

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. 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 *	
			lb/hr	TPY
65.18	Flash Dryer Baghouse Stack	PM ₁₀	1.5	6.57
		SO ₂	0.01	0.05
		NO _x	1.76	7.73
		CO	1.48	6.49
		VOC	0.10	0.43
		NiO**	0.06	0.28
		V ₂ O ₅ **	0.04	0.16
		Al ₂ O ₃ **	1.03	4.53
67.05	Alumina Concentrate Bin Vent	PM ₁₀	0.02	0.08
		NiO**	0.01	0.01
		V ₂ O ₅ **	0.01	0.01
		Al ₂ O ₃ **	0.01	0.04
65.64	Coal Bin Vent	PM	0.02	0.08
		PM ₁₀	0.02	0.08
		C**	0.01	0.05
009	Electric Arc Furnace Scrubber Stack	PM ₁₀	1.46	6.37
		SO ₂	6.44	28.19
		CO	5.39	23.62
		NO _x	2.46	10.76
		VOC	0.32	1.39
		NiO**	0.01	0.04
		V ₂ O ₅ **	0.01	0.02
		Al ₂ O ₃ **	0.35	1.50
011	Electric Arc Furnace Baghouse Stack	PM ₁₀ ***	5.14	5.78

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AIR CONTAMINANTS DATA				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
66.13	AC Loading	PM ₁₀	1.01	0.02
68-14A	Cooling Tower	PM ₁₀ (4)	0.02	0.10
68-14B	Cooling Tower	PM ₁₀ (4)	0.02	0.10
68-34AB	Cooling Tower	PM ₁₀ (4)	0.05	0.20
68-08AB	Cooling Tower	PM ₁₀ (4)	0.02	0.10

(1) Emission point identification - either specific equipment designation or emission point number from a plot plan.

(2) Specific point source names. 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 - particulate matter, suspended in the atmosphere, including PM₁₀

PM₁₀ - particulate matter equals 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.

CO - carbon monoxide

C - carbon

NiO - nickel oxide

V₂O₅ - vanadium pentoxide

Al₂O₃ - aluminum oxide

(4) Particulate emissions are authorized under Permit By Rule registration No. 73792.

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

schedule:

24 Hrs/day 7 Days/week 52 Weeks/year

Maximum electric arc furnace operation of 8,760 Hrs/yr

*** Maximum tapping and pouring operation of 2,100 Hrs/yr

** These emissions are included in the total particulate at this source.

Dated May 4, 2007