

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 48653

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 Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
97	Gas Turbine	VOC	67.7	239.44
		NO <sub>x</sub>	97.46	426.8
		CO	382.3	1631.20
		PM	2.0	8.50
		SO <sub>2</sub>	7.80	3.43
99	Mono Column Vent	VOC	0.04	0.20
		CO	0.04	0.18
100	Concentrator Column Vent	VOC	0.01	0.04
		CO	0.03	0.14
101	Condensate Vessel Vent	VOC	0.94	4.12
118	Diglycol Column Vent	VOC	0.02	0.08
		CO	0.13	0.58
334	Process Analyzer Vents	VOC	0.15	0.63
1028	Glycol Analyzer Vents	VOC	0.01	0.01
1042	CO <sub>2</sub> Stripper Calandria Vent	VOC	0.03	0.10
1176	Liquid Coolant Heating System	VOC	0.20	0.05
		NO <sub>x</sub>	4.90	1.23
		CO	4.10	1.03
		PM	0.37	0.09
		SO <sub>2</sub>	1.42	0.04
SD108	Large Flare Tip	VOC	23.26	0.15

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
		NO <sub>x</sub> 5.28	0.35	
		CO 45.3	2.98	
		SO <sub>2</sub> 0.83	0.02	
		HCl 7.06	0.02	
SD108A	Small Flare Tip	VOC	21.3	0.15
		NO <sub>x</sub> 1.62	0.34	
		CO 13.92	2.80	
		SO <sub>2</sub> 0.04	0.02	
		HCl 0.01	0.01	
44	Olefins Flare Tip	VOC	39.04	1.32
		NO <sub>x</sub> 5.31	0.18	
		CO 27.07	0.92	
SDT9	Tank 2300	VOC	0.01	0.01
SDT10	Tank 2301	VOC	0.01	0.01
SDT12	Tank 2310	VOC	0.15	0.01
SDT13	Tank 2311	VOC	0.01	0.01
SDT15	Tank 2320	VOC	0.01	0.01
SDT16	Tank 2321	VOC	0.01	0.01
SDT17	Tank 2322	VOC	0.01	0.01
SDT18	Tank 2323	VOC	0.01	0.01
SDT19	Tank 2330	VOC	0.01	0.01
SDT34	Tank 515	VOC	0.15	0.01
SDMG513	Liquid Coolant Emissions	VOC	0.28	0.01

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			lb/hr	TPY**
SDMG514	Liquid Coolant Surge Tank	VOC	0.96	4.20
1229	Fugitive Emissions (4)	VOC	9.59	42.00
528	Block 7 and 8 Process Sewer	VOC	0.11	0.49

(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<sub>x</sub> - total oxides of nitrogen

CO - carbon monoxide

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

PM - particulate matter, suspended in the atmosphere, including PM<sub>10</sub>.

PM<sub>10</sub> - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.

HCl - hydrogen chloride

(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 the following maximum operating schedule:

\_\_\_\_\_ Hrs/day \_\_\_\_ Days/week \_\_\_\_ Weeks/year or 8,760 Hrs/year

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

Dated May 19, 2005