

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	<u>Emission Rates *</u>	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY

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Permit Number 2489A

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.

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Emission	Source	Air Contaminant	<u>Emission Rates *</u>	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
ST-B8	Baghouse B-8 Exhaust Stack [Electric Arc Furnance (EAF)-1 and EAF-2]	PM/PM ₁₀	0.22	0.90
		SO ₂	0.80	1.05
		NO _x	17.43	70.23
		CO	37.26	154.76
		VOC	3.93	16.34
ST-B1	Baghouse B-1 Exhaust Stack [NF Mold Machines, NF Pouring Floor Ladle-2 (PRV - 1/2/3/4)]	PM/PM ₁₀	0.09	0.36
		SO ₂	0.05	0.06
		NO _x	1.30	4.25
		CO	2.29	8.62
		VOC	3.86	16.18
ST-B2	Baghouse B-2 Exhaust Stack [Royer Handling Machine]	PM/PM ₁₀	0.06	0.24
		SO ₂	0.01	0.01
		NO _x	0.29	0.21
		CO	0.24	0.18
		VOC	1.94	2.44
		NH ₃	0.02	0.06
ST-B18	B18 Baghouse Exhaust Stack	PM/PM ₁₀	0.28	1.15

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
	[Power Roof Vents (PRV)-5 and PRV-6, North Foundry (NF) Sand Tanks and Bins, NF Bentonite Bin, NF Muller, NF Rotary Screen and NFS and Reclaimer] (7)	SO ₂	0.05	(4)
		NO _x	1.30	(4)
		CO	2.29	(4)
		VOC	3.86	(4)
ST-B19	Baghouse B-19 Exhaust Stack	PM/PM ₁₀	0.34	1.41
	[Mold Machines, Vibramill, Oscillating Conveyors, Didion, NF Pouring Floor, NF Shakeout Exhaust (SOE)-1] (7)	SO ₂	0.05	(4)
		NO _x	1.30	(4)
		CO	2.29	(4)
		VOC	3.86	(4)
ST-B9	Baghouse B-9 Exhaust Stack	PM/PM ₁₀	0.13	0.54
	[South Foundry (SF) Shakeout	SO ₂		0.01
				0.01
	(SOE-2), SF Pouring Floor (PF),	NO _x		0.28
				0.28
	No-Bake Molds (Air Set),	CO		0.24
	0.24			0.24
	and Core Room]	VOC		17.69
				71.47
	Non-VOC		0.14	0.37
ST-B20	Baghouse B-20 Exhaust Stack	PM/PM ₁₀	0.16	0.67
	[SF Shakeout Exhaust (SOE-2),		17.69	VOC
				(5)
	SFPF, Vibramill Sand Reclaim,	SO ₂	0.01	(5)
	SF Sand Tanks, No-Bake	NO _x	0.28	(5)
	Molds (Air Set), Core Room] (7)	CO	0.24	(5)
		Non-VOC	0.14	(5)
ST-B21	Baghouse B-21 Exhaust Stack	PM/PM ₁₀	0.13	0.54
	[SFPF, SF Rotary Screen, South		17.69	VOC
				(5)
	Foundry Muller (SFM), SF Sand			SO ₂
			0.01	(5)

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
		Elevator, SF Sand Tanks, Air Set/	NO _x	
			0.28	(5)
		No-Bake Molds, Core Room] (7)	CO	
			0.24	(5)
		Non-VOC	0.14	(5)
ST-SCR2	Core Room Scrubber Exhaust	PM/PM ₁₀	0.06	0.23
		Stack	VOC	<0.01
			<0.01	
		SO ₂	<0.01	<0.01
ST-B22	Sand Plant/Sand System	PM/PM ₁₀	0.19	0.79
	Baghouse Stack (7)	VOC	5.47	(6)
ST-B23	Pouring and Cooling	PM/PM ₁₀	0.19	0.79
		Baghouse Stack	VOC	5.47
				22.94
LADLE-3	Ladle Transfer	PM/PM ₁₀	0.01	0.02
			VOC	0.02
			SO ₂	0.01
			NO _x	0.06
			CO	0.08
OVENFUG-1	Heat Treat Oven	PM/PM ₁₀	0.10	0.42
		No. 1 (8)	VOC	<0.10
		<0.10		
		NO _x	0.80	3.50
		CO	0.17	0.74
		SO ₂	<0.01	<0.01
OVENFUG-2	Heat Treat Oven	PM/PM ₁₀	0.10	0.42
		No. 2 (8)	VOC	<0.10
		<0.10		
		NO _x	0.80	3.50
		CO	0.17	0.74
		SO ₂	<0.01	<0.01

OVENFUG-3	Heat Treat Oven	PM/PM ₁₀	0.10	0.42
		No. 3 (8)	VOC	<0.10
		<0.10		
			NO _x 0.80	3.50
			CO 0.17	0.74
OVENFUG-4	Heat Treat Oven		SO ₂ <0.01	<0.01
		PM/PM ₁₀	0.10	0.42
		No. 4 (8)	VOC	<0.10
		<0.10		
			NO _x 0.80	3.50
ST-B17	34 Cu. Ft. Shot Blast		CO 0.17	0.74
			SO ₂ <0.01	<0.01
		PM/PM ₁₀	0.26	1.13
		Machine (8)		
CLEAN-2	Manual and Booth Grinding	PM/PM ₁₀	1.42	6.20
		Stations (10 each) (8)		
ST-WOOD	Pattern Shop Cyclone (8)	PM	3.60	15.77
		PM ₁₀	1.80	7.88
BTH-1 and BTH-2	Spray Paint Booths (8)	PM/PM ₁₀	0.28	0.38
		VOC	4.73	7.28
			NH ₃ 0.13	0.17

(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) PM - particulate matter, suspended in the atmosphere, including PM₁₀.

PM₁₀ - 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.

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

non-VOC - gaseous emissions that are not considered VOC

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

CO - carbon monoxide

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NH₃ - ammonia

- (4) Annual emissions included in total rates specified for EPN ST-B1.
- (5) Annual emissions included in total rates specified for EPN ST-B9.
- (6) Annual emissions included in total rates specified for EPN ST-B23.
- (7) Emissions from these sources can exit any of all the associated Stacks (EPNs ST-B18, ST-B19, ST-B20, ST-B21, and/or ST-B22).
- (8) Sources are authorized by Texas Commission on Environmental Quality Permit By Rule and emission rates are estimates.

Dated ____