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-05	SRU Heater	NO_x	0.11	0.47
		CO	0.09	0.40
		SO_2	<0.01	0.01
		PM	<0.01	0.04
		PM_{10}	<0.01	0.04
		$PM_{2.5}$	<0.01	0.04
		VOC	<0.01	0.03
W-06	SRU Incinerator	NO_x	0.30	1.00
		CO	0.20	0.90
		SO_2	132.50	126.44
		PM	0.10	0.10
		PM_{10}	0.10	0.10
		$PM_{2.5}$	0.10	0.10
		VOC	0.10	0.10
		H_2S	1.41	3.30
W-07	Flare	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

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		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
W-10	Temporary Boiler (7)	NO_x	0.74	3.26
		CO	2.75	12.06
		SO_2	0.21	0.91
		PM	0.56	2.44
		PM_{10}	0.56	2.44
		$PM_{2.5}$	0.56	2.44
		VOC	0.40	1.76
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
		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

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T-EMGEN	Diesel Storage Tank 2	VOC	0.03	<0.01
SU-1	Sulfur Loading	H_2S	0.01	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

(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
(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) A temporary boiler with a heat input rating of up to 74.4 MM Btu/hr may be used on an as-needed basis.
(8) HAP emissions do not exceed 10 tpy of any one and 25 tpy of any combination of HAPs

Date: January 7, 2022