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)
P150-001	Tank P150-001	VOC	3.61	2.74
P150-002	Tank P150-002	VOC	3.61	2.74
P150-003	Tank P150-003	VOC	3.61	2.74
P150-004	Tank P150-004	VOC	3.61	2.74
P150-005	Tank P150-005	VOC	3.61	2.74
P150-006	Tank P150-006	VOC	3.61	2.74
P60-001	Tank P60-001	VOC	1.18	1.86
P60-002	Tank P60-002	VOC	1.18	1.86
P60-003	Tank P60-003	VOC	1.18	1.86
P35-001	Tank P35-001	VOC	1.35	1.16
P35-002	Tank P35-002	VOC	1.35	1.16
P35-003	Tank P35-003	VOC	1.35	1.16
P35-004	Tank P35-004	VOC	1.35	1.16
P300-001	Tank P300-001	VOC	12.85	1.52
P300-002	Tank P300-002	VOC	12.85	1.52
P300-003	Tank P300-003	VOC	12.85	1.52
P300-004	Tank P300-004	VOC	12.85	1.52
P100-001	Tank P100-001	VOC	14.99	2.46
		Non-VOC Organic	3.64	0.98
P100-002	Tank P100-002	VOC	14.99	2.46
		Non-VOC Organic	3.64	0.98
P100-003	Tank P100-003	VOC	14.99	2.46
		Non-VOC Organic	3.64	0.98
P100-004	Tank P100-004	VOC	14.99	2.46
		Non-VOC Organic	3.64	0.98
P100-005	Tank P100-005	VOC	14.99	2.46
		Non-VOC Organic	3.64	0.98

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P100-006	Tank P100-006	VOC	14.99	2.46
		Non-VOC Organic	3.64	0.98
P100-007	Tank P100-007	VOC	14.99	2.46
		Non-VOC Organic	3.64	0.98
P100-008	Tank P100-008	VOC	14.99	2.46
		Non-VOC Organic	3.64	0.98
P100-009	Tank P100-009	VOC	14.99	2.46
		Non-VOC Organic	3.64	0.98
P100-010	Tank P100-010	VOC	14.99	2.46
		Non-VOC Organic	3.64	0.98
	Storage Tank Emission Caps (6)	VOC		24.95
		Non-VOC Organic		9.80
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		4.23
		CO		9.86
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	

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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	
Rack-1	Truck and Railcar Loading(8)	VOC	79.33	
Rack-3	Truck and Railcar Loading(8)	VOC	79.33	
Rack-5	Truck and Railcar Loading(8)	VOC	79.33	
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, Rack-1, Rack-3, Rack-5	Loading Emission Caps	VOC		8.69
		Non-VOC Organic		2.78
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
PWW-001	Wastewater Tank	VOC	0.28	0.38
FUG-ETHYLENE	Ethylene Piping Fugitives (5)	VOC	0.15	0.67
FL70-1	Emergency Flare FL70-1	NO_x	0.01	0.03

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		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
FUG100N	Piping Fugitives (5)	VOC	0.05	0.23
		Non-VOC Organic	0.05	0.02
FUGCROIL	Piping Fugitives (5)	VOC	0.02	0.09
FUGPETRO	Piping Fugitives (5)	VOC	0.07	0.30
FUG-DOCK	Piping Fugitives (5)	VOC	0.06	0.28
		Non-VOC Organic	0.05	0.20
FUGRK-1	Piping Fugitives (5)	VOC	0.06	0.24
		Non-VOC Organic	0.06	0.24
FUGRK-3	Piping Fugitives (5)	VOC	0.08	0.34
		Non-VOC Organic	0.06	0.24
FUGRK-5	Piping Fugitives (5)	VOC	0.13	0.56
		Non-VOC Organic	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	0.16
		Non-VOC Organic	2.10	0.04
	Tank degas (uncontrolled)	VOC	61.57	0.04
		Non-VOC Organic	2.59	0.01
VC-1 VC-2 VC-3 VC-4	Controlled MSS	VOC	16.95	0.25
		Non-VOC Organic	8.69	0.34
		NO_x	15.26	0.15
		CO	25.42	0.34
PP	Pipeline Preparation	VOC	20.00	0.10
AMVT	Air Movers and Vacuum Trucks	VOC	11.61	0.10
MFPVF	Minor Facilities MSS	VOC	0.19	0.10
GRPTK70	Ethylene System MSS	VOC	23.88	0.07
FL70-1 FL70-2	Controlled Ethylene System	VOC	7.59	0.49

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FL70-3	MSS	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
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.
(8) When loading the same chemical (i.e. diethyl benzene) at all three loading racks (RACK-1, RACK-3, and RACK-5), combined short-term emissions from the three racks may not exceed 79.33 lbs/hr.

Date: _____