ATTACHMENT A.1

Permit Number 2193

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES SHORT-TERM

This table lists the maximum allowable emission rates (short-term) 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.

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates lb/hr |
|------------------------|--------------------|-----------------------------|-------------------------|
| 3-9 | ST 3-9 | VOC | 80.09 |
| 3-10 | ST 3-10 | VOC | 0.01 |
| 5-21 | ST 5-21 | VOC | 1.57 |
| 7 | ST 7 | VOC | 200.21 |
| 10-9 | ST 10-9 | VOC | 120.13 |
| 10-10 | ST 10-10 | VOC | 120.13 |
| 10-11 | ST 10-11 | VOC | 120.13 |
| 10-12 | ST 10-12 | VOC | 120.13 |
| 10-13 | ST 10-13 | VOC | 120.13 |
| 10-14 | ST 10-14 | VOC | 120.13 |
| 10-15 | ST 10-15 | VOC | 120.13 |
| 10-16 | ST 10-16 | VOC | 120.13 |
| 10-17 | ST 10-17 | VOC | 120.13 |

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES SHORT-TERM AIR CONTAMINANTS DATA

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates lb/hr |
|---------------------------|--------------------|-----------------------------|-------------------------|
| 10-18 | ST 10-18 | VOC | 120.13 |
| 10-19 | ST 10-19 | VOC | 120.13 |
| 10-20 | ST 10-20 | VOC | 120.13 |
| 10-21 | ST 10-21 | VOC | 0.30 |
| 12-1 | ST 12-1 | VOC | 140.15 |
| 12-3 | ST 12-3 | VOC | 140.15 |
| 12-4 | ST 12-4 | VOC | 140.15 |
| 12-5 | ST 12-5 | VOC | 140.15 |
| 12-6 | ST 12-6 | VOC | 140.15 |
| 12-7 | ST 12-7 | VOC | 140.15 |
| 12-8 | ST 12-8 | VOC | 140.15 |
| 12-9 | ST 12-9 | VOC | 140.15 |
| 12-10 | ST 12-10 | VOC | 140.15 |
| 12-11 | ST 12-11 | VOC | 140.15 |
| 12-12 | ST 12-12 | VOC | 140.15 |
| 12-13 | ST 12-13 | VOC | 140.15 |
| 12-14 | ST 12-14 | VOC | 140.15 |
| 12-15 | ST 12-15 | VOC | 140.15 |

${\tt EMISSION} \ {\tt SOURCES} \ {\tt -MAXIMUM} \ {\tt ALLOWABLE} \ {\tt EMISSION} \ {\tt RATES} \ {\tt SHORT-TERM}$

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates lb/hr |
|---------------------------|--------------------|-----------------------------|-------------------------|
| 12-16 | ST 12-16 | VOC | 140.15 |
| 12-17 | ST 12-17 | VOC | 140.15 |
| 12-18 | ST 12-18 | VOC | 140.15 |
| 12-19 | ST 12-19 | VOC | 140.15 |
| 12-20 | ST 12-20 | VOC | 140.15 |
| 12-21 | ST 12-21 | VOC | 140.15 |
| 12-22 | ST 12-22 | VOC | 140.15 |
| 12-23 | ST 12-23 | VOC | 140.15 |
| 12-24 | ST 12-24 | VOC | 140.15 |
| 12-25 | ST 12-25 | VOC | 140.15 |
| 12-26 | ST 12-26 | VOC | 140.15 |
| 12-27 | ST 12-27 | VOC | 140.15 |
| 12-28 | ST 12-28 | VOC | 140.15 |
| 12-29 | ST 12-29 | VOC | 140.15 |
| 12-30 | ST 12-30 | VOC | 140.15 |
| 15-1 | ST 15-1 | VOC | 160.17 |
| 15-2 15-3 | ST 15-2 ST 15-3 | VOC VOC | 0.70 1.06 |
| 20-1 | ST 20-1 | VOC | 1.57 |
| 20-2 | ST 20-2 | VOC | 1.22 |

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates lb/hr |
|---------------------------|----------------------|-----------------------------|-------------------------|
| 22 | ST 22 | VOC | 140.15 |
| 25-1 | ST 25-1 | VOC | 140.15 |
| 25-2 | ST 25-2 | VOC | 140.15 |
| 25-3 | ST 25-3 | VOC | 140.15 |
| 25-4 | ST 25-4 | VOC | 140.15 |
| 25-5 | ST 25-5 | VOC | 140.15 |
| 25-6 | ST 25-6 | VOC | 140.15 |
| 25-7 | ST 25-7 | VOC | 140.15 |
| 25-8 | ST 25-8 | VOC | 140.15 |
| 25-9 | ST 25-9 | VOC | 140.15 |
| 25-10 | ST 25-10 | VOC | 140.15 |
| 25-11 | ST 25-11 | VOC | 140.15 |
| 25-12 | ST 25-12 | VOC | 140.15 |
| 25-13 | ST 25-13 | VOC | 140.15 |
| 25-14 25-15 | ST 25-14 ST 25-15 | VOC VOC | 140.15 140.15 |
| 25-16 | ST 25-16 | VOC | 140.15 |
| 25-17 | ST 25-17 | VOC | 140.15 |
| 25-18 | ST 25-18 | VOC | 140.15 |

${\tt EMISSION} \ {\tt SOURCES} \ {\tt -MAXIMUM} \ {\tt ALLOWABLE} \ {\tt EMISSION} \ {\tt RATES} \ {\tt SHORT-TERM}$

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates lb/hr |
|---------------------------|--------------------|-----------------------------|-------------------------|
| 25-19 | ST 25-19 | VOC | 140.15 |
| 25-20 | ST 25-20 | VOC | 140.15 |
| 25-21 | ST 25-21 | VOC | 120.13 |
| 25-22 | ST 25-22 | VOC | 120.13 |
| 25-23 | ST 25-23 | VOC | 120.13 |
| 25-24 | ST 25-24 | VOC | 120.13 |
| 25-25 | ST 25-25 | VOC | 120.13 |
| 25-26 | ST 25-26 | VOC | 120.13 |
| 25-27 | ST 25-27 | VOC | 120.13 |
| 25-28 | ST 25-28 | VOC | 120.13 |
| 25-29 | ST 25-29 | VOC | 120.13 |
| 25-30 | ST 25-30 | VOC | 120.13 |
| 31 | ST 31 | VOC | 140.15 |
| 32 37 | ST 32 ST 37 | VOC VOC | 200.21 120.13 |
| 40-1 | ST 40-1 | VOC | 120.13 |
| 50-1 | ST 50-1 | VOC | 0.01 |
| 50-2 | ST 50-2 | VOC | 0.01 |
| 50-3 | ST 50-3 | VOC | 1.94 |
| 80-9 | ST 80-9 | VOC | 200.21 |

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates lb/hr |
|---------------------------|----------------------|-----------------------------|-------------------------|
| 80-10 | ST 80-10 | VOC | 200.21 |
| 80-11 | ST 80-11 | VOC | 200.21 |
| 80-12 | ST 80-12 | VOC | 200.21 |
| 80-13 | ST 80-13 | VOC | 200.21 |
| 80-14 | ST 80-14 | VOC | 200.21 |
| 80-15 | ST 80-15 | VOC | 200.21 |
| 80-16 | ST 80-16 | VOC | 200.21 |
| 80-17 | ST 80-17 | VOC | 200.21 |
| 80-18 | ST 80-18 | VOC | 200.21 |
| 80-19 | ST 80-19 | VOC | 200.21 |
| 80-20 | ST 80-20 | VOC | 200.21 |
| 80-21 80-22 | ST 80-21 ST 80-22 | VOC VOC | 380.40 380.40 |
| 90-1 | ST 90-1 | VOC | 0.97 |
| 90-2 | ST 90-2 | VOC | 0.97 |
| 100-1 | ST 100-1 | VOC | 23.44 |
| 100-2 | ST 100-2 | VOC | 23.44 |
| 100-3 | ST 100-3 | VOC | 23.44 |
| 100-4 | ST 100-4 | VOC | 23.44 |

${\tt EMISSION} \ {\tt SOURCES} \ {\tt -MAXIMUM} \ {\tt ALLOWABLE} \ {\tt EMISSION} \ {\tt RATES} \ {\tt SHORT-TERM}$

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates lb/hr |
|---------------------------|------------------------|-----------------------------|-------------------------|
| 100-5 | ST 100-5 | VOC | 2.47 |
| 100-6 | ST 100-6 | VOC | 2.47 |
| 100-7 | ST 100-7 | VOC | 2.59 |
| 100-8 | ST 100-8 | VOC | 2.59 |
| 100-9 | ST 100-9 | VOC | 2.59 |
| 100-10 | ST 100-10 | VOC | 2.26 |
| 100-11 | ST 100-11 | VOC | 2.08 |
| 100-12 | ST 100-12 | VOC | 2.08 |
| 100-13 | ST 100-13 | VOC | 2.56 |
| 100-14 | ST 100-14 | VOC | 2.56 |
| 100-15 100-16 | ST 100-15 ST 100-16 | VOC VOC | 1.86 1.86 |
| 100-17 | ST 100-17 | VOC | 1.86 |
| 100-18 | ST 100-18 | VOC | 1.86 |
| 100-19 | ST 100-19 | VOC | 1.86 |
| 100-20 | ST 100-20 | VOC | 2.03 |
| 100-21 | ST 100-21 | VOC | 0.01 |
| 100-23 | ST 100-23 | VOC | 0.55 |
| 100-24 | ST 100-24 | VOC | 0.55 |
| 125-1 | ST 125-1 | VOC | 1.14 |

${\tt EMISSION} \ {\tt SOURCES-MAXIMUM} \ {\tt ALLOWABLE} \ {\tt EMISSION} \ {\tt RATES} \ {\tt SHORT-TERM}$

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates lb/hr |
|---------------------------|----------------------------------|-----------------------------|-------------------------|
| 150-101 | ST 150-101 | VOC | 2.00 |
| 150-102 | ST 150-102 | VOC | 2.00 |
| 150-103 | ST 150-103 | VOC | 2.00 |
| 150-104 | ST 150-104 | VOC | 2.33 |
| 150-105 | ST 150-105 | VOC | 2.33 |
| 150-106 | ST 150-106 | VOC | 2.33 |
| 150-107 | ST 150-107 | VOC | 2.33 |
| 150-108 | ST 150-108 | VOC | 2.33 |
| 150-109 150-110 | ST 150-109 ST 150-110 | VOC VOC | 2.33 2.33 |
| 150-111 | ST 150-111 | VOC | 2.33 |
| 150-112 | ST 150-112 | VOC | 2.33 |
| 150-113 | ST 150-113 | VOC | 2.33 |
| 150-114 | ST 150-114 | VOC | 2.33 |
| 150-115 | ST 150-115 | VOC | 2.33 |
| 144-1 | ST 144-1 | VOC | 23.44 |
| 187-1 | ST 187-1 | VOC | 23.44 |
| 187-1 | ST 187-1 | VOC | 2.16 (7) |
| Storage Tanks | Total Hourly (lb/hr) Landing Cap | o VOC | 726.00 (5) |

| Emission | Source | Air Contaminant | Emission Rates |
|---------------|--|-----------------|------------------------------|
| Point No. (1) | Name (2) | Name (3) | lb/hr |
| TR-1 | Truck Rack No. 1 Loading Loss (9 Truck Spots) VP < 0.50 psia Uncontrolled and VP > 0.50 psi Controlled | l . | 170.37 (18.93 lb/hr/Spot) |
| TR-6 | Truck Rack No. 6 Loading Losses (1 truck Spot) VP <0.50 psia Uncontrolled and VP >0.50 psia Controlled | VOC | 18.93 |
| TR-10 | Truck Rack No. 10 Loading Losses (43 Truck Spots) VP <0.50 psia Uncontrolled and VP >0.50 psia Controlled | VOC | 813.99 (18.93 lb/hr/Spot) |
| TR-11 | Truck Rack No. 11 Loading Losses (15 Truck Spots) VP <0.50 psia Uncontrolled and VP >0.50 psia Controlled | VOC | 283.95 (18.93 lb/hr/Spot) |
| TR-12 | Truck Rack No. 12 Loading Losses (9 Truck Spots) VP <0.50 psia Uncontrolled and VP >0.50 psia Controlled | VOC | 170.37 (18.93 lb/hr/Spot) |
| TR-13 | Truck Rack No. 13 Loading Losses (7 Truck Spots) VP <0.50 psia Uncontrolled and VP >0.50 psia Controlled | VOC | 132.51 (18.93 lb/hr/Spot) |
| C-RCR | Central Railcar Rack Loading Losses (35 Rail Spots) VP <0.50 psia Uncontrolled and VP >0.50 psia Controlled | VOC | 662.55 (18.93 lb/hr/Spot) |
| E-RCR | East Railcar Rack Loading Losses (24 Rail Spots) VP <0.50 psia Uncontrolled | VOC | 454.32 (18.93 lb/hr/Spot) |

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates lb/hr |
|---------------------------|---|------------------------------------|--------------------------------------|
| 1 OHIE NO. (1) | and VP >0.50 psia Controlled | rvaine (5) | 15/111 |
| W-RCR | West Railcar Rack Loading Losses (34 Rail Spots) VP <0.50 psia Uncontrolled and VP >0.50 psia Controlled | VOC | 643.62 (18.93 lb/hr/Spot) |
| SHPDK-1 | Ship Dock No. 1 Loading Losses VP <0.50 psia Uncontrolled | VOC | 113.60 |
| SHPDK-2 | Ship Dock No. 2 Loading Losses VP <0.50 psia Uncontrolled | VOC | 113.60 |
| SHPDK-3 | Ship Dock No. 3 Loading Losses VP <0.50 psia Uncontrolled | VOC | 113.60 |
| BGDK-1 | Barge Dock No. 1 Loading Losses VP <0.50 psia Uncontrolled | VOC | 94.67 |
| BGDK-2 | Barge Dock No. 2 Loading Losses VP <0.50 psia Uncontrolled | VOC | 94.67 |
| BD3-LDFUG | Barge Dock No. 3 Loading Losses VP <0.50 psia Uncontrolled | VOC | 11.34 |
| BOILER-4 | Steam Boiler No. 4 (14.70 MMBtu/hr fired duty) | CO NO_x PM_{10} SO_2 VOC | 0.22 1.47 0.01 0.01 0.06 |

| Emission Point No. (1) | Source Ai | r Contaminant Name (3) | Emission Rates lb/hr |
|--|--|---|----------------------------------|
| VCU System No. 1 (VCU-1A and VCU-1B | TR, RC, and Marine VCU) Tank 125-1 and 187-1 Controlled Roof Landings | CO NO _x SO ₂ VOC | 28.91 9.50 0.02 51.18 |
| Flare System No. 2 (FL-2a, FL-2b, and FL-2c) | TR, RC, and Marine Flares | CO NO _x SO ₂ VOC | 12.96 1.51 0.0 31.81 |
| SUMP-1 | Wastewater Sumps | VOC | 5.67 |
| TK-DEGAS | Tank Degassing | VOC NO _x CO | 124.31 3.43 6.85 |
| TK-ATMDEGAS | Uncontrolled Tank Degassing | VOC | 103.35 |
| BD3-PIPEFUG | Barge Dock No. 3 Process Fugitives (4) | VOC | 0.05 |
| BIOFUG | Biodiesel Process Fugitives (4) | VOC | 0.04 |
| FUG | Process Fugitives (4) | VOC | 6.51 |
| FUG-125-1 | Storage Tank No. 125-1 Process Fugitives (4) | VOC | 0.09 |
| TKFUG-ESTPLT | East Plant Fugitives | VOC | 0.79 |
| TNK-VCU-1A and TNK-VCU-1B | East Plant Roof Landing VCU No. 1A and No. 1B Emissions Cap | VOC NO _x CO SO ₂ | 20.45 65.73 131.22 0.16 |
| SD-4-VCU | Ship Dock No. 4 VCU (VP >0.5 psia, controlled) | VOC (6) Benzene NO _x CO | 8.92 0.14 12.39 24.74 |

AIR CONTAMINANTS DATA

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates lb/hr |
|---------------------------|--------------------------------------|---|---------------------------------|
| ., | | SO ₂ | 0.01 |
| SD-4-LOADFUG | Ship Dock No. 4 Loading Fugitives | VOC (6) Benzene | 89.23 1.36 |
| SD-4-PIPEFUG | Ship Dock No. 4 Piping Fugitives | VOC | 0.14 |
| CAMU | Corrective Action Managemer | nt Unit | VOC 0.05 |
| MSS Cap | MSS Activities | VOC (6) Benzene NO _x CO | 27.39 21.56 1.50 54.44 |

- (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) VOC volatile organic compounds as defined in Title 30 Texas Administrative Code ' 101.1
 - CO carbon monoxide
 - NO_x total oxides of nitrogen
 - PM₁₀ particulate matter equal to or less than 10 microns in diameter
 - SO₂ sulfur dioxide
- (4) Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.
- (5) Hourly emissions cap covers the simultaneous re-fill emissions from IFR tanks with roofs landed as allowed by Special Condition No. 28.
- (6) Benzene is included in VOC.
- (7) Effective upon start of operation of the Tank 187-1 Retrofit Project (permit amendment submitted June 2, 2009).

Dated:

ATTACHMENT A.2

Permit Number 2193

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES ANNUAL

This table lists the maximum allowable emission rates (annual) 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 the 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.

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates * TPY ** |
|---|--|---|--------------------------------------|
| BOILER-4 | Steam Boiler No. 4 (14.7 MMBtu/hr fired duty) | CO NO_x PM_{10} SO_2 VOC | 0.97 6.44 0.06 0.04 0.26 |
| VCU System No. 1 (VCU-1A and VCU-1 | TR, RC, and Marine VCU B) | CO NO _x SO ₂ VOC | 30.17 3.52 0.01 61.00 |
| | Tank 125-1 Controlled Roof Landings | CO NO _x SO ₂ VOC | 7.81 3.91 0.02 0.77 |
| | Tank 187-1 Controlled Roof Landings (8) | CO NOx SO ₂ VOC | 8.46 4.24 0.02 1.95 |
| Flare System No. 2 (FL-2a, F-2b, and FL2-c) | TR, RC, and Marine Flares | CO NO _x SO ₂ VOC | 30.17 3.52 0.01 61.00 |
| | Barge and Ship Emission | VOC | 5.62 |

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES ANNUAL

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates * TPY ** |
|---------------------------|--|----------------------------------|-------------------------|
| | Losses Uncontrolled | | |
| | Rail and Truck Racks Emission Losses Uncontrolled | VOC | 45.00 |
| BD3-LDFUG | Barge Dock No. 3 Loading Losses VP <0.50 psia | VOC | 2.32 |
| | Uncontrolled | | |
| Sump-1 | Wastewater Sumps | VOC | 2.85 |
| TK-DEGAS | Tank Degassing | VOC (5) NO _x CO | 1.01 2.03 |
| TK-ATMDEGAS | Uncontrolled Tank Degassing | VOC (5) | |
| Storage Tanks | Total Annual (TPY) Cap | VOC | 481.57 (5) |
| Storage Tanks | Total Annual (TPY) Cap | VOC | 413.00 (5), (7) |
| Storage Tanks | Total Annual (TPY) Cap | VOC | 410.00 (5), (8) |
| BD3-PIPEFUG | Barge Dock No. 3 Process Fugitives (4) | VOC | 0.22 |
| BIOFUG | Biodiesel Process Fugitives (4) | VOC | 0.17 |
| FUG FUG-125-1 | Process Fugitives (4) Storage Tank No. 125-1 Process Fugitives (4) | VOC VOC | 28.49 0.41 |
| TKFUG-ESTPLT | East Plant Fugitives | VOC | 3.44 |
| TNK-VCU-CAP | East Plant Roof Landing VCU No 1A and 1B | VOC NO _x | 10.48 22.56 |

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES ANNUAL

| Emission Point No. (1) | Source Aname (2) | Air Contaminant Name (3) | Emission Rates * TPY ** |
|---------------------------|-----------------------------------|--|---------------------------------------|
| | Annual Emissions Cap | CO SO ₂ | 45.03 0.04 |
| SD-4-VCU | Ship Dock No. 4 VCU | VOC (6) Benzene NO _x CO SO ₂ | 6.01 0.05 8.94 17.84 0.01 |
| SD-4-LOADFUG | Ship Dock No. 4 Loading Fugitives | s VOC (6) Benzene | 61.30 0.59 |
| SD-4-PIPEFUG | Ship Dock No. 4 Piping Fugitives | VOC | 0.60 |
| CAMU | Corrective Action Management Ur | nit VOC | 0.11 |
| MSS Cap | MSS Activities | VOC (6) Benzene NO _x CO | 0.57 0.45 0.03 0.10 |

ATTACHMENT A.2 Permit Number 2193 Page 16

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES ANNUAL

- (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) CO carbon monoxide
 - NO_x total oxides of nitrogen
 - SO₂ sulfur dioxide
 - PM₁₀ particulate matter equal to or less than 10 microns in diameter
 - VOC volatile organic compounds as defined in Title 30 Texas Administrative Code ' 101.1
- (4) Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.
- (5) Annual emissions cap for tanks covers routine emissions, tank roof landings, and de-gassing.
- (6) Benzene is included in VOC.
- (7) Effective upon start of operation of any of the twelve (12) East Plant Expansion Project Tanks (Tank Nos. 150-104 through 150-115).
- (8) Effective upon start of operation of the Tank 187-1 Project (permit amendment submitted June 2, 2009).
- * 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

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

Dated: