

## 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, 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 (1)	Source Name (2)	Air Contaminant (3)	Emission Rates	
			lbs/hour	TPY (4)
C-455	Storage Tank	VOC	0.01	0.01
X-401	Vapor Oxidizer (6)	VOC	0.16	0.19
		NO <sub>x</sub>	14.08	11.00
		SO <sub>2</sub>	0.01	0.01
		CO	0.17	0.54
		PM	0.02	0.05
		PM <sub>10</sub>	0.02	0.05
		PM <sub>2.5</sub>	0.02	0.05
		NH <sub>3</sub>	0.01	0.02
		BF <sub>3</sub>	0.01	0.04
		HNO <sub>3</sub>	0.70	1.49
		N <sub>2</sub> H <sub>4</sub>	0.01	0.01
X-402	Flare (6)	VOC	13.90	10.67
		NO <sub>x</sub>	112.33	24.47
		SO <sub>2</sub>	0.01	0.01
		CO	13.77	18.01
		NH <sub>3</sub>	0.08	0.23
		BF <sub>3</sub>	0.01	0.01
		HNO <sub>3</sub>	0.70	1.49
		N <sub>2</sub> H <sub>4</sub>	0.01	0.01
FUG-3	Fugitives (5)	VOC	1.33	5.85
		N <sub>2</sub> H <sub>4</sub>	0.01	0.02
		HNO <sub>3</sub>	0.01	0.01
		BF <sub>3</sub>	0.01	0.01

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		NH <sub>3</sub>	0.01	0.01
A-406	Storage Tank	VOC	0.04	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
F-401	Plate and Frame	VOC	0.39	0.62
FUG-CAKE	Product Filter Cake	VOC	2.28	10.00
HS-400	Filter Aid Handling System	PM	0.10	0.15
		PM <sub>10</sub>	0.10	0.15
		PM <sub>2.5</sub>	0.10	0.15
HS-401	Lime Handling System	PM	0.10	0.15
		PM <sub>10</sub>	0.10	0.15
		PM <sub>2.5</sub>	0.10	0.15
SA-407	Scrubber	N <sub>2</sub> H <sub>4</sub>	0.01	0.01
MSS-PROC3	Planned Maintenance Emissions	HNO <sub>3</sub>	0.16	0.01
		VOC	4.74	0.19

(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 Title 30 Texas Administrative Code § 101.1

N<sub>2</sub>H<sub>4</sub> - hydrazine

HNO<sub>3</sub> - nitric acid

NO<sub>x</sub> - total oxides of nitrogen

NH<sub>3</sub> - ammonia

BF<sub>3</sub> - boron trifluoride

SO<sub>2</sub> - sulfur dioxide

PM - total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>

PM<sub>10</sub> - particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>

PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter

CO - carbon monoxide

(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.

(5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

(6) The combined annual emissions of all pollutants except for particulate matter from the vapor oxidizer and the flare shall not exceed the total annual allowable emission rates specified above for EPN X-402.

Date: January 17, 2018