Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 9649 and PSDTX683

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)
W-01	CO2 Heater	NO_x	0.25	1.07
		CO	0.21	0.90
		SO_2	<0.01	0.03
		PM	0.02	0.08
		PM_{10}	0.02	0.08
		$PM_{2.5}$	0.02	0.08
		VOC	0.01	0.06
W-02	Glycol Reboiler	NO_x	0.20	0.86
		CO	0.16	0.72
		SO_2	<0.01	0.03
		PM	0.02	0.07
		PM_{10}	0.02	0.07
		$PM_{2.5}$	0.02	0.07
		VOC	0.01	0.05
W-03	Boiler 1	NO_x	3.84	16.80
		CO	4.49	19.68
		SO_2	0.15	0.67
		PM	0.41	1.80
		PM_{10}	0.41	1.80
		$PM_{2.5}$	0.41	1.80
		VOC	0.30	1.30

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W-04	Boiler 2	NO_x	3.84	16.80
		CO	4.49	19.68
		SO_2	0.15	0.67
		PM	0.41	1.80
		PM_{10}	0.41	1.80
		$PM_{2.5}$	0.41	1.80
		VOC	0.30	1.30
W-07	Flare - Pilot, Purge, Analyzers, PSVs, Tanks T-840, T-931, and T-932	NO_x	0.09	0.37
		CO	0.41	1.76
		SO_2	1.52	6.38
		VOC	0.26	1.11
		H_2S	0.02	0.08
W-09	Boiler 3	NO_x	2.88	12.60
		CO	3.04	13.32
		SO_2	0.23	1.01
		PM	0.62	2.70
		PM_{10}	0.62	2.70
		$PM_{2.5}$	0.62	2.70
		VOC	0.44	1.94
Analyzers	Analyzer Vents	VOC	0.10	0.22
		H_2S	0.10	0.10
FU-CO2	Plant Fugitives (5)	VOC	4.24	18.56
		H_2S	0.03	0.13
FU-OTHER	Plant Fugitives-Other (5)	VOC	1.33	5.84
		H_2S	0.12	0.54
H-220	Demethanizer Heater	NO_x	0.25	1.12
		CO	0.21	0.93
		SO_2	<0.01	0.03
		PM	0.02	0.09

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		PM_{10}	0.02	0.09
		$PM_{2.5}$	0.02	0.09
		VOC	0.01	0.06
T-230A	Methanol Storage Tank	VOC	2.91	0.19
T-230B	Methanol Storage Tank	VOC	2.91	0.19
V-892	Diesel Storage Tank 1	VOC	0.03	<0.01
T-EMGEN	Diesel Storage Tank 2	VOC	0.03	<0.01
GLYREBOIL2	Glycol Dehydrator Reboiler 2	NO_x	0.08	0.33
		CO	0.08	0.34
		SO_2	<0.01	0.03
		PM	0.02	0.07
		PM_{10}	0.02	0.07
		$PM_{2.5}$	0.02	0.07
		VOC	0.01	0.05
E-FLARE	Emergency Flare (Pilot Only) (6)	NO_x	0.04	0.19
		CO	0.17	0.76
		SO_2	<0.01	0.02
		VOC	<0.01	<0.01
		H_2S	<0.01	<0.01
E-FLARE, W-07	Gas Flaring – Acid Gas and HC Gas	NO_x	42.85	7.18
		CO	367.44	61.60
		SO_2 (7)	1001.53	-
		SO_2 (8)	498.27	-
		SO_2	-	108.87
		VOC	213.23	35.81
		H_2S	10.66	1.16
All Sources at the Site	All Sources at the Site	Individual HAP	-	<10
		Total HAPs	-	<25

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(1) Emission point identification - either specific equipment designation or emission point number from a plot plan.
(2) Specific point source names. For fugitive sources, use an area name or fugitive source name.
(3)
- NO_x - total oxides of nitrogen
- CO - carbon monoxide
- SO_2 - sulfur dioxide
- PM - total particulate matter, suspended in the atmosphere, including PM10 and PM2.5, as represented
- PM_{10} - particulate matter (PM) equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.
- $PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
- VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- H_2S - hydrogen sulfide
- HAP - hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C

(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) Emissions authorized by this flare are pilot gas only. Purge gas authorized under PBR §106.263.
(7) This emission limit applies when acid gas is being flared. Acid gas flaring is limited to no more than 100 hours per year on a rolling 12-month basis per Special Condition No. 17.
(8) This emission limit applies when acid gas is not being flared.

Date: DRAFT – TBD