

## 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 Contaminant Point No. (1)	<u>Emission Rates *</u>		Source	Air Name (2)
Name (3)	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

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## AIR CONTAMINANTS DATA

Emission Contaminant Point No. (1)	<u>Emission Rates</u> *		Source	Air Name (2)
	lb/hr	TPY		
300-22	Tank		VOC	7.35
			BZ	0.31
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

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AIR CONTAMINANTS DATA

Emission Contaminant Point No. (1)	<u>Emission Rates</u> *		Source	Air Name (2)
	<u>Name (3)</u>	<u>lb/hr</u> <u>TPY</u>		
150-41	Tank		BZ	0.12
			VOC	2.29
			BZ	0.12

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Emission Contaminant Point No. (1)	Emission Rates *		Source	Air	
				Name (2)	
Name (3)	lb/hr	TPY			
150-42	Tank		VOC	2.29	
			BZ	0.12	
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

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Emission Contaminant Point No. (1)	<u>Emission Rates</u> *		Source		Air	
	Name (3)		Name (2)		Name (2)	
	lb/hr	TPY				
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	
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	
150-54	Tank		VOC	2.19	3.22	
			BZ	0.11	0.06	
150-55	Tank		VOC	2.19	3.22	
			BZ	0.11	0.06	
150-56	Tank		VOC	2.19	3.22	
			BZ	0.11	0.06	

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Emission Contaminant Point No. (1)	<u>Emission Rates</u> *		Source	Air	
				Name (2)	
<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>			
150-57	Tank		VOC	2.19	3.22
			BZ	0.11	0.06
100-58	Tank		VOC	2.25	2.95
			BZ	0.13	0.05

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Emission Contaminant Point No. (1)	<u>Emission Rates</u> *		Source	Air	
	Name (3)	lb/hr TPY		Name (2)	
100-59	Tank		VOC	2.25	2.95
			BZ	0.13	0.05
100-60	Tank		VOC	2.25	2.95
			BZ	0.13	0.05
FUG E	E Manifold		VOC	0.16	0.72
	Fugitives (4)		BZ	0.02	0.07

**Boilers and Turbines**

S-1	Boiler	VOC	0.10	0.40
		NO <sub>x</sub>	4.00	17.30
		CO	1.00	4.30
		PM	0.10	0.60
		SO <sub>2</sub>	0.02	0.07
S-4	Boiler	VOC	0.14	0.61
		NO <sub>x</sub>	15.45	67.67
		CO	4.01	17.55
		PM	0.50	2.19
		SO <sub>2</sub>	0.06	0.26
S-7	IBW Gas-Fired Boiler 1.42 73.4 MMBtu	VOC		0.32
		NO <sub>x</sub>	3.67	16.08
		CO	2.79	12.22
		PM	0.37	1.61
		SO <sub>2</sub>	0.04	0.19
S-8	IBW Gas-Fired Boiler 1.42	VOC		0.32

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Emission Contaminant Point No. (1)	<u>Emission Rates</u> *	Source	Air	
Name (3)	lb/hr	TPY	Name (2)	

73.4 MMBtu	NO <sub>x</sub>	3.67	16.08
	CO	2.79	12.22
	PM	0.37	1.61
	SO <sub>2</sub>	0.04	0.19

500	Gas Turbine (Allison 501-KB)	VOC	0.22	0.9
		NO <sub>x</sub>	8.5	35.0
		CO	6.2	27.16
		PM	0.18	0.80
		SO <sub>2</sub>	0.02	0.1

### Loading Flares

S-5	Flare	VOC		11.70
S-6	Flare	VOC	3.00	8.20
		BZ	0.13	0.28
		NO <sub>x</sub>	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 <sub>x</sub>	11.4	4.8
		CO	45.4	18.9
SD-1, SD-4, SD-5, BD-B and BD-D	Dock Fugitives (4) 103.00	**** VOC		
		BZ		3.48



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Emission Contaminant Point No. (1)	<u>Emission Rates</u> *		Source	Air
Name (3)	lb/hr	TPY		Name (2)
SD-1	Ship Dock 1		VOC	823.20
	Fugitives (4)		BZ	11.64
SD-4	Ship Dock 4		VOC	823.20
	Fugitives (4)		BZ	11.64
SD-5	Ship Dock 5		VOC	823.20
	Fugitives (4)		BZ	11.64
BD-B	Barge Dock B		VOC	191.84
	Fugitives (4)		BZ	4.56
BD-D	Barge Dock D		VOC	212.20
	Fugitives (4)		BZ	3.37

- (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<sub>x</sub> - total oxides of nitrogen  
 CO - carbon monoxide  
 PM - particulate matter  
 SO<sub>2</sub> - 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:

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Emission Contaminant Point No. (1) Name (3)	<u>Emission Rates</u> * lb/hr TPY	Source	Air Name (2)
		Hrs/day _____ Days/week _____ Weeks/year _____ or Hrs/year _____ <u>8,760</u>	

\*\* 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 \_\_\_\_\_