

5/8/12

WHEELABRATOR SOUTH BROWARD
ANNUAL GAS CAPACITY FACTOR
2012 (AIR1593)

5/8/12

UNIT 3

	Gas Cu. Ft	Gas Million Cu. Ft	Gas Million BTU's
January	222379	0.22	232.21
February	1048985	1.05	1,095.35
March	894903	0.89	934.46
April	69861	0.07	72.95
May		0.00	0.00
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	2236128	2.24	2334.96

UNIT 2

	Gas Cu. Ft	Gas Million Cu. Ft	Gas Million BTU's
January	812385	0.81	848.29
February	100291	0.10	104.72
March	441784	0.44	461.31
April	342928	0.34	358.09
May		0.00	0.00
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	1697388	1.70	1772.41

UNIT 1

	Gas Cu. Ft	Gas Million Cu. Ft	Gas Million BTU's
January	431235	0.43	450.30
February	485724	0.49	507.19
March	540313	0.54	564.19
April	432211	0.43	451.31
May		0.00	0.00
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	1889483	1.89	1973.00

2649900

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

0.09

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

2649900

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

0.07

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

2649900

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

0.07

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

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

MONTH/YEAR	Apr-12
Gas used (from Ops Stats) (in hundreds of cu. ft.)	8450
Gas used (from Ops Stats) (in cu. ft.)	845000
Unit 1 burner run time (in hrs) (from ops daily report)	14.91
Unit 2 burner run time (in hrs) (from ops daily report)	11.83
Unit 3 burner run time (in hrs) (from ops daily report)	2.41
Facility total burner run time (in hrs)	29.15
Gas used in Unit 1 (in cu. ft.)	432211
Gas used in Unit 2 (in cu. ft.)	342928
Gas used in Unit 3 (in cu. ft.)	69861

**Wheelabrator South Broward
Daily Totals Log**

5/1/2012 1:03 AM

End Time 5/1/2012 0:00
Start Time 4/30/2012 0:00

Boiler Data:

	<u>Boiler-1</u>	<u>Boiler-2</u>	<u>Boiler-3</u>		
Steam Flow	4115.61	4282.05	3701.82	KLbs / total	
Superheater Vent Flow	0.00	0.00	0.00	KLbs / total	
Feedwater Flow	4239.15	4414.68	3803.89	KLbs / total	
Total Air Flow	79.54	76.68	73.70	KSCF / avg	
Final Steam Temperature	824.41	787.18	816.13	DEG F / avg	
Accumulated Burner Run Time	14.91	11.83	2.41	Hrs	29.15 Monthly Total
Burner Gas Flow	23.57	2.66	32.53	KSCF / total	
Fabric Fil Comp Cleaned	85.00	144.00	68.00	Cycles	
Fabirc Filter DP	6.66	7.12	6.57	" H2O / avg	
ID Fan Speed	841.65	908.10	782.63	RPM / avg	
ID Fan Load	72.88	79.49	64.90	AMPS / avg	
Urea Usage	347.51	76.49	360.36	Gallons / total	784.35 Daily Total
SNCR H2O Usage	14009.27	8268.48	12310.58	Gallons / total	34588.33 Daily Total
Inlet O2	5.67	6.17	7.13	% / avg	
Inlet Dry O2	7.01	7.62	8.81	% / avg	
Outlet O2	9.35	9.29	10.43	% / avg	
Outlet CO	11.86	17.67	19.13	PPM / avg	
Outlet CO2	10.77	10.29	9.51	% / avg	
Outlet SO2	1.03	2.90	1.01	PPM / avg	
Outlet NOX	196.05	194.74	196.41	PPM / avg	
Furnace Gas Exit Temp	1525.72	1321.46	1541.48	DEG F / avg	
Superheater Diff. Press.	-0.18	0.17	0.12	" H2O D/P	
Generator Diff. Press.	0.83	0.57	0.55	" H2O D/P	
Economizer Diff Press.	0.06	3.41	0.50	" H2O D/P	

	A Train	B Train	C Train	D Train
Carbon Feed Rate	7.06	7.00	6.96	0.02
Carbon Silo Level	73.32%			

Lime Usage	5.22	6.35	9.46	TONS	21.03 Daily Total
Total Lime Usage (Gallons)	9065.82	11043.75	16457.18	Gallons	
Lime Slurry Specific Gravity	1.110 System Specific Gravity				
Lime Slurry Density Meter	1.110 Density Meter Specific Gravity				

Boiler Common:

Turbine Steam Flow	11819.98	KLbs / total
1st Extraction Steam Flow	272.76	KLbs / total
2nd Extraction Steam Flow	949.57	KLbs / total
3rd Extraction Steam Flow	78.35	KLbs / total
Generator MegaWatts	1322.02	MW
TG Conversion Rate	8.94	
T/G Vacuum	27.13	"Hg
ACC Step Number	29.00	

Cooling Water Total Flow	43673.30	Gallons / total
TG Steam Temp.	817.16	DEG F / avg
TG Steam Pressure	833.07	PSIG / avg
TG Gross Megawatts	55.12	MW/avg
TG Export Megawatts	48.98	MW/avg

	Gross MWH	Station Service MWH	Net MWH	Net KWH per Ton	Total TG
	TG				Capacity
	1				Factor
2009	458,144.80	51,708.00	406,469.52	517.34	79.14%
2010	487,572.80	55,921.50	431,788.15	551.58	84.22%
2011	481,699.20	57,416.20	424,558.79	533.31	83.21%
January	29,746.90	4,725.30	26,261.15	415.89	60.50%
February	37,534.50	4,572.60	32,962.30	542.29	81.60%
March	40,902.40	4,782.50	36,120.40	541.22	83.19%
April	39,146.20	4,860.00	34,285.40	499.19	82.27%
Month v Plan	(4,300.66)	(180.00)	(4,481.46)	(61.68)	(9.04%)
Q 1	108,183.80	14,080.40	95,343.85	500.05	74.95%
Q 2	39,146.20	4,860.00	34,285.40	499.19	82.27%
YTD	147,330.00	18,940.40	129,629.25	499.82	76.77%
YTDvPlan	(14,914.90)	(220.40)	(13,895.65)	(47.59)	(7.77%)

	Utilities Purchased							Purchased Power
	City Water	Fire Water	Cooling Tower Supply	Cooling Tower Return	Cooling Water	Sewer	Gas	
2009	85,573.00	49.67				8,523.00	494,470.00	3,811.20
2010	89,129.00	28.11				8,370.00	591,130.00	182.40
2011	92,530.00	13.13				2,726.46	392,830.00	710.40
January	7,221.00	.26				1,017.27	14,660.00	1,152.00
February	6,561.00	.49				900.28	16,350.00	0
March	7,766.00	.42				140.46	18,770.00	0
April	7,055.00	1,722.96				127.25	8,450.00	0
Month v Plan	7,356.00	(1,722.96)	0	0		472.75	7,050.00	0
Q 1	21,548.00	1.17				2,058.01	49,780.00	1,152.00
Q 2	7,055.00	1,722.96				127.25	8,450.00	0
YTD	28,603.00	1,724.13				2,185.26	58,230.00	1,152.00
YTDvPlan	29,056.00	(1,724.13)	0	0		234.74	20,270.00	(996.00)