

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 47091

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**
125	MEA Column Jet Vent	MEA	0.01	0.01
126	MEA Stripper Column	MEA	0.01	0.01
127	DEA Column Jet Vent	DEA	0.01	0.01
131	Ammonia Flare	NH ₃	1.43	6.28
		NOx	0.72	3.14
294	TEA Column Jet Vent	DEA	0.01	0.01
		TEA	0.01	0.01
120-1	Tank 3600	MEA	0.01	0.15
120-3	Tank 3601	MEA	0.03	0.14
120-5	Tank 3603	DEA	0.01	0.01
120-7	Tank 3605	DEA	0.01	0.01
		TEA	0.01	0.01
120-9	Tank 3607	DEA	0.01	0.01
		TEA	0.01	0.01
120-11	Tank 3609	DEA	0.01	0.01
120-2	Tank 3700	MEA	0.03	0.14
120-4	Tank 3701	MEA	0.03	0.14

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AIR CONTAMINANTS DATA

Emission *	Source	Air Contaminant	Emission Rates	
			lb/hr	TPY**
Point No. (1)	Name (2)	Name (3)		
120-6	Tank 3703	DEA	0.01	0.01
120-13	Tank 3704	DEA	0.01	0.01
		TEA 0.01	0.01	
120-8	Tank 3705	DEA	0.01	0.01
		TEA 0.01	0.01	
120-10	Tank 3707	DEA	0.01	0.01
		TEA 0.01	0.01	
210-12	Tank 3709	DEA	0.01	0.01
645	Fugitives	Ethylene oxide	0.32	1.42
		NH ₃ 0.73	3.21	
		MEA 1.18	5.16	
RCTYK	Amines Recycle Tank	MEA	0.01	0.03
		DEA	0.01	0.01
		TEA 0.01	0.01	
STARTUP/SHUTDOWN/MAINTENANCE				
131	Ammonia Flare	NH ₃	13.33	0.035
		NOx 6.7	0.0175	

(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

MEA - monoethanolamine

DEA - diethanolamine

TEA - triethanolamine
NH₃ - ammonia
NO_x - total oxides of nitrogen

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(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:

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

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

Dated February 27, 2002