

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)	Emission Rates	
			lb/hr	TPY**
S-1	Furnace Baghouse Stack Induction Furnaces 1 and 2 and Coreless Furnaces 1 and 2 Charging, Melting, Tapping and Inoculation	PM/PM ₁₀	3.16	7.58
		Pb (6)	0.09	0.21
S-2	Green Sand Baghouse Stack New Sand Silo, Bond Silo, Shakeout, and Vibrator	PM/PM ₁₀	2.27	5.45
		Total Silica (6)	2.27	5.45
S-3	Air Set Baghouse Stack Sand Cooler/Classifier and Shakeout	PM/PM ₁₀	0.93	2.24
		Total Silica (6)	0.93	2.24
S-4	Cleaning Baghouse Stack Tumble Blaster, Table Blaster, and 3 Standing Grinders	PM/PM ₁₀	1.10	1.19
S-5	Core Oven Burner Vent	PM/PM ₁₀	0.08	0.08
		NO _x	1.00	1.05
		CO	0.84	0.88
		SO ₂	<0.01	<0.01
		VOC	0.06	0.06
S-6	Core Oven Baghouse Stack	PM/PM ₁₀	0.08	0.08
		Total Silica (6)	0.08	0.08

F-1 and F1-A	Main Building Vents 1 and 2 (5)	PM/PM ₁₀	19.38	30.51
	Bulk Resin Tank, Resin and Acid	Total Silica (6)	19.36	30.50
	Day Tanks, Acid Storage Tank,	Phenol (7)	12.39	8.11
	Sand Day Tank, Casting, Pouring,	Formaldehyde (7)	1.58	0.91
	Cooling, Reclaim Sand Tank,	VOC	16.97	10.77
	Sand Silo, Magnetic Separator,	Toluenesulfonic Acid	0.20	0.50
	Scrap Storage, Tapping, Ladles,	NO _x	0.16	0.10
	Air Set Mold Coating, 5 Molding	CO	0.04	0.03
	Machines, and Furnace Charging,	Alcohol (7)	3.00	1.75
	Melting, Tapping and Inoculation			
F-2	Core Building Fugitives (4)	PM/PM ₁₀	0.26	0.41
	Core Shell Machines	Total Silica (6)	0.26	0.41
	and Mixer	Phenol	0.17	0.31
		Formaldehyde	<0.001	<0.001
		VOC	0.90	1.76
F-3	Cleaning Building Fugitives (4)	PM/PM ₁₀	0.33	0.65
	Grinders and Misc Hand			
	Held Machines/Tools			
CT-1	Channel Furnaces Cooling	PM/PM ₁₀	<0.01	<0.02
	Tower			
CT-2	Air Set Cooling Tower	PM/PM ₁₀	<0.01	<0.01
CT-3	Coreless Furnaces Cooling	PM/PM ₁₀	<0.01	<0.02
	Tower			

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- (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 - particulate matter, suspended in the atmosphere, including PM₁₀
PM₁₀ - particulate matter (PM) equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.
Pb - lead and lead compounds
NO_x - total oxides of nitrogen
CO - carbon monoxide
SO₂ - sulfur dioxide
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- (4) Fugitive emissions are an estimate only.
- (5) Sum of emissions from both EPN's F-1 and F1-A
- (6) Included in the PM values
- (7) Included in the VOC value

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

Dated February 8, 2008