

Emissions Summary
Arglass Yamamura, LLC
Valdosta, Georgia

Table 2-B

Forehearths LT11, LT12 and LT13 during Emergency Backup Fuel Firing

Firing Rate and Fuel Use (Liquified Petroleum Gas (LPG)): ⁽¹⁾	
Maximum Fuel Rate (gal/hr)	60
Heating value of Fuel (BTU/gal) ⁽²⁾	95,045
Total Firing Rate For Three Forehearths (MMBtu/hr)	5.7
Total Annual Operating Hours (hr/yr)	160
Permitted Annual Heat Input (MMBtu/yr)	912
Permitted Annual Fuel Usage (gal/yr)	9,595
Emission Factors (lb/Mgal) ⁽³⁾	
CO	7.5
NOx	13
SO2	0.0019
FPM/PM-10/PM-2.5	0.7
VOC	0.8
Emission Factors (ton/MMBtu) ⁽³⁾	
CO ₂	5.84E-02
CH ₄	1.10E-06
N ₂ O	1.10E-07
Hourly Emissions (lb/hr)	
CO	0.45
NOx	0.780
SO2	0.000
FPM/PM-10/PM-2.5	0.042
VOC	0.048
Annual Emissions (TPY)	
CO	0.036
NOx	0.062
SO2	0.000
FPM/PM-10/PM-2.5	0.003
VOC	0.004
CO ₂ e	53.4

Notes:

- (1) Heat Inputs and firing rates are calculated for three (3) forehearths combined.
- (2) Heating value of LPG will be adjusted via mixers such that it is equivalent to the heating value of natural gas. The heating value of 1020 BTU/SCF for natural gas is converted to BTU/gal using the densities of 0.044 lb/scf for natural gas and 4.1 lb/gal for LPG.
- (3) Emission factors are based on AP-42 Table 1.5-1 for LPG combustion for commercial boilers; calculations assume a sulfur content of 185 ppmw per Gas Processors Association.
- (4) Calculated based on emission factors in 40 CFR 98 Subpart C, Tables C-1 & C-2