

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 7365

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>	
<u>Point No. (EPN) (1)</u>		<u>Name (2)</u>		<u>Name</u>
(3)	lb/hr	TPY		
BH-J	Shakeout and Finishing 1.669 Baghouse		PM ₁₀ **	0.676
BH-K	Green Sand System Baghouse	PM ₁₀ ***	0.313	0.783
BH-S	Furnace Baghouse	PM ₁₀ #	0.176	0.440
BH-RU	Reclamation Unit Baghouse 0.005	0.317		PM ₁₀ #
FF-FM	Floor Mold Area Tank 0.500 Fabric Filter		PM ₁₀ **	5.000
FF-RS	Reclaimed Sand Tank Fabric Filter	PM ₁₀ **	1.000	0.250
FF-VS	Virgin Sand Tank Fabric 0.800 Filter	0.100		PM ₁₀ **
FF-CR	Core Room Sand Tank Fabric Filter	PM ₁₀ **	0.800	0.100
P	Metal Pouring (4)	PM ₁₀ ##	5.25	13.13

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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/hrTPY</u>	
CR	Core Making (4)	PM ₁₀ **	1.38	0.07
FEL	Sand Handling (4)	PM ₁₀ **	0.90	0.08
PILE	Spent Sand Pile (4)	PM ₁₀ **	0.21	0.03
V	Heat Treater	PM ₁₀	0.036	0.240
		SO ₂	0.002	0.012
		NO _x	0.300	2.000
		CO	0.063	0.420
		TOC	0.017	0.012
DRY	Scrap Pre-Heater	PM ₁₀	0.036	0.060
		SO ₂	0.002	0.003
		NO _x	0.300	0.500
		CO	0.063	0.105
		TOC	0.017	0.003
CO	Core Oven	PM ₁₀	0.034	0.224
		SO ₂	0.002	0.012
		NO _x	0.282	1.880
		CO	0.120	0.800
		TOC	0.033	0.022
S-CB	Cold Box Amine Scrubber		Amines	
	1.896	0.020		
U, T	Mold and Core Wash	MEOH	2.270	5.674
PAINT1	Painting (4)	C ₆ H ₅ CH ₃ +	0.075	0.187
PAINT2	Painting (4)	C ₆ H ₅ CH ₃ +	0.075	0.187
(1)	Emission point	identification	-	either specific

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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_{10} -particulate matter (PM) equal 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.

SO_2 - sulfur dioxide
 NO_x - oxides of nitrogen
CO - carbon monoxide
TOC - total organic compound
MEOH - methanol
 $C_6H_5CH_3$ - toluene

- (4) Fugitive emissions are an estimate only.

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

Hrs/day _____ Days/week _____ Weeks/year _____ or Hrs/year 5,000

A. Natural gas consumption by the Scrap Metal Dryer (EPN DRY) 10,000,000 scf/yr.

B. Natural gas consumption by the Core Oven (EPN CO) of 40,000,000 scf/yr.

C. Natural gas consumption by the Heat Treater (EPN V) of 40,000,000 scf/yr.

D. Annual gray iron/ductile production of 6,250 tons

E. Annual cores production rate of 125 tons

F. Annual primer paint usage rate of 112.5 gallons

G. Annual methanol usage rate of 1,650 gallons

H. Annual amount of sand handling rate of 5,000 tons

I. Annual green sand handling rate of 62,500 tons.

** Denotes silica sand/resin dust

*** Denotes silica sand/bentonite dust

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- # Denotes iron dust
- ## Denotes iron/silica sand dust
- + Includes acetone, xylene, and toluene.

Dated_____