

# 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, sources, and related activities. 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 (8)	
			lbs/hour	TPY (4)
S-1	Furnace Baghouse Stack (Induction Furnaces 1 and 2, Coreless Furnaces 1 and 2, Charging, Melting, Tapping and Inoculation)	PM	3.16	7.58
		PM <sub>10</sub>	3.16	7.58
		PM <sub>2.5</sub>	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	2.27	5.45
		PM <sub>10</sub>	2.27	5.45
		PM <sub>2.5</sub>	2.27	5.45
		Total Silica (6)	2.27	5.45
S-3	Air Set Baghouse Stack (Sand Cooler/Classifier and Shakeout)	PM	0.93	2.24
		PM <sub>10</sub>	0.93	2.24
		PM <sub>2.5</sub>	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	0.86	1.13
		PM <sub>10</sub>	0.86	1.13
		PM <sub>2.5</sub>	0.86	1.13
S-5	Core Oven Burner Vent	PM	0.08	0.08
		PM <sub>10</sub>	0.08	0.08
		PM <sub>2.5</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 Oven Baghouse Stack	PM	0.08	0.08
		PM <sub>10</sub>	0.08	0.08

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		PM <sub>2.5</sub>	0.08	0.08
		Total Silica (6)	0.08	0.08
F-1 and F1-A	Main Building Vents 1 and 2 (Bulk Resin Tank, Resin and Acid Day Tanks, Acid Storage Tank, Sand Day Tank, Casting, Pouring, Cooling, Reclaim Sand Tank, Sand Silo, Magnetic Separator, Scrap Storage, Tapping, Ladles, Air Set Mold Coating, 5 Molding Machines, and Furnace Charging, Machines, and Furnace Charging, Melting, Tapping and Inoculation) (9)	PM	19.38	30.51
		PM <sub>10</sub>	19.38	30.51
		PM <sub>2.5</sub>	19.38	30.51
		Total Silica (6)	19.36	30.50
		Phenol (7)	12.39	8.11
		Formaldehyde (7)	<0.001	0.91
		VOC	16.97	10.77
		NO <sub>x</sub>	0.16	0.16
		CO	0.04	0.03
		Alcohol (7)	3.00	1.75
F-2	Core Building Fugitives (Core Shell Machines and Mixer) (5)	PM	0.26	0.41
		PM <sub>10</sub>	0.26	0.41
		PM <sub>2.5</sub>	0.26	0.41
		Total Silica (6)	0.26	0.41
		Phenol	0.17	0.31
		Formaldehyde	<0.001	<0.001
		VOC	0.90	1.76
F-3	Cleaning Building Fugitives (Grinders and Misc Hand Held Machines/Tools) (5)	PM	0.33	0.65
		PM <sub>10</sub>	0.33	0.65
		PM <sub>2.5</sub>	0.33	0.65
CT-1	Channel Furnaces Cooling Tower Fugitives	PM	<0.01	<0.02
		PM <sub>10</sub>	<0.01	<0.02
		PM <sub>2.5</sub>	<0.01	<0.02
CT-2	Air Set Cooling Tower Fugitives	PM	<0.01	<0.01
		PM <sub>10</sub>	<0.01	<0.01
		PM <sub>2.5</sub>	<0.01	<0.01
CT-3	Coreless Furnaces Cooling Tower Fugitives	PM	<0.01	<0.02

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		PM <sub>10</sub>	<0.01	<0.02
		PM <sub>2.5</sub>	<0.01	<0.02

- (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 Title 30 Texas Administrative Code § 101.1  
NO<sub>x</sub> - total oxides of nitrogen  
SO<sub>2</sub> - sulfur dioxide  
PM - total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>, as represented  
PM<sub>10</sub> - total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>, as represented  
PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter  
CO - carbon monoxide
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) Included in PM values.
- (7) Included in VOC value.
- (8) Planned startup and shutdown emissions are included. Maintenance activities are not authorized by this permit.
- (9) Sum of emissions from Both EPN's F-1 and F1-A.

Date: August 23, 2018