

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)	VOC	2.47	10.83
		CO	2.66	11.63
SGCT	Cooling Tower	VOC	2.51	11.01
SG23-50-1	CE Boiler	VOC	2.33	6.79
		NO _x	60.80	218.42
		SO ₂	0.16	0.57
		PM ₁₀	2.07	7.26
		CO	6.53	22.91
SG23-51-1	Superheater	VOC	0.45	2.20
		NO _x	23.74	82.84
		SO ₂	0.05	0.24
		PM ₁₀	0.62	3.04
		CO	6.86	33.55
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
SG20-2-2	Acid Gas Flare	VOC	0.01	0.01
		NO _x	0.31	0.82
		SO ₂	0.01	0.01
		CO	6.91	15.23

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Emission Rates*	Source	Air Contaminant	<u>Emission</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	
<u>TPY**</u>				
SG20-3-2	Cold Flare	VOC	0.01	0.01
		NO _x	6.79	0.89
		SO ₂ 0.01	0.01	
		CO	313.85	24.92
SG21-1-1	High-Pressure Flare	VOC	10.54	0.54
		NO _x	111.47	5.16
		SO ₂	0.01	0.01
		CO 2929.34	105.00	
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	
SG13-25-1	Methanol Storage Tank	VOC	0.29	0.17
SG930D	Diesel Storage Tank	VOC	0.30	0.01
SG930U	Gasoline Storage Tank	VOC	7.53	0.09

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Point No. (1)	Name (2)	Name (3)	lb/hr	
TPY**				
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) 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.

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<u>Emission</u> <u>Rates*</u>	<u>Source</u>	<u>Air Contaminant</u>	<u>Emission</u>
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>
<u>TPY**</u>			

Dated November 26, 2002