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

Prior to December 28, 1999, the emissions from the manufacturing of rockwool shall be based on the operation of the two cupolas, each utilizing oxygen  $(0_2)$  injection at a minimum usage rate of 38 standard cubic feet per minute (scfm).

2	Cupola 1	$\begin{array}{c} PM_{10} \\ NO_X \\ CO \\ SO_2 \\ HF \\ H_2S \\ COS \\ TRS \\ HCN \end{array}$	2.90 11.00 1452.00 90.62 0.50 14.04 19.87 33.91 <0.01	13.00 45.00 4705.00 345.80 1.90 53.60 75.82 129.42 0.03
	Cupola 2	$\begin{array}{c} PM_{10} \\ NO_X \\ CO \\ SO_2 \\ HF \\ H_2S \\ COS \\ TRS \\ HCN \end{array}$	2.90 11.00 1452.00 90.62 0.50 14.04 19.87 33.91 <0.01	13.00 45.00 4705.00 345.80 1.90 53.60 75.82 129.42 0.03

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

# AIR CONTAMINANTS DATA

Emission *	Source	Air Contaminant	<u>Emissio</u>	n Rates	
<u>-</u> Point No. (1)	Name (2)	Name (3)	lb/hr	TPY	
After December 28, 1999, the emissions from the manufacturing of rockwool shall be based on the operation of one cupola, using $O_2$ injection at a minimum rate of 38 scfm, and an electric arc furnace.					
2	Electric Arc Furnac	$\begin{array}{ccc} & PM_{10} \\ & NO_{x} \\ & CO \\ & SO_{2} \\ & HF \\ & H_{2}S \\ & COS \\ & TRS \end{array}$	0.34 1.85 25.00 59.19 0.07 1.66 <0.01 1.66	1.30 7.06 95.40 142.00 0.20 4.00 <0.01 4.00	
2	Cupola 1 or Cupola	$NO_X$	2.90 11.00 1452.00 90.62 0.50 14.04 19.87 33.91 <0.01	13.00 45.00 4705.00 345.80 1.90 53.60 75.82 129.42 0.03	
The following emission sources are limited to the following rates, regardless of whether an electric arc furnace is used.					
3	Scrubber	PM <sub>10</sub> VOC	21.20 0.05	80.90 0.22	
4	Material Handling (includes stockpi	PM les) PM <sub>10</sub>	1.00 0.47	0.70 0.38	
5	Cupola Building Fug	itives NO <sub>x</sub>	PM <sub>10</sub> <0.01	<0.01 <0.01	

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# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

# AIR CONTAMINANTS DATA

Emission *	Source	Air Contaminant	<u>Emission</u>	<u>Rates</u>
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
		СО	0.15	0.47

### EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

#### AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	<u>Emissio</u>	n Rates
<u>*</u> Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
5	Cupola Building Fugitives 0.04		SO <sub>2</sub>	<0.01
		HF	<0.01	<0.01
		H₂S	<0.01	<0.01
		COS	<0.01	<0.01
		TRS	<0.01	0.01
		HCN	<0.01	<0.01
6	Oil Storage Tank	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 30 Texas Administrative Code Section 101.1
- $\mbox{PM}$  particulate matter, suspended in the atmosphere, including  $\mbox{PM}_{10}\,.$ 
  - $PM_{10}$  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
  - SO<sub>2</sub> sulfur dioxide
  - HF hydrogen fluoride
  - H₂S hydrogen sulfide
  - COS carbonyl sulfide
  - TRS total reduced sulfur
  - HCN hydrogen cyanide
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- \* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

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### EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

# AIR CONTAMINANTS DATA

Dated \_\_\_\_

Emission <u>*</u>	Source	Air Contaminant	<u>Emission Rates</u>
Point No. (1)	Name (2)	Name (3)	<u>lb/hr TPY</u>
Hrs/day <u>24</u>	Days/week <u>7</u>	Weeks/year <u>52</u>	or Hrs/year