

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 5631

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. 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)	<u>Emission Rates *</u>	
			lb/hr	TPY

Tank Farm

300-1, 300-2, 300-3, 300-4, 80-7, 300-21, 300-22, C80-1, C80-2, C80-3, C80-4, B30-9, B30-10, B30-11, B30-12, and C30-13	Tanks **	VOC		75.00
		BZ		2.53
300-1	Tank	VOC	8.30	
		BZ	0.35	
300-2	Tank	VOC	4.81	
		BZ	0.21	
300-3	Tank	VOC	8.30	
		BZ	0.35	
300-4	Tank	VOC	8.30	
		BZ	0.35	
80-7	Tank	VOC	3.52	
		BZ	0.15	
300-21	Tank	VOC	7.35	
		BZ	0.31	
300-22	Tank	VOC	7.35	
		BZ	0.31	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
C80-1	Tank		VOC	25.19
C80-2	Tank		VOC	25.19
C80-3	Tank		VOC	4.34
			BZ	0.19
C80-4	Tank		VOC	4.34
			BZ	0.19
B30-9	Tank		VOC	18.80
B30-10	Tank		VOC	18.80
B30-11	Tank		VOC	3.18
			BZ	0.14
B30-12	Tank		VOC	3.18
			BZ	0.14
C30-13	Tank		VOC	18.80
150-40, 150-41, 150-42, 80-43, 80-44, 80-45, 80-46, 27-14, and 27-15	Tanks ***		VOC	22.85
			BZ	0.76
150-40	Tank		VOC	2.29
			BZ	0.12
150-41	Tank		VOC	2.29
			BZ	0.12
150-42	Tank		VOC	2.29
			BZ	0.12

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			lb/hr	TPY
80-43	Tank	VOC	2.27	
		BZ	0.15	
80-44	Tank	VOC	2.27	
		BZ	0.15	
80-45	Tank	VOC	2.27	
		BZ	0.15	
80-46	Tank	VOC	2.27	
		BZ	0.15	
27-14	Tank	VOC	1.60	
		BZ	0.10	
27-15	Tank	VOC	1.60	
		BZ	0.10	
100-47	Tank	VOC	2.12	2.66
		BZ	0.13	0.09
100-48	Tank	VOC	2.12	2.66
		BZ	0.13	0.09
100-49	Tank	VOC	2.12	2.66
		BZ	0.13	0.09
80-12	Tank	VOC	2.22	2.48
		BZ	0.15	0.08
FUG 100	100 Manifold Fugitives (4)	VOC	0.28	1.23
		BZ	0.03	0.12
FUG B	B Manifold Fugitives (4)	VOC	0.05	0.24
		BZ	0.005	0.02

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			lb/hr	TPY
FUG C	C Manifold Fugitives (4)	VOC	0.16	0.69
		BZ	0.02	0.07
FUG D	D Manifold Fugitives (4)	VOC	0.23	1.00
		BZ	0.02	0.10
100-50	Tank	VOC	2.25	2.95
		BZ	0.13	0.05
100-51	Tank	VOC	2.25	2.95
		BZ	0.13	0.05
100-52	Tank	VOC	2.25	2.95
		BZ	0.13	0.05
100-53	Tank	VOC	2.25	2.95
		BZ	0.13	0.05
100-54	Tank	VOC	2.19	3.22
		BZ	0.11	0.06
100-55	Tank	VOC	2.19	3.22
		BZ	0.11	0.06
100-56	Tank	VOC	2.19	3.22
		BZ	0.11	0.06
100-57	Tank	VOC	2.19	3.22
		BZ	0.11	0.06
100-58	Tank	VOC	2.25	2.95
		BZ	0.13	0.05
100-59	Tank	VOC	2.25	2.95
		BZ	0.13	0.05

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			lb/hr	TPY
100-60	Tank	VOC	2.25	2.95
		BZ	0.13	0.05
FUG E	E Manifold Fugitives (4)	VOC	0.16	0.72
		BZ	0.02	0.07

Boilers and Turbines

S-1	Boiler	VOC	0.10	0.40
		NO _x	4.00	17.30
		CO	1.00	4.30
		PM	0.10	0.60
		SO ₂	0.02	0.07
S-4	Boiler	VOC	0.14	0.61
		NO _x	15.45	67.67
		CO	4.01	17.55
		PM	0.50	2.19
		SO ₂	0.06	0.26
S-7	IBW Gas-Fired Boiler 73.4 MMBtu	VOC	0.32	1.42
		NO _x	3.67	16.08
		CO	2.79	12.22
		PM	0.37	1.61
		SO ₂	0.04	0.19
S-8	IBW Gas-Fired Boiler 73.4 MMBtu	VOC	0.32	1.42
		NO _x	3.67	16.08
		CO	2.79	12.22
		PM	0.37	1.61
		SO ₂	0.04	0.19
500	Gas Turbine (Allison 501-KB)	VOC	0.22	0.9
		NO _x	8.5	35.0
		CO	6.2	27.16
		PM	0.18	0.80
		SO ₂	0.02	0.1

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			lb/hr	TPY

Loading Flares

S-5	Flare	VOC		11.70
S-6	Flare	VOC	3.00	8.20
		BZ	0.13	0.28
		NO _x	0.20	0.50
		CO	1.50	4.20

Marine Loading

MLF-1	Flare	VOC	90.0	41.4
		BZ	2.0	1.22
		NO _x	11.4	4.8
		CO	45.4	18.9
SD-1, SD-4, SD-5, BD-B and BD-D	Dock Fugitives (4) ****	VOC		103.00
		BZ		3.48
SD-1	Ship Dock 1 Fugitives (4)	VOC	823.20	
		BZ	11.64	
SD-4	Ship Dock 4 Fugitives (4)	VOC	823.20	
		BZ	11.64	
SD-5	Ship Dock 5 Fugitives (4)	VOC	823.20	
		BZ	11.64	
BD-B	Barge Dock B Fugitives (4)	VOC	191.84	
		BZ	4.56	
BD-D	Barge Dock D Fugitives (4)	VOC	212.20	

- (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 General Rule 101.1
NO_x - total oxides of nitrogen
CO - carbon monoxide
PM - particulate matter
SO₂ - sulfur dioxide
BZ - benzene
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

Hrs/day___Days/week___Weeks/year___or Hrs/year 8,760

**The combined annual emission rate for these tanks shall not exceed 75 TPY of VOC and 2.53 TPY of BZ.

*** The combined annual emission rate for these tanks shall not exceed 22.85 TPY of VOC and 0.76 TPY of BZ.

**** The combined annual emission rate for the loading docks shall not exceed 103.0 TPY VOC and 3.48 TPY of BZ.

Dated _____