

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 8133A/PSD-TX-342M1

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) TPY	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	
E-20-Flare	Flare No. 20 (5)	CO	0.21	0.92
		NO _x	0.03	0.13
		PM ₁₀	0.003	0.01
		VOC	0.14	0.6
		SO ₂	<0.001	<0.001
E-08-Flare	Flare No. 8 (5)	CO	0.21	0.92
		NO _x	0.03	0.13
		PM ₁₀	0.003	0.01
		VOC	0.14	0.6
		SO ₂	<0.001	<0.001
E-05-Flare	Flare No. 5 (5)	CO	0.42	1.84
		NO _x	0.06	0.26
		PM ₁₀	0.006	0.03
		VOC	0.14	0.6
		SO ₂	<0.001	<0.001
E-12-Flare	Flare No. 12 (5)	CO	0.21	0.92
		NO _x	0.03	0.13
		PM ₁₀	0.003	0.01
		VOC	0.14	0.6
		SO ₂	<0.001	<0.001
E-02-Flare	Flare No. 02 (5)	CO	0.21	0.92
		NO _x	0.03	0.13
		PM ₁₀	0.003	0.01
		VOC	0.14	0.6
		SO ₂	<0.001	<0.001

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
TPY			lb/hr	
E-01-Flare	Flare No. 1 (5)	CO	0.21	0.92
		NO _x	0.03	0.13
		PM ₁₀	0.003	0.01
		VOC	0.14	0.6
		SO ₂	<0.001	<0.001
E-02-SCOT2	SCOT2 Incinerator (Air-Based Operation)	CO	0.93	4.07
		NO _x	1.9	8.32
		PM ₁₀	0.13	0.57
		VOC	0.48	2.12
		SO ₂	36.1	158.2
E-02-SCOT2	SCOT2 Incinerator (O2-Based Operation)	H ₂ S	0.39	1.72
		CO	0.62	2.72
		NO _x	2.47	10.82
		PM ₁₀	0.09	0.39
		VOC	0.48	2.12
T-77	Naphtha Storage	SO ₂	22.98	100.7
		H ₂ S	0.25	1.1
		VOC	2.89	12.4
		VOC	0.16	0.59
		NH ₃	0.001	0.001
T-78	Sour Water Storage	H ₂ S	0.001	0.001
		VOC	0.84	3.28
		NH ₃	0.001	0.001
		H ₂ S	0.001	0.001
		VOC	0.84	3.28
T-2588	Sour Water Storage	NH ₃	0.001	0.001
		H ₂ S	0.001	0.001
		VOC	0.84	3.28
		NH ₃	0.001	0.001
		H ₂ S	0.001	0.001
T-2590	Sour Water Storage	VOC	0.84	3.28
		NH ₃	0.001	0.001
		H ₂ S	0.001	0.001
		VOC	0.84	3.28
		NH ₃	0.001	0.001

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

T-1494	Amine Storage	VOC	0.85	0.03
--------	---------------	-----	------	------

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> lb/hr	
<u>TPY</u>				
E-01-Sump	Amine Sump	VOC	0.03	0.14
E-01-SRURK thru E-12-SRURK	SRU Loading Racks (6)	H ₂ S	0.11	0.13
F-544	Fugitives (4)	VOC	2.10	9.2
		SO ₂	0.002	0.01
		H ₂ S	0.07	0.32
		NH ₃	0.04	0.18

- (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) PM₁₀ - particulate matter less than 10 microns
 VOC - volatile organic compounds as defined in General Rule 101.1
 NO_x - total oxides of nitrogen
 SO₂ - sulfur dioxide
 CO - carbon monoxide
 H₂S - hydrogen sulfide
 NH₃ - anhydrous ammonia
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) These flares are in service for various process units at the permit holder's facility. The represented allowable emission rates are attributable to the operation of the facilities authorized by this permit only.
- (6) Allowable emission rates are for each loading rack EPN; a maximum of three nozzles is authorized for simultaneous use.

* 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

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Dated _____