Emission Sources - Maximum Allowable Emission Rates

Permit Number 3434

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)
A30FU05	V-50 Phenol Fugitive Area (5)	VOC	0.01	0.04
A42FU26	V-26 Cumene Fugitive Area (5)	VOC	0.08	0.33
A42ST26A	V-26A Storage Tank	VOC	2.49	2.51
A42ST26B	V-26B Storage Tank	VOC	2.49	2.51
OC3SB900	B-901, B-902, B-903 Boilers (7)	VOC	2.56	5.55
		Acetone	0.28	0.75
		NO_x	69.70	304.80
		CO	32.00	38.15
		SO_2	1.68	3.83
		HCl	3.27	2.38
		Cl_2	0.26	1.76
		PM	8.82	15.31
		PM_{10}	6.80	9.77
		$PM_{2.5}$	5.61	8.18
OCD3F1	FL-100 Flare	VOC	3.27	6.78
		Acetone	3.21	2.40
		NO_x	1.35	3.69
		CO	2.69	7.36
		SO_2	0.01	0.01
OC9CB34	CB-34 Carbon Bed (PSA Vent Stack) (6)	Acetone	7.50	4.61

Emission Sources - Maximum Allowable Emission Rates

OC3GE1	GE-1 Diesel Generator	VOC	1.19	0.06
		NO_x	14.97	0.75
		CO	3.23	0.16
		SO_2	0.99	0.05
		PM	1.06	0.05
		PM_{10}	1.06	0.05
		$PM_{2.5}$	1.06	0.05
OC3SO1	Catalytic Oxidizer with Steam Regenerated Carbon Beds	VOC	15.42	48.88
		Acetone	0.86	2.73
		NO_x	0.71	2.98
		CO	0.60	2.51
		SO_2	0.01	0.01
		PM	0.05	0.23
		PM_{10}	0.05	0.23
		$PM_{2.5}$	0.05	0.23
OC3VJ45AB	Vacuum Jet VJ-45AB	VOC	0.09	0.39
OC3VP1	Vacuum Pump VP-1 & Vacuum Jet VJ-42	VOC	0.16	0.69
OC3CT201	CT-201 Cooling Tower (5)	VOC	2.10	9.20
		PM	0.84	1.84
		PM_{10}	0.17	0.83
		$PM_{2.5}$	0.01	0.01
OC3ST25	V-25 Storage Tank	VOC	2.93	4.08
OC3ST3	D-3 Process Vessel	VOC	8.17	0.53
OC3ST400	D-400 Process Tank	VOC	1.57	0.02

Emission Sources - Maximum Allowable Emission Rates

		Acetone	0.59	0.01
OC3ST470	V-470 Process Tank	VOC	6.30	1.39
OC3ST57A	D-57A Process Tank	VOC	0.02	0.01
		Acetone	0.05	0.01
OC3ST62	D-62 Process Tank	VOC	1.34	0.40
OC3ST66A	D-66A Process Tank	VOC	1.76	0.85
		Acetone	0.38	0.20
OC3ST66B	D-66B Process Tank	VOC	1.76	0.85
		Acetone	0.38	0.20
OC3ST80	D-80 Process Tank	VOC	0.73	0.24
		Acetone	0.06	0.02
OC3STBO1	BO-1 Waste Water Tank	VOC	0.20	0.86
		Acetone	0.01	0.04
OC9ST49B	V-49B Storage Tank	VOC	3.14	3.24
OC9ST49C	V-49C Storage Tank	VOC	3.14	3.24
OC9LRTRK	S-495 Tank Truck Loading	VOC	0.27	0.45
		Acetone	1.07	1.09
OC9LRRR	S-490 Rail Car Loading	VOC	1.37	1.08
		Acetone	4.27	1.63
OC9FU1	Tank Truck Loading Fugitive Area (5)	VOC	0.04	0.18
		Acetone	0.41	1.79
OC9FU2	Storage Tank V-34's and V-49's Fugitive Area FU-2 (5)	VOC	0.01	0.06
		Acetone	0.45	1.96
		Refrigerant (3)	0.02	0.08

Emission Sources - Maximum Allowable Emission Rates

OC9FU3	Railcar Loading Fugitive (5)	VOC	0.03	0.13
		Acetone	0.30	1.32
OCD3FU	Process Fugitive Area FU-1 (5)	VOC	2.18	9.53
		Acetone	4.47	19.58
		SO_2	0.07	0.29
		Refrigerant (3)	0.62	2.71
OC3OS58	S-58/59 Process Sump	VOC	0.01	0.01
		Acetone	0.01	0.01
OC3OS91	S-91 Gallamore Sump	VOC	0.01	0.01
		Acetone	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
CO - carbon monoxide
SO_2 - sulfur dioxide
Cl_2 - chlorine
HCl - hydrogen chloride
PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$
PM_{10} - 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
Refrigerant - 1,1,1,2-tetrafluoroethane
(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) For Tanks V-34A, V-34B, and V-34C.
(7) Annual boiler operations are based on 8,712 hours per year for all pollutants.

Date: October 31, 2019