

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 3836

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)	Emission Rates *	
			lb/hr	TPY
Storage Tank Area				
T-207	Tank	VOC	<0.01	<0.01
T-401	Tank	VOC	0.02	<0.01
T-403	Tank	VOC	<0.01	<0.01
T-404	Tank	VOC	0.17	<0.01
T-405	Tank	VOC	0.16	<0.01
T-416	Tank	VOC	0.14	<0.01
T-418	Tank	VOC	0.09	<0.01
T-420	Tank	VOC	<0.01	<0.01
T-603	Tank	VOC	12.61	0.08
T-604	Tank	VOC	1.53	0.05
Z-703	Scrubber	HCl	0.02	<0.01
		VOC	<0.01	<0.01
Z-709	Scrubber	VOC	0.12	<0.01
Z-711	Scrubber	H ₂ S	<0.01	<0.01
		VOC	0.03	<0.01
STOR-FUG	Tank Farm Fugitives (4)	VOC	2.01	8.79

Plant Utilities Area

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			<u>lb/hr</u>	<u>TPY</u>
B-601	Utility Boiler (6)	CO	1.30	5.68
		NO _x	5.93	25.98
		PM ₁₀	0.51	2.23
		SO ₂	0.53	2.32
		VOC	0.10	0.45

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
Plant Utilities Area (continued)				
B-602	Utility Boiler (6)	CO	1.30	5.68
		NO _x	5.93	25.98
		PM ₁₀	0.51	2.23
		SO ₂	0.53	2.32
		VOC	0.10	0.45
H-601	Heater	CO	0.12	0.54
		NO _x	0.59	2.59
		PM ₁₀	0.07	0.31
		SO ₂	0.08	0.37
		VOC	0.02	0.10
T-700	API Separator	VOC	1.06	2.32
G-601	Standby Generator (5)	CO	7.10	0.09
		NO _x	11.70	0.15
		PM ₁₀	0.40	<0.01
		SO ₂	0.86	0.01
		VOC	1.20	0.02
FWP	Fire Water Pumps (5)	CO	38.50	0.50
		NO _x	63.40	0.83
		PM ₁₀	2.20	0.03
		SO ₂	4.60	0.06
		VOC	6.30	0.08
V-605	Tank	VOC	<0.01	<0.01
T-701	Tank	VOC	2.06	0.02
UTIL-FUG	Process Fugitives (4)	VOC	0.12	0.50
Plant 3 - Intermediates Chemical Processing				
DP-3	Drum Loading	VOC	1.17	3.21
T-350	Tank	VOC	<0.01	<0.01
V-311	Tank	VOC	4.12	0.01

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			lb/hr	TPY
V-312	Tank	CH ₂ O	2.24	<0.01
V-301V	Emergency Vent	VOC	EMERGENCY USE ONLY	
PL3-FUG	Process Fugitives (4)	VOC	1.71	7.49
Plant 2 - Amine Condensation Polymerization Area				
DP1, DP2	Drum Loading	VOC	1.17	3.21
T-253	Tank	VOC	0.07	<0.01
T-260	Tank	VOC	<0.01	<0.01
T-263	Tank	VOC	<0.01	<0.01
V-023	Reactor Vent	VOC	0.01	<0.01
V-024	Tank	VOC	0.87	<0.01
V-025	Tank	VOC	0.87	<0.01
V-206V	Process/Emergency Vent	VOC	<0.01	<0.01
Z-104	Caustic Scrubber	H ₂ S	<0.01	<0.01
		VOC	6.46	0.03
Z-705	Tank T-250 Scrubber	VOC	0.06	<0.01
Z-707	V-022 Scrubber	NH ₃	0.24	<0.01
		VOC	<0.01	<0.01
Z-708	Scrubber	NH ₃	0.37	0.03
		VOC	0.22	<0.01
Z-712	Tank T-252 Scrubber	VOC	<0.01	<0.01
		HCl	<0.01	<0.01

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			lb/hr	TPY
Z-713	Methyl Chloride Scrubber	CH ₃ Cl	2.65	0.14
Z-714	Flare	CO	25.29	10.92
		NO _x	2.95	1.27
		VOC	26.2	3.85
		SO ₂	8.9	11.10
		HCl	34.2	2.11
PL2-FUG	Plant 2 Fugitives (4)	H ₂ S	0.03	0.13
		VOC	2.63	11.50
CS2-FUG	CS2 Drum Fugitives	CS ₂	0.02	<0.01
Plant 5 - Blending and Drumming				
F-501	Filter Press	VOC	0.53	0.48
F-502	Filter Press	VOC	0.53	0.48
F-503	Sparkler Filter	VOC	<0.01	<0.01
Z-501/502	Drum Loading	VOC	4.69	12.80
TP-805	Truck Loading	VOC	4.26	3.59
WTRR-CAR	Truck Loading	VOC	4.26	0.11
R-SPOT4	Railcar Loading	VOC	4.26	0.18
R-SPOT5	Railcar Loading	VOC	4.26	0.34
TP-804	Truck Loading Fugitives	VOC	0.38	0.32
TP-811	Truck Loading Fugitives	VOC	0.38	0.03

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			<u>lb/hr</u>	<u>TPY</u>
TP-812	Truck Loading Fugitives	VOC	0.38	0.12
TP-813	Truck Loading Fugitives	VOC	0.38	0.12
TP-816	Truck Loading Fugitives	VOC	0.38	0.61
OILCARF	Railcar Loading Fugitives	VOC	0.38	0.01
R-SPOT3	Railcar Loading Fugitives	VOC	0.38	0.03
R-SPOT6	Railcar Loading Fugitives	VOC	0.38	0.02
PL5-FUG	Plant 5 Fugitives (4)	VOC	1.08	4.74

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
DF-1	Reactor Combustor	CO	0.09	0.37
		NO _x	0.41	1.78
		PM ₁₀	0.05	0.21
		SO ₂	0.06	0.25
		VOC	0.02	0.07
DF-2	Reactor Combustor	CO	0.09	0.37
		NO _x	0.41	1.78
		PM ₁₀	0.05	0.21
		SO ₂	0.06	0.25
		VOC	0.02	0.07

- (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)
 - NH₃ - ammonia
 - CO - carbon monoxide
 - HCl - hydrogen chloride
 - H₂S - hydrogen sulfide
 - CH₂O - formaldehyde
 - CH₃Cl - methyl chloride
 - NO_x - total oxides of nitrogen
 - PM₁₀ - particulate matter
 - SO₂ - sulfur dioxide
 - VOC - volatile organic compounds as defined in General Rule 101.1
 - CS₂ - carbon disulfide
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Operated for emergency use and required maintenance only.
- (6) Total combined annual emissions from EPNs b-601 and B-602 shall not exceed 2.90 TPY SO₂, 32.47 TPY NO_x, 2.78 TPY PM₁₀, 7.10 TPY CO, and 0.56 TPY VOC.

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

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			<u>lb/hr</u>	<u>TPY</u>

Hrs/day _____ Days/week _____ Weeks/year _____ or Hrs/year 8,760