

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 2058

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)	<u>Emission Rates *</u>	
			lb/hr	TPY**
S-1	Furnace Baghouse Stack	PM <sub>10</sub>	3.16	7.58
		Pb	0.21	
S-2	Green Sand Baghouse Stack	PM <sub>10</sub>	2.27	5.45
		Total Silica	2.27	5.45
S-3	Air Set Baghouse Stack	PM <sub>10</sub>	0.67	1.60
		Total Silica	0.67	1.60
S-4	Cleaning Baghouse Stack	PM <sub>10</sub>	1.10	1.19
S-5	Core Oven Vent	PM <sub>10</sub>	0.08	0.08
		NO <sub>x</sub>	1.00	1.05
		CO	0.84	0.88
		SO <sub>2</sub>	<0.01	<0.01
		VOC	0.06	0.06
S-6	Core Baghouse Stack	PM <sub>10</sub>	0.08	0.08
		Total Silica	0.08	0.08
AS-1	Air Set Resin Tank Vent	Phenol	0.01	<0.01
		Formaldehyde	0.20	<0.01
F-1	Main Building Vent 1	PM <sub>10</sub>	9.68	15.25
		Total Silica	9.68	15.25
		Phenol	0.36	1.34
		Formaldehyde	0.07	0.15
		VOC	0.43	1.49
		Toluenesulfonic Acid	0.10	0.25

F-1A	Main Building Vent 2	PM <sub>10</sub>	9.68	15.25
		Total Silica	9.68	15.25
		Phenol	0.36	1.34
		Formaldehyde	0.07	0.15
		VOC 0.43	1.49	
		Toluenesulfonic Acid	0.10	0.25
F-2	Core Building Fugitives	PM <sub>10</sub>	0.26	0.41
		Total Silica	0.26	0.41
		Phenol	0.17	0.31
		Formaldehyde	0.0002	0.0003
		VOC 0.90	1.76	
F-3	Cleaning Building Fugitives	PM <sub>10</sub>	0.33	0.65
CT-1	Furnace Cooling Tower	PM <sub>10</sub>	<0.01	<0.02
CT-2	Air Set Cooling Tower	PM <sub>10</sub>	<0.01	<0.02

(1) Emission point identification - either specific equipment designation or emission point number from a plot plan.

(2) Specific point source names. For fugitive sources, use an area name or fugitive source name.

(3) PM<sub>10</sub> - particulate matter (PM) 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.

Pb - lead and lead compounds

Silica - sand used in molds

NO<sub>x</sub> - total oxides of nitrogen

CO - carbon monoxide

SO<sub>2</sub> - sulfur dioxide

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

Phenol - a class of aromatic organic compounds with one or more hydroxy groups attached to benzene ring.

Toluenesulfonic Acid - acid catalyst for phenolic no-bake resin used in core making

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(4) Fugitive emissions are an estimate only.

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

20 Hrs/day 5 Days/week 48 Weeks/year or 4,800 Hrs/year

- \*\* Compliance with annual emission limits is based on a rolling 12-month period.

Maximum Allowable Production Rate: 5.16 tons/hour and 16,200 tons/year Grey Iron only

Dated\_\_\_\_\_