Permit Number 76192

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>Emissior</u>	n Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
FULSG001	Fugitive Piping (4)	VOC	2.9	13.5
HTLSG001	Heater H-3701	VOC NO_x SO_2 PM_{10} CO	0.3 1.0 1.4 0.3 0.9	0.7 2.1 3.1 0.7 1.8
TKTKF827	Tank 827	VOC	7.5	13.0
VTLSG001	Regenerator Scrubber Vent	VOC SO_2 SO_3 H_2SO_4 PM_{10} CO	0.5 2.0 0.1 0.5 0.8 2.6	2.2 8.8 0.6 2.0 3.4 11.5
VTLSG002	Lockhopper Vent, Sorbent Storage Drum Loading, Sorbent Fines Drum Loading	PM ₁₀	0.2	0.7
VTLSG003	Sorbent Fines Drum Unloading	PM ₁₀	0.01	0.01
Ultra Low Sulfur Diese	el Unit			
INSRU002	No. 2 Sulfur Plant Tail Gas Incinerator	$\begin{array}{c} \text{VOC} \\ \text{NO}_x \\ \text{CO} \\ \text{SO}_2 \\ \text{PM}_{10} / \text{PM}_{2.5} \\ \text{H}_2 \text{S} \end{array}$	0.10 1.36 6.16 35.20 0.13 0.02	0.41 5.96 26.98 149.76 0.56 0.08

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emissior</u> lb/hr	Rates * TPY**
HTLSD001	ULSD Feed Heater (95 MMBtu/	hr) VOC CO SO_2 $PM_{10}/PM_{2.5}$ NH_3 H_2S	0.52 3.46 3.00 0.72 0.42 0.02	2.25 15.15 4.87 3.13 1.84 0.03
	Typical operation with SCR	NO_x	0.95	_
	SSM operation/SCR bypass Total Annual NO _x	NO _x	3.80 —	_ 4.41
HTLSD002	ULSD Reboiler Heater (39 MMBtu/hr)	$\begin{array}{c} \text{VOC} \\ \text{NO}_{x} \\ \text{CO} \\ \text{SO}_{2} \\ \text{PM}_{10}/\text{PM}_{2.5} \\ \text{H}_{2}\text{S} \end{array}$	0.22 0.98 1.42 1.23 0.30 0.01	0.93 4.28 6.22 2.00 1.29 0.02
FUCTLSD	ULSD Cooling Water Tower	VOC PM PM ₁₀ PM _{2.5}	1.89 0.57 0.31 0.12	8.28 0.99 0.81 0.30
FULSD001	ULSD Unit Fugitives	VOC NH ₃ H ₂ S	2.56 0.03 0.14	11.21 0.13 0.60
FULSD002	ULSD Fugitives Outside Battery Limits	VOC H ₂ S	0.70 <0.01	3.05 <0.01
FULSDFDR	No. 3 Flare Header Fugitives	VOC	0.19	0.81
FUSRUA002	Amine Regeneration System Fugitives	VOC NH₃	0.37 0.01	1.63 0.05

AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	<u>Emission</u>	Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
		H ₂ S	0.08	0.34
FUSRUS002	Sour Water Stripping System Fugitives	VOC NH₃ H₂S	0.01 0.01 0.02	0.03 0.05 0.10
FUSRU002	No. 2 Sulfur Plant Fugitives	VOC NH₃ H₂S	0.39 0.06 0.17	1.71 0.27 0.76
FLRFN003	No. 3 Flare	VOC NO_x CO SO_2 H_2S	1.72 0.25 1.76 0.15 0.01	7.53 1.10 7.71 0.24 0.01
TKTKFSW1	Sour Water Tank No. 1	VOC H ₂ S	1.72 0.17	<u>-</u>
TKTKFSW2	Sour Water Tank No. 2	VOC H ₂ S	1.72 0.17	_
TKTKFSW1 and TKTKFSW2	Total Sour Water Tanks Nos. 1 and 2	VOC H ₂ S	_ _	0.51 0.05
TKTKFDS1	Diesel Storage Tank No. 1	VOC	20.72	_
TKTKFDS2	Diesel Storage Tank No. 2	VOC	20.72	_
TKTKFDS3	Diesel Storage Tank No. 3	VOC	20.72	_

AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
TKTKFDS1, TKTKFDS2 and TKTKFDS3	Total Diesel Storage Tank Nos. 1, 2 and 3	VOC	_	14.90

- (1) Emission point identification either specific equipment designation or emission point number from a plot plan.
- (2) Specific point source names. For fugitive sources, use an 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 SO₃ - sulfur trioxide H₂SO₄ - sulfuric acid

PM - particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}

PM₁₀ - particulate matter (PM) equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted

PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter

CO - carbon monoxide

NH₃ - ammonia

H₂S - hydrogen sulfide

- (4) Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.
- * Emission rates are based on continuous operation.
- ** Compliance with annual emission limits is based on a rolling 12-month period.

Dated August 20, 2010