Permit Number 27935

[435760] Draft!

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. (1/11)

Emission	Source	Air Contaminant	Emission	Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
4	TG Boiler	Formaldehyde	0.13	0.09
4	r G Bollei	Methanol	0.13	1.49
		Phenol	0.40	
				0.01
		Other VOC	0.07	0.28
		NO _x	0.02	0.01
		CO	1.16	4.99
		PM/PM ₁₀ /PM _{2.5}	0.01	0.01
		SO_2	0.01	0.01
5	Cleaver Brooks	VOC	0.47	2.05
•	Cloarer Brooks	NO _x	3.46	15.14
		SO _x	0.03	0.13
		PM/PM ₁₀ /PM _{2.5}	0.29	1.28
		CO	4.39	19.24
		66	4.00	13.24
		Formaldehyde (6)	0.17	0.04
		Methanol (6)	0.14	0.20
		Phenol (6)	0.01	0.01
		VOC (6) (7)	0.53	0.40
6	Superior Boiler	VOC	0.16	0.69
		NO _x	2.86	12.52
		PM/PM ₁₀ /PM _{2.5}	0.22	0.95
		CO	2.40	10.52
		SO_2	0.02	0.08

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
7	Phenol Storage Tank 1	Phenol	0.07	0.01
9	Methanol Storage Tank	Methanol	0.42	1.27
11	Formaldehyde Plant Start-Up Bypass Relief Valve (5)	Formaldehyde Methanol VOC CO	2.24 14.11 4.52 50.81	0.07 0.46 0.15 1.65
14 - Pre Rx B	Urea Silo vent 1 (Reactor A & B Baghouse) Pre-construction of Reactor E	PM/PM ₁₀ /PM _{2.5}	0.26	1.13
14 - Pre Rx B	Urea Silo vent 1 (Reactor A & B Baghouse) Post-construction of Reactor	PM/PM ₁₀ /PM _{2.5}	0.10	0.45
15	Urea Silo Vent 2 (Reactor C Baghouse)	PM/PM ₁₀ /PM _{2.5}	0.26	1.13
21	Resin Storage Tanks Vents	Phenol Formaldehyde Methanol Methyene Glycol Hemiformals	0.50 0.37 7.50 0.04 0.42	0.04 0.09 0.79 0.01 0.07
PM_FUG	Fugitive Particular matter	PM/PM ₁₀ /PM _{2.5}	4.56	1.20
VAP_BAL	Formaldehyde Truck and Rail Loading	Formaldehyde Methanol MEA triazine MMA Triazine MEA Monomethylamine	0.08 4.70 0.01 0.49 0.01 0.32	0.02 0.56 0.01 0.02 0.01 0.31
22	MEA Storage Tank	MEA	0.07	0.01

Emission	Source	Air Contaminant		Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**	
00	TEA Characa Taril (M/a)	TC A	0.01	0.01	
23	TEA Storage Tank (Wax)	TEA	0.01	0.01	
RES_FUG	Fugitive Emissions from Resi	n Formaldehyde	0.15	0.21	
_ 11	•	ing and Equipment Components Phe		0.36	
		Methanol	3.72	1.38	
		MEA Triazine	0.01	0.01	
		Methylene Glycol	0.01	0.01	
		Hemiformals	0.20	0.11	
		TEA	0.04	0.16	
		MMA	0.01	0.03	
		DEA	0.01	0.06	
FORM FUG	Formaldehyde Plant Fugitives	s Formaldehyde I	0.12	0.54	
_	, ,	Methanol	0.11	0.50	
FM_CT	Formaldehyde Cooling Towe	r Vent Formaldehyde	0.01	0.01	
		Methanol	0.08	0.22	
		PM/PM ₁₀ /PM _{2.5}	1.84	4.06	
24	TEA Storage Tank (Warehou	se) TEA	0.01	0.01	
25	Distillate Tank #2 (Green Tar	nk) Formaldehyde	0.01	0.01	
	Distincts Faint #2 (Groot) Fai	Methanol	0.09	0.03	
26	Wash Water Tank (Reactor A	A) Formaldehyde	0.01	0.01	
20	Tradit Talin (Traditor 7	Methanol	0.05	0.01	
		Phenol	0.01	0.01	
27	MEA-Based Triazine Storage	Tanks Methanol	6.96	0.17	
21	WEA Based Mazine Storage	MEA Triazine	0.01	0.01	
		MEA MEA	0.01	0.01	
LOADING	MMA and MMA Triazine	VOC	0.30	0.01	

Em	ission	Source	Air Contaminant	Emission Rates *
	nt No. (1)	Name (2)	Name (3)	lb/hr TPY**
	. ,	Loading	.,	
(1)	Emission from a plo	•	specific equipment designation o	r emission point number
` '	Specific p	oint source names. For fugit	ive sources, use an area name or as defined in Title 30 Texas Adn	<u> </u>
		total oxides of nitrogen sulfur oxides		
	PM -	particulate matter, suspende particulate matter equal to or	d in the atmosphere, including PM r less than 10 microns in diameter. particulate matter greater than 10 n	. Where PM is not listed,
		carbon monoxide Monoethanolamine	g	
		Triethanolamine Monomethanolamine		
(4)		Diethanolamine missions are an estimate on	ly and should not be considered a	as a maximum allowable
` ,	emission			
. ,	Emissions	-	n routed to EPN-5 for control in the	event that EPN-4 or the
(7)	VOC emis		missions resulting from combustic	on of fuel and from waste
*	Emission schedule:	rates are based on and the	facilities are limited by the follow	ving maximum operating
	Hrs/c	dayDays/weekW	eeks/year or <u>8,760</u> Hrs/year	
**	Complian	ce with annual emission limits	s is based on a rolling 12-month pe	eriod.
				Dated