

Emission Sources - Maximum Allowable Emission Rates

Permit Number 3214

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)
OL3FUR15	Cracking Furnaces (6)	CO	577.37	762.29
		NO _x	292.55	1048.66
		PM	20.41	89.40
		PM ₁₀	20.41	89.40
		PM _{2.5}	20.41	89.40
		SO ₂	85.43	374.19
		VOC	4.13	18.08
TU30906	Tank T-U3-906	VOC	0.12	0.02
TU30907	Tank T-U3-907	VOC	0.12	0.01
TC33001	Tank T-C3-3001	VOC	13.11	0.37
TC33002	Tank T-C3-3002	VOC	0.02	0.01
		DEA (8)	0.02	0.01
TC33003	Tank T-C3-3003	VOC	0.01	0.01
TC33004	Tank T-C3-3004	NaOH	0.01	0.01
TC33005	Tank T-C3-3005	VOC	0.12	0.02
TC33007	Tank T-C3-3007	N ₂ H ₄	1.33	0.01
TF34001	Tank T-F3-4001	VOC	15.15	0.04
TF34002	Tank T-F3-4002	VOC	0.12	0.01
TU30911	Tank T-U3-911	VOC	179.07	1.24
TU30912	Tank T-U3-912	VOC	0.41	0.01
TU30913	Tank T-U3-913	VOC	205.44	2.11
TU30914	Tank T-U3-914	VOC	0.12	0.01
TU30915	Tank T-U3-915	VOC	0.12	0.01

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VC33034	Tank V-C3-3034	VOC	0.12	0.01
TOL915	Tank T-OL-915	VOC	0.01	0.01
TOL916	Tank T-OL-916	VOC	0.01	0.01
TOL920	Tank T-OL-920	VOC	1.83	6.00
LO3AH	Analyzer Vents	VOC	<0.01	<0.01
VP31142	Decoking Vents	CO	104.17	98.75
		NO _x	0.42	0.40
		PM	2.08	1.98
		PM ₁₀	2.08	1.98
		PM _{2.5}	2.08	1.98
		VOC	0.14	0.13
OL3FUG	Process Fugitives (5)	CO	0.80	3.52
		H ₂ S	0.04	0.17
		VOC	27.11	118.75
OP3CWT	Cooling Tower (5)	PM	15.73	45.94
		PM ₁₀	7.87	29.17
		PM _{2.5}	0.03	0.10
		VOC	5.50	24.10
LO3CPI	CPI Separator (7)	VOC	13.40	8.73
AP-18	Tank AP-18	VOC	2.76	8.66
		Benzene (8)	1.25	3.44
AP-19	Tank AP-19-R1	VOC	7.04	10.12

- (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) CO - carbon monoxide
DEA - Diethanolamine
H₂S - hydrogen sulfide
NaOH - sodium hydroxide
NO_x - total oxides of nitrogen
N₂H₄ - hydrazine, solution of up to 35 percent in water
PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as

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- represented
- PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
- SO₂ - sulfur dioxide
- VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- (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) This source represents 10 furnaces previously represented as 10 emission points: F-P3-1050, F-P3-1060, F-P3-1070, F-P3-1080, F-P3-1090, F-P3-1100, F-P3-1110, F-P3-1120, F-P3-1130, and F-P3-1140.
- (7) CPI - corrugated plate interceptor
- (8) The speciated emission rate is included in the VOC emission rate.

Date: November 26, 2019