Emission Sources - Maximum Allowable Emission Rates

Permit Number 6763

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)
CM-13	White Superior 8GTL825, 1000 hp (4C-LB)	PM	0.07	0.32
		PM_{10}	0.07	0.32
		$PM_{2.5}$	0.07	0.32
		NO_x	26.46	115.88
		CO	3.09	13.52
		SO_2	<0.01	0.02
		VOC	0.86	3.77
V-1	Inlet Glycol Unit #1 (during VRU downtime)	VOC	13.58	1.96
V-2	Inlet Amine Unit #1 Vent	VOC	25.66	1.95
		Benzene (6)	3.80	0.29
		H_2S	1.79	0.14
V-3	Liquid Amine Treater Vent	VOC	1.29	5.64
		Benzene (6)	1.13	4.96
V-4	Liq EP Mix Ethylene Glycol Unit	VOC	0.01	0.01
V-5	Inlet Amine Unit #2 Vent	VOC	32.32	2.46
		Benzene (6)	4.78	0.36
		H_2S	2.25	0.17
V-6	Inlet Glycol Unit #2 (during VRU downtime)	VOC	13.58	1.96

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H-7001	HMO 12.523 MMBTU/hr	PM	0.09	0.41
		PM_{10}	0.09	0.41
		$PM_{2.5}$	0.09	0.41
		NO_x	1.23	5.38
		CO	1.03	4.52
		SO_2	0.01	0.03
		VOC	0.07	0.30
FUG-1	Fugitive Emissions	VOC (5)	4.67	20.45
FUG-2	Fugitives	VOC (5)	0.02	0.11
FUG-5	Truck Loading (Low Pressure Condensate)	VOC	1.62	0.58
FUG-6	Hose Disconnect Emissions	VOC	0.54	1.42
FL-5	Flare - Pilot Gas	NO_x	0.02	0.09
		CO	0.04	0.18
		SO_2	<0.01	<0.01
		VOC	<0.01	<0.01
	Main Flare – Purging of Tank Trucks	NO_x	4.97	0.025
		CO	9.92	0.05
		SO_2	0.01	0.01
		VOC	138.04	0.69
	Main Flare – MSS Operations	NO_x	118.76	0.20
		CO	237.09	0.40
		SO_2	0.01	0.01
		VOC	164.74	0.58

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RTO-1	Amine System RTO	NO_x	0.07	0.32
		CO	2.21	9.70
		SO_2	7.44	32.60
		VOC	1.16	5.08
		Benzene (6)	0.17	0.75
		H_2S	0.08	0.35
	Amine System RTO Startup Emissions (8)	NO_x	0.30	<0.01
		CO	0.30	<0.01
		VOC	0.30	0.01
SV-36	300 bbl Pit Water Tank (during VRU downtime)	VOC	0.01	<0.01
	300 bbl Pit Water Tank	VOC	2.30	0.10
SV-37	300 bbl Pit Water Tank (during VRU downtime)	VOC	0.01	<0.01
	300 bbl Pit Water Tank	VOC	2.30	0.10
SV-38	300 bbl Pit Water Tank (during VRU downtime)	VOC	0.01	<0.01
	300 bbl Pit Water Tank	VOC	2.30	0.10
SV-39	300 bbl Condensate Tank (during VRU downtime)	VOC	0.31	0.04
SV-40	300 bbl Condensate Tank (during VRU downtime)	VOC	0.31	0.04
SV-41	300 bbl Condensate Tank (during VRU downtime)	VOC	0.31	0.04
SV-43	300 bbl Condensate Tank (during VRU downtime)	VOC	1.02	0.11
	300 bbl Condensate Tank	VOC	58.36	7.31
MSS	Maintenance, Startup and Shutdown	VOC	143.57	0.90

(1) Emission point identification - either specific equipment designation or emission point number from plot plan.

Emission Sources - Maximum Allowable Emission Rates

(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
VOC emission rates shown in this maximum allowable emission rates table include benzene, toluene and xylene (BTEX) contributions
NO_x - total oxides of nitrogen
CO - carbon monoxide
SO_2 - sulfur dioxide
PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
PM_{10} - total particulate matter equal to or less than 10 microns in diameter, including PM_{10} and $PM_{2.5}$, as represented
$PM_{2.5}$ - total particulate matter equal to or less than 2.5 microns in diameter
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) Benzene emissions are also included in the VOC emission rates shown in this table.
(7) Amine System RTO startup emissions based on 4 startups per year, 2 hours for each startup.
(8) Emissions during periods of Amine System RTO maintenance (152 hours per year).

Date: January 21, 2020