

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 21731

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.

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	AIR CONTAMINANTS DATA	
			Emission Rates *	
			lb/hr	TPY**
1	Scrubber Stack	HCl	0.46	0.11
		Al(OH) ₃	0.01	0.01
2	AlCl ₃ Tank Vents (T-4901, T-4902, T-4903, T-4906, and T-4909)	AlCl ₃	0.02	0.11
3	Fugitives (4)	IOC	1.68	7.34
4	Boilers	NO _x	0.50	2.19
		CO	0.42	1.84
		SO ₂	0.01	0.01
		PM/PM ₁₀ /PM _{2.5}	0.04	0.17
		VOC	0.03	0.13
5	Aluminum Melter	NO _x	0.15	0.64
		CO	0.12	0.54
		SO ₂	0.01	0.01
		PM/PM ₁₀ /PM _{2.5}	0.01	0.05
		VOC	0.01	0.04
6	Kettle No. 1	Aluminum Salts	0.01	0.04
7	Kettle No. 2	Aluminum Salts	0.01	0.04
8	Kettle No. 3	Aluminum Salts	0.01	0.04
9	Kettle No. 4	Aluminum Salts	0.01	0.04
10	Silo	Al(OH) ₃	0.01	0.04

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11	Water White ACS Tanks (T-4907 and T-4908)	AlCl ₃	0.01	0.04
12	Filtered ACH Tanks (T-7903, T-7904, T-7905, and T-7907)	Aluminum Salts	0.71	3.11
13	Slurry Pots (B-202-1 and BB-202-2)	Aluminum Salts	0.23	1.93
14	Unfiltered ACH Tanks (T-7901, T-7902, T-7906, and T-7908)	Aluminum Salts	0.71	3.12
15	Weak ACS (T-4910)	AlCl ₃	0.01	0.06
LOAD 1	Truck Loading	Aluminum Salts	2.87	2.83
LOAD 2	Container Loading	HCl	24.6	3.54
LOAD 3	Truck Loading	Aluminum Salts	2.45	0.35
LOAD 4	Tote/Drum Loading	Aluminum Salts	1.43	0.10
(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 (PM) equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.
PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 2.5 microns is emitted.
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
IOC - inorganic compounds
HCl - hydrogen chloride
Al(OH)₃ - aluminum trihydrate
AlCl₃ - aluminum chloride

- (4) Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.

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

Hrs/day___Days/week___Weeks/year___or Hrs/year 8,760

- ** Annual emissions are based on a rolling 12-month average.

Dated: August 10, 2010