EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

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.

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY**
Storage Tank Area				
T-202	Tank	NaOH	0.05	0.01
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-418	Tank	VOC	0.09	0.01
T-603	Tank	VOC	0.87	0.23
T-604	Tank	VOC	3.97	0.06
Z-703	Scrubber	HCl	0.07	0.01
		VOC	0.13	0.01
Z-709	Scrubber	VOC	0.13	0.01
Z-711	Scrubber	H_2S	0.01	0.01
		VOC	0.03	0.01
STOR-FUG	Fugitives (4) Tank Farm Area	VOC	1.50	6.56

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY**
Plant Utilities Area				
B-601	Utility Boiler (6)	CO	0.04	0.12
		NO_x	1.04	2.84
		PM_{10}	0.28	0.75
		SO_2	0.05	0.15
		VOC	0.20	0.55
B-602	Utility Boiler (6)	CO	0.01	0.01
		NO_x	1.00	2.73
		PM_{10}	0.28	0.75
		SO_2	0.05	0.15
		VOC	0.20	0.55
H-601	Heater	CO	0.01	0.01
		NO_x	0.46	2.00
		PM_{10}	0.06	0.26
		SO_2	0.01	0.05
		VOC	0.04	0.19
G-601	Standby Generator (5)	CO	3.84	0.10
		NO_x	17.83	0.46
		PM_{10}	1.27	0.03
		SO_2	1.18	0.03
		VOC	1.45	0.04
FWP	Fire Water Pumps (5)	CO	6.51	0.54
		NO_x	30.23	2.52
		PM_{10}	2.15	0.18
		SO_2	2.00	0.17
		VOC	2.45	0.21
V-605	Tank	VOC	0.01	0.01
FUG-XP	Fugitives (4) XP-200 Process Area	VOC	0.03	0.12

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY**
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	0.50	0.09
		PO	0.60	0.11
Plant 2 - Amine Condensation Polymerization 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-704	Caustic Scrubber	VOC	0.32	0.01
Z-705	Tank T-250 Scrubber	VOC	0.06	0.01
Z-707	V-022 Scrubber	NH_3	0.02	0.01
		VOC	0.02	0.01
Z-708	Scrubber	NH_3	0.02	0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY**
		VOC	0.26	0.01
Z-712	Tank T-252 Scrubber	VOC	0.01	0.01
		HCl	0.01	0.01
Z-713	Methyl Chloride Scrubber	CH_3Cl	2.65	0.14
Z-714	Vapor Combustor	CO	6.16	3.27
		NO_x	3.48	3.38
		VOC	20.31	2.89
		SO_2	0.01	0.02
		HCl	0.01	0.01
		H_2S	0.01	0.01
		PM_{10} 0.05	0.23	
PL2-FUG	Fugitives (4) Plant 2 Area	VOC	0.49	2.16
CS2-FUG	Fugitives (4) Carbon Disulfide Drumming	CS_2	0.01	0.01
Plant 5 - Blending and Drumming				
F-501	Filter Press	VOC	0.53	0.95
F-502	Filter Press	VOC	0.53	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

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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
HCl - hydrogen chloride
H_2S - 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.
SO_2 - sulfur dioxide
NH_3 - ammonia
CH_3Cl - methyl chloride
CS_2 - 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 rates are based on and the facilities are limited by the following maximum operating schedule:

Hrs/day ____ Days/week _____ Weeks/year _____ or Hrs/year 8,760

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

NOTE: The combined emissions of all sources of hazardous air pollutants (HAPS) at this site is limited to less than 10 tpy of any single HAP and less than 25 tpy of any combination of aggregate HAPS. Records will be maintained on-site to confirm that this condition is being met on a rolling

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12-month basis.

Dated July 26, 2005