## Emission Sources - Maximum Allowable Emission Rates

## Permit Number 108147

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, sources, and related activities. 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.	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
(1)			lbs/hour	TPY (4)
HR21.001	Hot Oil Heater	NO <sub>x</sub>	4.90	15.33
		со	12.20	26.71
		voc	0.28	1.23
		РМ	0.56	2.45
		PM <sub>10</sub>	0.56	2.45
		PM <sub>2.5</sub>	0.56	2.45
		SO <sub>2</sub>	0.34	1.51
HR21.002	Regenerant Heater	NO <sub>x</sub>	1.00	3.12
		со	3.72	5.44
		voc	0.06	0.25
		PM	0.14	0.62
		PM <sub>10</sub>	0.14	0.62
		PM <sub>2.5</sub>	0.14	0.62
		SO <sub>2</sub>	0.07	0.31
FRAC F X	Frac X Process Fugitives (5)	VOC	0.80	3.36
		H <sub>2</sub> S	0.01	0.01
HT 22.028	Refrigerant Condenser	PM	0.33	1.44
		PM <sub>10</sub>	0.22	0.99
		PM <sub>2.5</sub>	0.09	0.38
HT22.029	Reflux Cooler	РМ	0.08	0.34

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		PM <sub>10</sub>	0.05	0.23
		PM <sub>2.5</sub>	0.02	0.09
SV24.003	Lean Amine Tank	VOC	<0.01	<0.01
SV24.002	Amine Tank	VOC	<0.01	<0.01
SV24.006	Wastewater Tank	VOC	0.36	0.03
SK25.002	Flare	NO <sub>x</sub>	8.51	3.51
		СО	17.00	7.01
		VOC	28.22	2.31
		SO <sub>2</sub>	0.04	0.01
HR22.001	Thermal Oxidizer	NO <sub>x</sub>	1.78	4.36
		СО	2.38	5.81
		VOC	0.37	0.70
		РМ	0.22	1.40
		PM <sub>10</sub>	0.22	1.40
		PM <sub>2.5</sub>	0.22	1.40
		SO <sub>2</sub>	0.93	1.86
		H <sub>2</sub> S	<0.01	<0.01

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

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

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

PM - total particulate matter, suspended in the atmosphere, including  $PM_{10}$  and  $PM_{2.5}$ , as

represented

PM<sub>10</sub> - total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>, as

represented

PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter

CO - carbon monoxide H<sub>2</sub>S - hydrogen sulfide

(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.

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(5)	Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s)
	and permit application representations.

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