

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 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**
55MN87FLR	Methanol Unit Flare	CO	9.54	40.89
		NO _x 78.71	8.44	
		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 60MN3ST/ 60MN4ST	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
14BOILERST	Utility Boiler (300 MMBtu/hr)	NO _x (7)	6.00	13.14
		NO _x (6)	10.80	38.76
		CO (8)	21.00	45.99
		VOC 1.62	7.09	
		PM 2.24	9.79	
		SO ₂ 4.20	18.38	
		NH ₃ (9)	1.35	5.91

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
AUXBOIL1	Auxiliary Steam Boiler 1 (385 MMBtu/hr)	NO _x (7)	3.85	-
		CO (8)	26.5	-
		VOC 7.3	-	-
		PM 7.8	-	-
		SO ₂ 3.43	-	-
		NH ₃ (9)	1.61	-
AUXBOIL2	Auxiliary Steam Boiler 2 (385 MMBtu/hr)	NO _x (7)	3.85	-
		CO (8)	26.5	-
		VOC 7.3	-	-
		PM 7.8	-	-
		SO ₂ 3.43	-	-
		NH ₃ (9)	1.61	-
AUXBOIL3	Auxiliary Steam Boiler 3 (385 MMBtu/hr)	NO _x (7)	3.85	-
		CO (8)	26.5	-
		VOC 7.3	-	-
		PM 7.8	-	-
		SO ₂ 3.43	-	-
		NH ₃ (9)	1.61	-
AUXBOIL4	Auxiliary Steam Boiler 4 (385 MMBtu/hr)	NO _x (7)	3.85	-
		CO (8)	26.5	-
		VOC 7.3	-	-
		PM 7.8	-	-
		SO ₂ 3.43	-	-
		NH ₃ (9)	1.61	-
AUXBOIL1- AUXBOIL4	Auxiliary Steam Boilers 1 - 4	NO _x	-	67.5
		CO	-	464.3
		VOC -	6.9	-
		PM -	56.4	-
		SO ₂ -	4.5	-
		NH ₃ -	28.3	-

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
14NH3FUG	Ammonia Fugitives (4)	NH ₃	0.20	0.89
NH3FUG	SCR Ammonia Fugitives (4)	NH ₃	0.02	0.07

- (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) CO - carbon monoxide
NO_x - total oxides of nitrogen
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
MeOH - methanol (methyl alcohol)
PM₁₀ - particulate matter (PM) equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.
SO₂ - sulfur dioxide
NH₃ - ammonia
- (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 Number 264 or the Acrylates II Incinerators operating under Permit Number 31178. Products of MeOH combustion are included in Permit Numbers 264 and 31178.
- (6) Allowable NO_x emissions for the initial year of operation of the boiler. Upon completion of the first year of operation, the boiler shall be in compliance with the lower NO_x emissions. **(1/06)**
- (7) NO_x pound per hour emission rate is based upon a rolling three-hour average period. **(5/06)**
- (8) CO pound per hour emission rate is based upon a 24-hour rolling average period. **(5/06)**
- (9) NH₃ pound per hour emission rate is based upon a 24-hour rolling average period. **(5/06)**

* 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 or 8,760 Hrs/year

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

Dated May 19, 2006