ATTACHMENT A-1

Permit No. 41618

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

SHORT-TERM EMISSIONS

This table lists the maximum allowable short-term 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 short-term 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		Air Contaminant	Emission Rates *
Point No. (1)	Name (2)	Name (3)	Pounds per Hour
A TANK FARM			
STA 3.5-1	Fixed Roof Storage Tank A-3.5-1	VOC	54.00
STA 3.5-2	Fixed Roof Storage Tank A-3.5-2	VOC	54.00
STA 3.5-3	Fixed Roof Storage Tank A-3.5-3	VOC	54.00
STA 3.5-4	Fixed Roof Storage Tank A-3.5-4	VOC	54.00
STA 3.5-5	Internal Floating Roof Storage Tank A-3.5	5-5 VOC	0.91
STA 3.5-6	Fixed Roof Storage Tank A-3.5-6	VOC	54.00
STA 3.5-7	Fixed Roof Storage Tank A-3.5-7	VOC	54.00
STA 3.5-8	Fixed Roof Storage Tank A-3.5-8	VOC	54.00
STA 6-3	Fixed Roof Storage Tank A-6-3	VOC	54.00
STA 6-4	Fixed Roof Storage Tank A-6-4	VOC	54.00
STA 6-5	Fixed Roof Storage Tank A-6-5	VOC	54.00
STA 7.5-5	Fixed Roof Storage Tank A-7.5-5	VOC	54.00
STA 7.5-6	Fixed Roof Storage Tank A-7.5-6	VOC	54.00

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES SHORT-TERM EMISSIONS

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * Pounds per Hour
STA 7.5-7	Fixed Roof Storage Tank A-7.5-7	VOC	54.00
STA 7.5-8	Fixed Roof Storage Tank A-7.5-8	VOC	54.00
STA 7.5-9	Fixed Roof Storage Tank A-7.5-9	VOC	54.00
STA 7.5-10	Internal Floating Roof Storage Tank A-7	.5-10 VOC	0.98
STA 7.5-11	Fixed Roof Storage Tank A-7.5-11	VOC	54.00
STA 7.5-12	Fixed Roof Storage Tank A-7.5-12	VOC	54.00
STA 12-5	Fixed Roof Storage Tank A-12-5	VOC	54.00
STA 12-6	Internal Floating Roof Storage Tank A-1	2-6 VOC	1.29
STA 12-7	Fixed Roof Storage Tank A-12-7	VOC	54.00
STA 12-8	Fixed Roof Storage Tank A-12-8	VOC	54.00
STA 12-9	Fixed Roof Storage Tank A-12-9	VOC	54.00
STA 12-10	Fixed Roof Storage Tank A-12-10	VOC	54.00
STA 12-11	Fixed Roof Storage Tank A-12-11	VOC	54.00
STA 12-12	Internal Floating Roof Storage Tank A-1	2-12 VOC	1.29
STA 12-13	Fixed Roof Storage Tank A-12-13	VOC	54.00
STA 15-1	Fixed Roof Storage Tank A-15-1	VOC	54.00
STA 15-2	Fixed Roof Storage Tank A-15-2	VOC	54.00
STA 15-3	Fixed Roof Storage Tank A-15-3	VOC	54.00

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES SHORT-TERM EMISSIONS

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * Pounds per Hour
STA 15-4	Fixed Roof Storage Tank A-15-4	VOC	54.00
STA 15-5	Fixed Roof Storage Tank A-15-5	VOC	54.00
STA 15-6	Fixed Roof Storage Tank A-15-6	VOC	54.00
STA 15-7	Fixed Roof Storage Tank A-15-7	VOC	54.00
STA 15-8	Fixed Roof Storage Tank A-15-8	VOC	54.00
STA 15-9	Internal Floating Roof Storage Tank A-1	5-9 VOC	1.30
STA 15-10	Internal Floating Roof Storage Tank A-1	5-10 VOC	1.30
STA 15-11	Fixed Roof Storage Tank A-15-11	VOC	54.00
STA 15-12	Fixed Roof Storage Tank A-15-12	VOC	54.00
STA 15-13	Fixed Roof Storage Tank A-15-13	VOC	54.00
STA 15-14	Internal Floating Roof Storage Tank A-1	5-14 VOC	1.30
STA 15-15	Fixed Roof Storage Tank A-15-15	VOC	54.00
STA 15-16	Fixed Roof Storage Tank A-15-16	VOC	54.00
STA 20-1	Fixed Roof Storage Tank A-20-1	VOC	54.00

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES SHORT-TERM EMISSIONS

Emission Point No. (1)	Source Name (2)		ntaminant Name (3)		sion Rates * ds per Hour
B TANK FARM					
STB 25-1	Internal Floating Roof Storage Tank B-2	5-1 \	VOC		1.62
STB 30-1	Fixed Roof Storage Tank B-30-1	`	VOC		54.00
STB 30-2	Fixed Roof Storage Tank B-30-2	`	VOC		54.00
STB 30-4	Fixed Roof Storage Tank B-30-4	`	VOC		54.00
STB 30-5	Fixed Roof Storage Tank B-30-5	`	VOC		54.00
STB 30-6	Internal Floating Roof Storage Tank B-3	0-6	VOC		2.91
STB 30-7	Fixed Roof Storage Tank B-30-7	`	VOC		54.00
STB 30-8	Fixed Roof Storage Tank B-30-8	`	VOC		54.00
D TANK FARM					
STD 7-1	Low Pressure Storage Tank D-7-1	ſ	Neopentyl (Slycol	0.94
STD 7-2	Low Pressure Storage Tank D-7-2	I	Decane		2.33
STD 7-3	Low Pressure Storage Tank D-7-3	I	Decane		2.33
STD 7.5-13	Low Pressure Storage Tank D-7.5-13	,	VOC		5.97
STD 7.5-14	Low Pressure Storage Tank D-7.5-14	`	VOC		5.97
STD 7.5-15	Low Pressure Storage Tank D-7.5-15	`	VOC		5.97
STD 10-1	Low Pressure Storage Tank D-10-1	•	VOC		6.00

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES SHORT-TERM EMISSIONS

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * Pounds per Hour
STD 10-2	Low Pressure Storage Tank D-10-2	VOC	6.00
STD 10-3	Low Pressure Storage Tank D-10-3	VOC	6.00
STD 15-17	Low Pressure Storage Tank D-15-17	VOC	5.82
STD 15-18	Low Pressure Storage Tank D-15-18	VOC	5.82
STD 15-19	Low Pressure Storage Tank D-15-19	VOC	5.82
STD 15-20	Low Pressure Storage Tank D-15-20	VOC	5.82
STD 15-21	Low Pressure Storage Tank D-15-21	VOC	5.82
STD 15-22	Low Pressure Storage Tank D-15-22	VOC	5.82
STD 15-23	Low Pressure Storage Tank D-15-23	VOC	5.82
STD 15-24	Low Pressure Storage Tank D-15-24	VOC	5.82
STD 15-25	Low Pressure Storage Tank D-15-25 (5)	Lube Oil	<0.01
STD 15-26	Low Pressure Storage Tank D-15-26 (5)	Lube Oil	<0.01
STD 15-27	Low Pressure Storage Tank D-15-27 (5)	Lube Oil	<0.01
STD 15-28	Low Pressure Storage Tank D-15-28 (5)	Lube Oil	<0.01
STD 20-2	Low Pressure Storage Tank D-20-2	VOC	5.72
STD 20-3	Low Pressure Storage Tank D-20-3	VOC	5.72
STD 30-9	Low Pressure Storage Tank D-30-9	VOC	5.54
STD 30-10	Low Pressure Storage Tank D-30-10	VOC	5.54

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES SHORT-TERM EMISSIONS

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * Pounds per Hour	
E TANK FARM				
STE 12-14	Fixed Roof Storage Tank E-12-14	VOC	54.00	
STE 12-15	Fixed Roof Storage Tank E-12-15	VOC	54.00	
STE 12-16	Fixed Roof Storage Tank E-12-16	VOC	54.00	
STE 12-17	Fixed Roof Storage Tank E-12-17	VOC	54.00	
STE 12-18	Fixed Roof Storage Tank E-12-18	VOC	54.00	
STE 12-19	Fixed Roof Storage Tank E-12-19	VOC	54.00	
STE 12-20	Fixed Roof Storage Tank E-12-20	VOC	54.00	
STE 12-21	Fixed Roof Storage Tank E-12-21	VOC	54.00	
STE 12-22	Fixed Roof Storage Tank E-12-22	VOC	54.00	
STE 12-23	Fixed Roof Storage Tank E-12-23 (5)	Cyclohexan	ol 0.06	
STE 12-24	Fixed Roof Storage Tank E-12-24 (5)	Cyclohexan	ol 0.06	
STE 12-25	Fixed Roof Storage Tank E-12-25 (5)	Cyclohexan	ol 0.06	
STE 12-26	Fixed Roof Storage Tank E-12-26 (5)	Cyclohexan	ol 0.06	
F TANK FARM				
STF 6-1	Fixed Roof Storage Tank F-6-1	VOC	54.00	
STF 6-2	Fixed Roof Storage Tank F-6-2	VOC	54.00	

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES SHORT-TERM EMISSIONS

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * Pounds per Hour
STF 7.5-1	Fixed Roof Storage Tank F-7.5-1	VOC	54.00
STF 7.5-2	Fixed Roof Storage Tank F-7.5-2	VOC	54.00
STF 7.5-3	Fixed Roof Storage Tank F-7.5-3	VOC	54.00
STF 7.5-4	Fixed Roof Storage Tank F-7.5-4	VOC	54.00
STF 12-1	Fixed Roof Storage Tank F-12-1	VOC	54.00
STF 12-2	Fixed Roof Storage Tank F-12-2	VOC	54.00
STF 12-3	Fixed Roof Storage Tank F-12-3	VOC	54.00
STF 12-4	Fixed Roof Storage Tank F-12-4	VOC	54.00
P TANK FARM			
STP 15-29	Internal Floating Roof Storage Tank P-15-	-29 VOC	1.30
STP 15-30	Internal Floating Roof Storage Tank P-15-	-30 VOC	1.30
STP 15-31	Internal Floating Roof Storage Tank P-15-	-31 VOC	1.30
STP 15-32	Internal Floating Roof Storage Tank P-15-	-32 VOC	1.30
STP 15-33	Low Pressure Storage Tank P-15-33	VOC	5.82
STP 15-34	Low Pressure Storage Tank P-15-34	VOC	5.82
STP 15-35	Low Pressure Storage Tank P-15-35	VOC	5.82
STP 40-1	Internal Floating Roof Storage Tank P-40-	-1 (5) MTBE	0.14

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES SHORT-TERM EMISSIONS

Emission Point No. (1)	Source Name (2)		taminant ame (3)	Emission Rates * Pounds per Hour
			ethanol	0.01
		,	yclohexan	
			thanol	<0.01
		Butyl Acr	rylate	0.31
STP 40-2	Internal Floating Roof Storage Tank P-4	0-2 (5) M ⁻	TBE	0.14
		Μ	ethanol	0.01
		Cy	yclohexan	e 0.01
		Et	thanol	<0.01
STP 40-3	Fixed Roof Storage Tank P-40-3 (5)	Lu	ube Oil	0.05
STP 50-1	Internal Floating Roof Storage Tank P-5	0-1 V	ОС	0.97
STP 50-2	Internal Floating Roof Storage Tank P-5	D-2 V(ос	0.97
STP 50-3	Internal Floating Roof Storage Tank P-5		OC lethylene C	0.97 Chloride1.06
STP 50-4	Internal Floating Roof Storage Tank P-5	0-4 V(ос	0.97
STP 50-5	Internal Floating Roof Storage Tank P-5	0-5 V	ОС	0.76

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES SHORT-TERM EMISSIONS

Emission Point No. (1)	Source Name (2)	Air Contaminant <u>Emission F</u> <u>Name (3) Pounds pe</u>				
RAIL CAR, TANK TRUCK, AND ISO CONTAINER LOADING/CLEANING FACILITIES						
R1	Rail Car Loading/Unloading Rack 1	VOC	17.97			
R2	Rail Car Loading/Unloading Rack 2	VOC	17.97			
R3	Rail Car Loading/Unloading Rack 3 (5)	VOC	0.61			
R4	Rail Car Cleaning/Loading/Unloading Ra	ack 4 (5)	VOC 0.41			
T3	Tank Truck Loading/Unloading Rack 3	VOC	17.97			
T4	Tank Truck Loading/Unloading Rack 4	VOC	17.97			
T5	Tank Truck Loading/Unloading Rack 5	Tallow	0.01			
T6	Tank Truck Loading/Unloading Rack 6	VOC	17.97			
Т7	Tank Truck and ISO Container Cleaning Loading/Unloading Rack 7 (5)	/ VOC	0.11			
EPICHLOROHYDRIN CAUSTIC SCRUBBER SYSTEMS						
S-1	Epichlorohydrin Scrubber for A Tank Fa	rm Epichlorohy	drin 1.79			
S-2	Tank P50-2 Caustic Scrubber (6)	Epichlorohy	drin 0.01			

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES SHORT-TERM EMISSIONS

Emission Point No. (1)	Source Name (2)	Air C	Contaminant Name (3)		
TERMINAL FLAR	ES				
TVFL	Tank Farm Vent Flare (T-6, R-2, and "D" Tank Farm)		VOC NO _x CO	1.01 3.85 33.01	
FL-1	McGill Truck Loading Flare (T-3 and T-4)				
MLFR	Marine Loading Flare (Ship Dock 2/3 and Barge Dock C)				
FL-4	Rail Car, Tank Truck, and ISO Containe Cleaning/Transmodal Loading Flare (5) (R-4 and T-7)	VOC NO _x CO	0.95 2.75 5.50		
TERMINAL BOILE	R				
S-1	Boiler S-1 (29 MM Btu/Hour)	NOx CO PM SO ₂		0.16	
EQUIPMENT LEA	K FUGITIVE EMISSIONS				
FU	Piping Fugitive Emissions (4)		VOC	3.95	

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

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES SHORT-TERM EMISSIONS

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

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

NO_X - total oxides of nitrogen

SO₂ - sulfur dioxide

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.

CO - carbon monoxide SO₂ - sulfur dioxide

MTBE - methyl-tertiary-butyl ether

- (4) Fugitive emissions are an estimate only and are not considered as a maximum allowable emission rate.
- (5) Source originally authorized by an Exemption from Permitting or a Permit By Rule. Additional compounds authorized for storage, loading, or cleaning are shown on Attachments C and D as applicable, and on Attachment B when referenced.
- (6) Source originally authorized by Standard Permit.

ł.	Emission rates schedule:	are based	on and	the facilities	are	limited	by the	following	maximum	operating
	Hrs/day	Days/week	\	Weeks/year_		or Hrs/	year <u>8,</u>	760_		

Dated November 9, 2000