

# Emission Sources - Maximum Allowable Emission Rates

Permit Number 118239 & N200

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 No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
16-1-4	Emergency Diesel Generator	CO	0.42	0.01
		NO <sub>x</sub>	15.99	0.42
		PM	0.06	<0.01
		PM <sub>10</sub>	0.06	<0.01
		PM <sub>2.5</sub>	0.06	<0.01
		SO <sub>2</sub>	0.02	<0.01
		VOC	0.03	<0.01
16-1-5	Analyzer Vents	NH <sub>3</sub>	0.02	0.08
16-1-11	Diesel Tank	VOC	0.06	<0.01
16-1-13	Lube Tank	VOC	0.01	<0.01
16-1-CT	Cooling Tower	PM	0.56	1.92
		PM <sub>10</sub>	0.28	0.96
		PM <sub>2.5</sub>	0.01	0.02
		NH <sub>3</sub>	0.01	0.03
16-1-FUG	Fugitives (5)	NH <sub>3</sub>	0.51	2.23
16-2-FUG	Fugitives (5) OSBL Anhydrous Ammonia Stream	NH <sub>3</sub>	0.04	0.18
16-1-MSS	MSS Chemical Usage, PSVs	VOC	0.63	0.11
		NH <sub>3</sub>	0.10	<0.01
		NO <sub>x</sub>	0.02	<0.01
16-1-2	Flare Normal Operations	CO	0.34	1.48
		NO <sub>x</sub>	1.41	5.86
		PM	0.09	0.40
		PM <sub>10</sub>	0.09	0.40
		PM <sub>2.5</sub>	0.09	0.40
		SO <sub>2</sub>	0.01	0.03
		VOC	<0.01	0.01
		NH <sub>3</sub>	0.44	1.70
	Depressurization Emissions to Flare (6)	CO	38.69	0.17
		NO <sub>x</sub>	287.62	5.15
		SO <sub>2</sub>	0.05	<0.01
		VOC	0.48	<0.01
		PM	19.90	0.40
		PM <sub>10</sub>	19.90	0.40
		PM <sub>2.5</sub>	19.90	0.40
		NH <sub>3</sub>	154.14	1.58

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
	Flare Startup MSS	CO	38.69	0.14
		NO <sub>x</sub>	287.62	3.90
		PM	11.82	0.33
		PM <sub>10</sub>	11.82	0.33
		PM <sub>2.5</sub>	11.82	0.33
		SO <sub>2</sub>	0.04	<0.01
		VOC	0.38	<0.01
		NH <sub>3</sub>	138.93	0.85
	Flare Shutdown MSS	CO	20.15	0.03
		NO <sub>x</sub>	238.53	0.61
		SO <sub>2</sub>	0.02	<0.01
		VOC	0.20	<0.01
		PM	19.90	0.05
		PM <sub>10</sub>	19.90	0.05
		PM <sub>2.5</sub>	19.90	0.05
		NH <sub>3</sub>	154.14	0.28
	Ammonia Recovery System Maintenance Emissions to Flare	CO	7.70	0.28
		NO <sub>x</sub>	8.20	0.30
		SO <sub>2</sub>	0.01	<0.01
		PM	0.11	<0.01
		PM <sub>10</sub>	0.11	<0.01
		PM <sub>2.5</sub>	0.11	<0.01
		VOC	0.08	<0.01
		NH <sub>3</sub>	5.40	0.19
	Ammonia Catalyst Reduction Emissions to Flare	NO <sub>x</sub>	49.58	4.02
		PM	0.36	0.44
		PM <sub>10</sub>	0.36	0.44
		PM <sub>2.5</sub>	0.36	0.44
		NH <sub>3</sub>	2.98	0.25
16-1-3	Ammonia Start-Up Heater MSS	CO	3.52	0.53
		NO <sub>x</sub>	3.42	0.51
		PM	0.72	0.11
		PM <sub>10</sub>	0.72	0.11
		PM <sub>2.5</sub>	0.72	0.11
		SO <sub>2</sub>	0.06	0.01
		VOC	0.48	0.07

- (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  
NO<sub>x</sub> - total oxides of nitrogen  
SO<sub>2</sub> - sulfur dioxide

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PM	- total particulate matter, suspended in the atmosphere, including PM <sub>10</sub> and PM <sub>2.5</sub> , as represented
PM <sub>10</sub>	- particulate matter equal to or less than 10 microns in diameter, including PM <sub>2.5</sub> , as represented
PM <sub>2.5</sub>	- particulate matter equal to or less than 2.5 microns in diameter
CO	- carbon monoxide
NH <sub>3</sub>	- Ammonia

- (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) Controlled depressurization activities are only authorized if they are conducted in accordance with Special Condition No. 17.

Date: June 19, 2020