### Permit Number 5414

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	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY **
FE-1	Fire Pump Engine No. 1 (7)	NO <sub>x</sub>	10.35	0.45
	334-Horsepower	CO	2.23	0.10
		VOC	0.82	0.04
		$SO_2$	0.68	0.03
		$PM_{10}$	0.73	0.03
FE-2	Fire Pump Engine No. 2 (7)	NO <sub>x</sub>	10.35	0.45
	334-Horsepower	CO	2.23	0.10
		VOC	0.82	0.04
		$SO_2$	0.68	0.03
		PM <sub>10</sub>	0.73	0.03
FE-3	Fire Pump Engine No. 3 (7) 334-Horsepower	NO <sub>x</sub>	10.35	0.45
		CO	2.23	0.10
		VOC	0.82	0.04
		$SO_2$	0.68	0.03
		$PM_{10}$	0.73	0.03
FE-4	Fire Pump Engine No. 4 (6) 468-Horsepower	$NO_x$	14.51	0.63
		CO	3.13	0.14
		VOC	1.16	0.05
		$SO_2$	0.96	0.04
		$PM_{10}$	1.03	0.05
FL-1	Flare Stack (Normal operation and pilot fue	СО	0.0	0.0
		•	0.0	0.0
		$O_2$ 0.01	0.01	
		OC (7)	33.01	144.60
	BI		8.39	
		H <sub>4</sub> 1.44	6.32	
	C <sub>3</sub>	<sub>8</sub> H <sub>6</sub> 1.99	8.71	

# AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant		Emission Rates *	
Point No. (1)	Name (2)		Name (3)	lb/hr	<u>TPY</u>
H-02	Smalling Heater Stack		CO NO <sub>x</sub> PM <sub>10</sub> SO <sub>2</sub> VOC	3.28 3.90 0.30 0.02 0.21	14.35 17.08 1.30 0.01 0.94
H-07	Propane Regen Heater Stack		$CO$ $NO_x$ $PM_{10}$ $SO_2$ $VOC$	0.42 0.50 0.01 0.04 0.03	1.84 2.19 0.01 0.17 0.12
H-08	Boiler Stack		$CO$ $NO_x$ $PM_{10}$ $SO_2$ $VOC$	1.23 1.47 0.01 0.11 0.08	5.41 6.44 0.04 0.49 0.35
H-09	Butane Regen Heater Stack		$CO$ $NO_x$ $PM_{10}$ $SO_2$ $VOC$	0.29 0.35 0.01 0.03 0.02	1.29 1.53 0.01 0.12 0.08
LR-1MP	Barge Slip Tubes	$C_2H_4$ $C_3H_6$ VOC	BD 0.0 0.0 (7)	0.0 0.0 0.0 0.0	0.0
LR-1T	Truck Loading and Unloading Connections	C₃H <sub>6</sub> VOC	BD C <sub>2</sub> H <sub>4</sub> 0.0 (7)	0.0 0.0 0.0 0.0	0.0 0.0 0.0
LR-2T	Truck Slip Tubes	C <sub>2</sub> H <sub>4</sub> C <sub>3</sub> H <sub>6</sub>		0.0 0.0 0.0	0.0
		VOC	(1)	0.0	0.0

# AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	<u>Emissior</u>	Emission Rates *			
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY			
FUG-1	Pmtd. Comp. Process Fug (4)	VOC	0.0	0.0			
These emission rates apply as long as H-03 and H-04 do not each exceed 4,730 hr/yr operation							
H-03	A Glycol Heater Stack	$CO$ $NO_x$ $PM_{10}$ $SO_2$ $OC 0.18$	2.28 6.19 0.89 0.04 0.41	5.38 14.64 2.11 0.09			
H-04	B Glycol Heater Stack	$CO$ $NO_x$ $PM_{10}$ $SO_2$ $VOC$	2.28 6.19 0.89 0.04 0.18	5.38 14.64 2.11 0.09 0.41			
These emis	ssion rates apply once H-03 and	or H-04 exceed 4,730	hr/yr operati	on			
H-03	A Glycol Heater Stack (5)	$CO$ $NO_x$ $PM_{10}$ $SO_2$ $VOC$	5.46 1.63 0.49 0.04 0.36	16.73 4.98 1.51 0.12 1.10			
H-04	B Glycol Heater Stack (5)	$CO$ $NO_x$ $PM_{10}$ $SO_2$ $VOC$	5.46 1.63 0.49 0.04 0.36	16.73 4.98 1.51 0.12 1.10			

- (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) BD butadiene

CO - carbon monoxide

 $C_2H_4$  - ethylene  $C_3H_6$  - propylene

NO<sub>x</sub> - total oxides of nitrogen

PM<sub>10</sub> - particulate matter less than 10 microns in diameter

SO<sub>2</sub> - sulfur dioxide

VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Emission rates for H-03 and H-04 are based on and the facilities are limited by the following maximum

operating schedule: 6,130 Hrs/year

- (6) 87 hours per year of operation
- (7) 1-3, butadiene, ethylene and propylene are not included in the VOC emission rates.
- \* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

Hrs/day 24 Days/week 7 Weeks/year 52

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