

Emissions Summary
Arglass Yamamura, LLC
Valdosta, Georgia

Two (2) Cooling Towers of process water system; Concept one operating one standby
 each 5000KW cooling capacity ; water circulation = 240m3/h

4.00 m3/min 1057 gpm

Operating Amount		Operating Time Hours
Amount Processed	Units	
9,256,589	Gallons/yr	8760

Air Contaminant	PTE Tons/yr	Calculation Methodology	Emission Factors	Units
PM-10	0.03	Mass Balance	0.008	lb/hr
PM-2.5	0.03	Mass Balance	0.008	lb/hr
FPM	0.03	Mass Balance	0.008	lb/hr
VOC	0.001	Mass Balance	0.0003	lb/hr

Calculation of lb/hr Emissions

	9256589.333		
Average Circulating Water Flow Rate	1,057	gpm	@88 degrees F = 31°C
	0.42	m3/min	
Average Annual Solid Concentration in water	3,000	ppmv	
Average Annual VOC Concentration in water	100.0	ppmv	
	0.0005%	Drift in Cooling Towers	
	FPM/PM10/PM2.5	0.008	lb/hr based on 3,000 ppmv of total solids in cooling water
	VOC	0.0003	lb/hr based 100 ppmv of VOCs in cooling water
<u>Methodology</u>			
1,057 gpm x 60 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			
1,057 gpm x 60 minutes/hour x 0.000005 (% drift) x 3.8 L/Gal x 2.2e-6 lb/mg x 100 ppmv = 0.0003 lb/hr of VOC			