Emissions Summary Arglass Yamamura, LLC Valdosta, Georgia

Three (3) Cooling Towers from cooling water system; Concept two operating one standbyeach: water circulation = 470m3/h => in operation 940 m3/h15.67 m3/min

4139 gpm

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

| Air Contaminant | PTE Tons/yr | Calculation Methodology | Emission Factors | Units |
|-----------------|-------------|----------------------------|------------------|-------|
| 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

| | 36254974 | 89 | | |
|---|-----------------|--|--|--|
| Average Circulating Water Flow Rate | 4,139 | gpm | $@88 \text{ degrees F} = 31^{\circ}\text{C}$ | |
| | 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 Tow | 7ers | |
| FPM/PM10/PM2.5 0.03 | | lb/hr based on 3,000 | ppmv of total solids in cooling water | |
| VOC | 0.001 | lb/hr based on 100 ppmv of VOCs in cooling water | | |
| Methodology | | | | |
| 4,139 gpm x 60 minutes/hour x 0.000005 (% drift |) x 3.8 L/Gal x | 2.2e-6 lb/mg x 3000 ppm | nv = 0.83 lb/hr of PM | |
| 4,139 gpm x 60 minutes/hour x 0.000005 (% drift | , . | | | |
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