

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
M3	M3 Furnace Stack	PM ₁₀ **	0.465	1.061
		PM ₁₀ ***	0.016	0.038
		NO _x	0.285	0.665
		SO ₂	0.002	0.004
		CO	0.077	0.179
		VOC	0.015	0.036
1 Thru 6	Die Cast Machine (5 and 9) Stack	PM ₁₀	0.004	0.004
		NO _x	0.062	0.072
		SO ₂	< 0.001	< 0.001
		CO	0.017	0.019
		VOC	< 0.004	< 0.004
19	Die Cast Machine (5 and 9)	PM ₁₀	0.005	0.006

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
	Stack	NO _x	0.093	0.108
		SO ₂	< 0.001	< 0.001
		CO	0.025	0.029
		VOC	0.005	0.006
21 And 27 Thru 30	Die Cast Machine (5 and 9) Stack	PM ₁₀	0.004	0.004
		NO _x	0.062	0.072
		SO ₂	< 0.001	< 0.001
		CO	0.017	0.019
		VOC	< 0.004	< 0.004
22 Thru 26, 31, And 33 Thru 40	Die Cast Machine (5 and 9) Stack	PM ₁₀	0.005	0.006
		NO _x	0.093	0.108
		SO ₂	< 0.001	< 0.001
		CO	0.025	0.029
		VOC	0.005	0.006
41 Thru 43	Die Cast Machine (5 and 9) Stack	PM ₁₀	0.004	0.004
		NO _x	0.062	0.072
		SO ₂	< 0.001	< 0.001
		CO	0.017	0.019
		VOC	< 0.004	< 0.004
FUG-1	Melting/Holding (4 and 6) Furnaces	PM ₁₀ **	0.296	0.849
		PM ₁₀ ***	0.010	0.025
		NO _x	0.179	0.425
		SO ₂	0.001	0.003
		CO	0.048	0.114
		VOC	0.010	0.023
FUG-2	Knobline Annealers (4 and 7)	PM ₁₀	0.032	0.071
		NO _x	0.560	1.227
		SO ₂	0.004	0.008
		CO	0.151	0.330
		VOC	0.030	0.066
FUG-3	Comfort Heaters (4 and 8)	PM ₁₀	0.091	0.034

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
		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 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
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) Includes emissions for M1 and M2 Furnaces, Preheaters 1 and 2, and fugitives from M3 furnace.
- (7) Operates per Standard Exemption No. 7
- (8) Operates per Standard Exemption No. 3
- (9) Emissions for one casting 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 6 Days/week 50 Weeks/year and 5,838 Hrs/year

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Maximum annual consumption of 32,640,000 pounds of zinc alloy and 72,787,000 pounds of zinc alloy melted by M1, M2, and M3 furnaces 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 95,175,000 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.

** Emissions from the melting pot and include zinc chloride, zinc oxide, ammonium chloride, aluminum oxide, ferric oxide, lead oxide, water, and trace carbonaceous material.

*** Emissions from the combustion of natural gas.

Dated_____