

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

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

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Permit Number 49138

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)	<u>Emission Rates</u>	
			lb/hr	TPY*
60FUG_002	HP, LP, and FCC Flare Fugitives (4)	VOC	1.29	5.66
60FUG_001	CHD1 and CHD2 Flare Fugitives (4)	VOC	0.86	3.77
60FUG_003	No. 6, 7, and 10 Flare Fugitives (4)	VOC	1.29	5.66
60FLR_003	High Pressure Flare (5)(7)	NO _x	1.92	7.34
		CO	9.79	37.38
		SO ₂	232.1	57.36
		VOC	9.85	15.10
		H ₂ S	2.52	0.61
60FLR_005	Low Pressure Flare (5)(6)(7)	NO _x	2.60	5.28
		CO	13.24	32.71
		SO ₂	442.0	218.1

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)		<u>Emission Rates</u>	
				lb/hr	TPY*
60FLR_008	FCC Flare (5)(7)	VOC	10.72	13.13	
		H ₂ S	4.79	2.32	
		NO _x		1.62	3.69
		CO	11.66	21.21	
		SO ₂	162.1	53.11	
		VOC	6.88	8.54	
		H ₂ S	1.76	0.56	
60FLR_001	CHD1 Flare (5)(6)	NO _x		1.98	8.73
		CO	10.16	44.50	
		SO ₂	179.0	533.6	
		VOC	6.75	17.98	
		H ₂ S	1.94	5.67	
60FLR_006	No. 6 Flare (8)	NO _x		0.74	3.24
		CO	4.22	17.97	
		SO ₂	11.87	24.05	
		VOC	2.02	7.24	
		H ₂ S	0.13	0.25	
60FLR_007	No. 7 Flare (5)(8)	NO _x		1.38	6.06
		CO	9.66	38.37	
		SO ₂	24.55	40.18	
		VOC	4.17	15.39	
		H ₂ S	0.27	0.43	
60FLR_010	No. 10 Flare (5)(8)	NO _x		1.48	6.47
		CO	7.52	32.95	
		SO ₂	11.60	22.42	
		VOC	3.04	13.31	
		H ₂ S	0.12	0.24	

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- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
 - (2) Specific point source name.
 - (3) NO_x - total oxides of nitrogen
CO - carbon monoxide
SO₂ - sulfur dioxide
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1.
H₂S - hydrogen sulfide
 - (4) Emission rate is an estimate and is only enforceable through compliance with the applicable special condition(s) and permit application representations.
 - (5) The annual allowable emission rate for CO, NO_x, and VOC at each of these emission points shall be reduced by 50 percent effective December 31, 2007.
 - (6) The annual allowable emission rate for SO₂ and H₂S at each of these emission points shall be reduced by 80 percent effective December 31, 2007.
 - (7) Each of these flares may serve as backup for one or both of the other two flares. The allowable emissions for the off-line flare may be added to the backup flare allowable emission rate when operating in that mode.
 - (8) Each of these flares may serve as backup for one or both of the other two flares. The allowable emissions for the off-line flare may be added to the backup flare allowable emission rate when operating in that mode.
- * Emission rates are based on a continuous operating schedule. Compliance with annual emission limits is based on a rolling 12-month period.

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Dated October 31, 2004