

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 43073

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**
25H1	Charge Heater	CO	1.18	4.65
		NO <sub>x</sub>	0.86	3.39
		PM <sub>10</sub>	0.107	0.42
		SO <sub>2</sub>	0.45	0.66
		VOC	0.036	0.14
F-25	Fugitives (4)	VOC	2.59	11.34
		Benzene	0.014	0.06
		H <sub>2</sub> S	<0.001	<0.01
		SO <sub>2</sub>	0.001	<0.01
		NH <sub>3</sub>	<0.001	<0.01
25V1	Regenerator Vent Scrubber	CO	21.19	83.51
		NO <sub>x</sub>	25.82	101.77
		PM/PM <sub>10</sub> (5)	1.50	5.72
		H <sub>2</sub> SO <sub>4</sub>	0.96	3.60
		SO <sub>2</sub>	2.62	9.80
		VOC	0.025	0.11

- (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 an area name or fugitive source name.
- (3)
  - CO - carbon monoxide
  - NO<sub>x</sub> - total oxides of nitrogen
  - PM - particulate matter, suspended in the atmosphere
  - PM<sub>10</sub> - 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.
  - H<sub>2</sub>SO<sub>4</sub> - sulfuric acid
  - SO<sub>2</sub> - sulfur dioxide
  - VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
  - H<sub>2</sub>S - hydrogen sulfide
  - NH<sub>3</sub> - ammonia
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) The PM/PM<sub>10</sub> emission rates include sulfuric acid emissions which are also shown separately.

\* 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

\*\* Compliance with annual emission limits is based on a rolling 12-month period.

Dated November 17, 2009