#### 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	Emission Rates	
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]	$PM/PM_{10}$ $SO_2$ $NO_x$ CO VOC	0.22 0.80 17.43 37.26 3.93	0.90 1.05 70.23 154.76 16.34
ST-B1	Baghouse B-1 Exhaust Stack [NF Mold Machines, NF Pouring Floor Ladle-2 (PRV - 5/6)]	$PM/PM_{10}$ $SO_2$ $NO_x$ CO VOC	0.09 0.05 1.30 2.29 3.86	0.36 0.06 4.25 8.62 16.18
ST-B2	Baghouse B-2 Exhaust Stack [Royer Handling Machine]	$\begin{array}{c} PM/PM_{10} \\ SO_2 \\ NO_x \\ CO \\ VOC \\ NH_3 \end{array}$	0.06 0.01 0.29 0.24 1.94 0.02	0.24 0.01 0.21 0.18 2.44 0.06
ST-B18	B18 Baghouse Exhaust Stack [Power Roof Vents (PRV- 1/2/3/4, North Foundry (NF) Sand Tanks and Bins, NF Benton Bin, NF Muller, NF Rotary Screen and NFS and Reclaimer] (7)	NO <sub>x</sub> ite CO	0.28 0.05 1.30 2.29 3.86	1.15 (4) (4) (4) (4)
ST-B19	Baghouse B-19 Exhuast Stack [Mold Machines, Vibramill, Oscillating Conveyors, Didion, NF Pouring Floor, NF Shakeout Exhaust (SOE)-1] (7)	$PM/PM_{10}$ $SO_2$ $NO_x$ CO VOC	0.34 0.05 1.30 2.29 3.86	1.41 (4) (4) (4) (4)

# AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	Emission	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
ST-B9	Baghouse B-9 Exhaust Stack [South Foundry (SF) Shakeout (SOE-2), SF Pouring Floor (PF), No-Bake Molds (Air Set), and Core Room]	$PM/PM_{10}$ $SO_2$ $NO_x$ CO VOC Non-VOC	0.13 0.01 0.28 0.24 17.69 0.14	0.54 0.01 0.28 0.24 71.47 0.37
ST-B20	Baghouse B-20 Exhaust Stack [SF Shakeout Exhaust (SOE-2), SFPF, Vibramill Sand Reclaim, SF Sand Tanks, No-Bake Molds (Air Set), Core Room] (7)	$PM/PM_{10}$ VOC $SO_2$ $NO_x$ CO Non-VOC	0.16 17.69 0.01 0.28 0.24 0.14	0.67 (5) (5) (5) (5) (5)
ST-B21	Baghouse B-21 Exhaust Stack [SFPF, SF Rotary Screen, South Foundry Muller (SFM), SF Sand Elevator, SF Sand Tanks, Air Set No-Bake Molds, Core Room] (7)	PM/PM <sub>10</sub> VOC SO <sub>2</sub> / NO <sub>x</sub> CO Non-VOC	0.13 17.69 0.01 0.28 0.24 0.14	0.54 (5) (5) (5) (5) (5)
ST-SCR2	Core Room Scrubber Exhaust Stack	PM/PM <sub>10</sub> VOC SO <sub>2</sub>	0.06 <0.01 <0.01	0.23 <0.01 <0.01
ST-B22	Sand Plant/Sand System Baghouse Stack (7)	PM/PM <sub>10</sub> VOC	0.19 5.47	0.79 (6)
ST-B23	Pouring and Cooling Baghouse Stack	PM/PM <sub>10</sub> VOC	0.19 5.47	0.79 22.94
LADLE-3	Ladle Transfer	$PM/PM_{10}$ VOC $SO_2$ $NO_x$ CO	0.01 0.02 0.01 0.06 0.08	0.02 0.04 0.01 0.13 0.19

### AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	Emission	n Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
OVENFUG-1	Heat Treat Oven No. 1 (8)	$PM/PM_{10}$ $VOC$ $NO_{x}$ $CO$ $SO_{2}$	0.10 <0.10 0.80 0.17 <0.01	0.42 <0.10 3.50 0.74 <0.01
OVENFUG-2	Heat Treat Oven No. 2 (8)	$PM/PM_{10}$ VOC $NO_{x}$ CO $SO_{2}$	0.10 <0.10 0.80 0.17 <0.01	0.42 <0.10 3.50 0.74 <0.01
OVENFUG-3	Heat Treat Oven No. 3 (8)	$\begin{array}{c} PM/PM_{10} \\ VOC \\ NO_x \\ CO \\ SO_2 \end{array}$	0.10 <0.10 0.80 0.17 <0.01	0.42 <0.10 3.50 0.74 <0.01
OVENFUG-4	Heat Treat Oven No. 4 (8)	$\begin{array}{c} PM/PM_{10} \\ VOC \\ NO_x \\ CO \\ SO_2 \end{array}$	0.10 <0.10 0.80 0.17 <0.01	0.42 <0.10 3.50 0.74 <0.01
ST-B17	34 Cu. Ft. Shot Blast Machine (8)	PM/PM <sub>10</sub>	0.26	1.13
CLEAN-2	Manual and Booth Grinding Stations (10 each) (8)	PM/PM <sub>10</sub>	1.42	6.20
ST-WOOD	Pattern Shop Cyclone (8)	PM PM <sub>10</sub>	3.60 1.80	15.77 7.88
BTH-1 and BTH-2	Spray Paint Booths (8)	$PM/PM_{10}$ $VOC$ $NH_3$	0.28 4.73 0.13	0.38 7.28 0.17

<sup>(1)</sup> 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 PM greater than 10 microns is emitted.

SO<sub>2</sub> - sulfur dioxide

NO<sub>x</sub> - total oxides of nitrogen

CO - carbon monoxide

VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code '

101.1.

non-VOC - gaseous emissions that are not considered VOC

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) 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-21, and/or ST-B22).
- (8) Sources are authorized by Texas Commission on Environmental Quality permit by rule and emission rates are estimates.

Dated August 4, 2009