

Emission Sources - Maximum Allowable Emission Rates

Permit Number 3287

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
1	Plant I EAF Furnace Baghouse Stack (5 and 6)	PM	3.42	--
		PM ₁₀	3.42	--
		CO	10.50	--
		NO _x	1.65	--
		SO ₂	0.30	--
		VOC	0.17	--
2	Plant I Sand System and Thermfire Baghouse Stack	PM	2.63	11.50
		PM ₁₀	2.63	11.50
		NO _x	0.40	0.88
		CO	2.00	4.38
		VOC	0.10	0.22
		SO ₂	0.01	0.02
3	Plant II EAF Furnace Baghouse Stack (5 and 6)	PM	4.06	--
		PM ₁₀	4.06	--
		CO	17.50	--
		NO _x	2.75	--
		SO ₂	0.50	--
		VOC	0.29	--
1 and 3	Plant I EAF Furnace and Plant II EAF Furnace Stacks (5 and 6)	PM	--	32.78
		PM ₁₀	--	32.78

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		CO	--	31.50
		NO _x	--	4.95
		SO ₂	--	0.90
		VOC	--	0.52
4	Plant II Sand System Baghouse Stack	PM	1.79	7.83
		PM ₁₀	1.79	7.83
F5A	Plant I Building Fugitives (6) EAF I, Plt I Mold Core and Natural Gas Combustion	PM	2.11	2.54
		PM ₁₀	1.06	1.28
		NO _x	0.27	0.98
		CO	0.54	1.20
		SO ₂	0.02	0.02
		VOC	8.78	38.45
		HAPS	<0.83	<3.65
F5B	Plant II Building Fugitives (6) EAF II, Plt II Mold Core and Natural Gas Combustion, Table Blast, Induction Furnace, and Clean Operations	PM	4.92	7.80
		PM ₁₀	3.17	5.91
		NO _x	0.58	2.21
		CO	1.02	2.44
		SO ₂	0.03	0.03
		VOC	13.19	57.71
		HAPS	<1.25	<5.48
8	Plant II Thermfire Reclamation and Shot Blast Baghouse Stack	PM	2.30	10.06
		PM ₁₀	2.30	10.06
		NO _x	1.93	7.51
		CO	3.59	12.58
		VOC	0.52	1.00

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		SO ₂	0.33	1.18
9	Heat Treat Furnace No. 1	PM	0.05	0.20
		PM ₁₀	0.05	0.20
		NO _x	0.60	2.63
		CO	0.50	2.21
		VOC	0.03	0.14
		SO ₂	<0.01	0.02
10	Heat Treat Furnace No. 2	PM	0.05	0.20
		PM ₁₀	0.05	0.20
		NO _x	0.60	2.63
		CO	0.50	2.21
		VOC	0.03	0.14
		SO ₂	<0.01	0.02
11	Heat Treat Furnace No. 3	PM	0.05	0.20
		PM ₁₀	0.05	0.20
		NO _x	0.60	2.63
		CO	0.50	2.21
		VOC	0.03	0.14
		SO ₂	<0.01	0.02
12	Amine Scrubber No. S-1	VOC	0.05	0.23
13	Amine Scrubber No. S-2	VOC	0.05	0.23
14	Arc Weld Booth Baghouse	PM	1.16	5.08
		PM ₁₀	1.16	5.08

(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.

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- (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.
NO_x - total oxides of nitrogen
CO - carbon monoxide
VOC - volatile organic compounds
SO₂ - sulfur dioxide
HAPS - hazardous air pollutants
- (4) Fugitive emissions are an estimate.
- (5) Furnace Nos. I and II annual emissions combined.
- (6) Trace metals included in PM₁₀ emissions are speciated and quantified in the permit application representations.
- (7) HAPS included in the VOC emission values are speciated and quantified in the permit application representations.
- (8) Planned startup and shutdown emissions are included. Maintenance activities are not authorized by this permit.

* Emission rates are based on and the facilities are limited by the following maximum operating parameters and schedule:

24 Hrs/day 7 Days/week 52 weeks/year or 8,760 Hrs/year

Date: February 21, 2013