

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)
17-1-2	Flare Normal Operations	CO	1.04	4.55
		NO _x	0.74	3.25
		SO ₂	0.01	0.03
		VOC	0.01	0.04
		NH ₃	0.01	0.01
17-1-4	Emergency Diesel Generator	CO	7.70	0.20
		NO _x	13.38	0.35
		PM	0.15	<0.01
		PM ₁₀	0.15	<0.01
		PM _{2.5}	0.15	<0.01
		SO ₂	0.61	0.02
		VOC	0.70	0.02
17-1-5	Analyzer Vents	NH ₃	0.11	0.47
17-1-11	Diesel Tank	VOC	0.02	0.01
17-1-12	Wastewater Tank	NH ₃	0.01	0.01
17-1-13	Lube Tank	VOC	0.01	0.01
17-1-21	Compressor Lube Oil Separator	PM	0.01	0.03
		PM ₁₀	0.01	0.03
		PM _{2.5}	0.01	0.03
17-1-22	Boiler Feed Water Pump Lube Oil Separator	PM	0.01	0.03
		PM ₁₀	0.01	0.03
		PM _{2.5}	0.01	0.03
17-1-23	Cooling Tower Pump Lube Oil Separator	PM	0.01	0.03
		PM ₁₀	0.01	0.03
		PM _{2.5}	0.01	0.03
17-1-CT	Cooling Tower	PM	0.35	1.53
		PM ₁₀	0.31	1.05
		PM _{2.5}	0.12	0.41
		NH ₃	0.01	0.02
17-1-fug	Fugitives (5)	NH ₃	0.20	0.86

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17-1-2	Depressurization Emissions (6)	CO	950.41	15.73
		NO _x	223.41	2.52
		SO ₂	1.02	0.02
		VOC	9.32	0.16
		NH ₃	83.20	0.81
17-1-2	Flare Startup MSS	CO	950.41	8.41
		NO _x	223.41	1.32
		SO ₂	1.02	0.01
		VOC	9.32	0.08
		NH ₃	83.20	0.25
17-1-2	Flare Shutdown MSS	CO	949.69	6.32
		NO _x	110.76	
		SO ₂	2.52	0.01
		VOC	9.32	0.06
		NH ₃	19.09	0.08
17-1-2	Ammonia Recovery System Maintenance	CO	7.84	0.09
		NO _x	4.11	0.05
		SO ₂	0.01	0.01
		VOC	0.08	0.01
		NH ₃	2.36	0.03
17-1-3	Ammonia Start-Up Heater MSS	CO	1.96	0.15
		NO _x	1.91	0.14
		PM	0.40	0.03
		PM ₁₀	0.40	0.03
		PM _{2.5}	0.40	0.03
		SO ₂	0.03	0.01
		VOC	0.27	0.02
		Lead	<0.01	<0.01

(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

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NO _x	- total oxides of nitrogen
SO ₂	- sulfur dioxide
PM	- total particulate matter, suspended in the atmosphere, including PM ₁₀ and PM _{2.5} , as represented
PM ₁₀	- particulate matter equal to or less than 10 microns in diameter, including PM _{2.5} , as represented
PM _{2.5}	- particulate matter equal to or less than 2.5 microns in diameter
CO	- carbon monoxide
NH ₃	- 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. 19.

Date: April 1, 2015