

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, 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)
7-AL-CM	Aluminum Chemical Mill Filter Stack (Building 7)	PM	0.11	0.40
		PM ₁₀	0.11	0.40
		PM _{2.5}	0.11	0.40
		NaOH	0.03	0.12
		Aluminum Salts	<0.01	0.02
		Triethanolamine	<0.01	0.02
		Trace Metals (lessAl)	<0.01	<0.01
7F-AL-CM	Building 7 Fugitive (5)	PM	0.05	0.20
		PM ₁₀	0.05	0.20
		PM _{2.5}	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	1.30	1.08
		PM ₁₀	1.30	1.08
		PM _{2.5}	1.30	1.08
		PERC	11.10	20.42
		Toluene	3.14	2.60
		VMP Naphtha	9.55	7.90
7F-MASK	Building 7 Fugitives (5)	Acetone	0.62	0.07
		MEK	0.62	0.07
5E-MASK/5W-MASK	Spray and Dip Maskant (Building 5)	PM	0.26	0.13
		PM ₁₀	0.26	0.13
		PM _{2.5}	0.26	0.13
		OX SOL 100	25.00	13.44
		VMP Naphtha	0.39	0.63

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		PERC	0.89	0.45
5F-WIPE	Building 5 Fugitives (5)	Acetone	0.62	0.07
		MEK	0.62	0.07
4-TI-CM	Titanium Chemical Mill Scrubber Stack (Building 4)	PM (HF and HNO ₃)	0.04	0.16
		PM ₁₀ (HF and HNO ₃)	0.04	0.16
		PM _{2.5} (HF and HNO ₃)	0.04	0.16
		HF	0.03	0.13
		HNO ₃	<0.01	0.03
		NOx	4.80	4.71
4F-TI-CM	Titanium Building Fugitives (Building 4) (5)	PM (HF and HNO ₃)	0.02	0.08
		PM ₁₀ (HF and HNO ₃)	0.02	0.08
		PM _{2.5} (HF and HNO ₃)	0.02	0.08
		HF	0.02	0.07
		HNO ₃	<0.01	0.01
		NOx	0.01	0.50
2F-MISC	Building 2 Fugitives (5)	VOC	1.00	0.50
1-AL-CM	Aluminum Chemical Mill Scrubber Stack (Building 1)	PM	0.11	0.40
		PM ₁₀	0.11	0.40
		PM _{2.5}	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
1F-WIPE	Building 1 Fugitives (5)	Acetone	0.62	0.07
		MEK	0.62	0.07
7F-MASK / 5F-WIPE / 1F-WIPE	Grouped Building 7, Building 5, and Building 1 Fugitives (5)	Acetic Acid	0.22	0.03
PROCHEAT	Process Heat-Plant Site (5)	PM	0.08	0.37
		PM ₁₀	0.08	0.37
		PM _{2.5}	0.08	0.37

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		CO	0.94	4.10
		SO ₂	0.01	0.03
		VOC	0.06	0.27
		NOx	1.11	4.88
ROOMHEAT	Room Heat-Plant Site (5)	PM	0.01	0.09
		PM ₁₀	0.01	0.09
		PM _{2.5}	0.01	0.09
		CO	0.09	0.40
		SO ₂	0.01	0.01
		VOC	0.01	0.03
		NOx	0.11	0.47
GEN-FUG	General Acetone Usage Fugitives (4)	Acetone	5.03	1.11

- (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
 - 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
 - HF - hydrofluoric acid (vapor)
 - HCL - hydrochloric acid (vapor)
 - HNO₃ - nitric acid (vapor)
 - OXSOL 100- parachlorobenzotrifluoride
 - 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) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
 - (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- * 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

Date: September 8, 2017