

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 9863

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		
1 THRU 12	ALUMINUM HOLDING FURNACES (4)		TSP		0.122	0.389
			PM ₁₀		0.122	0.389
			SO ₂		0.0004	0.0017
			NO _x		0.0111	0.0477
			CO		0.0176	0.0758
			VOC		0.0038	0.0163
1A	MAGNESIUM ELECTRIC FURNACE NO. 1 (4)		TSP		0.55	1.72
			PM ₁₀		0.55	1.72
1B	MAGNESIUM ELECTRIC FURNACE NO. 2 (4)		TSP		0.55	1.72
			PM ₁₀		0.55	1.72
13	6,000 POUND REVERBERATORY FURNACE (4)		TSP		0.364	1.074
			PM ₁₀		0.364	1.074
			SO ₂		0.001	0.0043
			NO _x		0.0275	0.1229
			CO		0.0437	0.1953
			VOC(METHANE)		0.0094	0.0420
14	10,000 POUND REVERBERATORY FURNACE NO. 1 (4)		TSP		1.539	4.831
			PM ₁₀		1.539	4.831
			SO ₂		0.0015	0.0066
			NO _x		0.0275	0.1229
			CO		0.0437	0.1953
			VOC(METHANE)		0.0094	0.0420
15	10,000 POUND REVERBERATORY FURNACE NO. 2 (4)		TSP		1.539	4.831
			PM ₁₀		1.539	4.831
			SO ₂		0.0015	0.0066
			NO _x		0.0275	0.1229

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *		
			lb/hr	TPY	
F1	ALUMINUM DIE LUBRICANT (4)	VOC	CO	0.0437	0.1953
			VOC (METHANE)	0.0094	0.0420
F2	MAGNESIUM DIE LUBRICANT (4)	VOC	0.35	0.94	
F3	HEAT TREATING OVENS	STANDARD EXEMPTION NO. 57			

- (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) TSP - total suspended particulate matter including PM₁₀
 PM₁₀ - particulate matter less than 10 microns in diameter
 VOC - volatile organic compounds as defined in General Rule 101.1
 NO_x - total oxides of nitrogen
 SO₂ - sulfur dioxide
 CO - carbon monoxide
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

* Emission rates are based on and the facilities are limited by the following maximum operating schedule, melt rates and die lubricant usage rates:

Hrs/day 24 Days/week 5 Weeks/year 52

Aluminum melt rates: pounds/hour 800 tons/year 2,000

Magnesium melt rates: pounds/hour 550 tons/year 1,500

Die lubricant usage rates: Al dies @ 0.85 lbs/hour 5,280 lbs/year

Mg dies @ 0.30 lbs/hour 1,870 lbs/year

Dated_____

