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, sources, and related activities. 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.	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
(1)			lbs/hour	TPY (4)
Storage Tank Area				
T-202	Tank T-202	NaOH	0.05	0.01
T-207	Tank T-207	VOC	0.71	0.02
T-401	Tank T-401	VOC	0.01	0.01
T-403	Tank T-403	VOC	0.01	0.01
T-404	Tank T-403	VOC	0.08	0.01
T-405	Tank T-403	VOC	0.11	0.01
T-418	Tank T-418	VOC	0.09	0.01
T-603	Tank T-603	VOC	0.87	0.23
T-604	Tank T-604	VOC	3.97	0.06
Z-703	Tanks T-121, T-122,	HCI	0.02	0.01
	T-123, and T-124 Scrubber	VOC	0.32	0.06
Z709	Tanks T-117, T-118, T-119, and T-120 Scrubber	VOC	0.13	0.01
	Tank T-214	H₂S	0.01	0.01
	Scrubber	VOC	0.03	0.01
STOR-FUG	Tank Farm Area Fugitives (5)	voc	2.00	8.76
V-605	Tank V-605	voc	0.01	0.01
T-350	Tank T-350	VOC	0.01	0.01
T-253	Tank T-253	VOC	0.07	0.01
Z-704	Tank T-262 Scrubber	VOC	0.06	0.01
Z-705	Tank T-250	VOC	0.32	0.06

	Scrubber			
Z-707	Tank V-022	NH ₃	0.02	0.01
	Scrubber	VOC	0.02	0.01
Plant Utilities A	Area			
B-601	Utility Boiler	СО	1.09	4.77
		NO _x	0.39	1.72
		PM ₁₀	0.28	1.21
		SO ₂	0.05	0.24
		VOC	0.20	0.87
B-602	Utility Boiler	СО	1.09	4.77
		NOx	0.39	1.72
		PM ₁₀	0.28	1.21
		SO ₂	0.05	0.24
		VOC	0.20	0.87
H-602	Hot Oil Heater	СО	0.59	2.58
		NOx	0.21	0.93
		PM ₁₀	0.15	0.65
		SO ₂	0.03	0.13
		VOC	0.11	0.47
G-601	Emergency	СО	3.84	0.10
	Generator (6)	NOx	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	СО	6.51	0.54
	(6)	NO _x	30.23	2.52
		PM ₁₀	2.15	0.18
		SO ₂	2.00	0.17
		VOC	2.45	0.21

UTIL-FUG	Utilities Area Fugitives (5)	voc	0.11	0.50
Plant 2 – Amine	Condensation Polymeriza	ation Area	·	
	T		1	
V-023	Reactor Vent	VOC	3.27	0.01
Z-708	Scrubber for Tanks T-251, T-257	VOC	0.26	0.01
	(Tropylene), T-258,	NH ₃	0.02	0.01
	and T-259	H ₂ S	0.03	0.01
Z-712	Tank T-252	HCI	0.01	0.01
	Scrubber	VOC	0.06	0.01
Z-713	Methyl Chloride Scrubber	CH₃CI	2.65	0.14
PL2-FUG	Plant 2 Area Fugitives (5)	voc	0.49	2.16
CS2-FUG	Carbon Disulfide Handling Fugitives (5)	CS ₂	0.01	0.01
Plant 3 – Interm	nediates Chemical Process	ing		
PL3-FUG	Plant 3 Area Fugitives (5)	VOC	0.31	1.35
Z-715	Oxide Scrubber	EO	0.25	0.14
		РО	0.95	0.17
Plant 5 – Blend	ing and Drumming	1		
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	Plant 5 Area Fugitives (5)	voc	0.27	1.18
General	1	•	1	'
Loading	Loading (7)	VOC	5.57	2.04
3	Localing (1)			

CT-601	Utility Cooling Tower	PM ₁₀	0.17	0.73
Z-714	Flare	СО	8.11	3.58
		NO _x	4.46	3.53
		VOC	25.86	3.64
		SO ₂	0.53	2.31
		PM ₁₀	0.05	0.23
		HCI	1.16	0.26
Maintenance, Start-u	ıp, and Shutdown Acti	vities (8)		
Z-714	Flare Combustion	со	0.12	0.01
	(48 hrs/yr)	NO _x	0.06	0.01
		VOC	0.41	0.01
Z-714 Tanks - MSS	Flare (48 hrs/yr) Tanks MSS Emissions	VOC	0.42	0.01
Scrubber Tanks - MSS	Tank De-heeled Emissions (3 hrs/yr for one tank)	VOC	0.23	0.01
Uncontrolled Tanks - MSS	Uncontrolled Tanks (3 hrs/yr for one tank)	VOC	2.96	0.01
Tanks degassing emis	ssions controlled by scr	ubbers (2 hrs/yr for one scrubb	per):	1
Z-703	Tank Scrubber	VOC	0.10	0.01
Z-704	Tank Scrubber	VOC	0.01	0.01
Z-705	Tank Scrubber	VOC	0.01	0.01
Z-707	Tank Scrubber	VOC	0.01	0.01
Z-708	Tank Scrubber	VOC	0.18	0.01
Z-709	Tank Scrubber	VOC	0.09	0.01
Z-711	Tank Scrubber	VOC	0.03	0.01
Z-712	Tank Scrubber	VOC	0.01	0.01
Z-717	Tank Scrubber	VOC	0.01	0.01
Fugitive emissions (20	hrs/yr for each area):			•
PL2-FUG	Fugitives (5)	VOC	0.01	0.01

PL3-FUG	Fugitives (5)	VOC	0.01	0.01
PL5-FUG	Fugitives (5)	VOC	0.01	0.01
STOR-FUG	Fugitives (5)	VOC	0.01	0.01
UTIL-FUG	Fugitives (5)	VOC	0.01	0.01
FUG-XP	Fugitives (5)	VOC	0.01	0.01
CS2-FUG	Fugitives (5)	voc	0.01	0.01

- (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 Title 30 Texas Administrative Code § 101.1

HCl - hydrogen chlorideH₂S - hydrogen sulfide

IOC-U - inorganic compounds (unspeciated)

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as

represented

CO - carbon monoxide

NH3 - ammonia
CH3Cl - methyl chloride
EO - ethylene oxide
PO - propylene oxide

- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) Operated for emergency use and required maintenance only.
- (7) The loading emission rates will consist of emissions from drum loading, ipak loading, truck loading, and railcar loading.
- (8) The maintenance, startup, and shutdown activities shall comply with the requirements specified in the Special Condition Nos. 35 and 36 of this permit.

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 12-month basis.

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Date:	December 10, 2014	1