

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 (9)	
			lbs/hour	TPY (4)
1	Plant I EAF Furnace Baghouse Stack (7)	PM	3.42	--
		PM ₁₀	3.42	--
		PM _{2.5}	3.42	--
		CO	10.50	--
		NO _x	1.65	--
		SO ₂	0.30	--
		VOC	0.17	--
3	Plant II EAF Furnace Baghouse Stack (7)	PM	4.06	--
		PM ₁₀	4.06	--
		PM _{2.5}	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 Baghouse Stacks (6) (7)	PM	--	32.78
		PM ₁₀	--	32.78
		PM _{2.5}	--	32.78
		CO	--	31.50
		NO _x	--	4.95
		SO ₂	--	0.90
		VOC	--	0.52

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2	Plant I Sand System and Thermfire™ Reclamation Baghouse Stack	PM	2.63	11.50
		PM ₁₀	2.63	11.50
		PM _{2.5}	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
4	Plant II Sand System Baghouse Stack	PM	1.79	7.83
		PM ₁₀	1.79	7.83
		PM _{2.5}	1.79	7.83
F5A	Plant I Building Fugitives (Plt I EAF, Plt I Mold Core and Natural Gas Combustion) (5)	PM	2.11	2.54
		PM ₁₀	1.06	1.28
		PM _{2.5}	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 (8)	<0.83	<3.65
F5B	Plant II Building Fugitives (Plt II EAF, Plt II Mold Core and Natural Gas Combustion, Table Blast, Induction Furnace, and Clean Operations) (5)	PM	4.92	7.80
		PM ₁₀	3.17	5.91
		PM _{2.5}	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 (8)	<1.25	<5.48

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8	Plant II Thermfire™ Reclamation and Shot Blast Baghouse Stack	PM	2.30	10.06
		PM ₁₀	2.30	10.06
		PM _{2.5}	2.30	10.06
		NO _x	1.93	7.51
		CO	3.59	12.58
		VOC	0.52	1.00
		SO ₂	0.33	1.18
9	Heat Treat Furnace No. 1 Stack	PM	0.05	0.20
		PM ₁₀	0.05	0.20
		PM _{2.5}	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 Stack	PM	0.05	0.20
		PM ₁₀	0.05	0.20
		PM _{2.5}	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 Stack	PM	0.05	0.20
		PM ₁₀	0.05	0.20
		PM _{2.5}	0.05	0.20
		NO _x	0.60	2.63
		CO	0.50	2.21

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		VOC	0.03	0.14
		SO ₂	<0.01	0.02
13	Amine Scrubber No. S-2 Stack	VOC	0.10	0.45
14	Arc Weld Booth Baghouse Stack	PM	1.16	5.08
		PM ₁₀	1.16	5.08
		PM _{2.5}	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.
- (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- NO_x - total oxides of nitrogen
- SO₂ - sulfur dioxide
- PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
- PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
- PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
- CO - carbon monoxide
- HAP - 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
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) Plant I EAF Furnace and Plant II EAF Furnace annual emissions combined.
- (7) Trace metals included in PM₁₀ emissions are speciated and quantified in the permit application representations.
- (8) HAPS included in the VOC emission values are speciated and quantified in the permit application representations.
- (9) Planned startup and shutdown emissions are included. Maintenance activities are not authorized by this permit.

Date: September 13, 2016