Permit Number 3836

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.

Emission	Source	Air Contaminant	Emission	Emission Rates *		
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**		
Storage Tank Area						
T-202	Tank	NaOH	3.18	0.08		
T-207	Tank	VOC	0.71	0.02		
T-401	Tank	VOC	0.01	0.01		
T-403	Tank	VOC	0.01	0.01		
T-404	Tank	VOC	0.03	0.01		
T-405	Tank	VOC	0.11	0.01		
T-416	Tank	VOC	0.16	0.01		
T-418	Tank	VOC	0.09	0.01		
T-603	Tank	VOC	0.87	0.07		
T-604	Tank	VOC	3.97	0.05		
Z-703	Scrubber	HCI VOC	0.03 0.13	0.01 0.01		
Z-709	Scrubber	VOC	0.13	0.01		
Z-711	Scrubber	H₂S VOC	0.01 0.03	0.01 0.01		

Emission	Source	Air Contaminant	Emission	Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
STOR-FUG	Fugitives (4) Tank Farm Area	VOC	1.50	6.56
Plant Utilities Area				
B-601	Utility Boiler (6)	CO NO_x PM_{10} SO_2 VOC	3.05 2.22 0.28 0.05 0.20	8.34 6.10 0.75 0.15 0.55
B-602	Utility Boiler (6)	CO NO_x PM_{10} SO_2 VOC	3.05 2.22 0.28 0.05 0.20	8.34 6.10 0.75 0.15 0.55
H-601	Heater	CO NO_x PM_{10} SO_2 VOC	0.66 0.48 0.06 0.01 0.04	2.89 2.10 0.26 0.05 0.19
G-601	Standby Generator (5)	CO NO_x PM_{10} SO_2 VOC	3.84 17.83 1.27 1.18 1.45	0.10 0.46 0.03 0.03 0.04
FWP	Fire Water Pumps (5)	CO NO_x PM_{10} SO_2 VOC	6.51 30.23 2.15 2.00 2.45	0.54 2.52 0.18 0.17 0.21
V-605	Tank	VOC	0.01	0.01

Emission	Source	Air Contaminant	Emission Rates *						
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**					
FUG-XP	Fugitives (4) XP-200 Process Area	VOC	0.03	0.12					
UTIL-FUG	Fugitives (4) Utilities Area	VOC	0.11	0.50					
Plant 3 - Intermediates Chemical Processing									
T-350	Tank	VOC	0.01	0.01					
V-311	Tank	VOC	2.37	0.01					
PL3-FUG	Fugitives (4) Plant 3 Area	VOC	0.24	1.03					
Z-715	Oxide Scrubber	EO PO	0.50 0.60	0.09 0.11					
Plant 2 - Amine Con	densation Polymerization A	Area							
T-253	Tank	VOC	0.07	0.01					
V-023	Reactor Vent	VOC	3.27	0.01					
V-024	Tank	VOC	1.16	0.01					
V-025	Tank	VOC	1.16	0.01					
V-206V	Process/Emergency Vent	VOC	0.03	0.01					
Z-104	Caustic Scrubber	VOC	0.32	0.01					
Z-705	Tank T-250 Scrubber	VOC	0.06	0.01					
Z-707	V-022 Scrubber	NH₃ VOC	0.02 0.03	0.01 0.01					

Emission	Source	Air Contaminant <u>Emission R</u>			Rates *			
Point No. (1)	Name (2)		Name (3)	lb/hr	TPY**			
Z-708	Scrubber		NH ₃	0.02	0.01			
7 710	Tank T 252 Cambbon		VOC	0.26	0.01			
Z-712	Tank T-252 Scrubber		VOC HCI	0.01 0.01	0.01 0.01			
Z-713	Methyl Chloride Scrubber		CH₃CI	2.65	0.14			
Z-714	Vapor Combustor	PM ₁₀	CO NO _x VOC SO ₂ HCI H ₂ S 0.05	6.01 3.14 19.76 0.01 0.01 0.01 0.23	3.19 2.17 2.61 0.05 0.01 0.01			
PL2-FUG	Fugitives (4) Plant 2 Area		VOC	0.49	2.16			
CS2-FUG	Fugitives (4) Carbon Disulfide Drumm	ing	CS ₂	0.01	0.01			
Plant 5 - Blending and Drumming								
F-501	Filter Press		VOC	0.22	0.95			
F-502	Filter Press		VOC	0.22	0.95			
F-503	Sparkler Filter		VOC	0.01	0.01			
PL5-FUG	Fugitives (4) Plant 5 Area		VOC	0.27	1.18			
Loading	Loading (7)		VOC	12.82	1.05			

- (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 area name or fugitive source name.
- (3) NaOH sodium hydroxide
 - VOC volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 - HCI hydrogen chloride
 - H₂S hydrogen sulfide
 - CO carbon monoxide
 - NO_x total oxides of nitrogen
 - PM_{10} particulate matter (PM) 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.
 - SO₂ sulfur dioxide
 - NH₃ ammonia
 - CH₃Cl methyl chloride
 - CS₂ carbon disulfide
 - EO ethylene oxide
 - PO propylene oxide
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Operated for emergency use and required maintenance only.
- (6) Total combined annual emissions from Emission Point Nos. B-601 and B-602 shall not exceed 8.34 tons per year (tpy) CO and 0.56 tpy VOC.
- (7) The loading emission rates will consist of emissions from drum loading, ipak loading, truck loading, and railcar loading.

*	Emission rate schedule:	es are	based	on an	d the	facilities	are	limited	by	the	following	maximum	operating
	Hrs/day	Days/	week _	V	/eeks	s/year		or Hrs/	yea	r	8,760		

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

Dated May 10, 2004