

JUNE 10, 2014

**WHEELABRATOR SOUTH BROWARD
ANNUAL GAS CAPACITY FACTOR
2014 (AIR1593)**

UNIT 1

	Gas Cu. Ft	Gas Million Cu. Ft	Gas Million BTU's
January	894705	0.89	934.25
February	1226053	1.23	1,280.24
March	645723	0.65	674.26
April	6769434	6.77	7,068.64
May	5423310	5.42	5,663.02
June		0.00	0.00
July		0.00	0.00
August		0.00	0.00
Sept		0.00	0.00
October		0.00	0.00
November		0.00	0.00
December		0.00	0.00

TOTAL	14959225	14.96	15620.42
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2649900

Potential heat input per year:
(302.5 MMBtu/hr) (8760 hrs/yr)

0.59

Annual Gas Capacity Factor:
(Gas MMBtu)/(Potential MMBtu)*100

UNIT 2

	Gas Cu. Ft	Gas Million Cu. Ft	Gas Million BTU's
January	391106	0.39	408.39
February	1923888	1.92	2,008.92
March	820426	0.82	856.69
April	369303	0.37	385.63
May	1792088	1.79	1,871.30
June		0.00	0.00
July		0.00	0.00
August		0.00	0.00
Sept		0.00	0.00
October		0.00	0.00
November		0.00	0.00
December		0.00	0.00

TOTAL	5296811	5.30	5530.93
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2649900

Potential heat input per year:
(302.5 MMBtu/hr) (8760 hrs/yr)

0.21

Annual Gas Capacity Factor:
(Gas MMBtu)/(Potential MMBtu)*100

UNIT 3

	Gas Cu. Ft	Gas Million Cu. Ft	Gas Million BTU's
January	1281188	1.28	1,337.82
February	234059	0.23	244.40
March	142851	0.14	149.17
April	2567263	2.57	2,680.74
May	663602	0.66	692.93
June		0.00	0.00
July		0.00	0.00
August		0.00	0.00
Sept		0.00	0.00
October		0.00	0.00
November		0.00	0.00
December		0.00	0.00

TOTAL	4888963	4.89	5105.06
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2649900

Potential heat input per year:
(302.5 MMBtu/hr) (8760 hrs/yr)

0.19

Annual Gas Capacity Factor:
(Gas MMBtu)/(Potential MMBtu)*100

**WHEELABRATOR SOUTH BROWARD
GAS USED PER MONTH
CALCULATION SHEET**

MONTH/YEAR	May-14
Gas used (from Ops Stats) (in hundreds of cu. ft.)	78790
Gas used (from Ops Stats) (in cu. ft.)	7879000
Unit 1 burner run time (in hrs) (from ops daily report)	164.84
Unit 2 burner run time (in hrs) (from ops daily report)	54.47
Unit 3 burner run time (in hrs) (from ops daily report)	20.17
Facility total burner run time (in hrs)	239.48
Gas used in Unit 1 (in cu. ft.)	5423310
Gas used in Unit 2 (in cu. ft.)	1792088
Gas used in Unit 3 (in cu. ft.)	663602

	Gross MWH	Station Service	Net MWH	Net KWH per Ton	Total TG
	TG	MWH			Capacity
	T				Factor
2011	481,699.20	57,416.20	424,558.79	533.31	83.21%
2012	468,406.70	57,363.30	412,283.55	521.78	80.69%
2013	441,850.70	53,333.40	388,543.60	547.90	76.32%
January	30,813.40	4,034.50	26,782.90	530.59	62.67%
February	28,827.00	3,809.40	25,017.60	551.21	64.91%
March	42,244.20	4,717.20	37,526.90	570.35	85.92%
April	33,444.10	4,260.80	29,183.30	556.64	70.29%
May	37,238.60	4,707.10	32,531.50	553.10	75.74%
Month v Plan	7,647.69	(838.10)	6,809.59	19.70	15.55%
Q 1	101,884.60	12,561.10	89,327.40	552.56	71.37%
Q 2	70,682.70	8,967.90	61,714.80	554.77	73.06%
YTD	172,567.30	21,529.00	151,042.20	553.46	72.05%
YTDvPlan	46,919.91	(1,842.00)	45,081.81	28.04	19.59%

	Utilities Purchased						
	City Water	Fire Water	Cooling Tower Supply	Cooling Tower Return	Cooling Water	Sewer	Gas
2011	92,530.00	13.13				2,726.46	392,830.00
2012	82,662.00	1,731.99				3,147.51	470,010.00
2013	74,087.00	26.44				1,718.65	696,350.00
January	5,134.00	.36				137.17	25,670.00
February	5,068.00	1.71				122.99	33,840.00
March	6,510.00	.25				121.38	16,090.00
April	5,361.00	.26				147.65	97,060.00
May	6,334.00	.73				169.20	78,790.00
Month v Plan	5,994.00	(.73)	0	0		450.80	(23,790.00)
Q 1	16,712.00	2.32				381.54	75,600.00
Q 2	11,695.00	.99				316.85	175,850.00
YTD	28,407.00	3.31				698.39	251,450.00
YTDvPlan	29,726.00	(3.31)	0	0		2,321.61	(134,950.00)



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**Wheelabrator South Broward
Daily Totals Log**

6/1/2014 1:01 AM

End Time 6/1/2014 0:00
Start Time 5/31/2014 0:00

Boiler Data:

	<u>Boiler-1</u>	<u>Boiler-2</u>	<u>Boiler-3</u>		
Steam Flow	0.00	3608.23	4199.17	KLbs / total	
Superheater Vent Flow	0.00	0.00	0.00	KLbs / total	
Feedwater Flow	0.00	3886.54	4474.55	KLbs / total	
Total Air Flow	0.01	73.65	69.36	KSCF / avg	
Final Steam Temperature	496.95	820.43	822.03	DEG F /avg	
Accumulated Burner Run Time	164.84	54.47	20.17	Hrs	239.48 Monthly Total
Burner Gas Flow	0.00	0.00	0.00	KSCF / total	
Fabric Fil Comp Cleaned	0.00	22.00	321.00	Cycles	
Fabric Filter DP	0.86	6.11	7.91	" H2O / avg	
ID Fan Speed	295.97	755.35	816.32	RPM / avg	
ID Fan Load	38.54	61.15	66.33	AMPS / avg	
Urea Usage	0.00	15.71	70.16	Gallons / total	85.88 Daily Total
SNCR H2O Usage	0.00	2825.17	4518.97	Gallons / total	7344.14 Daily Total
Inlet O2	20.86	6.55	4.93	% / avg	
Inlet Dry O2	25.75	8.09	6.09	% / avg	
Outlet O2	19.27	9.53	7.76	% / avg	
Outlet CO	2497.66	12.21	10.21	PPM / avg	
Outlet CO2	1.55	10.27	11.78	% / avg	
Outlet SO2	79.04	3.07	11.87	PPM / avg	
Outlet NOX	309.47	196.45	197.03	PPM / avg	
Furnace Gas Exit Temp	249.31	1395.24	1579.45	DEG F /avg	
Superheater Diff. Press.	-0.14	0.04	0.03	" H2O D/P	
Generator Diff. Press.	0.13	0.49	0.56	" H2O D/P	
Economizer Diff Press.	0.22	-0.59	0.39	" H2O D/P	

	A Train	B Train	C Train	D Train
Carbon Feed Rate	6.05	6.12	0.04	0.03
Carbon Silo Level	44.10%			

Lime Usage	0.00	6.25	6.74	TONS	13.00 Daily Total
Lime Slurry Usage	0.00	15602.50	16772.69	GALLONS	32375.19 Daily Total
Lime Slurry Specific Gravity	1.058	System Specific Gravity			
Lime Slurry Density Meter	1.058	Density Meter Specific Gravity			

Boiler Common:

Turbine Steam Flow	7454.66	KLbs / total
1st Extraction Steam Flow	15.30	KLbs / total
2nd Extraction Steam Flow	1057.47	KLbs / total
3rd Extraction Steam Flow	4.91	KLbs / total
Generator MegaWatts	826.44	MW
TG Conversion Rate	9.02	
T/G Vacuum	24.02	"Hg
ACC Step Number	29.00	

Cooling Water Total Flow	#NULL!	Gallons / total
TG Steam Temp.	835.61	DEG F /avg
TG Steam Pressure	852.00	PSIG /avg
TG Gross Megawatts	34.43	MW/avg
TG Export Megawatts	29.37	MW/avg