

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 9649 and 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	CO <sub>2</sub> Heater		NO <sub>x</sub>	0.3	1.3
			CO	0.07	0.3
			SO <sub>2</sub>	<0.01	0.01
			PM	0.03	0.2
			VOC	0.02	0.07
W-02	Glycol Reboiler		NO <sub>x</sub>	0.2	1.0
			CO	0.06	0.3
			SO <sub>2</sub>	<0.01	0.01
			PM	0.03	0.1
			VOC	0.01	0.05
W-03	Boiler 1		NO <sub>x</sub>	6.6	28.8
			CO	3.7	16.3
			SO <sub>2</sub>	0.04	0.2
			PM	0.8	3.7
			VOC	0.2	0.8
W-04	Boiler 2		NO <sub>x</sub>	6.6	28.8
			CO	3.7	16.3
			SO <sub>2</sub>	0.04	0.2
			PM	0.8	3.7
			VOC	0.2	0.8
W-05	SRU Heater		NO <sub>x</sub>	0.2	0.7
			CO	0.03	0.1
			SO <sub>2</sub>	<0.01	<0.01
			PM	0.01	0.06
			VOC	0.01	0.03
W-06	SRU Incinerator		NO <sub>x</sub>	0.4	1.0
			CO	1.7	4.8
			SO <sub>2</sub>	110.8	308.0

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Emission	Source	Air Contaminant	Emission Rates *		
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY	
			PM	0.04	0.12
			VOC	0.02	0.05
			TRS	1.2	3.3

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
W-07	Flare (7)	NO <sub>x</sub>	0.05	0.2
		CO	0.2	0.9
		SO <sub>2</sub>	2.9	12.7
		VOC	0.8	3.4
		H <sub>2</sub> S	0.03	0.14
	Flare (8)	NO <sub>x</sub>	0.05	0.2
		CO	0.2	0.9
		SO <sub>2</sub>	3.0	12.8
		VOC	0.9	3.5
		H <sub>2</sub> S	0.03	0.14
E-931	Preliminary Cooling Water Separator (7)	H <sub>2</sub> S	0.01	0.02
		VOC	0.4	1.5
E-932	Secondary Cooling Water Separator (7)	H <sub>2</sub> S	0.01	0.02
		VOC	0.4	1.5
FU-CO2	Plant Fugitives (4,7)	VOC	46.1	202.0
		H <sub>2</sub> S	0.2	0.8
	Plant Fugitives (4,8)	VOC	46.2	202.3
		H <sub>2</sub> S	0.2	0.8
E-840	Slop Oil Tank (7)	VOC	1.4	1.2
		H <sub>2</sub> S	0.02	0.02
E-EMGEN	Emergency Generator (6)	NO <sub>x</sub>	21.9	0.07
		CO	1.5	0.01
		SO <sub>2</sub>	1.5	0.01
		PM	0.4	0.01
		VOC	0.6	0.01
E-EMWATER	Fire Water Pump (6)	NO <sub>x</sub>	5.0	0.06
		CO	1.1	0.01
		SO <sub>2</sub>	0.3	0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
			PM	0.33
			VOC	0.4
E-METHANOL	Methanol Storage Tank		VOC	2.0
E-NAPHTHA	Naptha Storage Tank		VOC	3.8
E-892	Diesel Storage Tank		VOC	0.4
E-201	T-201 Glycol Storage Tank		VOC	0.02
E-202	T-202 Sour Glycol Tank		VOC	0.2
			H <sub>2</sub> S	0.01
E-401	T-401 Amine Storage Tank		VOC	0.4
E-C1	Chemical Storage Tank (5)		VOC	3.3
E-C2	Chemical Storage Tank (5)		VOC	2.1
E-C3	Chemical Storage Tank (5)		VOC	2.1
E-C5	Chemical Storage Tank (5)		VOC	1.1
E-C6	Chemical Storage Tank (5)		VOC	0.6

- (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<sub>x</sub> - total oxides of nitrogen  
SO<sub>2</sub> - sulfur dioxide  
CO<sub>2</sub> - carbon dioxide  
CO - carbon monoxide

TRS - total reduced sulfur

H<sub>2</sub>S - 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.
  - (7) Emission point valid until vents from tanks T-931, T-932 and T-840 are routed to the flare in 1995.
  - (8) Emission point valid after vents from tanks T-931, T-932 and T-840 are routed to the flare in 1995.
- \* 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 \_\_\_\_\_