

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 27935

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**
4	TG Boiler Stack Vent (6)	Formaldehyde	0.33	0.25
		Methanol	0.49	1.48
		Phenol	0.01	0.01
		VOC 0.07	0.28	
		NO _x 0.02	0.01	
		CO 1.16	4.99	
		PM ₁₀	0.01	0.01
		SO ₂	0.01	0.01
5	Cleaver Brooks Boiler Stack Vent	VOC	0.47	2.05
		NO _x 3.46	15.14	
		SO ₂ 0.03	0.13	
		PM ₁₀ 0.29	1.28	
		CO 4.39	19.24	
5-MSS	Cleaver Brooks Boiler Stack Vent (6)	Formaldehyde	0.01	0.01
		Methanol	0.05	0.03
		Phenol	0.01	0.01
		VOC 0.53	0.40	
		NO _x 3.46	2.59	
		CO 4.39	3.30	
		PM ₁₀	0.29	0.22
6	Superior Boiler	SO ₂	0.03	0.02
		VOC	0.16	0.69
		NO _x 2.86	12.52	
		SO ₂ 0.02	0.08	
		PM ₁₀ 0.22	0.95	
7	Phenol Storage Tanks Vents	CO 2.40	10.52	
		Phenol	0.04	0.01
9	Methanol Storage Tank Vent	Methanol	1.05	1.14

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11	Formaldehyde Bypass Relief Valve (6)	Formaldehyde	2.26	0.07
		Methanol	14.11	0.46
		VOC	4.52	0.15
		CO	50.81	1.65
14	Urea Silo Vent 1, Pre-Reactor B(5)	PM ₁₀	0.26	1.13
14	Urea Silo Vent 1, Post Reactor B (5)	PM ₁₀	0.10	0.45
15	Urea Silo 2	PM ₁₀	0.26	1.13
21	Resin Storage Tanks Vents	Phenol	0.01	0.01
		Formaldehyde	0.06	0.01
		Methanol	2.12	0.02
		Methylene Glycol	0.01	0.01
		Hemiformals	0.05	0.01
PM_FUG	Particulate Matter Fugitives (4)	PM ₁₀	4.56	1.20
FM_CT	Formaldehyde Cooling Tower (4)	Formaldehyde	0.16	0.44
		Methanol	0.08	0.22
RES_FUG	Resin Production Fugitives (4)	Formaldehyde	0.20	0.03
		Phenol	0.06	0.19
		Methanol	2.97	0.81
		Methylene Glycol	0.02	0.01
		Hemiformals	0.06	0.02
		TEA	0.04	0.16
		MMA	0.01	0.03
		DEA	0.01	0.06
FORM_FUG	Formaldehyde Plant Fugitives (4)	Formaldehyde	0.12	0.54
		Methanol	0.11	0.50
VAP_BAL	Formaldehyde Loading Losses	Formaldehyde	0.04	0.01
		Methanol	0.30	0.02

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		MEA Triazine	0.01	0.01
		MMA Triazine	0.30	0.01
		MEA	0.01	0.01
		MMA	0.06	0.01
22	MEA Storage Tank	MEA	0.07	0.01
23	TEA Storage Tank (Wax)	TEA	0.01	0.01
24	TEA Storage Tank (Warehouse)	TEA	0.01	0.01
25	Distillate Tank #2	Formaldehyde	0.01	0.01
		Methanol	0.09	0.03
26	Wash Water Tank (Reactor A)	Formaldehyde	0.01	0.01
		Methanol	0.05	0.01
		Phenol	0.01	0.01
27	MEA-Based Triazine Storage Tanks	Methanol	7.19	0.39
		MEA Triazine	0.01	0.01
		MEA	0.01	0.01

(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 Section 101.1

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

PM₁₀ - 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.

CO - carbon monoxide

TEA - triethanolamine

MMA - monomethylamine

DEA - diethanolamine

MEA - monoethanolamine

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(4) Emission rate is an estimate and is enforceable through compliance with the applicable Special Condition(s) and permit application representations.

(5) Emissions from EPN: 14; "Urea Silo Vent 1, Pre-Reactor B"; are only authorized until the installation of the replacement for Reactor B and the bulk solids addition system are complete. Upon completion of the

installation of Reactor B and the bulk solids addition system, emissions from EPN: 14 are covered by "Urea

Silo Vent 1, Post-Reactor B."

(6) Specific VOC species are not included in the "VOC" emission rates.

* 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 April 1, 2002