

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 1618

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
7-AL-CM	Aluminum Chemical Mill Filter Stack (Building 7)	PM ₁₀	0.11	0.40
		NaOH	0.03	0.12
		Aluminum Salts	<0.01	0.02
		Triethanolamine	<0.01	0.02
		Trace Metals (less Al)	<0.01	<0.01
7F-AL-CM	Building 7 Fugitive (4)	PM ₁₀	0.05	0.20
		NaOH 0.02	0.06	
		Aluminum Salts	<0.01	<0.01
		Triethanolamine	<0.01	<0.01
7-MASK	Horizontal Dip CAS Stack (Building 7)	PM ₁₀ (AC-972)	1.30	1.41
		PERC 11.10 (AC-818)	20.42	
		Toluene	12.70	10.50
		VMP Naphtha	9.55	7.90
		EGBE 6.68 (AC-972)	7.19	
7F-MASK	Building 7 Fugitives (4)	Acetic Acid	0.04	0.01
		Acetone	0.62	0.07
		MEK	0.62	0.07

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
5E-MASK/ 5W-MASK	Spray and Dip Maskant (Building 5)	PM ₁₀ (AC-972)	1.12	0.21
		OXSOL 100 (AC-818-O)	25.00	13.44
		EGBE (AC-972)	2.87	0.54
		Toluene	48.13	7.87
		VMP Naphtha	0.39	0.63
		PERC 0.89 (AC-818-O-160P)	0.45	
5F-WIPE	Building 5 Fugitives (4)	Acetic Acid	0.02	<0.01
		Acetone	0.62	0.07
		MEK	0.62	0.07
4-TI-CM	Titanium Chemical Mill Scrubber Stack (Building 4)	PM ₁₀ (HF and HNO ₃ fume)	0.01	0.02
		NO _x	4.80	4.71
4F-TI-CM	Titanium Building Fugitives (Building 4) (4)	PM ₁₀ (HF and HNO ₃ fume)	<0.01	0.02
		NO _x	0.01	0.50
3N-STL-CM	Steel Chemical Mill Scrubber Stack - North (Building 3)	PM ₁₀ (HCl and HNO ₃ fume)	0.04	0.14
		NO _x	1.82	1.37
3S-STL-CM	Steel Chemical Mill Scrubber Stack - South (Building 3)	PM ₁₀ (HCl and HNO ₃ fume)	0.22	0.79
		NO _x	10.29	7.74
3F-STL-CM	Steel Building Fugitives (Building 3) (4)	PM ₁₀ (HCl and HNO ₃ fume)	0.07	0.42
		NO _x	1.08	0.82
2F-MISC	Building 2 Fugitives (4)	VOC - Adhesive	1.00	0.50

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			<u>lb/hr</u>	<u>TPY</u>
			Fumes	
1-AL-CM	Aluminum Chemical Mill Scrubber Stack (Building 1)	PM ₁₀	0.11	0.40
		NaOH	0.03	
		Aluminum Salts	0.12	<0.01
		Triethanolamine	0.02	<0.01
		Trace Metals	0.02	<0.01
		(less Al)	<0.01	
1F-WIPE	Building 1 Fugitives (4)	Acetic Acid	0.04	<0.01
		Acetone	0.07	0.62
		MEK	0.62	0.07
2-FC-DRYER	Sludge Dryer Scrubber Vent	PM ₁₀	0.01	<0.01
Process Heat	Plant Site (4)	PM ₁₀	<1.00	<1.00
		CO	<1.00	<1.00
		SO ₂	<1.00	<1.00
		VOC	<1.00	<1.00
		NO _x	<1.00	<1.00
Room Heat	Plant Site (4)	PM ₁₀	<1.00	<1.00
		CO	<1.00	<1.00
		SO ₂	<1.00	<1.00
		VOC	<1.00	<1.00
		NO _x	<1.00	<1.00
GEN-FUG	General Acetone Usage Fugitives (4)	Acetone	5.03	1.11

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- (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) PM₁₀ - particulate matter equal to or less than 10 microns in diameter.
NO_x - total oxides of nitrogen
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
CO - carbon monoxide
SO₂ - sulfur dioxide
HF - hydrofluoric acid (vapor)
HCL - hydrochloric acid (vapor)
HNO₃ - nitric acid (vapor)
OX SOL 100 - parachlorobenzotrifluoride
EGBE - ethylene glycol monobutyl ether, 2-butoxyethanol
PERC - perchloroethylene
MEK - methyl ethyl ketone
NaOH - sodium hydroxide
VMP Naphtha - naphtha
Aluminum Salts - PM
Trace Metals - Iron, Copper, Nickel, Mercury, Pb, Silicon, Manganese, Magnesium, Chromium, Zinc, Zirconium, Titanium
- (4) Fugitive emissions are an estimate only.
- * Emission rates are based on and the facilities are limited by the following maximum operating schedule:

24 Hrs/day 6 Days/week 52 Weeks/year or 7,488 Hrs/year

Dated November 16, 2006