

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 73498

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)	Emission Rates *	
			lb/hr	TPY**
FE-RAWMAT	Raw Material and Slag (4) Handling	PM <sub>10</sub>	0.50	0.36
E-CAST1	Charging, Cupola Fugitive, (5) and Bubbling Pot	PM <sub>10</sub>	6.78	2.61
		VOC	1.13	0.41
		NO <sub>x</sub>	0.09	0.03
		SO <sub>2</sub>	0.02	0.01
		CO	27.31	9.83
E-CUPOLA	Cupola Furnace Baghouse (5) Stack	PM <sub>10</sub>	1.66	0.60
		VOC	2.83	1.02
		NO <sub>x</sub>	4.71	1.70
		SO <sub>2</sub>	0.94	0.34
		CO	68.27	24.58
E-CAST2	Ductile Treating, Holding (5) Ladles, and Casting	PM <sub>10</sub>	7.10	2.56
		VOC	0.42	0.15
		NO <sub>x</sub>	0.02	0.01
		SO <sub>2</sub>	0.04	0.01
		CO	10.21	3.67
E-CAST3	Pouring and Cooling (5)	PM <sub>10</sub>	7.91	2.85
		VOC	0.84	0.30
		NO <sub>x</sub>	0.04	0.01
		SO <sub>2</sub>	0.08	0.03
		CO	20.42	7.35
E-CAST4	Pouring and Cooling (5)	PM <sub>10</sub>	7.91	2.85
		VOC	0.84	0.30
		NO <sub>x</sub>	0.04	0.01
		SO <sub>2</sub>	0.08	0.03
		CO	20.42	7.35

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

## AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY**
E-CAST5	Shakeout, Mold Making, (5) Sand Return, Grinding/Finishing, and Hot Box Heaters	PM <sub>10</sub>	6.16	4.78
		VOC	1.44	1.06
		NO <sub>x</sub>	0.54	0.77
		SO <sub>2</sub>	<0.01	
		CO	3.64	2.94
E-SCRUB	Shakeout Hopper Scrubber	PM <sub>10</sub>	1.70	1.22
		VOC	4.24	3.05
		CO	9.57	6.89
E-NEWSAND	Mold Sand Silo D.C.	PM <sub>10</sub>	0.05	0.05
E-CORESAND	Core Sand Silo D.C.	PM <sub>10</sub>	0.05	0.10
FE-CORES	Core Making	VOC	12.45	17.93
E-SHOT	Shotblast Baghouse	PM <sub>10</sub>	0.04	0.62
FE-WASTSND	Waste Sand Handling (4)	PM <sub>10</sub>	0.06	0.03

(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) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

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

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

PM - particulate matter, suspended in the atmosphere, including PM<sub>10</sub>.

PM<sub>10</sub> - 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

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

(5) Speciated compounds represented in permit application are included in the PM and or VOC emission rates.

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

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

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

18 Hrs/day 5 Days/week 52 Weeks/year or 4,680 Hrs/year

1. "Casting" (Raw material handling, melting, and casting operations) will be conducted during the "Day Shift," but will not be conducted simultaneously with "Mold Making" ( Sand return, mold making, casting grinding) or simultaneously with "Shakeout" (Casting removal, applicable portions of sand return).
2. "Mold Making" will be conducted during the "Day Shift," but will not be conducted simultaneously with "Casting."
3. "Shakeout" may be conducted during the "Night Shift" or during the "Day Shift," but will not be conducted simultaneously with "Casting."
4. The duration of each operation, i.e., "Casting," "Mold Making," and "Shakeout" will not exceed 10 hours on any single day and the total duration of all operations will not exceed 18 hours on any single day.

Dated August 12, 2005