

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 21826

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
F-1	Melting Furnace 1	PM ₁₀	0.70	3.05
		VOC	0.04	0.19
		NO _x	2.06	9.03
		SO ₂	0.01	0.04
		CO	0.52	2.26
		HF	0.02	0.09
F-2	Melting Furnace 2	PM ₁₀	0.45	1.97
		VOC	0.02	0.11
		NO _x	1.23	5.41
		SO ₂	0.01	0.03
		CO	0.31	1.35
		HF	0.01	0.06
F-3	Melting Furnace 3	PM ₁₀	0.27	1.18
		VOC	0.02	0.07
		NO _x	0.82	3.61
		SO ₂	<0.01	0.02
		CO	0.21	0.90
		HF	0.01	0.04
F-4	Melting Furnace 4	PM ₁₀	0.70	3.05
		VOC	0.04	0.19
		NO _x	2.06	9.03
		SO ₂	0.01	0.04
		CO	0.52	2.26
		HF	0.02	0.09
WE-1	Water Evaporator (SAMSCO) Stack	PM ₁₀	0.01	0.04
		VOC	<0.01	0.01

VOC (a)	<0.01	<0.01
NO _x	0.08	0.33
SO ₂	<0.01	<0.01
CO	0.02	0.07

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
WE-2	Water Evaporator (Landa) Stack	PM ₁₀	<0.01	0.03
		VOC	<0.01	0.01
		VOC (a)	<0.01	<0.01
		NO _x	0.06	0.25
		SO ₂	<0.01	<0.01
		CO	0.01	0.05

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources use area name or fugitive source name.
- (3) PM₁₀ - particulate matter less than 10 microns in diameter
 VOC - volatile organic compounds as defined in General Rule 101.1
 VOC(a) - for VOC emitted during evaporation process
 NO_x - total oxides of nitrogen
 SO₂ - sulfur dioxide
 CO - carbon monoxide
 HF - hydrogen fluoride

* Emission rates are based on and the furnaces are limited to the maximum hourly aluminum production of 4,500 pounds for Furnace 1, 3,000 pounds for Furnace 2, 1,800 pounds for Furnace 3, and 4,500 pounds for Furnace 4 with a maximum annual plant throughput of 45,000,000 pounds of aluminum.

Hrs/day___Days/week___Weeks/year___or Hrs/year 8,760

* Additionally, emission rates are based on and the water evaporators are limited to the maximum hourly wastewater throughput of 63 gallons for the SAMSCO water evaporator and 50 gallons for the Landa water evaporator with a maximum annual plant throughput of 989,880 gallons.

Hrs/day___Days/week___Weeks/year___or Hrs/year 8,760

Dated_____