

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 7264

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**
A-406	Storage Tank	VOC	0.04	0.01
SA-407	Scrubber	N <sub>2</sub> H <sub>4</sub>	0.01	0.01
B-416	Storage Tank	VOC	0.13	0.01
B-420	Storage Tank	VOC	0.02	0.01
B-421	Storage Tank	VOC	0.02	0.01
C-452	Storage Tank	VOC	0.15	0.01
C-455	Storage Tank	VOC	0.04	0.01
F-401	Plate and Frame	VOC	0.39	0.62
F-402	Plate and Frame	VOC	4.00	9.78
FUG-3	Fugitives (4)	VOC	0.75	3.30
		N <sub>2</sub> H <sub>4</sub>	0.02	0.07
		HNO <sub>3</sub>	0.01	0.03
		BF <sub>3</sub>	0.01	0.01
		NH <sub>3</sub>	0.01	0.05
FUG-CAKE	Product Filter Cake (4)	VOC	2.28	10.00

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X-401	Incinerator (5)	PM <sub>10</sub>	0.02	0.05
		SO <sub>2</sub>	0.01	0.01
		NO <sub>x</sub>	13.75	11.00
		CO	0.17	0.54
		VOC	0.12	0.18
		HNO <sub>3</sub>	0.70	1.49
		BF <sub>3</sub>	0.01	0.04
		N <sub>2</sub> H <sub>4</sub>	0.01	0.01
		NH <sub>3</sub>	0.01	0.02
X-402	Flare (5)	VOC	9.03	4.62
		SO <sub>2</sub>	0.01	0.01
		NO <sub>x</sub>	110.58	22.54
		CO	5.28	5.20
		HNO <sub>3</sub>	0.70	1.49
		BF <sub>3</sub>	0.01	0.01
		N <sub>2</sub> H <sub>4</sub>	0.01	0.01
		NH <sub>3</sub>	0.08	0.23
HS-400	Filter Aid Handling System	PM <sub>10</sub>	0.10	0.15
HS-401	Filter Aid Handling System	PM <sub>10</sub>	0.10	0.15
A-3	Loading (4)	VOC	0.12	0.10
A-4	Loading (4)	VOC	0.78	0.42
2-8	Loading (4)	VOC	0.69	2.69

- (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) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

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N<sub>2</sub>H<sub>4</sub> - hydrazine  
HNO<sub>3</sub> - nitric acid  
BF<sub>3</sub> - boron trifluoride  
NH<sub>3</sub> - ammonia  
PM<sub>10</sub> - particulate matter (PM) equal to or less than 10 microns in diameter  
SO<sub>2</sub> - sulfur dioxide  
NO<sub>x</sub> - total oxides of nitrogen  
CO - carbon monoxide

- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Emissions from the X-401 Incinerator and the X-402 Flare are not additives; therefore, the combined emissions from the X-401 Incinerator and X-402 Flare will not exceed the greater of the allowable emissions for each air contaminant from each individual emission point (excluding the emissions from the combustion of pilot gas).

\* 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 July 21, 2009