

## Emission Sources - Maximum Allowable Emission Rates

Permit Number 186 and PSDTX1102

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 (7)	
			lbs/hour	TPY (6)
ARCFURVNT	Two Electric Arc Furnaces Baghouse Stack	CO	75.25	270.90
		NO <sub>x</sub>	29.89	107.60
		Pb (5)	2.57	0.87
		PM	15.32	67.10
		PM <sub>10</sub>	15.32	67.10
		PM <sub>2.5</sub>	15.32	67.10
		SO <sub>2</sub>	2.94	10.58
		VOC	7.33	26.37
ROOFVNT	Two Electric Arc Furnaces Roof Vent (Charging/Pouring, Soaking Pit, Ladle Preheat, Slocool, Flamecut, Scarfer, Ingot Warmer, Ingot Cropper, and Man Heater)	CO	4.27	10.79
		NO <sub>x</sub>	4.13	8.74
		Pb (5)	0.05	0.02
		PM	13.32	77.54
		PM <sub>10</sub>	13.32	47.49
		PM <sub>2.5</sub>	13.32	47.49
		SO <sub>2</sub>	0.07	0.22
		VOC	0.35	0.90
SCRAPHAND	Scrap Handling (4)	PM	5.50	19.80
		PM <sub>10</sub>	0.28	0.99
		PM <sub>2.5</sub>	0.28	0.99
TORCHCUT	Torch Cutting	CO	0.57	2.49
		NO <sub>x</sub>	1.90	8.32
		PM	0.05	0.23
		PM <sub>10</sub>	0.05	0.23

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		PM <sub>2.5</sub>	0.05	0.23
		SO <sub>2</sub>	0.01	0.02
		VOC	0.04	0.16
SOAKPITS	Ingot Pre-Heating Soakpits (Soakpit Nos. 1, and 10 – 13)	CO	28.41	55.10
		NO <sub>x</sub>	33.82	65.59
		PM	2.57	4.98
		PM <sub>10</sub>	2.57	4.98
		PM <sub>2.5</sub>	2.57	4.98
		SO <sub>2</sub>	0.20	0.39
		VOC	1.86	3.61
HTREATFUR	Heat Treating Furnaces Stack	CO	44.96	81.99
		NO <sub>x</sub>	26.76	48.81
		PM	4.07	7.42
		PM <sub>10</sub>	4.07	7.42
		PM <sub>2.5</sub>	4.07	7.42
		SO <sub>2</sub>	0.32	0.59
		VOC	2.94	5.37
842LVR	Ladle Vacuum Refining Baghouse Stack	CO	7.79	16.30
		NO <sub>x</sub>	6.35	6.96
		PM	0.27	0.29
		PM <sub>10</sub>	0.27	0.29
		PM <sub>2.5</sub>	0.27	0.29
		SO <sub>2</sub>	10.63	11.64
		VOC	0.81	1.70

- (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) CO - carbon monoxide  
NO<sub>x</sub> - total oxides of nitrogen

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Pb - lead

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

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

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

(4) Fugitive emissions are an estimate only.

(5) Hazardous Air Pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C

(6) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.

(7) Planned startup and shutdown emissions are included. Maintenance activities are not authorized by this permit.

Date: February 25, 2014