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.

Emission	Source	Air Contaminant	Emission	Rates*
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
60FLR_ 003	High-Pressure Flare (5)	NO_x CO SO_2 VOC H_2S	115.3 587.70 9747.00 685.9 105.7	
60FLR_ 003	High-Pressure Flare (5) (8)	NO_x CO SO_2 VOC H_2S	22.13 112.77 234.58 131.62 2.54	
60FLR_003	\$	6as 0.08 CO 0.12 6O ₂ 0.01 /OC 0.05 H ₂ S 0.01	NO _x 0.54 0.01 0.02 0.01	0.02
60FLR_ 005	\$	NO _x CO 794.1 SO ₂ 19,698 /OC 1,286 H ₂ S 213.6	155.8 	
60FLR_ 005	Low-Pressure Flare (5) (8)	NO _x CO 282.19	55.38 	

Emission	Source	Air	Contaminant	Emission	Rates *
Point No. (1)	Name (2)		Name (3)	lb/hr	TPY**
60FLR_005	Low-Pressure Flare Pilot	SO ₂ VOC H ₂ S Gas 0.0 CO	7.68	 NO _x 0.54	0.02
		SO ₂ VOC H ₂ S	0.01	0.01 0.02 0.01	
60FLR_008	FCC Flare (5)	CO SO ₂ VOC H ₂ S	NO _x 700.0 6,808 1,097 73.81	96.92 	
60FLR_008	FCC Flare (5) (8)	CO SO ₂ VOC H ₂ S	NO _x 53.30 64.96 83.53 0.70	7.38 	
60FLR_008	FCC Flare Pilot Gas	CO SO ₂ VOC H ₂ S	NO _x 0.09 0.01 0.05 0.01	0.01 0.41 0.01 0.22 0.01	0.06
60FLR_001	CHD1 Flare (7)	CO SO ₂ VOC H ₂ S	NO _x 427.8 10,741 470.1 116.5	83.96 	
60FLR_001	CHD1 Flare Pilot Gas	CC	NO _x 0 0.05	0.01 0.24	0.03

Emission	Source	Air Contaminant	Emission R	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
		SO ₂ VOC H₂S	0.01 0.02 0.01	0.01 0.10 0.01
60FLR_006	No. 6 Flare (6)	NO_x CO 253.4 SO_2 712.4 VOC 391.0 H_2S 7.72	35.09 	
60FLR_006	No. 6 Flare Pilot Gas	NO_x $CO \ 0.22$ SO_2 VOC H_2S	0.03 0.96 0.01 0.09 0.01	0.13 0.01 0.38 0.01
60FLR_007	No. 7 Flare (6)	NO_x CO 521.9 SO_2 1,326 VOC 1,048 H_2S 14.38	72.26 	
60FLR_007	No. 7 Flare Pilot Gas	NO _x CO 0.22 SO ₂ VOC H ₂ S	0.03 0.38 0.01 0.09 0.01	0.13 0.01 0.38 0.01
60FLR_010	No. 10 Flare (6)	NO_x CO 277.3 SO_2 696.0 VOC 537.7 H_2S 7.55	38.39 	
60FLR_010	No. 10 Flare (6) (8)	SO ₂ H ₂ S 1.27	117.58 	

Emission Point No. (1)	Source Name (2)	Air	Contaminant Name (3)	Emissior lb/hr	n Rates *
TOTIL INO. (1)	Name (2)		rvaine (5)	197111	
60FLR_010	No. 10 Flare Pilot Gas	C0 S0 V0 H ₂)C	0.07 2.23 0.01 0.20 0.01	0.31 0.01 0.89 0.01
60FLR_002	CHD2 Flare (7)	CO SO ₂ VOC H ₂ S	NO _x 9.27 211.68 4.47 2.29	1.82 	
NO _x Annual Cap for FI EPNs 60FLR_001, 6 60FLR_005, 60FLR_ 60FLR_008, and 60F	0FLR_002, 60FLR_003, 006, 60FLR_007,		NO _x Cap Total		96.03
CO Annual Cap for Fla EPNs 60FLR_001, 6 60FLR_005, 60FLR_ 60FLR_008, and 60F	0FLR_002, 60FLR_003, 006, 60FLR_007,		CO Cap Total		644.96
SO ₂ Annual Cap for FI EPNs 60FLR_001, 6 60FLR_005, 60FLR_ 60FLR_008, and 60F	0FLR_002, 60FLR_003, 006, 60FLR_007,		SO₂ Cap Total		611.38
VOC Annual Cap for F EPNs 60FLR_001, 6 60FLR_005, 60FLR_ 60FLR_008, and 60F	0FLR_002, 60FLR_003, 006, 60FLR_007,		VOC Cap Total		844.08

Emission

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Air Contaminant

AIR CONTAMINANTS DATA

Emission Rates *

	Jource	All Contaminant	Lillission Raics	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
H ₂ S Annual Cap for Fl EPNs 60FLR_001, 60 60FLR_005, 60FLR_ 60FLR_008, and 60F	0FLR_002, 60FLR_003, 006, 60FLR_007,	H₂S Cap Total		11.16
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	Nos. 6, 7, and 10 Flare Fugitives (4)	VOC	1.29	5.66

- (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
 - MSS maintenance, start-up and shutdown

Source

- (4) Emission rate is an estimate and is only enforceable through compliance with the applicable special condition(s) and permit application representations.
- (5) 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.
- (6) 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.
- (7) Each of these flares may serve as backup for the other flare. The allowable emissions for the

AIR CONTAMINANTS DATA

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

off-line flare may be added to the backup flare allowable emission rate when operating in that mode.

- (8) These emission rates will be effective no later than July 1, 2009.
- * Emission rates are based on a continuous 8,760 hours/year operating schedule.
- ** Compliance with annual emission limits is based on a rolling 12-month period.

Dated January 11, 2008