Block 1	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan - Mar Period
1. EAF	98.04	99.99	48.88										81.73
2. PH	744	672	743										2,159
3. SH	714.5	672.0	363.7										1,750.2
4. RSH	16.7	0.0	0.1										16.7
5. UH	12.9	0.0	379.3										392.1
6. POH	0.0	0.0	359.9										359.9
7. FOH	12.9	0.0	19.4										32.2
8. MOH	0.0	0.0	0.0										0.0
9. PPOH	0.0	0.8	0.0										0.8
10. LR PP (MW)	0.0	50.6	0.0										50.6
11. PFOH	12.4	0.0	3.6										16.0
12. LR PF (MW)	69.8	0.0	76.6										71.3
13. PMOH	0.0	0.0	0.0										0.0
14. LR PM (MW)	0.0	0.0	0.0										0.0
15. NSC (MW)	495	495	495										495
16. OPER MBTU	2,318,447	2,219,815	1,223,092										5,761,354
17. NET GEN (MWH)	321,975	304,049	166,322										792,346
18. ANOHR (BTU/KWH)	7,200.7	7,300.8	7,353.8										7,271.3
19. NOF (%)	91.04	91.40	92.39										91.46
20. NPC (MW)	495	495	495										495

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ACTUAL UNIT PERFORMANCE DATA -- YEAR 2018

HINES Power Block 2	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan - Mar Period
1. EAF	100.00	99.39	90.43										96.52
2. PH	744	672	743										2,159
3. SH	693.3	464.5	669.7										1,827.5
4. RSH	50.7	204.0	2.2										256.9
5. UH	0.0	3.5	71.1										74.6
6. POH	0.0	0.0	0.0										0.0
7. FOH	0.0	3.5	71.1										74.6
8. MOH	0.0	0.0	0.0										0.0
9. PPOH	0.0	0.0	0.0										0.0
10. LR PP (MW)	0.0	0.0	0.0										0.0
11. PFOH	0.0	3.4	0.0										3.4
12. LR PF (MW)	0.0	92.3	0.0										92.3
13. PMOH	0.0	0.0	0.0										0.0
14. LR PM (MW)	0.0	0.0	0.0										0.0
15. NSC (MW)	527	527	527										527
16. OPER MBTU	2,282,848	1,421,231	2,365,022										6,069,101
17. NET GEN (MWH)	314,763	201,941	323,728										840,432
18. ANOHR (BTU/KWH)	7,252.6	7,037.9	7,305.6										7,221.4
19. NOF (%)	86.15	82.49	91.73										87.26
20. NPC (MW)	527	527	527										527

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2018

HINES Power Block 3	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan - Mar Period
1. EAF	99.51	99.62	98.60										99.23
2. PH	744	672	743										2,159
3. SH	478.3	413.2	598.2										1,489.7
4. RSH	262.5	256.5	135.9										654.8
5. UH	3.2	2.3	9.0										14.4
6. POH	0.0	0.0	0.0										0.0
7. FOH	3.2	2.3	0.8										6.3
8. MOH	0.0	0.0	8.1										8.1
9. PPOH	0.0	1.0	0.0										1.0
10. LR PP (MW)	0.0	59.1	0.0										59.1
11. PFOH	2.9	1.1	1.0										5.0
12. LR PF (MW)	81.0	81.0	81.3										81.1
13. PMOH	0.0	0.0	7.9										7.9
14. LR PM (MW)	0.0	0.0	83.0										83.0
15. NSC (MW)	521	521	521										521
16. OPER MBTU	1,547,605	1,321,596	1,931,761										4,800,962
17. NET GEN (MWH)	207,822	179,431	273,608										660,861
18. ANOHR (BTU/KWH)	7,446.8	7,365.5	7,060.3										7,264.7
19. NOF (%)	83.40	83.34	87.79										85.15
20. NPC (MW)	521	521	521										521

Duke Energy Florida

ACTUAL UNIT PERFORMANCE DATA -- YEAR 2018

HINES Power Block 4	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan - Mar Period
1. EAF	98.03	99.97	99.99										99.31
2. PH	744	672	743										2,159
3. SH	574.2	630.0	743.0										1,947.3
4. RSH	156.8	42.0	0.0										198.8
5. UH	13.0	0.0	0.0										13.0
6. POH	0.0	0.0	0.0										0.0
7. FOH	13.0	0.0	0.0										13.0
8. MOH	0.0	0.0	0.0										0.0
9. PPOH	0.5	2.1	1.0										3.6
10. LR PP (MW)	50.1	50.9	47.7										49.9
11. PFOH	12.0	0.0	0.0										12.0
12. LR PF (MW)	69.2	0.0	0.0										69.2
13. PMOH	0.0	0.0	0.0										0.0
14. LR PM (MW)	0.0	0.0	0.0										0.0
15. NSC (MW)	504	504	504										504
16. OPER MBTU	1,859,462	1,997,841	2,490,044										6,347,346
17. NET GEN (MWH)	268,522	289,609	367,086										925,217
18. ANOHR (BTU/KWH)	6,924.8	6,898.4	6,783.3										6,860.4
19. NOF (%)	92.78	91.21	98.03										94.27
20. NPC (MW)	504	504	504										504

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - March 2018

Bartow CC

Unit	Date	Outage Type	Hours	MW Affected	Description
BCC 4A	2/2/2018	FFO	1.47	185.0	OTHER GAS TURBINE PROBLEMS
BCC 4A	3/10/2018	PO	191.00	185.0	GAS TURBINE - BOROSCOPE INSPECTION
BCC 4B	3/17/2018	PO	13.33	183.0	OTHER GAS TURBINE PROBLEMS
BCC 4B	3/18/2018	FFO	1.73	183.0	BLADE PATH TEMPERATURE SPREAD
BCC 4B	3/18/2018	FFO	2.85	183.0	BLADE PATH TEMPERATURE SPREAD
BCC 4S	2/7/2018	PFO	19.53	120.0	FEEDWATER CHEMISTRY
BCC 4S	2/9/2018	PFO	28.55	120.0	FEEDWATER CHEMISTRY
BCC 4S	3/10/2018	PPO	191.00	191.0	GAS TURBINE - BOROSCOPE INSPECTION
BCC 4S	3/17/2018	PPO	13.33	0.0	OTHER GAS TURBINE PROBLEMS
BCC 4S	3/18/2018	PO	244.28	339.0	CIRCULATING WATER CHEMISTRY

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - March 2018

Crystal River 4

Date	Outage Type	Hours	MW Affected	Description
1/3/2018	PFO	15.17	93.0	CONDENSER TUBE LEAKS
1/4/2018	PFO	3.07	235.9	CONDENSER TUBE LEAKS
1/4/2018	PFO	1.23	474.1	CONDENSER TUBE LEAKS
1/4/2018	PFO	8.98	498.0	CONDENSER TUBE LEAKS
1/4/2018	PFO	1.48	403.3	OTHER WET SCRUBBER PROBLEMS
1/7/2018	PFO	6.00	284.0	CONDENSER TUBE LEAKS
1/7/2018	PFO	26.98	474.0	CONDENSER TUBE LEAKS
1/18/2018	PFO	2.83	1.0	OTHER MISC. OPERATIONAL ENVIRONMENTAL LIMITS-FOSSI
1/29/2018	PPO	0.60	555.4	GENERATOR - OTHER COOLING SYSTEM PROBLEMS
2/7/2018	PFO	6.48	93.0	AIR SUPPLY DAMPERS
2/27/2018	PPO	4.00	426.0	FORCED DRAFT FANS
3/3/2018	PO	694.97	712.0	BOILER INSPECTIONS

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - March 2018

Crystal River 5

Date	Outage Type	Hours	MW Affected	Description
1/1/2018	PFO	3.17	423.9	OTHER BOILER CONTROL AND INSTRUMENTATION PROBLEMS
1/1/2018	PFO	2.13	186.1	OTHER BOILER CONTROL AND INSTRUMENTATION PROBLEMS
1/4/2018	PFO	10.92	234.0	OTHER WET SCRUBBER PROBLEMS
1/6/2018	PFO	1.40	124.8	CONDENSER TUBE LEAKS
1/7/2018	PFO	6.00	44.0	CONDENSER TUBE LEAKS
1/9/2018	PFO	12.83	472.0	CONDENSER TUBE LEAKS
1/31/2018	PPO	2.00	90.9	PULVERIZER LUBE OIL SYSTEM
2/1/2018	FMO	4.00	710.0	BURNERS
2/24/2018	PMO	22.50	496.0	WET SCRUBBER - RECYCLE (LIQUID) PUMPS
3/3/2018	PFO	5.00	377.0	COAL CONVEYERS AND FEEDERS
3/27/2018	FFO	12.70	710.0	GENERATOR LIQUID COOLING SYSTEM

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - March 2018

Hines Power Block 1

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 1A	1/4/2018	FFO	2.40	164.7	COMBINED CYCLE INSTRUMENTS AND CONTROLS
HEP 1A	1/29/2018	FFO	35.18	164.7	GENERATOR CURRENT AND POTENTIAL TRANSFORMERS
HEP 1A	2/22/2018	PPO	0.75	54.7	TRAVELING SCREEN FOULING
HEP 1A	3/13/2018	FFO	28.23	164.7	OTHER HYDROGEN SYSTEM PROBLEMS
HEP 1A	3/17/2018	PO	359.88	164.7	GENERAL GAS TURBINE UNIT INSPECTION
HEP 1B	1/27/2018	FFO	1.00	170.7	GAS TURBINE - COOLING AND SEAL AIR SYSTEM
HEP 1B	2/22/2018	PPO	0.75	60.8	TRAVELING SCREEN FOULING
HEP 1B	3/13/2018	FFO	12.88	170.7	OTHER HYDROGEN SYSTEM PROBLEMS
HEP 1B	3/17/2018	PO	359.88	170.7	GENERAL GAS TURBINE UNIT INSPECTION
HEP ST1	1/4/2018	PFO	2.40	69.6	COMBINED CYCLE INSTRUMENTS AND CONTROLS
HEP ST1	1/27/2018	PFO	1.00	75.7	GAS TURBINE - COOLING AND SEAL AIR SYSTEM
HEP ST1	1/29/2018	PFO	35.18	69.6	GENERATOR CURRENT AND POTENTIAL TRANSFORMERS
HEP ST1	2/22/2018	PPO	0.75	35.5	TRAVELING SCREEN FOULING
HEP ST1	3/13/2018	FFO	17.20	159.6	OTHER HYDROGEN SYSTEM PROBLEMS
HEP ST1	3/14/2018	PFO	11.03	76.6	GAS FUEL SYSTEM WITH CONTROLS AND INSTRUMENTS
HEP ST1	3/17/2018	PO	359.88	159.6	INSPECTION

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - March 2018

Hines Power Block 2

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 2A	3/23/2018	FFO	71.60	171.2	OTHER COMBINED CYCLE PROBLEMS
HEP 2B	2/21/2018	FFO	10.22	179.5	GAS TURBINE VIBRATION
HEP 2B	3/23/2018	FFO	69.07	179.5	OTHER COMBINED CYCLE PROBLEMS
HEP 2B	3/26/2018	FFO	0.58	179.5	FEEDWATER REGULATING (BOILER LEVEL CONTROL) VALVE
HEP ST2	2/21/2018	PFO	10.22	92.3	GAS TURBINE VIBRATION
HEP ST2	3/23/2018	FFO	72.10	176.4	OTHER COMBINED CYCLE PROBLEMS

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - March 2018

Hines Power Block 3

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 3A	2/22/2018	PPO	1.00	65.1	TRAVELING SCREEN FOULING
HEP 3A	2/27/2018	FFO	3.38	175.0	GAS TURBINE CONTROL SYSTEM - HARDWARE PROBLEM
HEP 3A	3/5/2018	FFO	1.03	175.0	GAS TURBINE COMPRESSOR - BLEED VALVES
HEP 3B	1/5/2018	FFO	8.97	175.0	GAS TURBINE COMPRESSOR - BLEED VALVES
HEP 3B	1/13/2018	FFO	0.50	175.0	BLADE PATH TEMPERATURE SPREAD
HEP 3B	2/10/2018	FFO	0.17	175.0	GAS TURBINE - HIGH ENGINE EXHAUST TEMPERATURE
HEP 3B	2/10/2018	FFO	3.25	175.0	HP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP 3B	2/22/2018	PPO	1.00	65.1	TRAVELING SCREEN FOULING
HEP 3B	3/5/2018	FFO	0.75	175.0	HP DRUM
HEP 3B	3/30/2018	FMO	24.15	175.0	HEAT RECOVERY STEAM GENERATOR TO GAS TURBINE CON..
HEP ST3	1/5/2018	PFO	8.97	81.0	GAS TURBINE COMPRESSOR - BLEED VALVES
HEP ST3	2/22/2018	PPO	1.00	47.0	TRAVELING SCREEN FOULING
HEP ST3	2/27/2018	PFO	3.38	81.0	GAS TURBINE CONTROL SYSTEM - HARDWARE PROBLEM
HEP ST3	3/5/2018	FFO	0.75	171.0	HP DRUM
HEP ST3	3/5/2018	PFO	3.00	81.0	COMBINED CYCLE INSTRUMENTS AND CONTROLS
HEP ST3	3/30/2018	PMO	24.17	83.0	HEAT RECOVERY STEAM GENERATOR TO GAS TURBINE CON..

Duke Energy Florida

ACTUAL UNIT EVENT DATA -- January - March 2018

Hines Power Block 4

Unit	Date	Outage Type	Hours	MW Affected	Description
HEP 4A	1/22/2018	PPO	0.50	68.8	TRAVELING SCREEN FOULING
HEP 4A	2/2/2018	PPO	1.10	56.9	TRAVELING SCREEN FOULING
HEP 4A	2/22/2018	PPO	1.00	61.9	TRAVELING SCREEN FOULING
HEP 4A	3/6/2018	PPO	1.00	56.9	TRAVELING SCREEN FOULING
HEP 4B	1/13/2018	FFO	38.25	170.9	IP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP 4B	1/22/2018	PPO	0.50	66.0	TRAVELING SCREEN FOULING
HEP 4B	2/2/2018	PPO	1.10	55.9	TRAVELING SCREEN FOULING
HEP 4B	2/22/2018	PPO	1.00	60.9	TRAVELING SCREEN FOULING
HEP 4B	3/6/2018	PPO	1.00	55.9	TRAVELING SCREEN FOULING
HEP ST4	1/13/2018	PFO	37.50	69.2	IP STARTUP BYPASS INSTRUMENTATION AND CONTROLS
HEP ST4	1/22/2018	PPO	0.50	13.2	TRAVELING SCREEN FOULING
HEP ST4	2/2/2018	PPO	1.10	31.2	TRAVELING SCREEN FOULING
HEP ST4	2/22/2018	PPO	1.00	37.2	TRAVELING SCREEN FOULING
HEP ST4	3/6/2018	PPO	1.00	29.2	TRAVELING SCREEN FOULING