

# 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, sources, and related activities. 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	
			lbs/hour	TPY (4)
4	TG Boiler (6) (7)	VOC	0.54	0.82
		NOx	0.86	3.77
		CO	1.72	7.53
		PM	0.16	0.70
		PM <sub>10</sub>	0.16	0.70
		PM <sub>2.5</sub>	0.16	0.70
		SO <sub>2</sub>	0.01	0.05
5	Cleaver Brooks	VOC	1.27	2.49
		NOx	3.46	15.14
		SO <sub>2</sub>	0.03	0.13
		PM	0.29	1.28
		PM <sub>10</sub>	0.29	1.28
		PM <sub>2.5</sub>	0.29	1.28
		CO	4.39	19.24
6	Superior Boiler	VOC	0.16	0.69
		NO <sub>x</sub>	2.86	12.52
		PM	0.22	0.95
		PM <sub>10</sub>	0.22	0.95
		PM <sub>2.5</sub>	0.22	0.95
		CO	2.4	10.52
		SO <sub>2</sub>	0.02	0.08

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7	Phenol Storage Tank 1	VOC	0.07	0.01
9	Methanol Storage Tank	VOC	0.42	1.27
14	Urea Silo Vent 1 (Reactor A Baghouse)	PM	0.26	1.13
		PM <sub>10</sub>	0.26	1.13
		PM <sub>2.5</sub>	0.26	1.13
15	Urea Silo Vent 2 (Reactor C Baghouse)	PM	0.26	1.13
		PM <sub>10</sub>	0.26	1.13
		PM <sub>2.5</sub>	0.26	1.13
21	Resin Storage Tanks Vents	VOC	8.85	1.02
PM_FUG	Fugitive Particulate Matter (4)	PM	4.56	1.2
		PM <sub>10</sub>	4.56	1.2
		PM <sub>2.5</sub>	4.56	1.2
VAP_BAL	Formaldehyde Truck and Rail Loading	VOC	5.61	0.93
FORM_FUG	Formaldehyde Plant Fugitives (4)	VOC	0.13	0.58
FM_CT	Formaldehyde Cooling Tower Vent	VOC	0.09	0.23
		PM	1.84	4.06
		PM <sub>10</sub>	1.84	4.06
		PM <sub>2.5</sub>	1.84	4.06
RES_FUG	Fugitive Emissions from Resin Loading and Equipment Components (4)	VOC	4.63	3.44
		Phenol	0.36	1.45
		Methanol	3.83	1.39
22	MEA Storage Tank	VOC	0.07	0.01
23	TEA Storage Tank (Wax)	VOC	0.01	0.01
24	TEA Storage Tank	VOC	0.01	0.01

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	(Warehouse)			
25	Distillate Tank #2 (Green Tank)	VOC	0.10	0.04
26	Wash Water Tank (Reactor A)	VOC	0.07	0.03
27	MEA-Based Triazine Storage Tanks	VOC	6.98	0.19
LOADING	MMA and MMA Triazine Loading	VOC	0.30	0.01

- (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<sub>x</sub> - total oxides of nitrogen
- SO<sub>2</sub> - sulfur dioxide
- PM - total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>, as represented
- PM<sub>10</sub> - total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>, as represented
- PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter
- CO - carbon monoxide
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) Emissions resulting from waste stream routed to EPN-5 for control in the event that EPN-4 is not operational.
- (7) VOC emissions include routine VOC emissions resulting from combustion of fuel and from waste stream routed to boiler.

Date: May 10, 2013