

Emissions Summary
Arglass Yamamura, LLC
Valdosta, Georgia

Forehearths LT11, LT12 and LT13

<i>Firing Rate and Fuel Use: ⁽¹⁾</i>	
Maximum Firing Rate (MMScf/hr)	0.011
Average Firing Rate (MMScf/hr)	0.006
Heating value of Fuel (MMBtu/MMScf)	1,020
Total Firing Rate For Three Forehearths (MMBtu/hr)	11.4
Total Annual Operating Hours (hr/yr)	8,760
Permitted Annual Heat Input (MMBtu/yr)	53,652
Permitted Annual Fuel Usage (MMScf/yr)	52.6
<i>Emission Factors (lb/MMscf) ⁽²⁾</i>	
CO	84
NOx	100
SO2	0.6
FPM/PM-10/PM-2.5	7.6
VOC	5.5
Total HAP	1.89
<i>Emission Factors (ton/MMBtu) ⁽³⁾</i>	
CO ₂	5.84E-02
CH ₄	1.10E-06
N ₂ O	1.10E-07
<i>Hourly Emissions (lb/hr)</i>	
CO	0.94
NOx	1.118
SO2	0.007
FPM/PM-10/PM-2.5	0.085
VOC	0.061
Total HAP	0.021
<i>Annual Emissions (TPY)</i>	
CO	2.21
NOx	2.630
SO2	0.016
FPM/PM-10/PM-2.5	0.200
VOC	0.145
Total HAP	0.093
CO ₂ e	3,138.9

Notes:

- (1) Heat Inputs and firing rates are calculated for three (3) forehearths combined.
- (2) Emission factors are based on AP-42 Table 1.4-2 natural gas combustion for small boilers (<100 Mmbtu/hr)
- (3) Calculated based on emission factors in 40 CFR 98 Subpart C, Tables C-1 & C-2