Forehearth Emission Summary Arglass Yamamura, LLC. Valdosta Georgia

iring Rate and Fuel Use (Liquified Petroleum Gas (LPG)): ⁽¹⁾	
Maximum Fuel Rate (gal/hr)	144
Heating value of Fuel (BTU/gal) ⁽²⁾	95,045
Total Firing Rate for 4 Forehearths (MMBtu/hr)	13.7
Total Annual Operating Hours (hr/yr)	160
Maximum Annual Heat Input (MMBtu/yr)	2,184
Maximum Annual Fuel Usage (gal/yr)	22,978
mission Factors (lb/Mgal) ⁽³⁾	
СО	7.5
NOx	13
SO2	0.002
PM/PM-10/PM-2.5	0.7
VOC	0.8
ourly Emissions (lb/hr)	
СО	1.08
NOx	1.867
SO2	0.000
PM/PM-10/PM-2.5	0.101
VOC	0.115
nnual Emissions (TPY)	
СО	0.086
NOx	0.149
SO2	0.000
	2.222
PM/PM-10/PM-2.5	0.008

Forehearths LT11, LT12 and LT13 during Emergency Backup Fuel Firing

Notes:

(1) Heat Inputs and firing rates are calculated for four (4) 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.

(3) Calculated based on emission factors in 40 CFR 98 Subpart C, Tables C-1 & C-2