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. (1)	Source Name (2)	Air Contaminant Name	Emission Rates	
		(3)	lbs/hour	TPY (4)
Storage Tank Area				1
T-202	Tank T-202	NaOH	0.05	0.01
T-207	Tank T-207	VOC	0.71	0.03
T-401	Tank T-401	VOC	0.01	0.01
T-403	Tank T-403	VOC	0.01	0.01
T-404	Tank T-404	VOC	0.08	0.01
T-405	Tank T-405	VOC	0.11	0.01
T-418	Tank T-418	VOC	0.09	0.01
T-603	Tank T-603	VOC	1.18	0.07
T-604	Tank T-604	VOC	3.97	0.06
	Scrubber for Tanks T- 121, T-122, T-123, and T-124	HCI	0.02	0.01
		VOC	0.32	0.06
Z-709	Scrubber for Tanks T- 117, T-118, T-119, and T-120	VOC	0.13	0.01
Z-711	Scrubber for Tank T-214	H ₂ S	0.01	0.01
		VOC	0.03	0.01
STOR-FUG	Fugitives Tank Farm Area (5)	VOC	1.36	5.93
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	Scrubber for Tank T-262	VOC	0.32	0.01
Z-705	Scrubber for Tank T-250	VOC	0.06	0.01
Z-707	Scrubber for Tank V-	NH ₃	0.02	0.01
	2022	VOC	0.38	0.01
Plant Utilities A	rea	<u> </u>		
B-601	Utility Boiler	со	0.04	0.16
		NOx	0.33	1.46
		PM	0.28	1.21
		PM ₁₀	0.28	1.21
		PM _{2.5}	0.28	1.21
		SO ₂	0.05	0.24
		voc	0.20	0.87
B-602	Utility Boiler	со	0.04	0.16
		NOx	0.33	1.46
		PM	0.28	1.21
		PM ₁₀	0.28	1.21
		PM _{2.5}	0.28	1.21
		SO ₂	0.05	0.24
		VOC	0.20	0.87
H-602	Hot Oil Heater	СО	0.37	1.62
		NO _x	0.22	0.95
		PM	0.15	0.65
		PM ₁₀	0.15	0.65
		PM _{2.5}	0.15	0.65
		SO ₂	0.03	0.13

		VOC	0.11	0.47
G-601	Emergency Generator	СО	3.84	0.10
	(6)	NO _x	17.83	0.46
		PM	1.27	0.03
		PM ₁₀	1.27	0.03
		PM _{2.5}	1.27	0.03
		SO ₂	1.18	0.03
		VOC	1.45	0.04
FWP-1	Fire Water Pump-1 (6)	СО	2.17	0.18
		NO _x	10.08	0.84
		РМ	0.72	0.06
		PM ₁₀	0.72	0.06
		PM _{2.5}	0.72	0.06
		SO ₂	0.67	0.06
		VOC	0.82	0.07
FWP-2	Fire Water Pump-2 (6)	СО	2.17	0.18
		NO _x	10.08	0.84
		РМ	0.72	0.06
		PM ₁₀	0.72	0.06
		PM _{2.5}	0.72	0.06
		SO ₂	0.67	0.06
		VOC	0.82	0.07
FWP-3	Fire Water Pump-3 (6)	СО	2.17	0.18
		NO _x	10.08	0.84
		PM	0.72	0.06

1	ı		1	1
		PM ₁₀	0.72	0.06
		PM _{2.5}	0.72	0.06
		SO2	0.67	0.06
		VOC	0.82	0.07
UTIL-FUG	Utilities Area Fugitives (5)	VOC	0.11	0.50
Plant 2- Amine Conder	nsation Polymerization Are	a		
V-203	Reactor Vent	VOC	3.27	0.03
Z-708	Scrubber for Tanks T-	VOC	0.98	0.02
	251, T-257 (Tropylene), T-258, and T-259	NH ₃	0.02	0.01
		H ₂ S	0.03	0.01
Z-712	Scrubber for Tank T-252	HCI	0.02	0.02
		VOC	0.01	0.01
Z-713	Methyl Chloride Scrubber	CH₃Cl	5.30	0.16
PL2-FUG	Plant 2 Area Fugitives (5)	VOC	0.48	2.08
CS2-FUG	Carbon Disulfide Handling Fugitives (5)	CS ₂	0.01	0.01
Plant 3 - Intermediates	Chemical Processing			
PL3-FUG	Plant 3 Area Fugitives (5)	VOC	0.60	2.62
Z-715	Oxide Scrubber	EO	0.25	0.14
		PO	0.95	0.17
Plant 5 - Blending and	Drumming			
F-501	Filter Press 501	VOC	0.53	0.95
PL5-FUG	Plant 5 Area Fugitives (5)	VOC	0.19	0.83
General Area				

Loading	Loading (7)	VOC	5.57	2.04
CT-601	Utility Cooling Tower	PM	0.17	0.73
		PM ₁₀	0.17	0.73
		PM _{2.5}	0.17	0.73
Z-714	Vapor Combustor	СО	8.27	3.49
		NOx	6.07	3.50
		VOC	27.38	4.01
		H ₂ S	0.01	0.02
		SO ₂	2.33	2.35
		PM	0.10	0.23
		PM ₁₀	0.10	0.23
		PM _{2.5}	0.10	0.23
		HCI	1.16	0.26
Maintenance, Start up,	and Shutdown Activities ((8)		L
Z-714	Vapor Combustor- Combustion (48 hrs/yr)	СО	0.12	0.01
		NO _X	0.06	0.01
		VOC	0.41	0.01
	Vapor Combustor (48			
Z-714 Tanks -MSS	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
	and Shutdown Activities (gitive emissions for each	(2 hrs/yr for each scrubber d area) (5)	luring tank degassing	emissions
Z-703	Tank Scrubber	VOC	0.10	0.01
Z-704	Tank Scrubber	voc	0.01	0.01

Tank Scrubber	voc	0.01	0.01
Tank Scrubber	voc	0.01	0.01
Tank Scrubber	voc	0.18	0.01
Tank Scrubber	voc	0.09	0.01
Tank Scrubber	VOC	0.03	0.01
Tank Scrubber	VOC	0.01	0.01
Tank Scrubber	voc	0.01	0.01
Plant 2 Area Fugitives (5)	VOC	0.01	0.01
Plant 3 Area Fugitives (5)	VOC	0.01	0.01
Plant 5 Area Fugitives (5)	voc	0.01	0.01
Fugitives Tank Farm Area (5)	voc	0.01	0.01
Utilities Area Fugitives (5)	VOC	0.01	0.01
Carbon Disulfide Handling Fugitives (5)	VOC	0.01	0.01
	Tank Scrubber Plant 2 Area Fugitives (5) Plant 3 Area Fugitives (5) Plant 5 Area Fugitives (5) Fugitives Tank Farm Area (5) Utilities Area Fugitives (5) Carbon Disulfide	Tank Scrubber VOC Plant 2 Area Fugitives (5) Plant 3 Area Fugitives (5) Plant 5 Area Fugitives (5) Fugitives Tank Farm Area (5) Utilities Area Fugitives (5) Carbon Disulfide VOC	Tank Scrubber VOC 0.01 Tank Scrubber VOC 0.18 Tank Scrubber VOC 0.09 Tank Scrubber VOC 0.03 Tank Scrubber VOC 0.01 Tank Scrubber VOC 0.01 Plant 2 Area Fugitives (5) VOC 0.01 Plant 3 Area Fugitives (5) VOC 0.01 Plant 5 Area Fugitives (5) VOC 0.01 Fugitives Tank Farm Area (5) VOC 0.01 Utilities Area Fugitives (5) VOC 0.01 Carbon Disulfide VOC 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

NH₃ - ammonia

CO - carbon monoxide NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as

represented

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

represented

PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter

FO - ethylene oxide PO - propylene oxide CH₃Cl - methyl chloride

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Emission Sources - Maximum Allowable Emission Rates

CS₂ - carbon disulfide

- (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. 33 and 34 of this permit.

Date: March 31, 2015	Date:	March 31, 2015
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