

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

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		Air Contaminant		<u>Emission Rates *</u>	
	Name (2)	Name (3)	lb/hr	TPY		
F-1	Melting Furnace 1		TSP		0.57	2.49
			PM10		0.57	2.49
			VOC		0.04	0.18
			NOx		2.06	9.03
			SO2		0.01	0.03
			CO		0.52	2.26
			HF		<0.001	<0.01
F-2	Melting Furnace 2		TSP		0.37	1.64
			PM10		0.37	1.64
			VOC		0.02	0.11
			NOx		1.23	5.41
			SO2		0.01	0.03
			CO		0.31	1.35
			HF		<0.001	<0.01
F-3	Melting Furnace 3		TSP		0.23	1.00
			PM10		0.23	1.00
			VOC		0.02	0.07
			NOx		0.82	3.61
			SO2		<0.01	0.02
			CO		0.21	0.90
			HF		<0.001	<0.01
WE-1	Water Evaporator Stack		TSP		0.009	0.04
			PM10		0.006	0.02
			VOC		<0.01	<0.02
			VOC (a)		<0.01	<0.01
			NOx		0.08	0.32

CO	0.02	0.07
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- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.

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- (2) Specific point source name. For fugitive sources use area name or fugitive source name.
- (3) TSP - total suspended particulate including PM10
PM10 - particulate matter less than 10 microns
VOC - volatile organic compounds as defined in General Rule 101.1
VOC(a) - for VOC emitted during evaporation process
NOx - 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 and 1,800 pounds for Furnace 3 with a maximum annual plant throughput of 6,000,000 pounds of aluminum.
- Hrs/day___Days/week___Weeks/year___or Hrs/year 8,760
- * Additionally, emission rates are based on and the water evaporator is limited to the maximum wastewater throughput of 63 gallons per hour and 550,000 gallons per year.
- Hrs/day 24 Days/week 7 Weeks/year 50 or Hrs/year 8,400

Revised_____