Parthenon Prints
909 West 39th Street
Panama City, Florida 32402

Permit Application No.: 0050026-006-AO
Dated: December 21, 2012

Fabric Printer Dryer

Max Capacity	2.8	MMBtu/hour
Primary Fuel	Natural Gas	
Secondary Fuel		
Sulfur Content Fuel Oil		
No. 2 Fuel Oil Weight		
Heat Content of Natural Gas	1,050	Btu/cf
Heat Content of Fuel Oil		
Natural Gas Hourly Consum.	2,667	cf/hour
Fuel Oil Hourly Consumption		
Max Hours of Operation	8,760	Hours/Year

New Fabric Printing Press/Dryer

Max Capacity	4.1	MMBtu/hour
Primary Fuel	Natural Gas	
Secondary Fuel		
Sulfur Content Fuel Oil		
No. 2 Fuel Oil Weight		
Heat Content of Natural Gas	1,050	Btu/cf
Heat Content of Fuel Oil		
Natural Gas Hourly Consum.	3,905	cf/hour
Fuel Oil Hourly Consumption	233	gal/hour
Max Hours of Operation	8,760	Hours/Year

AP-42 Emission Factors (Natural Gas)

NO_x	0.0001	lb/scf
CO	0.000084	lb/scf
SO_2	0.0000006	lb/scf
PM	0.0000076	lb/scf
VOC	0.0000055	lb/scf

Old Fabric Printing Press Loop Dryer

Max Capacity	4.1	MMBtu/hour
Primary Fuel	Natural Gas	
Secondary Fuel	No. 2 Fuel oil	
Sulfur Content Fuel Oil	0.0005	S (0.05 %)
No. 2 Fuel Oil Weight	7.206	lb/gal
Heat Content of Natural Gas	1,050	Btu/cf
Heat Content of Fuel Oil	140,360	Btu/gal
Natural Gas Hourly Consum.	3,905	cf/hour
Fuel Oil Hourly Consumption	32	gal/hour
Max Hours of Operation	8,760	Hours/Year

Fabric Tenner Dryer

Max Capacity	9.60	MMBtu/hour
Primary Fuel	Natural Gas	
Heat Content of Natural Gas	1,000	Btu/cf
Natural Gas Hourly Consum.	9,143	cf/hour
Max Hours of Operation	8,760	Hours/Year

350 Hp Steam Boiler

Max Capacity	0.90	MMBtu/hour
Primary Fuel	Natural Gas	
Heat Content of Natural Gas	1,000	Btu/cf
Natural Gas Hourly Consum.	857	cf/hour
Max Hours of Operation	8,760	Hours/Year

200 Hp Steam Boiler

Max Capacity	0.500	MMBtu/hour
Primary Fuel	Natural Gas	
Heat Content of Natural Gas	1,050	Btu/cf
Natural Gas Hourly Consum.	476	cf/hour
Max Hours of Operation	8,760	Hours/Year

Wallpaper Printer/Dryer

Max Capacity	3.360	MMBtu/hour
Primary Fuel	Natural Gas	
Heat Content of Natural Gas	1,050	Btu/cf
Natural Gas Hourly Consum.	3,200	cf/hour
Max Hours of Operation	8,760	Hours/Year

ALL DRYERS BURNING NATURAL GAS

Particulate Matter (PM) Emissions

(18,915 scf/hr)(8,760 hr/yr)(0.0000076 lb/scf)(1 ton/2,000 lb) = **0.80 Tons/Yr**

Nitrogen Oxides (NO_x) Emissions

(18,915 scf/hr)(6,000 hr/yr)(0.0001 lb/scf)(1 ton/2,000 lb) = **5.67 Tons/Yr**
(18,915 scf/hr)(8,760 hr/yr)(0.0001 lb/scf)(1 ton/2,000 lb) = **8.28 Tons/Yr**
(18,915 scf/hr)(2,000 hr/yr)(0.0001 lb/scf)(1 ton/2,000 lb) = **1.89 Tons/Yr**

Carbon Monoxide (CO) Emissions

(18,915 scf/hr)(8,760 hr/yr)(0.000084 lb/scf)(1 ton/2,000 lb) = **6.96 Tons/Yr**

Sulfur Dioxide (SO_2) Emissions

SO_2 calculation based on the boiler burning Natural Gas.

(18,915 scf/hr)(8,760 hr/yr)(0.0000006 lb/scf)(1 ton/2,000 lb) = **0.05 Tons/Yr**

Volatile Organic Compounds (VOC) Emissions

(18,915 scf/hr)(8,760 hr/yr)(0.0000055 lb/scf)(1 ton/2,000 lb) = **0.46 Tons/Yr**