

## 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.

## AIR CONTAMINANTS DATA

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 <sub>10</sub> (8)	0.22	0.90
		SO <sub>2</sub>	0.76	1.43
		NO <sub>x</sub>	25.46	106.91
		CO	56.14	235.76
		VOC	5.93	24.89
ST-B18	B18 Baghouse Exhaust Stack [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]	PM/PM <sub>10</sub> (9)	0.28	1.15
		SO <sub>2</sub>	0.05	0.05
		NO <sub>x</sub>	1.42	5.93
		CO	2.96	12.43
		VOC	0.33	1.38
ST-B1	Baghouse B-1 Exhaust Stack [NF Mold Machines, NF Pouring Floor (PRV - 1/2/3/4)] (6)	PM/PM <sub>10</sub> (10)	1.38	5.76
		VOC	9.74	40.89
ST-B19	Baghouse B-19 Exhuast Stack [Mold Machines, Vibramill,	PM/PM <sub>10</sub> (11)	0.34	1.41
		VOC	9.74	(4)

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			<u>lb/hr</u>	<u>TPY</u>
	Oscillating Conveyors, Didion, Royer Baghouse Stack, NF Pouring Floor, NF Shakeout Exhaust (SOE)-1] (6)			
ST-B2	Baghouse B-2 Exhaust Stack [Royer Handling Machine]	PM/PM <sub>10</sub> (12)	0.06	0.24
		VOC	0.57	2.38
		NH <sub>3</sub>	0.27	1.10
ST-B9	Baghouse B-9 Exhaust Stack	PM/PM <sub>10</sub> (13)	0.13	11.26
		[South Foundry (SF) Shakeout	VOC	
		17.20	68.57	
		(SOE-2), SF Pouring Floor (PF),	SO <sub>2</sub>	
			<0.01	<0.01
		No-Bake Molds (Air Set),	NO <sub>x</sub>	
			0.28	0.95
		and Core Room]	CO	0.24
			0.80	
		Non-VOC	0.13	0.35
ST-B20	Baghouse B-20 Exhaust Stack	PM/PM <sub>10</sub> (14)	0.16	0.67
		[SF Shakeout Exhaust (SOE-2),	VOC	
			17.20	(5)
	SFPF, Vibramill Sand Reclaim,	SO <sub>2</sub>	<0.01	(5)
	SF Sand Tanks, No-Bake	NO <sub>x</sub>	0.28	(5)
	Molds (Air Set), Core Room] (6)	CO	0.24	(5)
		Non-VOC	0.13	(5)
ST-B21	Baghouse B-21 Exhaust Stack	PM/PM <sub>10</sub> (15)	0.13	0.54
		[SFPF, SF Rotary Screen, South	VOC	
			17.20	(5)
		Foundry Muller (SFM), SF Sand	SO <sub>2</sub>	
			<0.01	(5)
		Elevator, SF Sand Tanks, Air Set/NO <sub>x</sub>		

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			lb/hr	TPY
			0.28	(5)
		No-Bake Molds, Core Room] (6)	CO	
			0.24	(5)
		Non-VOC	0.13	(5)
ST-SCR2	Core Room Scrubber Exhaust	PM/PM <sub>10</sub>	0.06	0.23
		Stack	VOC	<0.01
			<0.01	
		SO <sub>2</sub>	<0.01	<0.01
OVENFUG-1	Heat Treat Oven	PM/PM <sub>10</sub>	0.10	0.42
		No. 1 (7)	VOC	<0.10
		<0.10		
		NO <sub>x</sub>	0.80	3.50
		CO	0.17	0.74
		SO <sub>2</sub>	<0.01	<0.01
OVENFUG-2	Heat Treat Oven	PM/PM <sub>10</sub>	0.10	0.42
		No. 2 (7)	VOC	<0.10
		<0.10		
		NO <sub>x</sub>	0.80	3.50
		CO	0.17	0.74
		SO <sub>2</sub>	<0.01	<0.01
OVENFUG-3	Heat Treat Oven	PM/PM <sub>10</sub>	0.10	0.42
		No. 3 (7)	VOC	<0.10
		<0.10		
		NO <sub>x</sub>	0.80	3.50
		CO	0.17	0.74
		SO <sub>2</sub>	<0.01	<0.01
OVENFUG-4	Heat Treat Oven	PM/PM <sub>10</sub>	0.10	0.42
		No. 4 (7)	VOC	<0.10

		<0.10		
			NO <sub>x</sub> 0.80	3.50
			CO 0.17	0.74
			SO <sub>2</sub> <0.01	<0.01
ST-B17	34 Cu. Ft. Shot Blast	PM/PM <sub>10</sub> Machine (7)	0.26	1.13
CLEAN-2	Manual and Booth Grinding	PM/PM <sub>10</sub> Stations (10 each) (7)	1.42	6.20
ST-WOOD	Pattern Shop Cyclone (7)	PM	3.60	15.77
		PM <sub>10</sub>	1.80	7.88
BTH-1 and BTH-2	Spray Paint Booths (7)	PM/PM <sub>10</sub>	0.28	0.38
		VOC	4.73	7.28
		NH <sub>3</sub>	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 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.  
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1.  
non-VOC - gaseous emissions that are not considered VOC  
NO<sub>x</sub> - total oxides of nitrogen  
SO<sub>2</sub> - sulfur dioxide  
CO - carbon monoxide  
NH<sub>3</sub> - 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) Emissions from these sources can exit any or all of the associated Stacks (EPNs ST-B1,ST-B19,ST-B20, and/or ST-B21).
- (7) Sources are authorized by Texas Commission on Environmental Quality Permit By Rule and emission rates are estimates.
- (8) Until the implementation of Special Condition (SC) No. 14, EPN ST-B8 is allowed a maximum hourly PM/PM<sub>10</sub> emission rate of 2.23 pounds per hour (lbs/hr) and a maximum annual PM/PM<sub>10</sub> emission rate of 9.76 tons per year (tpy).
- (9) Until the implementation of SC No. 14, EPN ST-B18 is allowed a maximum hourly PM/PM<sub>10</sub> emission rate of 2.73 lb/hr and a maximum annual PM/PM<sub>10</sub> emission rate of 11.44 tpy.
- (10) Until the implementation of SC No. 14, EPN ST-B1 is allowed a maximum hourly PM/PM<sub>10</sub> emission rate of 1.72 lbs/hr and a maximum annual PM/PM<sub>10</sub> emission rate of 7.20 tpy.
- (11) Until the implementation of SC No. 14, EPN ST-B19 is allowed a maximum hourly PM/PM<sub>10</sub> emission rate of 3.35 lbs/hr and a maximum annual PM/PM<sub>10</sub> emission rate of 14.68 tpy.
- (12) Until the implementation of SC No. 14, EPN ST-B2 is allowed a maximum hourly PM/PM<sub>10</sub> emission rate of 1.12 lbs/hr and a maximum annual PM/PM<sub>10</sub> emission rate of 4.88 tpy.
- (13) Until the implementation of SC No. 14, EPN ST-B9 is allowed a maximum hourly PM/PM<sub>10</sub> emission rate of 2.57 lbs/hr and a maximum annual PM/PM<sub>10</sub> emission rate of 10.80 tpy.
- (14) Until the implementation of SC No. 14, EPN ST-B20 is allowed a maximum hourly PM/PM<sub>10</sub> emission rate of 3.17 lbs/hr and a maximum annual PM/PM<sub>10</sub> emission rate of 13.29 tpy.
- (15) Until the implementation of SC No. 14, EPN ST-B21 is allowed a maximum hourly PM/PM<sub>10</sub> emission rate of 2.57 lbs/hr and a maximum annual PM/PM<sub>10</sub> emission rate of 10.80 tpy.

Dated June 8, 2006