

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 8097/PSD-TX-138M4

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 (6)(7)	Source	Air Contaminant	<u>Emission Rates</u>	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
1	A - Baghouse: Canopy Hood for A-Furnace (4)	PM ₁₀ CO	13.0 12.4	51.8 49.7
6	B - Baghouse: Canopy Hood for B-Furnace (4)	PM ₁₀ CO	21.9 21.0	87.4 83.9
7	C - Baghouse: Direct Shell Evacuation for A and B Furnace and Melt-Shop Scavenger System	PM ₁₀ CO	17.4 552.5	69.5 2210.2
4A	Melt Shop Roof Monitor	TSP PM ₁₀ CO	10.5 10.5 45.0	42.0 42.0 180.0
4B	Melt Shop Roof Monitor	TSP PM ₁₀	10.5 10.5	42.0 42.0
9	Large Section Mill Reheat Furnace (5)	PM ₁₀ NO _x SO ₂ CO VOC	0.7 26.0 2.0 5.6 0.2	0.9 37.0 1.5 7.1 0.3
3	Vanover Separator-Auto Shredder Primary Collection System (Existing)*	TSP	0.5	1.5
8	Air Cascade Separator Auto Shredder Primary	TSP	5.0	15.0

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Collection System

- (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) VOC - volatile organic compounds as defined in General Rule 101.1
NO_x - total oxides of nitrogen
CO - carbon monoxide
TSP - total suspended particulate matter (including PM₁₀)
PM₁₀ - particulate matter less than 10 microns
SO₂ - sulfur dioxide
- (4) Emissions collected in the canopy hood are combined in a mixing chamber before splitting to the two baghouses.
- (5) Hourly emissions are based on a maximum design firing rate of 120 MMBtu/hr, based on a lower heating value (LHV) of the fuel (i.e., natural gas). Annual emissions are based on firing the furnace for a maximum of 5,600 hrs/yr, during which the average firing rate will be less than equal to 60 MMBtu/hr (LHV).
- (6) Emission rates are based on and the facilities are limited by the following maximum operating schedule:
- (7) Emission increases of lead associated with the baghouse dust recycling activities referenced in Special Condition No. 5 shall not exceed the following levels: EPN-1 - 0.07 lb/hr; EPN-6 - 0.11 lb/hr; EPN-7 - 0.11 lb/hr; EPN-4A - 0.05 lb/hr; and EPN-4B - 0.05 lb/hr. Total lead emission increases associated with the baghouse dust recycling activities shall not exceed 0.589 tons/year.
- * Emission rates included for reference only. Emission limitations do not apply since these units have no applicable restrictions.

Hrs/day 24 Days/week 7 Weeks/year 52 or Hrs/year 8,000

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Dated_____