

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 18926

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)	<u>Emission Rates*</u>	
			lb/hr	TPY**
TK-22	Nitric Acid Storage Tank	Nitric Acid	0.67	0.01
TK-9	16 through 18 percent HAN Reactor Tank Evacuation	Inorganics	0.01	0.01
HAN RX1	HAN Reactor No. 1 Filling (24 percent HAN Process)	Inorganics	0.01	0.01
HAN RX2	HAN Reactor No. 2 Filling (24 percent HAN Process)	Inorganics	0.01	0.01
HAN PROD TK	HAN Product Tank Filling (24 percent HAN Process)	Inorganics	0.01	0.01
EVS-1	Bleach Scrubber	Cl ₂	0.01	0.03
EVS-1	Bleach Scrubber (5)	Cl ₂	0.01	0.01
		Br ₂	0.01	0.01
TK-11	Acid Neutralization Tank	Inorganics	0.23	0.23
SS-1	Scrubber No. 1	VOC	0.08	0.02
		Inorganics	0.01	0.01
	Process Cleanout (6)	VOC	0.01	0.01
	Scrubber Fluid Replacement (6)	HCl	0.01	0.01

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			lb/hr	TPY**
SS-1	Scrubber No. 1 (5)	VOC	0.01	0.01
SS-2	Scrubber No. 2	VOC	0.30	0.07
SS-2	Scrubber No. 2 (5)	VOC	0.03	0.11
		Inorganics	0.01	0.01
WH-1	Water Heater No. 1	VOC	0.01	0.01
		PM	0.01	0.02
		SO ₂	0.01	0.01
		NO _x	0.16	0.68
		CO	0.04	0.19
WH-2	Water Heater No. 2	VOC	0.01	0.02
		PM	0.01	0.03
		SO ₂	0.01	0.01
		NO _x	0.08	0.36
		CO	0.07	0.31
WH-3	Water Heater No. 3	VOC	0.01	0.01
		PM	0.01	0.02
		SO ₂	0.01	0.01
		NO _x	0.16	0.68
		CO	0.04	0.19
WH-4	Water Heater No. 4	VOC	0.01	0.02
		PM	0.01	0.03
		SO ₂	0.01	0.01
		NO _x	0.18	0.79
		CO	0.08	0.34
WH-5	Water Heater No. 5	VOC	0.01	0.02
		PM	0.01	0.03
		SO ₂	0.01	0.01
		NO _x	0.08	0.35
		CO	0.07	0.29

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates*	
			lb/hr	TPY**
WH-6	Water Heater No. 6	VOC	0.01	0.01
		PM	0.01	0.01
		SO ₂	0.01	0.01
		NO _x	0.08	0.36
		CO	0.02	0.10
PLANT FUG	Fugitives (4)	VOC	0.30	0.05
		Inorganics	0.04	0.02
		Cl ₂	0.01	0.01
		PM	0.01	0.01
PLANT FUG	Fugitives (4)(5)	VOC	0.03	0.01
		Inorganics	0.01	0.01
MSS-CR	Cell Rebuilds (6)	VOC	0.01	0.01
		Inorganics	0.01	0.01
MSS-FR	Filter Replacements (6)	VOC	0.01	0.01
		Inorganics	0.01	0.01
MSS-SR	Scrubber Fluid Replacement (6)	HCl	0.04	0.01
		NaOH	0.01	0.01
MSS-EM	Eductor Maintenance (6)	Inorganics	0.01	0.01
MSS-PM	Pump Maintenance (6)	VOC	0.01	0.01
		Inorganics	0.01	0.01

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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) Inorganics - include hydrochloric acid, sulfuric acid, hydrobromic acid, hydrofluoric acid, fluoboric acid, nitric acid, hydroxyl amine, sodium hydroxide, sodium hypochlorite, and bromine
 - Cl₂ - chlorine
 - Br₂ - bromine
 - VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 - HCl - hydrogen chloride
 - PM - particulate matter, suspended in the atmosphere, including PM₁₀.
 - PM₁₀ - particulate matter 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.
 - SO₂ - sulfur dioxide
 - NO_x - total oxides of nitrogen
 - CO - carbon monoxide
 - NaOH - sodium hydroxide
- (4) Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.
- (5) Emission rates that are currently authorized by Permit by Rule (PBR) Number 89822, effective August 25, 2009 (formerly Numbers 74671, 78299, and 84918) and PBR Number 79288, effective July 5, 2006, are incorporated into this permit by reference only.
- (6) Startup, shutdown, and maintenance operation only

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

Hrs/day 24 Days/week 7 Weeks/year 52 or Hrs/year 8,760

** Emission rates are based on a continuous operating schedule. Compliance with annual emission limits is based on a rolling 12-month period.

Dated September 29, 2009