## Emissions Summary Arglass Yamamura, LLC Valdosta, Georgia

## Three (3) Cooling Towers from cooling water system; Concept two operating one standby

each: water circulation = 470m3/h => in operation 940 m3/h

15.67 m3/min 4

4139 gpm

Operating A	Operating Time	
Amount Processed	Units	Hours
36,254,975	Gallons/yr	8760

Air Contaminant	PTE Tons/yr	Calculation	<b>Emission Factors</b>	Units
		Methodology		
PM-10	0.14	Mass Balance	0.031	lb/hr
PM-2.5	0.14	Mass Balance	0.031	lb/hr
FPM	0.14	Mass Balance	0.031	lb/hr
VOC	0.005	Mass Balance	0.001	lb/hr

## Calculation of lb/hr Emissions

4,139	gpm $@88 \text{ degrees F} = 3$	1400
	gpm @88 degrees $F = 3$	31°C
0.42	m3/min	
3,000	ppmv	
100.0	ppmv	
0.0005%	Drift in Cooling Towers	
0.031	lb/hr based on 3,000 ppmv of total solids in co	cooling water
0.001	lb/hr based on 100 ppmv of VOCs in cooling	0
	3,000 100.0 0.0005%	3,000 ppmv 100.0 ppmv 0.0005% Drift in Cooling Towers  0.031 lb/hr based on 3,000 ppmv of total solids in cooling Towers

Methodology

 $\frac{3}{4,139 \text{ gpm x } 60 \text{ minutes/hour x } 0.000005}$  (% drift) x 3.8 L/Gal x 2.2e-6 lb/mg x 3000 ppmv = 0.83 lb/hr of PM

4,139 gpm x 60 minutes/hour x 0.000005 (% drift) x 3.8 L/Gal x 2.2e-6 lb/mg x 100 ppmv = 0.001 lb/hr of VOC