

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 5918B

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
SC-1	Kiln No. 1 Baghouse	PM	10.8	47.3
		PM ₁₀	9.1	39.7
		VOC	18.8	82.2
		NO _x	295.5	1294.3
		SO ₂	33.4	146.3
		CO	100.0	438.0
		HCl	0.42	1.8
SC-2	Kiln No. 2 Baghouse	PM	10.8	47.3
		PM ₁₀	9.1	39.7
		VOC	18.8	82.2
		NO _x	295.5	1294.3
		SO ₂	33.4	146.3
		CO	100.0	438.0
		HCl	0.42	1.8
SC-3	Kiln No. 3 Baghouse	PM	11.8	51.7
		PM ₁₀	9.9	43.4
		VOC	20.7	90.7
		NO _x	306.0	1340.3
		SO ₂	34.6	151.5
		CO	100.0	438.0
		HCl	0.42	1.8
S-A-19	FCC Catalyst Silo Baghouse	PM	1.29	5.63
		PM ₁₀	0.64	2.82
Fug**	Material Handling (4)	PM	0.41	1.80
		PM ₁₀	0.19	0.85
F-A-7b	Styrene Catalyst Bunker Stockpile (4)	PM		0.05
		PM ₁₀		0.03

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
F-A-15a	Styrene Catalyst Stockpile (4)	PM		0.10
		PM ₁₀		0.05
F-A-15b	Mill Scale Stockpile (4)	PM		0.35
		PM ₁₀		0.16
F-A-15c	Aluminum Filter Cake Stockpile (4)	PM		0.10
		PM ₁₀		0.05
F-A-15d	Bauxite Ore Stockpile (4)	PM		0.10
		PM ₁₀		0.05
F-A-16b	Mill Scale Bunker Stockpile (4)	PM		0.17
		PM ₁₀		0.08
F-A-20b	Aluminum Filter Cake Bunker Stockpile (4)	PM		0.05
		PM ₁₀		0.03

FUEL OIL USAGE

1, 2 and 3	Kilns (5)	PM ₁₀	3.39	0.05
		VOC	0.34	0.01
		NO _x	33.90	0.51
		SO ₂	74.84	1.12
		CO	8.49	0.13

(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) PM - particulate matter, suspended in the atmosphere, including PM₁₀.

PM₁₀ - particulate matter less than or equal to 10 microns in diameter. Where PM is not listed, it shall

- be assumed that no particulate matter greater than 10 microns is emitted.

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- VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NO_x - total oxides of nitrogen
SO₂ - sulfur dioxide
CO - carbon monoxide
HCl - hydrochloric acid
- (4) Fugitive emissions are an estimate only.
(5) The emissions are based on fuel consumption only.
- ** Emission points are represented in permit application dated December 1995 (Revised). Emission rates are a total for all alternate materials.
- ** Emission rates are based on and the facilities are limited by the following maximum operating schedule:
____Hrs/day ____Days/week ____Weeks/year or 8,760 Hrs/year
- * The maximum fuel usage for fuel oil is 1,697 gallons per hour and 61,107 gallons per year for the three kilns. The fuel oil should be burned in the kilns for only 30 hours per year.

Dated August 25, 2008