EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 8356 and PSD-TX-331M1

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	Source	Air Contaminant	<u>Emissio</u>	Emission Rates *		
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**		
B-004	Steam Boilers (5)	VOC NO _x SO ₂ PM CO	0.63 20.11 6.69 1.85 5.03	2.76 88.09 8.79 8.08 22.03		
B-005	Boiler SP-5	VOC NO _x SO ₂ PM CO	0.21 2.82 1.31 0.35 2.45	0.90 12.40 2.47 1.50 10.70		
B-006	Steam Boiler	VOC NO _x SO ₂ PM CO	0.44 5.94 3.94 0.73 8.83	1.90 26.00 5.20 3.20 38.60		
F-0681	Oil/Water Separator	VOC	1.62	7.10		
F-2200	Alky Splitter Fugitive (4)	VOC	0.89	3.90		
F-2310	Amine Unit Fugitive (4)	VOC	1.05	4.60		
F-2320	No. 1 SWRU Fugitive (4)	VOC	0.18	0.80		
F-2330	ATS Unit Fugitive (4)	SO ₂ H ₂ S NH ₃	<0.01 0.02 0.09	<0.01 0.09 0.41		

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Emission	Source	Air Contaminant	Emission	Emission Rates *		
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**		
F-2410	FCC Fugitive (4)	VOC	5.34	23.40		
F-2420	LPG Merox Fugitive (4)	VOC	1.26	5.50		
F-2430	Cat Merox Fugitive (4)	VOC	1.07	4.70		
F-2500	Alky Fugitive (4)	VOC	2.31	10.10		
F-2800	East Plant Boiler Fugitive (4)	VOC	0.37	1.6		
F-2810	East Plant Cooling Tower	VOC	1.47	6.44		
F-3500	No. 1 Sulfur Plant Fugitives ((4) VOC SO ₂ H ₂ S NH ₃ Sulfur	0.01 <0.01 0.02 <0.01 <0.01	0.03 <0.01 0.09 <0.01 <0.01		
FL-003 only	Emergency Flare	VOC NO _x SO ₂ PM CO	Emerg	ency use		
H-020	Isostripper Reboiler Heater	VOC NO_x SO_2 PM CO	0.19 5.86 1.64 0.54 1.47	0.81 25.65 2.16 2.37 6.42		
H-039	No. 1 SRU Hot Oil Heater	VOC NO _x SO ₂ PM CO	0.04 0.21 0.17 0.06 0.21	0.09 0.91 0.23 0.26 0.92		

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AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	Emission Rates *		
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**	
V-003	ATS Secondary Absorber	SO_2	2.00	3.01	
		H₂S	0.10	0.44	
V-008	No. 1 Sulfur Plant Vent	VOC	0.06	0.17	
		NO_x	1.26	3.68	
		SO ₂	15.55	68.09	
		PM	0.08	0.23	
		CO	0.42	1.23	

- (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 Title 30 Texas Administrative Code § 101.1
 - NO_x total oxides of nitrogen
 - SO₂ sulfur dioxide
 - H₂S hydrogen sulfide
 - PM particulate matter, suspended in the atmosphere, including PM₁₀
 - PM₁₀ particulate matter, equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.
 - CO carbon monoxide
 - NH₃ ammonia
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Two boilers venting through a common stack. Each boiler when operating alone is limited to emit one-half of the values shown.

*	Emission rates schedule:	are bas	sed on	and the	e facilities	are	limited	by th	e following	maximum	operating
	Hrs/day	D) Days/we	ek	Weeks/	year	or	8,760	Hrs/year		

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