

# Emission Sources - Maximum Allowable Emission Rates

Permit Number 36217

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 (5)	
			lbs/hour	TPY (4)
14	Acid Gas Scrubber (6)	Acids (8)	1.22	2.78
		HF	0.02	<0.01
		VOC	0.15	0.33
15	Ammonia Scrubber (7)	NH <sub>3</sub>	0.30	0.90
		HF	0.08	0.11
		Bases	0.11	0.25
15/16	Ammonia Room -NH <sub>3</sub> Piping Component Leaks	NH <sub>3</sub>	0.26	1.14
15/16	Ammonia Room - HF Piping Component Leaks	HF	<0.01	0.02
15/16/19/20	1st, 2nd, and 3rd Floor Manufacturing Areas - HF Piping Components	HF	0.02	0.08
17	Solvent Dip Tube Exchange Room	VOC	1.40	0.57
		Exempt Solvent	1.84	<0.01
NH3-TKFUG	Anhydrous Ammonia Tank Piping Component Fugitives	NH <sub>3</sub>	0.20	0.87
HF-TKFUGU	HF Tank Fugitives - Upper Level Piping Components (Normal Operations)	HF	<0.01	0.02
HF-TKFUGL	HF Tank Fugitives – Lower Wall Piping Components (Tank Filling and Truck Sampling)	HF	0.02	<0.01
All Emission Points at the Site	All Sources at the Site	Individual HAPS	---	<10.00
		Total HAPs	---	<25.00

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- (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) Exempt Solvent - Those carbon compounds or mixtures of carbon compounds used as solvents which have been excluded from the definition of volatile organic compound.
  - VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
  - Acids - acidic compounds
  - Bases - basic compounds
  - NH<sub>3</sub> - anhydrous ammonia
  - HAP - hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C
  - HF - hydrogen fluoride
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) The allowable emission rates include planned maintenance, startup, and shutdown activities.
- (6) Sources include the following: One-gallon Container Filling Room (FIN FILLING), MCV Filling Booths 1 through 5 (FINs MCV1 – MCV5), 1<sup>st</sup> Floor Drum Transfer Station (FIN DRUMFILL1), 3<sup>rd</sup> Floor Drum Transfer Station (FIN DRUMFILL3), Acid Dip Tube Exchange Booth (FIN ACIDXCHG), 3<sup>rd</sup> Floor HF Dilution/Mixing Tank (FIN HF DILMIX TANK), 3<sup>rd</sup> Floor Tank 4 – Mixing Tank (FIN MIXTANK 4), HF Storage Tank (FIN HFTANK).
- (7) Sources include the following: MCV Filling Booths 1 through 5 (FINs MCV1 – MCV5), 2<sup>nd</sup> Floor 220-Gallon Tank (FIN 220TANK), Acid Dip Tube Exchange Booth (FIN ACIDXCHG), NH<sub>4</sub>OH Generator Units 1 through 4 (FINs NH<sub>4</sub>OH-U1 - NH<sub>4</sub>OH-U4), NH<sub>4</sub>OH Drum/Tote Filling Station (FIN NH<sub>4</sub>OH-DT), NH<sub>4</sub>OH One-gallon Filling Station (FIN NH<sub>4</sub>OH-GAL), NH<sub>4</sub>F Generator Units 1 and 2 (FINs NH<sub>4</sub>F-U1 and NH<sub>4</sub>F-U2), NH<sub>4</sub>F Mixing/Storage Tanks 1 through 4 (FINs NH<sub>4</sub>F-T1 - NH<sub>4</sub>F-T4), NH<sub>4</sub>F Batch Mix Tanks 1 through 3 (FINs NH<sub>4</sub>FMIXTK 1 - NH<sub>4</sub>FMIXTK 3), 3<sup>rd</sup> Floor Tank 3 – Mixing Tank (FIN MIXTANK 3), 3<sup>rd</sup> Floor Tank 5 – Mixing Tank (FIN MIXTANK 5), 3<sup>rd</sup> Floor TMAF Mixing Tank (FIN TMAFTANK), Ammonia Room - NH<sub>3</sub> Piping Component Leaks (FIN NH<sub>3</sub>-FUG), and Ammonia Room - HF Piping Component Leaks (FIN HF-FUG).
- (8) Acid emissions do not include HF emissions.

Date: December 7, 2017