Emission Sources - Maximum Allowable Emission Rates

Permit Number 95754

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)
150-01	Tank 150-01	VOC	3.61	2.74
150-02	Tank 150-02	VOC	3.61	2.74
150-03	Tank 150-03	VOC	3.61	2.74
150-04	Tank 150-04	VOC	3.61	2.74
150-05	Tank 150-05	VOC	3.61	2.74
150-06	Tank 150-06	VOC	3.61	2.74
60-01	Tank 60-01	VOC	1.18	1.86
60-02	Tank 60-02	VOC	1.18	1.86
60-03	Tank 60-03	VOC	1.18	1.86
35-01	Tank 35-01	VOC	1.35	1.16
35-02	Tank 35-02	VOC	1.35	1.16
35-03	Tank 35-03	VOC	1.35	1.16
35-04	Tank 35-04	VOC	1.35	1.16
300-01	Tank 300-01	VOC	12.85	1.52
300-02	Tank 300-02	VOC	12.85	1.52
300-03	Tank 300-03	VOC	12.85	1.52
300-04	Tank 300-04	VOC	12.85	1.52
100-01	Tank 100-01	VOC	14.99	2.46
		Non-VOC Organic	3.64	0.98
100-02	Tank 100-02	VOC	14.99	2.46
		Non-VOC Organic	3.64	0.98
100-03	Tank 100-03	VOC	14.99	2.46
		Non-VOC Organic	3.64	0.98
100-04	Tank 100-04	VOC	14.99	2.46
		Non-VOC Organic	3.64	0.98
100-05	Tank 100-05	VOC	14.99	2.46
		Non-VOC Organic	3.64	0.98

Emission Sources - Maximum Allowable Emission Rates

	Storage Tank Emission Caps (6)	VOC		18.56
		Non-VOC Organic		2.44
VC-1	Vapor Combustor 1	VOC	16.22	
		Non-VOC Organic	8.32	
		NO_x	7.30	
		CO	17.04	
VC-2	Vapor Combustor 2	VOC	16.22	
		Non-VOC Organic	8.32	
		NO_x	7.30	
		CO	17.04	
VC-3	Vapor Combustor 3	VOC	16.22	
		Non-VOC Organic	8.32	
		NO_x	7.30	
		CO	17.04	
VC-4	Vapor Combustor 4	VOC	16.22	
		Non-VOC Organic	8.32	
		NO_x	7.30	
		CO	17.04	
VC-1, VC-2 VC-3, VC-4	Vapor Combustor Emission Caps	NO_x		1.60
		CO		3.73
SHDK-1	Ship Loading Dock 1 (7)	VOC	88.85	
SHDK-2	Ship Loading Dock 2 (7)	VOC	88.85	
SH-1IN	Inerted Ship Loading Dock 1	VOC	14.62	
SH-2IN	Inerted Ship Loading Dock 2	VOC	14.62	
BGDK-1	Barge Loading Dock 1	VOC	27.77	
BGDK-2	Barge Loading Dock 2	VOC	27.77	
BGDK-3	Barge Loading Dock 3	VOC	27.77	
BGDK-4	Barge Loading Dock 4	VOC	27.77	
BG-1IN	Inerted Barge Loading Dock 1	VOC	18.28	
BG-2IN	Inerted Barge Loading Dock 2	VOC	18.28	
BG-3IN	Inerted Barge Loading Dock 3	VOC	18.28	
BG-4IN	Inerted Barge Loading Dock 4	VOC	18.28	
TTRCRK5W	Truck and Railcar Loading	VOC	79.33	

Emission Sources - Maximum Allowable Emission Rates

VC-1, VC-2, VC-3, VC-4, SHDK-1, SHDK-2, SH-1IN, SH-2IN, BGDK-1, BGDK-2, BGDK-3, BGDK-4, BG-1IN, BG-2IN, BG-3IN, BG-4IN, TTRCRK5W	Loading Emission Caps	VOC		2.85
		Non-VOC Organic		1.39
HOSEVENTTK	Empty Hose to Tank or Uncontrolled Marine Vessel with Nitrogen	VOC	16.32	1.77
HOSEVENTDK	Depressurize Hose to Atmosphere	VOC	0.82	0.17
DOCKSUMP	Hose Drain to Sump	VOC	0.25	0.05
HOSE VENT VC	Empty Hose to Controlled Marine Vessel with Nitrogen	VOC	0.08	0.01
		Non-VOC Organic	0.05	0.01
		NO_x	0.04	0.01
		CO	0.06	0.01
EFWP-1	Emergency Fire Water Pump	VOC	0.01	0.01
		NO_x	1.14	0.03
		CO	0.05	0.01
		SO_2	0.01	0.01
		PM_{10}	0.01	0.01
WWT-1	Wastewater Tank	VOC	0.28	0.38
FUG	Piping Fugitives (5)	VOC	0.17	0.74
		Non-VOC Organic	0.04	0.17
FUG-ETHYLENE	Ethylene Piping Fugitives (5)	VOC	0.15	0.67
FL70-1	Emergency Flare FL70-1	NO_x	0.01	0.03
		CO	0.06	0.24
FL70-2	Emergency Flare FL70-2	NO_x	0.01	0.03
		CO	0.06	0.24
FL70-3	Emergency Flare FL70-3	NO_x	0.01	0.03
		CO	0.06	0.24
Maintenance, Startup, and Shutdown (MSS)				
GRPTK	Tank out of service	VOC	8.47	0.10
		Non-VOC Organic	4.34	0.09
	Tank idle	VOC	5.10	0.14
		Non-VOC Organic	2.10	0.01

Emission Sources - Maximum Allowable Emission Rates

	Tank degas	VOC	61.57	0.03
		Non-VOC Organic	2.59	0.01
VC-1 VC-2 VC-3 VC-4	Controlled MSS	VOC	16.95	0.35
		Non-VOC Organic	8.69	0.02
		NO_x	15.26	0.27
		CO	25.42	0.55
PP	Pipeline Preparation	VOC	0.25	0.01
AMVT	Air Movers and Vacuum Trucks	VOC	0.06	0.01
MFPVF	Minor Facilities MSS	VOC	0.19	0.01
GRPTK70	Ethylene System MSS	VOC	23.88	0.07
FL70-1 FL70-2 FL70-3	Controlled Ethylene System MSS	VOC	7.59	0.49
		NO_x	2.01	0.13
		CO	7.98	0.51
Site HAP Emissions				
All EPNs	All Site Facilities	HAP		24.9
		Any Individual HAP		9.9
Site VOC Emissions				
All EPNs	All Site Facilities	VOC		24.9

(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) Non-VOC Organic - Those carbon compounds which have been excluded from the definition of VOC.
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide

Emission Sources - Maximum Allowable Emission Rates

PM_{10}	-	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
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) Emission cap for all storage tanks.
(7) Barges may be loaded at the ship docks.

Date: _____