

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 23555

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>Emission Rates</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
537-HC-1	Crude Heater No. 1	PM ₁₀	0.888	3.54
		VOC	0.500	1.99
		NO _x	21.3	84.8
		CO	15.9	44.5
		SO ₂	8.94	17.8
537-HV-1	Vacuum Heater No. 1	PM ₁₀	0.691	2.75
		VOC	0.389	1.55
		NO _x	16.6	65.9
		CO	12.4	34.6
		SO ₂	6.96	13.9
FCT-5370	Cooling Tower	**		
FCT-537N	Cooling Tower	**		
FCT-537X	Cooling Tower	**		
**Total emissions from all three cooling towers or any combination of these towers are as follows:				
	Cooling Towers	VOC	1.32	5.79
537-FUG	Fugitives (4)	VOC	1.05	4.59
		H ₂ 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 General Rule 101.1

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

PM₁₀ - particulate matter 10 microns or less in diameter

CO - carbon monoxide

H₂S - hydrogen sulfide

(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

* Emission rates are based on and the facilities are limited by a maximum operating schedule of 8,760 hours per year.

Dated_____