

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 3945A

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.

| Emission<br>Point No. (1) | Source<br>Name (2)                         | AIR CONTAMINANTS DATA       |                  |       |
|---------------------------|--|-----------------------------|------------------|-------|
|                           |  | Air Contaminant<br>Name (3) | Emission Rates * |       |
|                           |  |                             | lb/hr            | TPY   |
| GBT002                    | CTL II Environmental Vent<br>Scrubber      | VOC                         | 22.80            | 13.56 |
|                           |  | PM                          | 0.53             | 3.0   |
|                           |  | Cl <sub>2</sub>             | 1.35             | 1.18  |
|                           |  | HCl                         | 4.15             | 1.22  |
| GBT003                    | CTL II HTF Heater Stack<br>4.1 MM BTU/HR   | VOC                         | 0.02             | 0.10  |
|                           |  | NO <sub>x</sub>             | 0.41             | 1.80  |
|                           |  | SO <sub>2</sub>             | 0.01             | 0.01  |
|                           |  | PM                          | 0.03             | 0.14  |
|                           |  | CO                          | 0.34             | 1.51  |
| GBT004                    | East Package Boiler<br>39.5 MM BTU/HR      | VOC                         | 0.22             | 0.95  |
|                           |  | NO <sub>x</sub>             | 3.95             | 17.30 |
|                           |  | SO <sub>2</sub>             | 0.03             | 0.10  |
|                           |  | PM                          | 0.30             | 1.31  |
|                           |  | CO                          | 3.32             | 14.53 |
| GBT006                    | Emergency Generator<br>630 HP Diesel Fired | VOC                         | 0.40             | 0.06  |
|                           |  | NO <sub>x</sub>             | 14.10            | 2.03  |
|                           |  | SO <sub>2</sub>             | 4.50             | 0.65  |
|                           |  | PM                          | 0.40             | 0.06  |
|                           |  | CO                          | 3.70             | 0.53  |
| GBT007                    | Emergency Diesel<br>Fuel Tank              | VOC                         | 0.01             | 0.01  |

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| CONTAMINANTS DATA         |   |                             | AIR                     |       |
|---------------------------|---|-----------------------------|-------------------------|-------|
| Emission<br>Point No. (1) | Source<br>Name (2)                      | Air Contaminant<br>Name (3) | <u>Emission Rates *</u> |       |
|                           |   |                             | lb/hr                   | TPY   |
| GBT008                    | West Package Boiler<br>60 MM BTU/HR     | VOC                         | 0.33                    | 1.45  |
|                           |   | NO <sub>x</sub>             | 6.00                    | 26.28 |
|                           |   | SO <sub>2</sub>             | 0.04                    | 0.16  |
|                           |   | PM                          | 0.46                    | 2.00  |
|                           |   | CO                          | 5.04                    | 22.08 |
| GBT009                    | CTL II HTF Expansion Vessel<br>0.17     |                             | Dowtherm G 0.04         |       |
| GBT010                    | CTL II HTF Drain Tank                   | Dowtherm G                  | 0.93                    | 0.01  |
| FGBT01                    | CTL II Fugitives (4)                    | VOC                         | 1.36                    | 3.38  |
|                           |   | PM                          | 0.52                    | 0.60  |
|                           |   | Cl <sub>2</sub>             | 0.61                    | 1.91  |
|                           |   | HCl                         | 0.46                    | 1.31  |
|                           |   | Freon 12                    | 3.5                     | 15.30 |
|                           |   | Syltherm                    | 0.15                    | 0.63  |
| GBE001                    | Distillation HTF Heater<br>9.9 MMBtu/hr | Non-VOC HC                  | 0.01                    | 0.02  |
|                           |   | NO <sub>x</sub>             | 0.36                    | 1.58  |
|                           |   | CO                          | 0.84                    | 3.68  |
|                           |   | PM                          | 0.33                    |       |
|                           |   | SO <sub>2</sub>             | 0.03                    |       |
| GBE002                    | Distillation HTF Exp.Vessel             | VOC                         | 0.24                    |       |
|                           |   | Syltherm                    | 0.08                    | 0.02  |
|                           |   | PM                          | 0.41                    | 1.09  |
|                           |   | VOC                         | 0.21                    |       |
| GBE003                    | Product Baghouse                        | PM                          | 0.41                    | 1.09  |
|                           |   | VOC                         | 0.21                    |       |

Non-VOC HC

1.04

3.96

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- (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)
    - Cl<sub>2</sub> - chlorine
    - CO - carbon monoxide
    - HCl - hydrogen chloride
    - NO<sub>x</sub> - total oxides of nitrogen
    - PM - particulate matter, suspended in the atmosphere, including PM<sub>10</sub>.
    - SO<sub>2</sub> - sulfur dioxide
    - VOC - volatile organic compounds as defined in 30 Texas Administrative Code Section 101.1
    - HC - hydrocarbons
  - (4) Fugitive emissions are an estimate only and should not be 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 Or Hrs/year 8760

Dated November 1, 2001