

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 4773A

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**
SGFUG1C3C	Syngas Process and Propylene Refrigeration Fugitives (4), (5)	CO	3.27	14.32
		VOC	3.04	13.32
		Propylene	0.82	3.60
SGCT	Cooling Tower (4)	VOC	16.50	16.44
		Propylene	2.56	3.89
		Ethylene	1.71	1.30
		Butene	3.41	2.59
SG23-50-1	CE Boiler	VOC	1.68	7.58
		NO _x	60.80	72.96
		SO ₂	4.08	17.87
		PM ₁₀	2.07	9.05
		CO	20.32	85.99
SG23-51-1	Superheater	VOC	0.63	3.00
		NO _x	23.74	25.54
		SO ₂	1.23	5.37
		PM ₁₀	0.62	2.72
		CO	5.59	24.48
SG7-9-14	Ammonia Flare	NH ₃	0.17	0.65
		VOC	0.16	0.70
		NO _x	0.76	3.31
		SO ₂	0.01	0.66
		CO	6.04	26.43

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			lb/hr	TPY**
SG20-2-2	Acid Gas Flare	VOC	0.01	0.01
		NO _x	0.31	0.82
		SO ₂	0.01	0.03
		CO	6.91	15.23
SG20-3-2	Cold Flare (4)	NO _x	6.79	0.89
		SO ₂	0.01	0.03
		CO	313.85	24.92
		VOC	0.03	0.09
		Propylene	0.02	0.08
SG21-1-1	High-Pressure Flare (4)	NO _x	107.77	5.29
		SO ₂	0.60	0.09
		CO	3285.30	123.26
		VOC	36.76	2.78
		Propylene	10.60	0.82
		1, 3 Butadiene	11.80	0.35
		Isomers of butene	10.64	0.23
SG810-21-1	Neutralization Tank	VOC	0.01	0.04
SG810-22-1	Equalization Tank	VOC	0.11	0.49
SG810-23	Aeration Basin	VOC	7.22	31.63
SG810-28	West Basin	VOC	0.10	0.45
SG5-1-1	Wastewater Hold Tank	NH ₃	0.01	0.01
		VOC	0.01	0.01
SG5-1-14	Carbon Water Tank	NH ₃	0.01	0.01
		VOC	0.01	0.01
SG5-1-17	Gray Water Tank	NH ₃	0.01	0.01
		VOC	0.01	0.01

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			lb/hr	TPY**
SG13-25-1	Methanol Storage Tank	VOC	0.23	0.24
SG930D	Diesel Storage Tank	VOC	0.30	0.01
SG930U	Gasoline Storage Tank	VOC	7.53	0.09
PW310-50-1	Emergency Firewater Pump	VOC	1.79	0.06
		NO _x	18.60	0.60
		SO ₂	1.23	0.04
		PM ₁₀	1.32	0.04
		CO	4.01	0.13
310-50-1.2	Diesel Storage Tank	VOC	0.27	0.01
DEGREASER	Cold Solvent Degreaser	VOC	3.04	0.39

(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_x - total oxides of nitrogen

SO₂ - sulfur dioxide

PM₁₀ - particulate matter (PM) 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 in emitted.

CO - carbon monoxide

NH₃ - ammonia

(4) The allowable emission rates listed for individual VOC species from this EPN are included in the total VOC emission rates.

(5) 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:

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			<u>lb/hr</u>	<u>TPY**</u>

_____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 October 19, 2006