

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

<u>Emission</u> *	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>
FE37	Scrubber (T-E-107)	VOC	0.15	0.02
FE35	Scrubber (T-E-15)	VOC	0.04	0.03
FE41	Scrubber (T-E-24)	VOC	0.48	0.14
FE42	Scrubber (T-E-74/75/116)	VOC	0.82	0.30
TB1	T-B-1	VOC	0.30	0.017
TB7	T-B-7	VOC	0.30	0.017
TB21	T-B-21	VOC	<0.01	<0.01
TB22	T-B-22	VOC	<0.01	<0.01
TC5	T-C-5	VOC	<0.01	<0.01
TC42	T-C-42	VOC	0.50	0.50
TC43	T-C-43	VOC	0.05	0.05
TE10	T-E-10	VOC	0.07	0.07
TE16	T-E-16	VOC	0.07	0.07
TE17	T-E-17	VOC	0.10	0.10

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Point No. (1)	Name (2)	Name (3) lb/hr		TPY
TE21	T-E-21	VOC	0.10	0.10
TE29	T-E-29	VOC	0.02	0.02
TE55	T-E-55	VOC	0.01	0.01
TE56	T-E-56	VOC	0.02	0.02
TE62	T-E-62	VOC	0.01	0.01
TE76	T-E-76	VOC	0.01	0.01
TE113	T-E-113	VOC	0.09	0.09
TE114	T-E-114	VOC	0.01	0.01
TE115	T-E-115	VOC	0.01	0.01
TE117	T-E-117	VOC	0.11	0.01
TE118	T-E-118	VOC	0.17	0.17
TE126	T-E-126	VOC	0.85	0.24
HC1	H-C-1	NO _x	0.90	3.90
	CO	0.30	1.30	
EA/EDA	Fugitives (4)	VOC	0.84	3.70
TK3	Fugitives (4)	VOC	0.41	1.80
TK9	Fugitives (4)	VOC	0.41	1.80
TK10	Fugitives (T-E-126) (4)	VOC	0.07	0.30

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Point No. (1)	Name (2)	Name (3) lb/hr		TPY
JAU3	Fugitives (4)	VOC	0.83	0.36
		NH ₃	0.20	0.88
TB16	Rundown Tank	VOC	<0.01	<0.01
TB18	Rundown Tank	VOC	<0.01	<0.01
TB19	Carbonate Catalyst Tank	VOC	0.01	0.01
TB20	Carbonate Catalyst Tank	VOC	0.01	0.01
TE11	Product Storage Tank	VOC	0.09	0.01
TE12	Product Storage Tank	VOC	0.09	0.01
TE25	Product Storage Tank	VOC	0.03	<0.01
TE26	Product Storage Tank	VOC	0.03	<0.01
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 (8)	VOC	0.26	0.03
RAIL	Rail Loading Rack (8)	VOC	0.26	0.03
AMU	Process Fugitives (4)	VOC	0.86	3.77
CARB	Process Fugitives (4)	VOC	0.40	1.74
	Process Fugitives (4, 6)	VOC	0.43	1.89

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Point No. (1)	Name (2)	Name (3) lb/hr		TPY
CARB2	Process Fugitives (4)	PO	0.03	0.13
		PC	0.21	0.94
TK1-B	TE-11, 12 Fugitives (4)	VOC	0.10	0.42
TK3-B UC1	TE-25, 26 Fugitives (4) Cooling Tower (7)	VOC	0.08	0.37
		VOC	1.53	6.00
		NH ₃	1.00	4.38
UC678	Cooling Tower	VOC	3.00	2.21
RA22	Plant Flare	VOC	1.47	2.26
		NH ₃	0.58	0.26
		NO _x	0.08	0.15
		CO	0.72	1.29
RF60	Flare	VOC	0.41	0.72
		NO _x	0.09	0.35
		CO	0.77	3.02
		HBr	0.29	0.65
	Flare (6)	VOC	0.51	1.14
		NO _x	0.12	0.48
		CO	1.03	4.17
		HBr	0.34	0.87
RE22	Loading Incinerator	VOC	0.93	0.21
		NO _x	0.58	2.60
		CO	0.12	0.53
		PM	0.07	0.30
		SO ₂	<0.01	0.02

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- (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
- NH₃ - anhydrous ammonia
- PO - propylene oxide
- PC - propylene carbonate
- HBr - hydrogen bromide
- SO₂ - sulfur dioxide
- (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) Maximum allowable emission rate after FB-47 and FB-34 Evaporator Overheads are routed to the Flare (EPN RF60) as required by Special Condition No. 15.
- (7) Maximum allowable emission rate prior to routing FB-47 and FB-34 Evaporator Overheads to the Flare (EPN RF60) as required by Special Condition No. 15. This will not be an emission point after that date.
- (8) The combined emission rates from these two emission points shall not exceed 0.26 lb/hr or 0.03 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

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Dated _____