

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 2448

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 *	Source	Air Contaminant	<u>Emission Rates</u>	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
2A	Electric Arc Furnace Stacks	PM (8)	27.43	
	115.60			
	1 and 2 Baghouse	PM ₁₀ (8)	21.94	92.50
		PM (9)	54.86	231.20
		PM ₁₀ (9)	49.37	208.10
		CO	381.53	1476.50
		NO _x	83.69	315.60
		SO ₂	41.84	157.80
		VOC	42.15	159.00
		Pb	0.32	1.30
F-2	Melt Shop Roof Vents	PM	35.60	134.20
		PM ₁₀	28.48	107.40
		CO	8.10	30.50
		NO _x	0.32	1.20
		SO ₂	0.16	0.60
		VOC	0.23	0.80
		Pb	0.11	0.60
F-10	Dolomite Lime Silo (4)	PM	0.64	2.80
		PM ₁₀	0.32	1.40
F-11	Lime Silo (4)	PM	1.00	4.40
		PM ₁₀	0.50	2.20
P-12	Lime Silo Baghouse	PM	0.54	2.30
		PM ₁₀	0.27	1.20

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Emission * Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
14	Ladle Refining Furnace	PM (8)	1.54	6.50
	Baghouse (5)	PM ₁₀ (8)	1.23	5.20
		PM (9)	2.73	11.50
		PM ₁₀ (9)	2.43	10.20
		NO _x	1.80	6.80
		CO	15.60	58.80
		SO ₂	42.00	158.20
		VOC	1.20	4.50
16	VD Boiler Stack (6)	PM	0.16	0.70
		CO	1.14	5.00
		NO _x	4.57	20.00
		SO ₂	0.02	0.10
		VOC	0.09	0.40
18	Vacuum Degasser Ejector (7)	CO	224.00	
	4.00			
25	Continuous Casting Machine	PM	4.86	
	18.30			
	(4) (10)	PM ₁₀	4.82	18.10
		VOC	0.02	0.05
27	Process Heater (5)	PM	0.32	1.40
		SO ₂	0.04	0.20
		NO _x	8.82	38.60
		CO	2.21	9.70
		VOC	0.18	0.80
28	Storage Tank (5)	VOC	0.38	1.60
29	Storage Tank (5)	VOC	0.02	0.10
30	Loading Facility	VOC	0.01	0.10

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			lb/hr	TPY
31	Loading Facility	VOC	0.03	0.10
33	RMB1-VAT	VOC	0.37	1.60
34	RMB2-VAT	VOC	0.37	1.60
F-35	RMG2-VAT	VOC	0.32	1.40
F-36	RMB3-VAT	VOC	0.64	2.80
F-37	RMB4-VAT	VOC	0.64	2.80
F-38	RMUNM-VAT	VOC	0.32	1.40
F-39	MR1-VAT	VOC	0.32	1.40
F-40	MR2-VAT	VOC	0.32	1.40
F-41	RMMAIN-VAT	VOC	0.64	2.80

(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) PM - particulate matter, suspended in the atmosphere, including PM₁₀.

PM₁₀ - particulate matter equal 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.

CO - carbon monoxide

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

VOC - volatile organic compounds as defined in 30 Texas Administrative Code Section 101.1

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Pb - lead

- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) 8,760 hours per year
- (6) The boiler is exempted under Exemption 106.183 and is only listed for source accounting purposes.

- (7) Annual emissions are based on decarbonization of 4,320 tons per year in the degassing unit at a maximum rate of 120 tons per hour.
- (8) Particulate matter as measured by EPA Method 5, front-half only, for compliance with Federal Standards.
- (9) Particulate matter as measured by EPA Method 5, front-half and back-half, for compliance with state regulations.
- (10) This is the total maximum emissions from the two continuous casting machines. Current projections estimate that either caster, or both, may operate at any one time. (8/99)

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

_____Hrs/day _____Days/week _____Weeks/year or 8,428 Hrs/year

Dated _____