

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 19641

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 *	Source	Air Contaminant	<u>Emission Rates</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
FE042	Scrubber (T-E-74/75/116)	VOC	1.39	0.46
TB01	Storage Tank T-B-1	VOC	0.30	0.017
TB07	Storage Tank T-B-7	VOC	0.30	0.017
TB021	Storage Tank T-B-21	VOC	<0.01	<0.01
TB022	Storage Tank T-B-22	VOC	<0.01	<0.01
TC042	Storage Tank T-C-42	VOC	0.05	0.01
TC043	Storage Tank T-C-43	VOC	0.05	0.01
TE016	Storage Tank T-E-16	VOC	<0.01	<0.01
TE017	Storage Tank T-E-17	VOC	0.10	0.10
TE029	Storage Tank T-E-29	VOC	0.07	<0.01
HC1	H-C-1	NO _x	0.90	3.90
	CO	0.30	1.30	
BCAREA	Fugitives (4)	VOC	0.50	2.20
TK3	Fugitives (4)	VOC	0.50	2.21
TK9	Fugitives (4)	VOC	0.44	1.94
JAU3	Fugitives (4)	VOC	0.083	0.36

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<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
		NH ₃	0.20	0.88
TB016	Rundown Tank	VOC	<0.01	<0.01
TB018	Rundown Tank	VOC	<0.01	<0.01
TB019	Carbonate Catalyst Tank	VOC	0.01	0.01
TB020	Carbonate Catalyst Tank	VOC	0.01	0.01
TE011	Product Storage Tank T-E-11 0.01	VOC		0.09
TE012	Product Storage Tank T-E-12 0.01	VOC		0.09
TE025	Product Storage Tank T-E-25 <0.01	VOC		0.03
TE026	Product Storage Tank T-E-26 <0.01	VOC		0.03
LD1	Product Loading (5)	VOC	0.15	0.13
LD2	Product Loading (5)	VOC	0.15	0.13
LD3	Product Loading (5)	VOC	0.15	0.13
TRUCK	Truck Loading Rack (6)	VOC	0.35	0.02
RAIL	Rail Loading Rack (6)	VOC	0.35	0.02
CARB	Process Fugitives (4)	VOC	0.43	1.89
CARB2	Process Fugitives (4)	PO	0.03	0.13
		PC	0.21	0.94

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<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
TK1	TE-11, 12 Fugitives (4)	VOC	0.10	0.42
UC1	Cooling Tower	NH ₃	1.00	4.38
UC678	Cooling Tower	VOC	3.00	2.21
RA22	Plant Flare	VOC	11.33	4.84
		NH ₃	0.58	0.26
		NO _x	1.76	0.94
		CO	5.94	2.60
RF60	Flare	VOC	0.51	1.14
		NO _x	0.12	0.48
		CO	1.03	4.17
		HBr	2.47	1.00
RE22	Loading Incinerator	VOC	0.76	0.18
		NO _x	0.74	2.51
		CO	0.12	0.53
		PM	0.03	0.11
		SO ₂	<0.01	0.02
HA1	Heater	VOC	0.04	0.18
		NO _x	0.76	3.34
		CO	0.16	0.70
		PM	0.03	0.15
		SO ₂	<0.01	0.02
LB8	Vacuum Source (FB042 Vent)	VOC	<0.01	<0.01
TB014	Storage Tank T-B-14	VOC	3.17	0.38
TB015	Storage Tank T-B-15	VOC	3.17	0.38
TE079	Storage Tank T-E-79	VOC	<0.01	<0.01

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			lb/hr	TPY
FC055	Vessel F-C-55	VOC	0.02	<0.01
TE050	Storage Tank T-E-50	VOC	<0.01	<0.01
TE125	Storage Tank T-E-125	VOC	<0.01	<0.01
FC004	Vessel F-C-4	VOC	0.29	<0.01
TE030	Storage Tank T-E-30	VOC	0.02	<0.01
TK2	Fugitives (4)	VOC	<0.01	0.02
TB017	Storage Tank T-B-17	VOC	<0.01	0.01
TE060	Storage Tank T-B-60	VOC	<0.01	<0.01
TK4	Fugitives (4)	VOC	<0.01	0.01

(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, suspended in the atmosphere, including PM₁₀

PM₁₀ - particulate matter equal to or less than 10 microns in diameter.

Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.

NH₃ - anhydrous ammonia

PO - propylene oxide

PC - propylene carbonate

HBr - hydrogen bromide

SO₂ - sulfur dioxide

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Point No. (1)	Name (2)	Name (3)	lb/hr	TPY

- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Maximum combined annual emissions from Emission Point Nos. LD1, LD2, and LD3 shall not exceed 0.13 TPY.
- (6) The combined emission rates from these two emission points shall not exceed 0.35 lb/hr or 0.02 TPY.

* 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

Dated _____