

## ATTACHMENT A-1

Permit Number 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.

#### AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> <u>Pounds per Hour</u>
<b>A TANK FARM</b>			
STA 3.5-1	Storage Tank A-3.5-1	VOC	191.37
STA 3.5-2	Storage Tank A-3.5-2	VOC	191.37
STA 3.5-3	Storage Tank A-3.5-3	VOC	191.37
STA 3.5-4	Storage Tank A-3.5-4	VOC	191.37
STA 3.5-5	Storage Tank A-3.5-5	VOC	191.37
STA 3.5-6	Storage Tank A-3.5-6	VOC	191.37
STA 3.5-7	Storage Tank A-3.5-7	VOC	191.37
STA 3.5-8	Storage Tank A-3.5-8	VOC	191.37
STA 6-3	Storage Tank A-6-3	VOC	191.37
STA 6-4	Storage Tank A-6-4	VOC	191.37
STA 6-5	Storage Tank A-6-5	VOC	191.37
STA 7.5-5	Storage Tank A-7.5-5	VOC	191.37
STA 7.5-6	Storage Tank A-7.5-6	VOC	191.37

Attachment A-1

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

SHORT-TERM EMISSIONS

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> Pounds per Hour
STA 7.5-7	Storage Tank A-7.5-7	VOC	191.37
STA 7.5-8	Storage Tank A-7.5-8	VOC	191.37
STA 7.5-9	Storage Tank A-7.5-9	VOC	191.37
STA 7.5-10	Storage Tank A-7.5-10	VOC	191.37
STA 7.5-11	Storage Tank A-7.5-11	VOC	191.37
STA 7.5-12	Storage Tank A-7.5-12	VOC	191.37
STA 12-5	Storage Tank A-12-5	VOC	191.37
STA 12-6	Storage Tank A-12-6	VOC	191.37
STA 12-7	Storage Tank A-12-7	VOC	191.37
STA 12-8	Storage Tank A-12-8	VOC	191.37
STA 12-9	Storage Tank A-12-9	VOC	191.37
STA 12-10	Storage Tank A-12-10	VOC	191.37
STA 12-11	Storage Tank A-12-11	VOC	191.37
STA 12-12	Storage Tank A-12-12	VOC	191.37
STA 12-13	Storage Tank A-12-13	VOC	191.37
STA 15-1	Storage Tank A-15-1	VOC	191.37
STA 15-2	Storage Tank A-15-2	VOC	191.37

Attachment A-1

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

SHORT-TERM EMISSIONS

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> Pounds per Hour
STA 15-3	Storage Tank A-15-3	VOC	191.37
STA 15-4	Storage Tank A-15-4	VOC	191.37
STA 15-5	Storage Tank A-15-5	VOC	191.37
STA 15-6	Storage Tank A-15-6	VOC	191.37
STA 15-7	Storage Tank A-15-7	VOC	191.37
STA 15-8	Storage Tank A-15-8	VOC	191.37
STA 15-9	Storage Tank A-15-9	VOC	191.37
STA 15-10	Storage Tank A-15-10	VOC	191.37
STA 15-11	Storage Tank A-15-11	VOC	191.37
STA 15-12	Storage Tank A-15-12	VOC	191.37
STA 15-13	Storage Tank A-15-13	VOC	191.37
STA 15-14	Storage Tank A-15-14	VOC	191.37
STA 15-15	Storage Tank A-15-15	VOC	191.37
STA 15-16	Storage Tank A-15-16	VOC	191.37
STA 20-1	Storage Tank A-20-1	VOC	191.37

**B TANK FARM**

STB 25-1	Storage Tank B-25-1	VOC	191.37
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## Attachment A-1

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

## SHORT-TERM EMISSIONS

## AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> Pounds per Hour
STB 30-1	Storage Tank B-30-1	VOC	191.37
STB 30-2	Storage Tank B-30-2	VOC	191.37
STB 30-3	Storage Tank B-30-3	VOC	191.37
STB 30-4	Storage Tank B-30-4	VOC	191.37
STB 30-5	Storage Tank B-30-5	VOC	191.37
STB 30-6	Storage Tank B-30-6	VOC	191.37
STB 30-7	Storage Tank B-30-7	VOC	191.37
STB 30-8	Storage Tank B-30-8	VOC	191.37
STB 30-11	Storage Tank B-30-11	VOC	191.37
STB 30-12	Storage Tank B-30-12	VOC	191.37

**D TANK FARM**

STD 7-1	Low-Pressure Storage Tank D-7-1	SS VOC	191.37
STD 7-2	Low-Pressure Storage Tank D-7-2	SS VOC	191.37
STD 7-3	Low-Pressure Storage Tank D-7-3	SS VOC	191.37
STD 7.5-13	Low-Pressure Storage Tank D-7.5-13	VOC	191.37
STD 7.5-14	Low-Pressure Storage Tank D-7.5-14	VOC	191.37
STD 7.5-15	Low-Pressure Storage Tank D-7.5-15	VOC	191.37

Attachment A-1

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

SHORT-TERM EMISSIONS

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> Pounds per Hour
STD 10-1	Low-Pressure Storage Tank D-10-1	VOC	191.37
STD 10-2	Low-Pressure Storage Tank D-10-2	VOC	191.37
STD 10-3	Low-Pressure Storage Tank D-10-3	VOC	191.37
STD 15-17	Low-Pressure Storage Tank D-15-17	VOC	191.37
STD 15-18	Low-Pressure Storage Tank D-15-18	VOC	191.37
STD 15-19	Low-Pressure Storage Tank D-15-19	VOC	191.37
STD 15-20	Low-Pressure Storage Tank D-15-20	VOC	191.37
STD 15-21	Low-Pressure Storage Tank D-15-21	VOC	191.37
STD 15-22	Low-Pressure Storage Tank D-15-22	VOC	191.37
STD 15-23	Low-Pressure Storage Tank D-15-23	VOC	191.37
STD 15-24	Low-Pressure Storage Tank D-15-24	VOC	191.37
STD 15-25	Low-Pressure Storage Tank D-15-25SS	VOC	191.37
STD 15-26	Low-Pressure Storage Tank D-15-26SS	VOC	191.37
STD 15-27	Low-Pressure Storage Tank D-15-27SS	VOC	191.37
STD 15-28	Low-Pressure Storage Tank D-15-28SS	VOC	191.37
STD 20-2	Low-Pressure Storage Tank D-20-2	VOC	191.37
STD 20-3	Low-Pressure Storage Tank D-20-3	VOC	191.37

Attachment A-1

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

SHORT-TERM EMISSIONS

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> Pounds per Hour
STD 30-9	Low-Pressure Storage Tank D-30-9	VOC	191.37
STD 30-10	Low-Pressure Storage Tank D-30-10	VOC	191.37
<b>E TANK FARM</b>			
STE 12-14	Storage Tank E-12-14	VOC	191.37
STE 12-15	Storage Tank E-12-15	VOC	191.37
STE 12-16	Storage Tank E-12-16	VOC	191.37
STE 12-17	Storage Tank E-12-17	VOC	191.37
STE 12-18	Storage Tank E-12-18	VOC	191.37
STE 12-19	Storage Tank E-12-19SS	VOC	191.37
STE 12-20	Storage Tank E-12-20SS	VOC	191.37
STE 12-21	Storage Tank E-12-21SS	VOC	191.37
STE 12-22	Storage Tank E-12-22SS	VOC	191.37
STE 12-23	Storage Tank E-12-23	VOC	191.37
STE 12-24	Storage Tank E-12-24	VOC	191.37
STE 12-25	Storage Tank E-12-25	VOC	191.37
STE 12-26	Storage Tank E-12-26	VOC	191.37

**F TANK FARM**

## Attachment A-1

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

## SHORT-TERM EMISSIONS

## AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> Pounds per Hour
STF 6-1	Storage Tank F-6-1	VOC (Animal Fats)	2.44
STF 6-2	Storage Tank F-6-2	VOC (Animal Fats)	2.44
STF 7.5-1	Storage Tank F-7.5-1	VOC (Animal Fats)	2.44
STF 7.5-2	Storage Tank F-7.5-2	VOC (Animal Fats)	2.44
STF 7.5-3	Storage Tank F-7.5-3	VOC (Animal Fats)	2.44
STF 7.5-4	Storage Tank F-7.5-4	VOC (Animal Fats)	2.44
STF 12-1	Storage Tank F-12-1	VOC (Animal Fats)	2.44
STF 12-2	Storage Tank F-12-2	VOC (Animal Fats)	2.44
STF 12-3	Storage Tank F-12-3	VOC (Animal Fats)	2.44
STF 12-4	Storage Tank F-12-4	VOC (Animal Fats)	2.44

**P TANK FARM**

STP 15-29	Storage Tank P-15-29	VOC	191.37
STP 15-30	Storage Tank P-15-30	VOC	191.37
STP 15-31	Storage Tank P-15-31	VOC	191.37
STP 15-32	Storage Tank P-15-32	VOC	191.37
STP 15-33	Low-Pressure Storage Tank P-15-33	VOC	191.37
STP 15-34	Low-Pressure Storage Tank P-15-34	VOC	191.37

Attachment A-1

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

SHORT-TERM EMISSIONS

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> Pounds per Hour
STP 15-35		Low-Pressure Storage Tank P-15-35	VOC 191.37
STP 15-36	Storage Tank P-15-36	VOC	191.37
STP 15-37	Storage Tank P-15-37	VOC	191.37
STP 15-38	Storage Tank P-15-38	VOC	191.37
STP 15-39	Storage Tank P-15-39	VOC	191.37
STP 15-40	Storage Tank P-15-40	VOC	191.37
STP 15-41	Storage Tank P-15-41	VOC	191.37
STP 15-42	Storage Tank P-15-42	VOC	191.37
STP 25-2	Storage Tank P-25-2	VOC	191.37
STP 25-3	Storage Tank P-25-3	VOC	191.37
STP 40-1	Storage Tank P-40-1	VOC	191.37
STP 40-2	Storage Tank P-40-2	VOC	191.37
STP 40-3	Storage Tank P-40-3	VOC	191.37
STP 50-1	Storage Tank P-50-1	VOC	191.37
STP 50-2	Storage Tank P-50-2	VOC	191.37
STP 50-3	Storage Tank P-50-3	VOC	191.37



Attachment A-1

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

SHORT-TERM EMISSIONS

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * Pounds per Hour
STP 50-4	Storage Tank P-50-4	VOC	191.37
STP 50-5	Storage Tank P-50-5	VOC	191.37
STP 50-6	Low-Pressure Storage Tank P-50-6	VOC	191.37

**Q TANK FARM**

STQ 30-13	Storage Tank Q-30-13	VOC	191.37
STQ 30-14	Storage Tank Q-30-14	VOC	191.37
STQ 30-15	Storage Tank Q-30-15	VOC	191.37
STQ 30-16	Storage Tank Q-30-16	VOC	191.37
STQ 30-17	Storage Tank Q-30-17	VOC	191.37
STQ 30-18	Storage Tank Q-30-18	VOC	191.37
STQ 30-19	Storage Tank Q-30-19	VOC	191.37
STQ 30-20	Storage Tank Q-30-20	VOC	191.37
STQ 40-4	Storage Tank Q-40-4	VOC	191.37
STQ 50-7	Storage Tank Q-50-7	VOC	191.37
STQ 50-8	Storage Tank Q-50-8	VOC	191.37

**S TANK FARM**

Attachment A-1

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

SHORT-TERM EMISSIONS

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> Pounds per Hour
STS 100-1	Internal Floating Roof Storage Tank S-100-1	MeOH	1.58
STS 100-2	Internal Floating Roof Storage Tank S-100-2	MeOH	1.58
STS 100-3	Internal Floating Roof Storage Tank S-100-3	MeOH	1.58
STS 100-4	Internal Floating Roof Storage Tank S-100-4	MeOH	1.58

**V TANK FARM (HORIZONTAL DECK STORAGE TANKS)**

STV 2-1	Horizontal Deck Storage Tank V-2-1SS	VOC	191.37
STV 2-2	Horizontal Deck Storage Tank V-2-2SS	VOC	191.37
STV 2-3	Horizontal Deck Storage Tank V-2-3SS	VOC	191.37
STV 2-4	Horizontal Deck Storage Tank V-2-4SS	VOC	191.37

**AE TANK FARM (BIODIESEL FACILITY SUPPORT TANK FARM)**

STAE 3.5-9	Storage Tank AE-3.5-9	Fatty Acid/Soap/Gums	0.42
STAE 7.5-16	Storage Tank AE-7.5-16	MeOH (VOC)	0.22
STAE 7.5-17	Storage Tank AE-7.5-17	Glycerine (VOC)	0.13
STAE 12-27	Storage Tank AE-12-27	Animal Fat/Oils/Grease	2.44
STAE 12-28	Storage Tank AE-12-28	Animal Fat/Oils/Grease	2.44
STAE 12-29	Storage Tank AE-12-29	Animal Fat/Oils/Grease	2.44
STAE 12-30	Storage Tank AE-12-30	Animal Fat/Oils/Grease	2.44

Attachment A-1

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

SHORT-TERM EMISSIONS

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> Pounds per Hour
STAE 20-4	Storage Tank AE-20-4	Grease (VOC)	2.44
STAE 20-5	Storage Tank AE-20-5	Refined Vegetable Oils	0.49
STAE 20-6	Storage Tank AE-20-6	Refined Vegetable Oils	0.49
STAE 50-9	Storage Tank AE-50-9	Biodiesel (VOC)	1.70
STAE 50-10	Storage Tank AE-50-10	Biodiesel (VOC)	1.70
<b>CE TANK FARM</b>			
STCE 12-31	Storage Tank CE-12-31	VOC	191.37
STCE 12-32	Storage Tank CE-12-32	VOC	191.37
STCE 12-33	Storage Tank CE-12-33	VOC	191.37
STCE 12-34	Storage Tank CE-12-34	VOC	191.37
STCE 12-35	Storage Tank CE-12-35	VOC	191.37
STCE 12-36	Storage Tank CE-12-36	VOC	191.37
STCE 15-43	Storage Tank CE-15-43	VOC	191.37
STCE 15-44	Storage Tank CE-15-44	VOC	191.37
STCE 15-45	Storage Tank CE-15-45	VOC	191.37
STCE 15-46	Storage Tank CE-15-46	VOC	191.37
STCE 15-47	Storage Tank CE-15-47	VOC	191.37
STCE 15-48	Storage Tank CE-15-48	VOC	191.37

Attachment A-1

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

SHORT-TERM EMISSIONS

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> Pounds per Hour
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**DE TANK FARM**

STDE 30-21	Storage Tank DE-30-21	VOC	191.37
STDE 30-22	Storage Tank DE-30-22	VOC	191.37
STDE 30-23	Storage Tank DE-30-23	VOC	191.37
STDE 30-24	Storage Tank DE-30-24	VOC	191.37
STDE 30-25	Storage Tank DE-30-25	VOC	191.37
STDE 30-26	Storage Tank DE-30-26	VOC	191.37
STDE 30-27	Storage Tank DE-30-27	VOC	191.37
STDE 30-28	Storage Tank DE-30-28	VOC	191.37

**EE TANK FARM**

STEE 15-49	Storage Tank EE-15-49	VOC	191.37
STEE 15-50	Storage Tank EE-15-50	VOC	191.37
STEE 15-51	Storage Tank EE-15-51	VOC	191.37
STEE 15-52	Storage Tank EE-15-52	VOC	191.37
STEE 15-53	Storage Tank EE-15-53	VOC	191.37
STEE 15-54	Storage Tank EE-15-54	VOC	191.37

Attachment A-1

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

SHORT-TERM EMISSIONS

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> Pounds per Hour
STEE 15-55	Storage Tank EE-15-55	VOC	191.37
STEE 15-56	Storage Tank EE-15-56	VOC	191.37
STEE 15-57	Storage Tank EE-15-57	VOC	191.37
STEE 30-29	Storage Tank EE-30-29	VOC	191.37
STEE 30-30	Storage Tank EE-30-30	VOC	191.37
STEE 30-31	Storage Tank EE-30-31	VOC	191.37
STEE 30-32	Storage Tank EE-30-32	VOC	191.37

**FE TANK FARM**

STFE 15-58	Storage Tank FE-15-58	VOC	191.37
STFE 15-59	Storage Tank FE-15-59	VOC	191.37
STFE 15-60	Storage Tank FE-15-60	VOC	191.37
STFE 15-61	Storage Tank FE-15-61	VOC	191.37
STFE 15-62	Storage Tank FE-15-62	VOC	191.37
STFE 15-63	Storage Tank FE-15-63	VOC	191.37
STFE 30-33	Storage Tank FE-30-33	VOC	191.37
STFE 30-34	Storage Tank FE-30-34	VOC	191.37
STFE 30-35	Storage Tank FE-30-35	VOC	191.37

Attachment A-1

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

SHORT-TERM EMISSIONS

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> Pounds per Hour
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**GE TANK FARM**

STGE 7.5-18 Storage Tank GE-7.5-18 VOC 191.37

STGE 12-37 Storage Tank GE-12-37 VOC 191.37

STGE 12-38 Storage Tank GE-12-38 VOC 191.37

STGE 12-39 Storage Tank GE-12-39 VOC 191.37

STGE 12-40 Storage Tank GE-12-40 VOC 191.37

STGE 12-41 Storage Tank GE-12-41 VOC 191.37

STGE 12-42 Storage Tank GE-12-42 VOC 191.37

STGE 12-43 Storage Tank GE-12-43 VOC 191.37

STGE 12-44 Storage Tank GE-12-44 VOC 191.37

STGE 12-45 Storage Tank GE-12-45 VOC 191.37

STGE 12-46 Storage Tank GE-12-46 VOC 191.37

STGE 12-47 Storage Tank GE-12-47 VOC 191.37

STGE 15-64 Storage Tank GE-15-64 VOC 191.37

STGE 15-65 Storage Tank GE-15-65 VOC 191.37

STGE 15-66 Storage Tank GE-15-66 VOC 191.37

## Attachment A-1

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

## SHORT-TERM EMISSIONS

## AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * Pounds per Hour
STGE 15-67	Storage Tank GE-15-67	VOC	191.37
STGE 15-68	Storage Tank GE-15-68	VOC	191.37
STGE 15-69	Storage Tank GE-15-69	VOC	191.37
STGE 15-70	Storage Tank GE-15-70	VOC	191.37
STGE 15-71	Storage Tank GE-15-71	VOC	191.37
STGE 15-72	Storage Tank GE-15-72	VOC	191.37
STGE 15-73	Storage Tank GE-15-73	VOC	191.37
STGE 15-74	Storage Tank GE-15-74	VOC	191.37
STGE 15-75	Storage Tank GE-15-75	VOC	191.37

**RAILCAR, TANK TRUCK / ISO CONTAINER, AND MARINE LOADING FACILITIES**

RACK R-1 Railcar Loading/Unloading Rack R-1 VOC 26.06 (per spot)  
(26 Railcar Transfer Spots)

RACK R-2 Railcar Loading/Unloading Rack R-2 VOC 26.06 (per spot)  
(22 Railcar Transfer Spots)

RACK R-3 Railcar Loading/Unloading Rack R-3 VOC 26.06 (per spot)  
(18 Railcar Transfer Spots)

RACK R-5 Railcar Loading/Unloading Rack R-5 VOC 26.06 (per spot)  
(16 Railcar Transfer Spots)

RACK R-6 Railcar Loading/Unloading Rack R-6 VOC 26.06 (per spot)  
(24 Railcar Transfer Spots)

Attachment A-1

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

SHORT-TERM EMISSIONS

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * Pounds per Hour
RACK R-7	Railcar Loading/Unloading Rack R-7 (24 Railcar Transfer Spots)	VOC	26.06 (per spot)
RACK R-8	Railcar Loading/Unloading/Direct Transfer Rack R-8 (12 Railcar Transfer Spots)	VOC	26.06 (per spot)
RACK T-3	Tank Truck Loading/Unloading Rack T-3 (4 Tank Truck Bays)	VOC	26.06 (per spot)
RACK T-4	Tank Truck Loading/Unloading Rack T-4 (3 Tank Truck Bays)	VOC	26.06 (per spot)
RACK T-5	Tank Truck Loading/Unloading Rack T-5 (1 Tank Truck Bay)	VOC	26.06 (per spot)
RACK T-6	Tank Truck Loading/Unloading Rack T-6 (4 Tank Truck Bays)	VOC	26.06 (per spot)
RACK T-8	Tank Truck Loading/Unloading Rack T-8 (2 Tank Truck Bays)	VOC	26.06 (per spot)
RACK T-9	Tank Truck Loading/Unloading Rack T-9 (4 Tank Truck Bays)	VOC	26.06 (per spot)
RACK T-10	Tank Truck Loading/Unloading Rack T-10 (6 Tank Truck Bays)	VOC	26.06 (per spot)
SHIP DOCK 2	Ship Dock Number 2 (1 Vessel Berth)	VOC (4)	337.5
SHIP DOCK 3	Ship Dock Number 3 (1 Vessel Berth)	VOC (4)	337.5
SHIP DOCK 10	Ship Dock Number 10 (1 Vessel Berth)	VOC (4)	337.5
SHIP DOCK 11	Ship Dock Number 11 (1 Vessel Berth)	VOC (4)	337.5



## Attachment A-1

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

## SHORT-TERM EMISSIONS

## AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * Pounds per Hour
BARGE DOCK C	Barge Dock C (2 Barges Deep)	VOC (4)	82.13
BARGE DOCK E	Barge Dock E (2 Barges Deep)	VOC (4)	60.02

## INTERMODAL TRANSFER STATION

RACK R-4	Railcar Loading/Unloading	VOC (5)	95.90
	Intermodal Transfer Rack R-4	Non-VOC	0.13
RACK T-7	Tank Truck, Railcar, and ISO Container	VOC	95.90
	Intermodal Transfer Rack T-7	Non-VOC	0.13

## P TANK FARM EPICHLOROHYDRIN CAUSTIC SCRUBBING SYSTEM

SCR-2P	Tank Farm Caustic Scrubber SCR-2	Epichlorohydrin	0.01
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## TERMINAL FLARE SYSTEMS

TVFL	Tank Farm Vent Flare (2-Stage John Zink Flare), (Rack T-6, Rack R-2, Tank P-50-6, and all D Tank Farm Low-Pressure Storage Tanks)	CO	67.7
		NO <sub>x</sub>	7.9
		VOC	146.47
FL-1	McGill Loading Flare (Rack R-1, Rack R-3, and Racks T-3 to T-5)	CO	19.1
		NO <sub>x</sub>	2.2
		VOC	41.54
MLFR	Marine Loading Flare (John Zink Flare) (Ship Dock 2/3 and Barge Dock C)	CO	16.5
		NO <sub>x</sub>	1.9
		VOC	36.21

## Attachment A-1

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

## SHORT-TERM EMISSIONS

## AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * Pounds per Hour
MLFR-2	East Marine Loading Flare (Ship Dock 10/11 and Barge Dock E)	CO	16.5
		NO <sub>x</sub>	1.9
		VOC	36.21
FL-4	Intermodal Transfer MRW Flare (6) (Racks R-4 and T-7)	CO	17.8
		NO <sub>x</sub>	2.1
		SO <sub>2</sub>	28.08
		VOC	29.63
		Non-VOC	5.86
	East Land Loading Flare (Racks R-5 to R-8 and T-8 to T-10)	CO	19.1
		NO <sub>x</sub>	2.2
		VOC	41.54
BLR-1	Boiler BLR-1 (33.5 MM Btu/Hour) Cleaver-Brooks	CO	2.39
		NO <sub>x</sub>	2.84
		PM <sub>0.22</sub>	
		SO <sub>2</sub>	0.02
		VOC	0.16
BLR-2	Boiler BLR-2 (32.7 MM Btu/Hour) Cleaver-Brooks Model CB-LE	CO	4.91
		NO <sub>x</sub>	2.29
	800-Horsepower	PM	0.33
		SO <sub>2</sub>	0.03
		VOC	0.18
FIRE-PUMP	Rack R-4 Fire Water Pump Engine (7) Caterpillar Model 3406B-T	CO	2.47
		NO <sub>x</sub>	11.47
	370-Horsepower	PM	0.81

Attachment A-1

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

SHORT-TERM EMISSIONS

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * Pounds per Hour
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SO<sub>2</sub> 0.76  
VOC 0.93

Horizontal Diesel Fuel Storage Tank	Diesel Fuel	0.41
Horizontal Gasoline Storage Tank	Gasoline	33.50

SSIONS

Piping Fugitive Emissions (9)	VOC	17.73
Non-VOC	0.18	

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

Specific point source name. For fugitive sources use area name or fugitive source name.

CO - carbon monoxide

MeOH - methanol

NO<sub>x</sub> - total oxides of nitrogen

PM - particulate matter, suspended in the atmosphere, including PM<sub>10</sub>.

PM<sub>10</sub> - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns in emitted.

SO<sub>2</sub> - sulfur dioxide

VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

(4) The permitted marine loading emission rates do not include transfer operations that occur directly between marine vessels not utilizing any shore-based equipment to facilitate the product transfer (i.e. lightering operations).

(5,6) Rail Rack R-4 and the Railcar Cleaning/Intermodal Transfer Station MRW Flare are also

Attachment A-1

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

SHORT-TERM EMISSIONS

- authorized  
separately in Permit Number 80759 for railcar cleaning operations conducted at the Stolthaven  
Houston  
Terminal. The maximum allowable emission rates listed on this table apply concurrently to all  
authorized  
operations for these sources, and their listing in separate permits does not convey or imply  
additive  
authorization of emissions.
- (7) Rack R-4 Fire Water Pump is covered under Permit by Rule § 106.511 effective September  
4, 2000. This engine was installed in November 2000 and did not require agency registration.
- (8) Equipment fuel tanks authorized under Permits by Rule of Title 30 Texas Administrative  
Code §§ 106.472 and 106.473.
- (9) Fugitive emissions are an estimate only and are not considered as a maximum allowable  
emission rate.

\* Emission rates are based on, and the facilities are limited by, the following maximum operating  
schedule:

Hrs/day 24 Days/week 7 Weeks/year 52

Dated January 17, 2008