

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 38296

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**
55MN1515ST	Methanol Reformer	CO	63.54	278.32
		CO (7)	1400.68	
		NO <sub>x</sub>	283.97	1,243.79
		MeOH	14.65	28.01
		PM <sub>10</sub> 7.29	20.42	
		Propane	5.76	26.19
		Isobutane	7.59	16.31
		N-Butane	7.59	13.51
		Isopentane	1.89	4.88
		N-Pentane	0.94	3.14
		Hexane	1.13	1.67
55MN87FLR	Methanol Unit Emergency Flare (6)	CO	1.24	4.53
		NO <sub>x</sub> 0.14	0.53	
		VOC	0.09	0.28
55MT18FUG	Methanol Unit Cooling Tower MT-18	MeOH	2.27	9.93
55T43ST	Storage Tank Scrubber System T-43	MeOH	6.28	13.15
60MN108ST/ 60MN109ST or 66MN3ST/ 66MN4ST	Acrylates I Incinerators (5) or Acrylates II Incinerators	MeOH	0.02	0.01
55MSFUG	Methanol Unit Equipment Process Fugitives (4)	CO	0.30	1.30
		MeOH	0.76	3.27
		Propane	0.01	0.06
		Butane	0.01	0.05
		Ethanol	0.01	0.02

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- (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) CO - carbon monoxide  
NO<sub>x</sub> - total oxides of nitrogen  
MeOH - methanol (methyl alcohol)  
PM<sub>10</sub> - particulate matter less than or equal to 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.  
VOC - volatile organic compounds as defined in 30 Texas Administrative Code Section (TAC) §101.1
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Emissions generated by methanol tank truck/railcar loading operations are routed under vacuum to the Acrylates I Incinerators operating under Permit No. 264 or the Acrylates II Incinerators operating under Permit No. 31178. Products of MeOH combustion are included in Permit No. 264 and 31178.
- (6) Maximum allowable emissions listed for the flare are based on combustion of the fuel gas flow to the flare pilots only. Upset and maintenance-related emissions from the flare are not shown and are subject to the 30 TAC Chapter 101.
- (7) CO emissions are limited to Special Condition No. 2.

\* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

24 Hrs/day 7 Days/week 52 Weeks/year

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

Dated July 11, 2001