

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 22045

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

#### PHASE 1: Prior to start-up of 1204/1205 Reactor Systems and HA-10/HA-11 Scrubbers

120FUG	Fugitives (4)	H <sub>2</sub> S	0.01	0.05
		VOC	0.20	0.87
15	Acid Unit Flare	NO <sub>x</sub>	0.04	0.18
		CO	0.29	1.27
		H <sub>2</sub> S	0.08	0.35
		SO <sub>2</sub>	7.31	32.03
		VOC	1.03	4.52

#### PHASE 2: After start-up of 1204/1205 Reactor Systems and HA-10/HA-11 Scrubbers

120FUG	Fugitives (4)	H <sub>2</sub> S	0.01	0.06
		VOC	0.20	0.87
15	Acid Unit Flare	NO <sub>x</sub>	0.25	1.08
		CO	1.16	5.10
		H <sub>2</sub> S	0.10	0.44
		SO <sub>2</sub>	9.25	40.43
		VOC	3.15	6.58

- (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 30 Texas Administrative Code Section 101.1
  - NO<sub>x</sub> - total oxides of nitrogen
  - SO<sub>2</sub> - sulfur dioxide
  - CO - carbon monoxide
  - H<sub>2</sub>S - hydrogen sulfide

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- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Process emissions from the T-55 Process Area, authorized under Permit No. 21715, will be vented to Acid Unit Flare (EPN 15) in the event that both the Fume Incinerator (EPN FI-01), authorized under Permit No. 21715, and Emergency Flare (EPN FL-177), authorized under Permit No. 22059, are not operational.

\* 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

Dated March 13, 2001