

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Nos. 9397 and PSD-TX-625M1

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 Rates *	Source	Air Contaminant	Emission	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY

Prior to the operation of the electric arc furnace, the emissions from the manufacturing of rockwool shall be based on the operation of the two cupolas, each utilizing oxygen (O₂) injection at a minimum usage rate of 38 standard cubic feet per minute (scfm).

2	Cupola A	PM ₁₀	2.90	13.00
		NO _x	11.00	45.00
		CO	1452.00	4705.00
		SO ₂	90.62	345.80
		HF	0.50	1.90
		H ₂ S	14.04	53.60
		COS	19.87	75.82
		TRS	33.91	129.42
		HCN	<0.01	0.03
	Cupola B	PM ₁₀	2.90	13.00
		NO _x	11.00	45.00
		CO	1452.00	4705.00
		SO ₂	90.62	345.80
		HF	0.50	1.90
		H ₂ S	14.04	53.60
		COS	19.87	75.82
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Emission *	Source	Air Contaminant	<u>Emission Rates</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>

Following start-up of the electric arc furnace, or April 1, 1999, whichever comes first, the emissions from the operation of rockwool shall be based on the operation of one cupola, using O₂ injection at a minimum rate of 38 scfm, and an electric arc furnace.

2	Electric Arc Furnace	PM ₁₀	0.34	1.30
		NO _x	1.85	7.06
		CO	25.00	95.40
		SO ₂	59.19	142.00
		HF	0.07	0.20
		H ₂ S	1.66	4.00
		COS	<0.01	<0.01
		TRS	1.66	4.00
2	Cupola A or Cupola B	PM ₁₀	2.90	13.00
		NO _x	11.00	45.00
		CO	1452.00	4705.00
		SO ₂	90.62	345.80
		HF	0.50	1.90
		H ₂ S	14.04	53.60
		COS	19.87	75.82
		TRS	33.91	129.42
		HCN	<0.01	0.03

The following emission sources are limited to the following rates, regardless of whether an electric arc furnace is used.

3	Scrubber	PM ₁₀	21.20	80.90
		VOC	0.05	0.22
4	Material Handling (includes stockpiles)	PM	1.00	0.70
		PM ₁₀	0.47	0.38
5	Cupola Building Fugitives <0.01	PM ₁₀		<0.01

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Emission * Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
5	Cupola Building Fugitives 0.04	NO _x	<0.01	<0.01
		CO	0.15	0.47
		SO ₂		<0.01
		HF	<0.01	<0.01
		H ₂ S	<0.01	<0.01
		COS	<0.01	<0.01
		TRS	<0.01	0.01
6	Oil Storage Tank	HCN	<0.01	<0.01
		VOC	1.82	<0.01

(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
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.

NO_x - nitrogen oxide

CO - carbon monoxide

SO₂ - sulfur dioxide

HF - hydrogen fluoride

H₂S - hydrogen sulfide

COS - carbonyl sulfide

TRS - total reduced sulfur

HCN - hydrogen cyanide

TSP - total suspended particulate

(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

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Emission *	Source	Air Contaminant	<u>Emission Rates</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>

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

Hrs/day 24 Days/week 7 Weeks/year 52 or Hrs/year _____

Dated _____