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.

Emission	Source	Air Contaminant	<u>Emission</u>	Rates
<u>*</u> Point No. (1)	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
Z-711	Scrubber	H₂S VOC	<0.01 0.03	<0.01 <0.01

Emission	Source	Air Contaminant	<u>Emission</u>	Rates
<u>*</u> <u>Point No. (1)</u>	Name (2)	Name (3)	lb/hr	TPY
		-		
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
FWP	Fire Water Pumps (5)	O 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

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	<u>Emissio</u>	n Rates
<u>*</u> Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
V-605	Tank	VOC	<0.01	<0.01
FUG-XP	XP-200 Process Fugir 0.25	tives (4)	VOC	0.06
UTIL-FUG	Process Fugitives (4) VOC	0.12	0.50
Plant 3 - Intern	nediates Chemical Pro	cessing		
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	El	MERGENCY
PL3-FUG	Process Fugitives (4	4) VOC	1.71	7.49
Plant 2 - Amine	Condensation Polymer	ization 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
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

Permit No. 3836 Page 4

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Emission *	Source	Air Contaminant	<u>Emissio</u>	n Rates
Point No. (1)	Name (2)	Name (3)	1b/hr	TPY
V-206V	Process/Emergency Ver	nt 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

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES AIR CONTAMINANTS DATA

Emission *	Source	Air Contaminant	<u>Emission</u>	Rates
Point No. (1)	Name (2)	Name (3)	<u>lb/hr</u>	TPY
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_2S	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	F) H₂S VOC	0.03 2.66	0.13 11.62
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

Emission *	Source	Air Contaminant	<u>Emissio</u>	n Rates
Point No. (1)	Name (2)	Name (3)	<u>lb/hr</u>	TPY
WTRR-CAR	Truck Loading	VOC	4.26	0.11

AIR CONTAMINANTS DATA

Emission Air Contaminant Source Emission Rates 1b/hr Point No. (1) Name (2) Name (3) TPY R-SPOT4 Railcar Loading VOC 4.26 0.18 R-SPOT5 Railcar Loading VOC 4.26 0.34 TP-804 Truck Loading VOC 0.38 0.32 **Fugitives** TP-811 Truck Loading VOC 0.38 0.03 **Fugitives** TP-812 Truck Loading VOC 0.38 0.12 **Fugitives** Truck Loading TP-813 VOC 0.38 0.12 **Fugitives** Truck Loading VOC 0.38 0.61 TP-816 Fugitives OILCARF Railcar Loading VOC 0.38 0.01 Fugitives 0.38 R-SPOT3 Railcar Loading V0C 0.03 **Fugitives** V0C 0.38 0.02 R-SPOT6 Railcar Loading **Fugitives** PL5-FUG Plant 5 Fugitives (4) VOC 1.08 4.74 DF-1 Reactor Combustor CO 0.09 0.37 NO_x 0.41 1.78 РМ 0.05 0.21 0.25 SO₂ 0.06 0.07 V0C 0.02

Permit No. 3836 Page 8

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

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

Emission	Source	Air Contaminant	Emission	Rates
<u>*</u> Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
DF-2	Reactor Combustor	CO NO _×	0.09 0.41	0.37 1.78
		PM	0.05	0.21
		SO ₂	0.06	0.25
		VOC	0.02	0.07

- (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) NaOH sodium hydroxide
 - VOC volatile organic compounds as defined in General Rule 101.1
 - HCl hydrogen chloride
 - H₂S hydrogen sulfide
 - CO carbon monoxide
 - NO_x total oxides of nitrogen
 - PM particulate matter, suspended in the atmosphere, including PM₁₀
 - 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 formaldehvde
 - 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 rates are based on and the facilities are limited by the following maximum operating schedule:

Emission *	Source	Air Contaminant	<u>Emission Rates</u>
Point No. (1)	Name (2)	Name (3)	lb/hr TPY
Hrs/day or Hrs/year	8,760	Days/week	Weeks/year
		Da	ted