

Emission Sources - Maximum Allowable Emission Rates

Permit Number 19793

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	
			lbs/hour	TPY (4)
65.18	Flash Dryer Baghouse Stack	PM ₁₀	1.50	6.57
		SO ₂	0.25	1.10
		NO _x	1.76	7.73
		CO	1.48	6.49
		VOC	0.10	0.43
		NiO(5)	0.06	0.28
		V ₂ O ₅ (5)	0.04	0.16
		Al ₂ O ₃ (5)	1.03	4.53
67.05	Alumina Concentrate Bin Vent	PM ₁₀	0.02	0.08
		NiO(5)	0.01	0.01
		V ₂ O ₅ (5)	0.01	0.01
		Al ₂ O ₃ (5)	0.01	0.04
65.64	Coal Bin Vent	PM	0.02	0.08
		PM ₁₀	0.02	0.08
		C(5)	0.01	0.05

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009	Electric Arc Furnace Scrubber Stack	PM ₁₀	1.47	6.44
		SO ₂	6.49	28.45
		CO	5.56	24.34
		NO _x	2.55	11.18
		VOC	1.34	5.88
		NiO(5)	0.01	0.04
		V ₂ O ₅ (5)	0.01	0.02
		Al ₂ O ₃ (5)	0.35	1.50
011	Electric Arc Furnace Baghouse Stack	PM ₁₀ (6)	5.14	5.78
66.13	AC Loading	PM ₁₀	1.01	0.02
68-14A	Cooling Tower	PM ₁₀	0.02	0.10
68-14B	Cooling Tower	PM ₁₀	0.02	0.10
68-34AB	Cooling Tower	PM ₁₀	0.05	0.20
68-08AB	Cooling Tower	PM ₁₀	0.02	0.10
IT-GEN	Natural Gas Emergency IT Backup Generator	VOC	0.27	0.01
		NO _x	1.05	0.03
		CO	8.70	0.23
		SO ₂	< 0.01	<0.01
		PM	0.12	<0.01
		PM ₁₀	0.12	<0.01
		PM _{2.5}	0.12	<0.01
EAF-ENG	EAF Generator	VOC	2.27	0.11
		NO _x	9.51	0.47
		CO	5.20	0.26
		SO ₂	1.85	0.09

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		PM	0.30	0.01
		PM ₁₀	0.30	0.01
		PM _{2.5}	0.30	0.01

- (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
- C - carbon
- NiO - nickel oxide
- V₂O₅ - vanadium pentoxide
- Al₂O₃ - aluminum oxide
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) These emissions are included in the total particulate at this source.
- (6) Maximum tapping and pouring operation of 2,100 Hrs/yr

Date: December 20, 2013