#### Flexible 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 <sub>x</sub> CO SO <sub>2</sub> VOC H <sub>2</sub> S	22.13 112.77 234.58 131.62 2.54	  
60FLR_003	High-Pressure Flare Pilot Ga	CO SO <sub>2</sub> VOC H <sub>2</sub> S	NO <sub>x</sub> 0.08 0.12 0.01 0.05 0.01	0.02 0.54 0.01 0.02 0.01
60FLR_005	Low-Pressure Flare (5)	$NO_x$ $CO$ $SO_2$ $VOC$ $H_2S$	155.8 794.1 19,698 1,286 213.6	  
60FLR_005	Low-Pressure Flare (5) (8)	$NO_x$ $CO$ $SO_2$ $VOC$ $H_2S$	55.38 282.19 708.04 457.18 7.68	  

Emission	Source	Air Contaminant	<u>Emission</u>	Rates*
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
60FLR_005	Low-Pressure Flare Pilot Ga	CO SO <sub>2</sub> VOC H <sub>2</sub> S	NO <sub>x</sub> 0.08 0.12 0.01 0.05 0.01	0.02 0.54 0.01 0.02 0.01
60FLR_008	FCC Flare (5)	NO <sub>x</sub> CO SO <sub>2</sub> VOC H <sub>2</sub> S	96.92 700.0 6,808 1,097 73.81	  
60FLR_008	FCC Flare (5) (8)	$NO_x$ $CO$ $SO_2$ $VOC$ $H_2S$	7.38 53.30 64.96 83.53 0.70	  
60FLR_008	FCC Flare Pilot Gas	$NO_x$ $CO$ $SO_2$ $VOC$ $H_2S$	0.01 0.09 0.01 0.05 0.01	0.06 0.41 0.01 0.22 0.01
60FLR_001	CHD1 Flare (7)	$NO_x$ $CO$ $SO_2$ $VOC$ $H_2S$	83.96 427.8 10,741 470.1 116.5	  
60FLR_001	CHD1 Flare Pilot Gas	$NO_x$ $CO$ $SO_2$ $VOC$ $H_2S$	0.01 0.05 0.01 0.02 0.01	0.03 0.24 0.01 0.10 0.01

Emission	Source	Air Contaminant	Emission Rates*	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
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60FLR_006	No. 6 Flare (6)	$NO_x$	35.09	
		CO	253.4	
		$SO_2$	712.4	
		VOC	391.0	
		H₂S	7.72	
60FLR_006	No. 6 Flare Pilot Gas	$NO_x$	0.03	0.13
_		CO	0.22	0.96
		SO <sub>2</sub>	0.01	0.01
		VOC	0.09	0.38
		H <sub>2</sub> S	0.01	0.01
60FLR 007	No. 7 Flare (6)	$NO_x$	72.26	
_	,	CO	521.9	
		$SO_2$	1,326	
		VOC	1,048	
		$H_2S$	14.38	
60FLR 007	No. 7 Flare Pilot Gas	$NO_x$	0.03	0.13
_		CO	0.22	0.38
		$SO_2$	0.01	0.01
		VOC	0.09	0.38
		H <sub>2</sub> S	0.01	0.01
60FLR 010	No. 10 Flare (6)	NO <sub>x</sub>	38.39	
_	,	CO	277.3	
		$SO_2$	696.0	
		VOC	537.7	
		H <sub>2</sub> S	7.55	
60FLR 010	No. 10 Flare (6) (8)	SO <sub>2</sub>	117.58	
_	,,,,	$H_2S$	1.27	

Emission	Source	Air Contaminant	Emission Rates*	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
60FLR_010	No. 10 Flare Pilot Gas	$NO_x$ $CO$ $SO_2$ $VOC$ $H_2S$	0.07 0.51 0.01 0.20 0.01	0.31 2.23 0.01 0.89 0.01
60FLR_002	CHD2 Flare (7)	$NO_x$ $CO$ $SO_2$ $VOC$ $H_2S$	1.82 9.27 211.68 4.47 2.29	  
$NO_x$ Annual Cap for Flares EPNs 60FLR_001, 60FLR_002, 60FLR_003, 60FLR_005, 60FLR_006, 60FLR_007, 60FLR_008, and 60FLR_010		NO <sub>x</sub> Cap Total		96.03
CO Annual Cap for Fla EPNs 60FLR_001, 60 60FLR_005, 60FLR_ 60FLR_008, and 60F	OFLR_002, 60FLR_003, 006, 60FLR_007,	CO Cap Total		644.96
SO <sub>2</sub> Annual Cap for Flares EPNs 60FLR_001, 60FLR_002, 60FLR_003, 60FLR_005, 60FLR_006, 60FLR_007, 60FLR_008, and 60FLR_010		SO₂ Cap Total		611.38
VOC Annual Cap for F EPNs 60FLR_001, 60 60FLR_005, 60FLR_ 60FLR_008, and 60F	OFLR_002, 60FLR_003, 006, 60FLR_007,	VOC Cap Total		844.08
H <sub>2</sub> S Annual Cap for Fla EPNs 60FLR_001, 60 60FLR_005, 60FLR_ 60FLR_008, and 60F	OFLR_002, 60FLR_003, 006, 60FLR_007,	H₂S Cap Total		11.16

Emission	Source	Air Contaminant	Emission Rates*	
Point No. (1)	Name (2)	Name (3)	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	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
  - SO<sub>2</sub> sulfur dioxide
  - VOC volatile organic compounds as defined in Title 30 Texas Administrative Code ' 101.1
  - H<sub>2</sub>S 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) 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 offline 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 September 30, 2010.
- \* 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.