Cooling Tower Emission Summary Arglass Yamamura, LLC. Valdosta Gerorgia

A: Two (2) Open Circuit Non-Contact Cooling Towers of process water system; Concept one operating one standby

Number of Cooling Towers in Operation One Cooling Tower Water Circulating Rate 1 and an additional one on standby 370 cubic meter/hr/cooling tower at 5000kW cooling capacity 6.2 cubic meter/min/cooling tower 1,629 gal/min/cooling tower 97,744 gal/hr/cooling tower

Operating Amount p	Operating Amount per Cooling Tower	
Amount Processed	Units	Hours
856,234,513	Gallons/yr	8760

Air Contaminant	Emission Factors per Cooling Tower (lb/hr)	PTE (ton/yr/tower)	PTE from Operating Towers (ton/yr)
PM-10	0.489	2.14	2.14
PM-2.5	0.489	2.14	2.14
PM	0.489	2.14	2.14
VOC	0.0163	0.07	0.07

Average Circulating Water 1	Flow Rate	97,744	$gal/hr/cooling$ tower @88 degrees F = $31^{\circ}C$
Average Annual Solid Cond	centration in water	3,000	ppmv
Average Annual VOC Concentration in water	100.0	ppmv	
		0.020%	AP-42 Table 13.4-1 for induced draft drift in cooling towers
Drift Volume		19.55	gal/hr/cooling tower
Water Density		8.3453	lb/gal
Drift Mass		163.14	lb/hr/cooling tower
PI	M/PM10/PM2.5	0.4894	lb/hr based on 3,000 ppmv of total solids in cooling water
V	OC	0.0163	lb/hr based 100 ppmv of VOCs in cooling water
Methodology			

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