Permit No. 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.

AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	<u>Emissior</u>	n Rates
<u>*</u> <u>Point No. (1)</u>	Name (2)	Name (3)	lb/hr	TPY
Storage Tank Ar	ea			
T-202	Tank	NaOH	<0.01	<0.01
T-207	Tank	VOC	<0.01	<0.01
T-401	Tank	VOC	0.02	<0.01
T-403	Tank	VOC	<0.01	<0.01
T-404	Tank	VOC	0.17	<0.01
T-405	Tank	VOC	0.16	<0.01
T-416	Tank	VOC	0.94	0.06
T-418	Tank	VOC	0.09	<0.01
T-420	Tank	VOC	<0.01	<0.01
T-603	Tank	VOC	1.53	0.08
T-604	Tank	VOC	12.61	0.08
Z-703	Scrubber	HC1 VOC	0.02 <0.01	<0.01 <0.01
Z-709	Scrubber	VOC	0.12	<0.01

AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	<u>Emission</u>	Rates
<u>*</u> <u>Point No. (1)</u>	Name (2)	Name (3)		TPY
Z-711	Scrubber	H₂S VOC	<0.01 0.03	<0.01 <0.01
STOR-FUG	Tank Farm Fugitives	(4) VOC	1.75	7.64
Plant Utilities	Area			
B-601	Utility Boiler (6)	CO NO_{x} PM SO_{2} VOC	1.30 5.93 0.51 0.53 0.10	5.68 25.98 2.23 2.32 0.45
B-602	Utility Boiler (6)	CO NO_{x} PM SO_{2} VOC	1.30 5.93 0.51 0.53 0.10	5.68 25.98 2.23 2.32 0.45
H-601	Heater	CO NO_x PM SO_2 VOC	0.12 0.59 0.07 0.08 0.02	0.54 2.59 0.31 0.37 0.10
T-700	API Separator	VOC Acetone	1.08 0.22	2.36 0.10
G-601	Standby Generator (5) CO NO _x PM SO ₂ VOC	7.10 11.70 0.40 0.86 1.20	0.09 0.15 <0.01 0.01 0.02

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES AIR CONTAMINANTS DATA

Emission *	Source	Air Contaminant	<u>Emissi</u>	on Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
FWP	Fire Water Pumps (5)	CO NO _x PM SO ₂ VOC	38.50 63.40 2.20 4.60 6.30	0.50 0.83 0.03 0.06 0.08
V-605	Tank	VOC	<0.01	<0.01
FUG-XP	XP-200 Process Fugit 0.25	rives (4)	VOC	0.06
UTIL-FUG	Process Fugitives (4	·) VOC	0.12	0.50
Plant 3 - Interm	ediates Chemical Proc	essing		
DP-3	Drum Loading	VOC	1.17	3.21
T-350	Tank	VOC	<0.01	<0.01
V-311	Tank	VOC	4.12	0.01
V-312	Tank	CH ₂ O	2.24	<0.01
V-301V USE ONLY	Emergency Vent	VOC	E	EMERGENCY
PL3-FUG	Process Fugitives (4	VOC	1.71	7.49
Plant 2 - Amine	Condensation Polymeri	zation Area		
DP1, DP2	Drum Loading	VOC	1.17	3.21
T-253	Tank	VOC	0.07	<0.01
T-263	Tank	VOC	<0.01	<0.01

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	<u>Emission</u>	Rates
<u>*</u> <u>Point No. (1)</u>	Name (2)	Name (3)	lb/hr	TPY
V-023	Reactor Vent	VOC	0.01	<0.01
V-024	Tank	VOC	0.87	<0.01
V-025	Tank	VOC	0.87	<0.01
V-206V	Process/Emergency Ve	ent VOC	<0.01	<0.01
Z-104	Caustic Scrubber	H₂S VOC	<0.01 0.16	<0.01 <0.01
Z-705	Tank T-250 Scrubber	VOC	0.06	<0.01
Z-707	V-022 Scrubber	NH₃ VOC	0.24 <0.01	<0.01 <0.01
Z-708	Scrubber	NH₃ VOC	0.37 0.22	0.03 <0.01
Z-712	Tank T-252 Scrubber	VOC HC1	<0.01 <0.01	<0.01 <0.01
Z-713	Methyl Chloride Scrubber	CH₃C1	2.65	0.14
Z-714	Flare	CO NO_{x} VOC SO_{2} HCT $H_{2}S$	25.29 2.95 26.11 22.63 34.2 0.21	10.92 1.27 3.90 12.50 2.11 0.12
PL2-FUG	Plant 2 Fugitives (4	4) H₂S VOC	0.03 2.66	0.13 11.62

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES AIR CONTAMINANTS DATA

Emission *	Source	Air Contaminant		<u>Emission Rates</u>		
Point No. (1)	Name (2)	Name (3)	1b/hr	TPY		
CS2-FUG	CS2 Drum Fugitives	(4) CS ₂	0.02	<0.01		
Plant 5 - Blendi	ng and Drumming					
F-501	Filter Press	VOC	0.53	0.48		
F-502	Filter Press	VOC	0.53	0.48		
F-503	Sparkler Filter	VOC	<0.01	<0.01		
Z-501/502	Drum Loading	VOC	4.69	12.80		
TP-805	Truck Loading	VOC	4.26	3.59		
WTRR-CAR	Truck Loading	VOC	4.26	0.11		
R-SPOT4	Railcar Loading	VOC	4.26	0.18		
R-SPOT5	Railcar Loading	VOC	4.26	0.34		
TP-804	Truck Loading Fugitives	VOC	0.38	0.32		
TP-811	Truck Loading Fugitives	VOC	0.38	0.03		
TP-812	Truck Loading Fugitives	VOC	0.38	0.12		
TP-813	Truck Loading Fugitives	VOC	0.38	0.12		
TP-816	Truck Loading Fugitives	VOC	0.38	0.61		

AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	<u>Emission</u>	Rates
<u>*</u> Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
OILCARF	Railcar Loading Fugitives	VOC	0.38	0.01
R-SPOT3	Railcar Loading Fugitives	VOC	0.38	0.03
R-SPOT6	Railcar Loading Fugitives	VOC	0.38	0.02
PL5-FUG	Plant 5 Fugitives	(4) VOC	1.08	4.74
DF-1	Reactor Combustor	CO NO_{x} PM SO_{2} VOC	0.09 0.41 0.05 0.06 0.02	0.37 1.78 0.21 0.25 0.07
DF-2	Reactor Combustor	CO NO_{x} PM SO_{2} VOC	0.09 0.41 0.05 0.06 0.02	0.37 1.78 0.21 0.25 0.07

⁽¹⁾ Emission point identification - either specific equipment designation or emission point number from plot plan.

HCl - hydrogen chloride H₂S - hydrogen sulfide CO - carbon monoxide

⁽²⁾ Specific point source name. For fugitive sources use area name or fugitive source name.

⁽³⁾ NaOH - sodium hydroxide VOC - volatile organic compounds as defined in 30 Texas Administrative Code Section 101.1

AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	<u>Emission</u>	Rates
<u>*</u>				
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY

 NO_x - total oxides of nitrogen

PM - particulate matter, suspended in the atmosphere, including PM_{10} - 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.

SO₂ - sulfur dioxide

NH₃ - ammonia

CH₂O - formaldehyde

CH₃Cl - methyl chloride

CS₂ - carbon disulfide

- (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 2.90 tons per year (TPY) SO_2 , 32.47 TPY NO_x , 2.78 TPY PM, 7.10 TPY CO, and 0.56 TPY VOC.

*	Emission ra following m	tes are bas aximum opera			facilities	are	limited	by	the
	Hrs/day		Da	ys/week			Wee	eks/	year
or	Hrs/year	8,760		<i></i>				, .	
								Da	ated _