

Emission Sources — Maximum Allowable Emission Rates

Permit Numbers 118270 and PSDTX1398

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)
H-1A	Fractionator Heater H-1A	VOC	0.70	2.77
		NO _x	1.29	3.08
		CO	4.77	18.98
		PM	0.58	2.31
		PM ₁₀	0.58	2.31
		PM _{2.5}	0.58	2.31
		SO ₂	2.28	4.95
		NH ₃	0.58	2.31
H-1B	Hot Oil Heater H-1B	VOC	0.57	2.27
		NO _x	1.06	2.53
		CO	3.91	15.58
		PM	0.48	1.90
		PM ₁₀	0.48	1.90
		PM _{2.5}	0.48	1.90
		SO ₂	1.87	4.07
		NH ₃	0.48	1.89

Emission Sources - Maximum Allowable Emission Rates

H-2A	Fractionator Heater H-2A	VOC	0.70	2.77
		NO _x	1.29	3.08
		CO	4.77	18.98
		PM	0.58	2.31
		PM ₁₀	0.58	2.31
		PM _{2.5}	0.58	2.31
		SO ₂	2.28	4.95
		NH ₃	0.58	2.31
H-2B	Hot Oil Heater H-2B	VOC	0.57	2.27
		NO _x	1.06	2.53
		CO	3.91	15.58
		PM	0.48	1.90
		PM ₁₀	0.48	1.90
		PM _{2.5}	0.48	1.90
		SO ₂	1.87	4.07
		NH ₃	0.48	1.89
H-3	Tank Heater 3	VOC	0.09	—
		NO _x	1.57	—
		CO	1.32	—
		PM	0.12	—
		PM ₁₀	0.12	—
		PM _{2.5}	0.12	—
		SO ₂	0.24	—

Emission Sources - Maximum Allowable Emission Rates

H-4	Tank Heater 4	VOC	0.09	—
		NO _x	0.58	—
		CO	0.59	—
		PM	0.12	—
		PM ₁₀	0.12	—
		PM _{2.5}	0.12	—
		SO ₂	0.24	—
H-3_H-4_CAP	Tank Heaters 3 & 4 Annual Emission Cap	VOC	—	0.38
		NO _x	—	4.71
		CO	—	4.18
		PM	—	0.53
		PM ₁₀	—	0.53
		PM _{2.5}	—	0.53
		SO ₂	—	1.03
FL-1	Flare	VOC	0.06	0.26
		NO _x	0.03	0.14
		CO	0.07	0.28
		SO ₂	<0.01	<0.01
FUG-1	Fugitives (5)	VOC	8.36	36.60
		H ₂ S	<0.01	0.01
		NH ₃	0.09	0.40
LOADFUG	Marine Loading Fugitives	VOC	165.07	82.88
		H ₂ S	0.06	0.03

Emission Sources - Maximum Allowable Emission Rates

VCU1	Marine Vapor Combustor 1	VOC	31.65	—
		NO _x	22.50	—
		CO	30.00	—
		PM	1.12	—
		PM ₁₀	1.12	—
		PM _{2.5}	1.12	—
		SO ₂	5.19	—
VCU2	Marine Vapor Combustor 2	VOC	31.65	—
		NO _x	22.50	—
		CO	30.00	—
		PM	1.12	—
		PM ₁₀	1.12	—
		PM _{2.5}	1.12	—
		SO ₂	5.19	—
VCU1/VCU2	Marine Vapor Combustors	VOC	—	10.59
		NO _x	—	12.35
		CO	—	16.46
		PM	—	0.61
		PM ₁₀	—	0.61
		PM _{2.5}	—	0.61
		SO ₂	—	2.01
PTRUCK	Pressurized Truck Loading	VOC	4.61	5.89
T120	Tank No. 120	VOC	2.62	5.09
		H ₂ S	<0.01	<0.01
T121	Tank No. 121	VOC	2.62	5.09
		H ₂ S	<0.01	<0.01
T122	Tank No. 122	VOC	2.62	5.09
		H ₂ S	<0.01	<0.01

Emission Sources - Maximum Allowable Emission Rates

T123	Tank No. 123	VOC	2.62	5.09
		H ₂ S	<0.01	<0.01
T124	Tank No. 124	VOC	2.62	5.09
		H ₂ S	<0.01	<0.01
T125	Tank No. 125	VOC	2.62	5.09
		H ₂ S	<0.01	<0.01
T126	Tank No. 126	VOC	52.36	15.78
		H ₂ S	0.02	0.01
T127	Tank No. 127	VOC	52.36	15.78
		H ₂ S	0.02	0.01
T128	Tank No. 128	VOC	52.36	15.78
		H ₂ S	0.02	0.01
T129	Tank No. 129	VOC	52.36	15.78
		H ₂ S	0.02	<0.01
T135	Tank No. 135	VOC	2.32	5.09
		H ₂ S	<0.01	<0.01
T136	Tank No. 136	VOC	2.32	5.09
		H ₂ S	<0.01	<0.01
T137	Tank No. 137	VOC	2.32	5.09
		H ₂ S	<0.01	<0.01
T138	Tank No. 138	VOC	2.32	5.09
		H ₂ S	<0.01	<0.01
T139	Tank No. 139	VOC	2.32	5.09
		H ₂ S	<0.01	<0.01
T154	Tank No. 154	VOC	2.56	5.09
		H ₂ S	<0.01	<0.01
T155	Tank No. 155	VOC	2.56	5.09
		H ₂ S	<0.01	<0.01
T156	Tank No. 156	VOC	2.56	5.09

Emission Sources - Maximum Allowable Emission Rates

		H ₂ S	<0.01	<0.01
T157	Tank No. 157	VOC	2.56	5.09
		H ₂ S	<0.01	<0.01
T158	Tank No. 158	VOC	2.56	5.09
		H ₂ S	<0.01	<0.01
T159	Tank No. 159	VOC	2.56	5.09
		H ₂ S	<0.01	<0.01
T160	Tank No. 160	VOC	2.56	5.09
		H ₂ S	<0.01	<0.01
T161	Tank No. 161	VOC	2.56	5.09
		H ₂ S	<0.01	<0.01
TANKCAP	Tank Cap (6)	VOC	—	84.77
		H ₂ S	—	0.03
SAMPTK	Product Sample Collection Tank	VOC	0.04	0.01
		H ₂ S	<0.01	<0.01
FWPTK	Fire Water Pump Fuel Tank	VOC	0.03	0.01
		H ₂ S	<0.01	<0.01
EMGENTK	Emergency Generator Fuel Tank	VOC	0.03	0.01
		H ₂ S	<0.01	<0.01
FWP1	Fire Water Pump	VOC	0.14	<0.01
		NO _x	3.54	0.18
		CO	0.68	0.03
		PM	0.12	<0.01
		PM ₁₀	0.12	<0.01
		PM _{2.5}	0.12	<0.01
		SO ₂	<0.01	<0.01
FWP2	Backup Fire Water Pump	VOC	0.14	<0.01
		NO _x	3.54	0.18
		CO	0.68	0.03

Emission Sources - Maximum Allowable Emission Rates

		PM	0.12	<0.01
		PM ₁₀	0.12	<0.01
		PM _{2.5}	0.12	<0.01
		SO ₂	<0.01	<0.01
EMGEN1	Emergency Generator 1	VOC	0.01	<0.01
		NO _x	8.48	0.42
		CO	0.59	0.03
		PM	0.03	<0.01
		PM ₁₀	0.03	<0.01
		PM _{2.5}	0.03	<0.01
		SO ₂	<0.01	<0.01
EMGEN2	Emergency Generator 2	VOC	0.34	0.02
		NO _x	0.82	0.04
		CO	0.25	0.01
		PM	0.05	<0.01
		PM ₁₀	0.05	<0.01
		PM _{2.5}	0.05	<0.01
		SO ₂	<0.01	<0.01
MSSVCU	MSS Vapor Combustor —Wastewater Treatment	VOC	0.09	0.40
		NO _x	0.03	0.12
		CO	0.05	0.22
		SO ₂	<0.01	0.03
		H ₂ S	<0.01	<0.01
PTKMSS	Pressurized Trucks MSS Activities	VOC	417.22	3.18
VTRUCK	Vacuum Trucks	VOC	1.65	0.10
		H ₂ S	<0.01	<0.01
FRTANK	Frac Tanks	VOC	155.70	0.17
		H ₂ S	0.06	<0.01

Emission Sources - Maximum Allowable Emission Rates

SAMPLE	Product Sampling	VOC	0.74	1.62
		H ₂ S	<0.01	<0.01
MSSVCU	MSS Vapor Combustor — Pressure Tank MSS	VOC	128.02	0.17
		NO _x	38.41	0.05
		CO	70.54	0.09
		PM	1.91	<0.01
		PM ₁₀	1.91	<0.01
		PM _{2.5}	1.91	<0.01
VPIPEMSS	Vessels & Piping MSS (Uncontrolled)	VOC	53.65	4.80
		H ₂ S	0.02	<0.01
FL-1	Vessels & Piping MSS (Controlled)	VOC	91.45	2.74
		H ₂ S	<0.01	<0.01
		NO _x	13.72	0.41
		CO	25.19	0.76
		SO ₂	0.04	<0.01
TKLAND-ATM	Uncontrolled Floating Roof Tank Landing Cap (7)	VOC	22.48	0.86
		H ₂ S	<0.01	<0.01

Emission Sources - Maximum Allowable Emission Rates

MSSVCU	Controlled Floating Roof Tank Landing Cap (6)	VOC	101.37	1.93
		NO _x	9.74	0.35
		CO	17.89	0.64
		H ₂ S	0.04	<0.01
		PM	0.24	0.02
		PM ₁₀	0.24	0.02
		PM _{2.5}	0.24	0.02
		SO ₂	2.21	0.07
TKLAND-CAP	Overall Floating Roof Tank Landing Cap	VOC	101.37	2.79
		NO _x	9.74	0.35
		CO	17.89	0.64
		H ₂ S	0.04	<0.01
		PM	0.24	0.02
		PM ₁₀	0.24	0.02
		PM _{2.5}	0.24	0.02
		SO ₂	2.21	0.07
MSSVCU	MSS Vapor Combustion Unit Pilot/Assist Gas	NO _x	3.78	2.76
		CO	6.94	5.07
		VOC	0.14	0.10
		H ₂ S	<0.01	<0.01
		PM	0.19	0.14
		PM ₁₀	0.19	0.14
		PM _{2.5}	0.19	0.14
		SO ₂	0.37	0.27

Emission Sources - Maximum Allowable Emission Rates

- (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
H₂S - hydrogen sulfide
NO_x - total oxides of nitrogen
SO₂ - sulfur dioxide
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 represented
PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
CO - carbon monoxide
- (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) Emission limits for EPN TANKCAP apply to total rolling 12-months emissions from all storage tanks identified in Special Condition 12.
- (7) Emission caps for tank floating roof landing activities apply to all floating roof tanks authorized by this permit (Identified in Special Condition 12).

Date: April 10, 2015