

Emission Sources - Maximum Allowable Emission Rates

Permit Number 51771

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)
1	Reformer Combustion	NO _x	16.04	-
		NO _x (MSS) (5)	50.05 (6)	-
		NO _x (annual)	-	35.14
		CO	10.77	23.59
		VOC	1.49	3.26
		SO ₂	0.22	1.00
		PM ₁₀	8.54	37.40
		NH ₃	4.39	19.20
5	Process Flare	NO _x	104.42	11.42
		CO	705.23	39.95
		VOC	<0.1	<0.1
7	Cooling Tower	VOC	0.01	0.04
		PM ₁₀	0.04	0.20
8	Process Fugitive Emissions (7)	VOC	0.03	0.22
		NH ₃	0.05	0.40
		CO	0.01	0.04
10	D-300 PCRU Condensate (PCRU in operation)	CO	0.97	4.25
3	DA Vent (PCRU in operation)	CO	1.91	-
		VOC	1.31	-
		NH ₃	1.16	-

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3	DA Vent (PCRU not in operation)	CO	1.91	-
		VOC	1.31	-
		NH ₃	1.16	-
12	PCRU Vent (PCRU in operation)	VOC	13.21	-
		NH ₃	9.62	-
13	Steam Vent (PCRU in operation)	VOC	4.43	-
		NH ₃	3.57	-
13	Steam Vent (PCRU not in operation)	VOC	9.48	-
		NH ₃	7.64	-
18	Blowdown Vent (PCRU not in operation)	VOC	0.56	-
		NH ₃	0.12	-
3/12/13	Process Vent (PCRU in operation)	CO	-	0.24
		VOC	-	1.69
		NH ₃	-	1.26
3/13/18	Process Vent (PCRU not in operation)	CO	-	4.34
		VOC	-	8.66
		NH ₃	-	5.51
14	Oil Water Separator	VOC	0.01	0.04
15	Sulfuric Acid Tank	H ₂ SO ₄	0.01	0.01
16	Degreasing Unit	VOC	0.08	0.01
17	Diesel Tank	VOC	<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
- NO_x - total oxides of nitrogen
- SO₂ - sulfur dioxide
- PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}
- PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter

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CO - carbon monoxide

NH₃ - ammonia

H₂SO₄ - sulfuric acid

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

(5) MSS- maintenance, startup, and shutdown.

(6) The allowable emission rates include planned maintenance, startup, and shutdown activities.

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

Date: June 13, 2017