

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**

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Permit Numbers 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.

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
W-01	CO ₂ Heater	NO _x	0.25	1.07
		CO	0.21	0.90
		SO ₂	0.10	0.10
		PM ₁₀	0.10	0.10
		VOC	0.10	0.10
W-02	Glycol Reboiler	NO _x	0.20	0.90
		CO	0.20	0.72
		SO ₂	0.10	0.10
		PM ₁₀	0.10	0.10
		VOC	0.10	0.10
W-03	Boiler 1	NO _x	3.84	16.80
		CO	4.51	19.80
		SO ₂	0.10	0.44
		PM ₁₀	0.41	1.80
		VOC	0.30	1.30
W-04	Boiler 2	NO _x	3.84	16.80

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				lb/hr	TPY**
		CO	4.51	19.80	
		SO ₂	0.10	0.44	
		PM ₁₀	0.41	1.80	
		VOC	0.30	1.30	
W-05	SRU Heater		NO _x	0.11	0.50
		CO	0.10	0.40	
		SO ₂	0.10	0.10	
		PM ₁₀	0.10	0.10	
		VOC	0.10	0.10	
W-06	SRU Incinerator		NO _x	0.30	1.00
		CO	0.20	0.90	
		SO ₂	132.50	126.44	
		PM ₁₀	0.10	0.10	
		VOC	0.10	0.10	
		H ₂ S	1.41	3.30	
W-07	Flare		NO _x	0.10	0.33
		CO	0.33	1.42	
		SO ₂	3.04	5.80	
		VOC	0.20	0.70	
		H ₂ S	0.10	0.10	
W-08	Flare (5)		NO _x	0.10	0.41
		CO	0.35	1.55	
		SO ₂	0.01	0.04	
		VOC	0.01	0.02	
W-09	Boiler 3		NO _x	2.88	12.60
		CO	3.04	13.32	
		SO ₂	0.20	0.70	
		PM ₁₀	0.61	2.70	
		VOC	0.44	1.94	

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W-10	Temporary Boiler (6)	NO _x	0.74	3.26
		CO	2.75	12.06
		SO ₂	0.14	0.60
		PM ₁₀	0.60	2.43
		VOC	0.40	1.80
Analyzers	Analyzer Vents	VOC	0.10	0.22
		H ₂ S	0.10	
FU-CO2	Plant Fugitives (7)	VOC	6.00	26.16
		H ₂ S	0.12	0.53
FU-OTHER	Plant Fugitives-Other (7)	VOC	1.50	6.60
		H ₂ S	0.10	0.20
FU-DEMETH	Fugitive emissions from demethanizer (4) (7)	VOC	0.14	0.60
		H ₂ S	0.10	0.10
E-EMGEN	Emergency Generator (4)	NO _x	19.91	8.71
		CO	4.34	1.90
		SO ₂	1.70	0.74
		PM ₁₀	1.81	0.80
		VOC	0.60	0.30
E-EMWATER	Fire Water Pump (4)	NO _x	4.23	1.85
		CO	0.92	0.40
		SO ₂	0.30	0.12
		PM ₁₀	0.30	0.13
		VOC	0.34	0.15
H-220	Demethanizer Heater (4)	NO _x	0.30	1.12
		CO	0.21	0.94
		SO ₂	0.10	0.10
		PM ₁₀	0.10	0.10
		VOC	0.10	0.10
T-230A	Methanol Storage Tank	VOC	2.22	0.21

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			<u>lb/hr</u>	<u>TPY**</u>
T-230B	Methanol Storage Tank	VOC	2.22	0.21
V-892	Diesel Storage Tank 1	VOC	0.10	0.10
T-EMGEN	Diesel Storage Tank 2	VOC	0.10	0.10

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- (1) Emission point identification - either specific equipment designation or emission point number from a plot plan.
- (2) Specific point source names. For fugitive sources, use an area name or fugitive source name.
- (3) NO_x - total oxides of nitrogen
CO - carbon monoxide
SO₂ - sulfur dioxide
PM₁₀ - particulate matter (PM) equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
H₂S - hydrogen sulfide
- (4) These facilities are authorized by Permit by Rule and are included for reference. **(11/06)**
- (5) Emissions authorized by this flare are pilot and purge gas only.
- (6) A temporary boiler with a heat input rating of up to 74.4 MM Btu/hr may be used on an as-needed basis. **(11/06)**
- (7) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (8) HAP emissions do not exceed 10 tpy of any one and 25 tpy of any combination of HAPs

* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

24 Hrs/day 7 Days/week 52 Weeks/year or 8,760 Hrs/year

** Compliance with annual emission limits is based on a rolling 12-month period.

Date April 20, 2007