

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

(Prior to the Sulfur Recovery Unit Start-up)

21869

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.

The information presented in this table is valid only until the Sulfur Recovery Unit covered by this permit is operational.

AIR CONTAMINANTS DATA

Emission Point No. (1)	Name (2)	Source Name (3)	lb/hr	TPY	Air Contaminant	<u>Emission Rates *</u>	
1		System 100 Fugitives (4)			H2S	0.01	0.04
					VOC	0.30	1.30
2		System 200 Fugitives (4)			H2S	0.02	0.09
					VOC	0.60	2.61
4a		System 400 Glycol Reboiler			SO2	0.01	0.01
					NOx	0.21	0.91
					CO	0.04	0.19
					PM	0.01	0.05
					VOC	0.01	0.05
4b		System 400 Fugitives (4)			VOC	0.31	1.37
					H2S	0.01	0.04
5		System 500 Fugitives (4)			VOC	0.51	2.21
6		System 600 Fugitives (4)			VOC	0.34	1.50
7a		Hot Oil Heater			SO2	0.01	0.03
					NOx	0.97	4.26
					CO	0.20	0.88
					PM	0.05	0.21
					VOC	0.05	0.20
7b		Flare			SO2	92.08	403.31
					NOx	0.46	1.97
					CO	0.04	0.20
					PM	0.03	0.10
					VOC	0.03	0.10
7c		System 900 Fugitives (4)			VOC	0.13	0.55

(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) PM - particulate matter

VOC - volatile organic compounds as defined in General Rule 101.1

NOx - total oxides of nitrogen

SO2 - sulfur dioxide

CO - carbon monoxide

H2S - hydrogen sulfide

(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:

Hrs/day___Days/week___Weeks/year___or Hrs/year 8760

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

(After the Sulfur Recovery Unit Start-up)

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1		System 100 Fugitives (4)			H2S	0.01	0.04
					VOC	0.30	1.30
2		System 200 Fugitives (4)			VOC	0.60	2.61
3a		PG Solvent Regeneration Heater			SO2	0.02	0.09
					NOx	4.25	18.61
					CO	1.08	4.71
					PM	0.15	0.66
					VOC	0.09	0.36
3b		AG Solvent Regeneration Heater			SO2	0.01	0.03
					NOx	0.95	3.84
					CO	0.18	0.75
					PM	0.04	0.19
					VOC	0.05	0.20
3c		Tail Gas Incinerator			H2S	0.06	0.21
					SO2	109.45	479.40
					NOx	0.11	0.48
					CO	13.55	59.35
					PM	0.01	0.03
					VOC	0.01	0.03
					COS	0.10	0.40
					CS2	0.10	0.40
3d		Sulfur Pit			SO3	0.55	2.40
3e		System 300 Fugitives (4)			S	0.01	0.01
					H2S	0.26	1.12
3e		System 300 Fugitives (4)			VOC	0.29	1.28
					H2S	0.19	0.85

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					CO	0.04	0.19
					PM	0.01	0.05
					VOC	0.01	0.05
4b		System 400			VOC	0.31	1.37
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7a		Hot Oil Heater			SO2	0.01	0.03
					NOx	0.97	4.26
					CO	0.20	0.88
					PM	0.05	0.21
					VOC	0.05	0.20
7b		Flare			SO2	14.89	65.14
					NOx	0.46	1.97
					CO	0.04	0.20
					PM	0.03	0.10
					VOC	0.31	1.31
7c		System 900 Fugitives (4)			VOC	0.13	0.55

(1) Emission point identification - either specific equipment designation or emission point number from plot plan.

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(3) PM - particulate matter

VOC - volatile organic compounds as defined in General Rule 101.1

NOx - total oxides of nitrogen

SO2 - sulfur dioxide

SO3 - sulfur trioxide

CO - carbon monoxide

S - sulfur

H2S - hydrogen sulfide

COS - carbonyl sulfide

CS2 - carbon disulfide

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