

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES  
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Permit No. 9288, PSD-TX-500M4, PSD-TX-601M1

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 Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
H-1A	Heater (7)	VOC	0.35	1.50
		NO <sub>x</sub>	9.00	39.40
		PM	1.80	8.00
		CO	2.00	9.00
H-1A	Heater (8)	VOC	0.50	2.16
		NO <sub>x</sub>	10.04	43.98
		PM	1.80	8.00
		CO	2.00	9.00
		SO <sub>2</sub> (9)	11.08	48.56
		H <sub>2</sub> S	<0.01	<0.01
H-1B	Heater (7)	NH <sub>3</sub>	0.03	0.11
		VOC	0.35	1.50
		NO <sub>x</sub>	9.00	39.40
		PM	1.80	8.00
H-1B	Heater (8)	CO	2.00	9.00
		VOC	0.50	2.16
		NO <sub>x</sub>	10.04	43.98
		PM	1.80	8.00
		CO	2.00	9.00
		SO <sub>2</sub> (9)	11.08	48.56
H-2	Heater	H <sub>2</sub> S	<0.01	<0.01
		NH <sub>3</sub>	0.03	0.11

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		NO <sub>x</sub>	0.70	3.10
		PM	0.14	0.60
		CO	0.16	0.70
H-2B	Heater	VOC	0.04	0.18
		NO <sub>x</sub>	1.00	4.40
		PM	0.20	0.88
		CO	0.22	0.96

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
8	SulFerox™ Vent (7)	H <sub>2</sub> S	0.201	0.88
		BZ	2.260	9.90
		CH <sub>3</sub> SH	0.208	0.91
		C <sub>2</sub> H <sub>6</sub> S	0.228	1.00
		NH <sub>3</sub>	2.283	10.00
		VOC (5)	10.37	45.46
8	SulFerox™ Vent (8)	(6)	*,*	*,*
CW	Cooling Tower	VOC	2.52	11.04
FUG1	Fugitives (4)	VOC		179.15
FUG2	Belt Filter Building (4)	VOC	4.90	

- (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) VOC - volatile organic compounds as defined in General Rule 101.1  
 NO<sub>x</sub> - total oxides of nitrogen  
 PM - particulate matter  
 CO - carbon monoxide  
 BZ - benzene  
 H<sub>2</sub>S - hydrogen sulfide  
 NH<sub>3</sub> - ammonia  
 CH<sub>3</sub>SH - methyl mercaptan  
 C<sub>2</sub>H<sub>6</sub>S - ethyl mercaptan  
 SO<sub>2</sub> - sulfur dioxide
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) The VOC reported value is excluding benzene, methyl mercaptan, and ethyl mercaptan and includes (but is not limited to) isopropylmercaptan, dimethyl disulfide, methylethyl disulfide, toluene, (m,p,o)-xylenes, and naphthalene.
- (6) The EPN 8 is the spent air stack at the SulFerox™ Unit. This vent is used only for emergency,

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upset, and maintenance conditions. During routine operations, the spent air is routed to the Heaters H1-A and H1-B for control.

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- (7) This allowable is applicable before the start of operation following the modification represented with the PI-1 Permit Amendment Application dated October 4, 1994, in which the SulFerox<sup>tm</sup> Vent (EPN 8) is routed to Heaters H1-A and H1-B for control.
- (8) This allowable is applicable after the start of operation following the modification represented with the PI-1 Permit Amendment Application dated October 4, 1994.
- (9) The allowable represents the combined total annual emissions from both Heaters H1-A and H1-B, but may be distributed between these two heaters.

\* 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 \_\_\_\_\_