

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 9649/PSD-TX-683

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		Air Contaminant		<u>Emission Rates *</u>	
	Name (2)	Name (3)	lb/hr	TPY		
W-01	CO2 Heater			NO _x	0.3	1.3
				CO	0.07	0.3
				SO ₂	<0.01	0.01
				PM	0.03	0.2
				VOC	0.02	0.07
W-02	Glycol Reboiler			NO _x	0.2	1.0
				CO	0.06	0.3
				SO ₂	<0.01	0.01
				PM	0.03	0.1
				VOC	0.01	0.05
W-03	Boiler 1			NO _x	6.6	28.8
				CO	3.7	16.3
				SO ₂	0.04	0.2
				PM	0.8	3.7
				VOC	0.2	0.8
W-04	Boiler 2			NO _x	6.6	28.8
				CO	3.7	16.3
				SO ₂	0.04	0.2
				PM	0.8	3.7
				VOC	0.2	0.8
W-05	SRU Heater			NO _x	0.2	0.7
				CO	0.03	0.1
				SO ₂	<0.01	<0.01
				PM	0.01	0.06
				VOC	0.01	0.03
W-06	SRU Incinerator			NO _x	0.2	1.0
				CO	1.1	4.8
				SO ₂	70.2	308.0

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>			
			lb/hr	TPY		
			PM	0.03	0.12	
			VOC	0.01	0.05	
			TRS	0.8	3.3	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
W-07	Flare	NO _x	0.05	0.2
		CO	0.2	0.9
		SO ₂	2.9	12.7
		VOC	0.8	3.4
		H ₂ S	0.03	0.14
E-931	Preliminary Cooling Water Separator	H ₂ S	0.01	0.03
		VOC	0.5	2.2
E-932	Secondary Cooling Water Separator	H ₂ S	0.01	0.03
		VOC	0.5	2.2
FU-CO2	Plant Fugitives (4)	VOC	46.1	202.0
		H ₂ S	0.2	0.8
E-840	Slop Oil Tank	VOC	0.5	1.2
		H ₂ S	0.01	0.02
E-EMGEN	Emergency Generator (6)	NO _x	21.9	0.07
		CO	1.5	0.01
		SO ₂	1.5	0.01
		PM	0.4	0.01
		VOC	0.6	0.01
E-EMWATER	Fire Water Pump (6)	NO _x	5.0	0.06
		CO	1.1	0.01
		SO ₂	0.3	0.01
		PM	0.33	0.01
		VOC	0.4	0.01
E-GASOLINE	Gasoline Storage Tank	VOC	7.8	0.2
E-METHANOL	Methanol Storage Tank	VOC	1.5	0.05
E-NAPTHA	Naptha Storage Tank	VOC	3.2	0.05

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>			
			lb/hr	TPY		
E-892		Diesel Storage Tank		VOC	0.4	0.01
E-201		T-201 Glycol Storage Tank		VOC	0.02	0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
E-202	T-202 Sour Glycol Tank	VOC	0.7	0.2
E-401	T-401 Amine Storage Tank	VOC	0.4	0.01
E-C1	Chemical Storage Tank (5)	VOC	3.3	0.03
E-C2	Chemical Storage Tank (5)	VOC	2.1	0.02
E-C3	Chemical Storage Tank (5)	VOC	2.1	0.02
E-C5	Chemical Storage Tank (5)	VOC	1.1	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) PM - particulate matter
VOC - volatile organic compounds as defined in General Rule 101.1
NO_x - total oxides of nitrogen
SO₂ - sulfur dioxide
CO - carbon monoxide
TRS - total reduced sulfur
H₂S - hydrogen sulfide
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) These represent total vapor emission from the tank. The chemical stored may be in aqueous solution so that the total stated emissions would not be limited to VOC.
- (6) The emissions represented are due to operation of the equipment for required preventive maintenance.

* 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 _____