Permit Numbers 37979 and N009

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. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

AIR CONTAMINANTS DATA

| Emission | Source | Air Contaminant | Emission Rates * | |
|---------------|---------------------------|--|---|---|
| Point No. (1) | Name (2) | Name (3) | lb/hr | TPY** |
| BOIL-Y1801 | 30-Barg Boiler | NO_x SO_2 CO PM/PM_{10} VOC | 8.06 2.79 15.92 1.51 1.09 | 8.76 3.88 11.10 2.11 1.10 |
| BOIL-Y1801 | 30-Barg Boiler (6) | NO_x SO_2 CO $PM/PM_{10}/PM_{2.5}$ VOC NH_3 | 1.99 0.29 13.93 1.54 1.09 0.92 | 8.72 1.28 30.51 6.76 4.79 4.01 |
| CTWR-1701 | Cooling Tower | PM/PM ₁₀ VOC | 0.12 1.26 | 0.53 5.52 |
| LOAD-FUG | Tank Truck Loading Losses | VOC Organic HAPs | 0.04 0.04 | 0.01 0.01 |
| OSBL-FUG | Fugitives (4) | VOC HAPs NH ₃ (6) | 0.72 0.48 0.01 | 3.14 2.10 0.06 |
| V-1609 | H₂SO ₄ Tank | H ₂ SO ₄ | 0.01 | 0.01 |
| TK1614 | Neutralization Tank | H ₂ SO ₄ | 0.01 | 0.01 |
| THOX-Y1907 | OSBL Thermal Oxidizer | NO _x SO ₂ CO PM/PM ₁₀ VOC Organic HAPs | 1.00 3.46 1.10 1.23 0.17 0.11 | 4.38 15.16 4.82 5.39 0.73 0.43 |

AIR CONTAMINANTS DATA

| Emission | Source | Air Contaminant | | Emission Rates * lb/hr TPY** | |
|---------------|---------------------------|---|---|--|--|
| Point No. (1) | Name (2) | Name (3) | lb/hr | IPY** | |
| FIRE-PUMPS | Firewater Pumps | NO _x CO SO₂ PM VOC | 23.25 5.01 1.54 1.65 1.89 | 2.56 0.55 0.17 0.18 0.21 | |
| DIESEL-TNK | Diesel Fuel Storage Tanks | VOC | 0.02 | 0.01 | |
| GAS-TK | Gasoline Storage Tank | VOC | 4.15 | 0.02 | |
| DIESEL-TK2 | Diesel Storage Tank | VOC | 0.74 | 0.02 | |
| LUBE-TK | Lube Oil Storage Tank | VOC | 0.14 | 0.01 | |
| TK-1703 | Tank 1703 | VOC | 0.09 | 0.01 | |
| DEGREASE-1 | Degreaser | VOC | 0.01 | 0.01 | |
| WASH-PAD | Wash Pad | VOC Organic HAPs | 0.26 0.26 | 0.12 0.12 | |
| AA-FUG | AA Fugitives (4) | Total VOC (5) Propylene Total HAPs CO | 1.97 0.18 1.76 0.01 | 8.65 0.69 7.69 0.01 | |
| THOX-Y1170 | AA Thermal Oxidizer (7) | Total VOC (5) Propylene Total HAPs NO _x SO ₂ CO PM/PM ₁₀ | 5.73 0.45 1.62 13.51 2.20 15.87 14.17 | 22.65 1.96 6.19 43.93 9.64 50.24 52.12 | |

AIR CONTAMINANTS DATA

| Emission | Source Air Contaminant | | Emission Rates * | |
|---------------|---|---|---|--|
| Point No. (1) | Name (2) | Name (3) | lb/hr | TPY** |
| SK-1186 | AA Thermal Oxidizer (7) (HRSG Stack) | Total VOC (5) Propylene Total HAPs NO _x SO ₂ CO PM/PM ₁₀ | 5.73 0.45 1.62 13.51 2.20 15.87 14.17 | 22.65 1.96 6.19 43.93 9.64 50.24 52.12 |
| AA-MATL | Material Handling | PM/PM ₁₀ | 0.78 | 0.06 |
| AA-MNTC | Maintenance Activities | Total VOC NO _x CO Acrylic Acid | 0.08 0.04 0.04 0.08 | 0.01 0.01 0.01 0.01 |

- (1) Emission point identification either specific equipment designation or emission point number (EPN) 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

NH₃ - ammonia

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

PM - particulate matter, suspended in the atmosphere, including PM₁₀.

PM₁₀ - 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 is emitted.

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

CO - carbon monoxide

H₂SO₄ - sulfuric acid

HAP - hazardous air pollutants

- (4) Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.
- (5) The total VOC emissions include propylene and organic HAPs.
- (6) Effective upon start of operation of the SCR (permit amendment submitted October 29, 2009).

| (7) | Emissions represent total combined emission rates from EPNs THOX-Y1170 and SK1186. |
|-----|---|
| * | Emission rates are based on and the facilities are limited by the following maximum operating schedule: |
| | Hrs/dayDays/weekWeeks/year or <u>8,760</u> Hrs/year |
| ** | Compliance with annual emission limits is based on a rolling 12-month period. |
| | |

Dated: August 9, 2011