

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. T-19438

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)	Emission Rates *	
			lb/hr	TPY
M1	M1 Furnace Stack	PM ₁₀ **	0.48	2.10
		NO _x	0.23	1.01
		SO ₂	<0.002	<0.006
		CO	0.048	0.21
		VOC	0.018	0.08
M2	M2 Furnace Stack	PM ₁₀ **	0.19	0.83
		NO _x	<0.07	0.29
		SO ₂	<0.001	<0.002
		CO	0.014	0.06
		VOC	0.005	0.023
M3	M3 Furnace Stack	PM ₁₀ **	0.38	1.66
		NO _x	0.13	0.58
		SO ₂	<0.001	<0.004
		CO	0.028	0.12
		VOC	0.011	0.047
RF1	Reclaim Furnace Stack	PM ₁₀ **	0.19	0.83
		NO _x	<0.07	0.29
		SO ₂	<0.001	<0.002
		CO	0.014	0.06
		VOC	0.005	0.023
A1 through A11, A13, A16, and A17	Die Cast Machine (5 and 8) Stack		PM ₁₀	0.006
		NO _x	0.05	0.22
		SO ₂	<0.001	<0.002
		CO	0.01	0.046
		VOC	<0.004	<0.018

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
D1, D2, and D3	Die Cast Machine (5 and 8) 0.039 Stack		PM ₁₀	0.009
		NO _x	0.075	0.329
		SO ₂	<0.001	<0.002
		CO	0.016	0.069
		VOC	0.006	0.026
KA1 through KA8	Knobline Annealer (6 and 8) 0.026 Stack		PM ₁₀	0.006
		NO _x	0.05	0.22
		SO ₂	<0.001	<0.002
		CO	0.01	0.046
		VOC	<0.004	<0.018
FUG-1	Preheaters (4 and 6)	PM ₁₀	<0.001	<0.004
		NO _x	0.015	0.065
		SO ₂	<0.001	<0.001
		CO	0.004	0.018
		VOC	<0.001	0.004
FUG-3	Comfort Heaters (4 and 7)	PM ₁₀	0.091	0.034
		NO _x	1.585	0.581
		SO ₂	0.010	0.004
		CO	0.427	0.156
		VOC	0.085	0.031

- (1) Emission point identification - either specific equipment designation or emission point number from a plot plan.
- (2) Specific point source names. For fugitive sources, use an area name or fugitive source name.
- (3) PM₁₀ -particulate matter (PM) equals to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.

VOC - volatile organic compounds as defined in 30 Texas Administrative Code Section 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.

(5) Operates per Standard Exemption No. 37

(6) Operates per Standard Exemption No. 7

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(7) Operates per Standard Exemption No. 3.

(8) Emissions for one machine stack. Total emissions equal to emissions from one stack times the number of stacks represented under emission point number.

* Emission rates are based on and the facilities are limited by the following maximum operating schedule and production:

24 Hrs/day 7 Days/week 52 Weeks/year and 8,760
Hrs/year

Maximum annual consumption of 51,160,044 pounds of zinc alloy and 114,086,898 pounds of zinc alloy melted by M1, M2, and M3 Furnaces, the RF1 Reclaim Furnace, and the casting machines. The total melt quantity is based on a 2.23 return/remelt factor for spruces and trees.

M3 Furnace: Maximum hourly throughput of 9,300 pounds of zinc alloy melted.

M1 and M2 Furnaces Combined: Maximum hourly throughput of 5,200 pounds of zinc alloy melted.

Maximum natural gas usage of 114,210,000 cubic feet per year or an equivalent amount of propane.

The M1, M2, and M3 Melting Pot Furnaces and the casting machine holding pots operate continuously. (i.e., 8,760 hours per year).

** Includes emissions from both the melting pot and the furnace burners and consists of products of combustion, zinc chloride, zinc oxide, ammonium chloride, aluminum oxide, ferric oxide, lead oxide, water, and trace carbonaceous material.

Dated_____