

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 329A

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 Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates * | |
|------------------------|--|--------------------------|------------------|-------|
| | | | lb/hr | TPY** |
| FGBU01 | Utilities Area Fugitives (4) | VOC | 0.19 | 0.82 |
| | | HCl | 0.32 | 1.39 |
| | | PM | 0.14 | 0.04 |
| | | PM ₁₀ | 0.02 | 0.01 |
| FGBU02 | Loading Fugitives (4) | HCl | 0.33 | 0.34 |
| FGBU03 | Abrasive Blasting Fugitives | PM | 0.14 | 0.04 |
| | | PM ₁₀ | 0.02 | 0.01 |
| GBD014 (5) | HCl Storage Tanks Scrubber | HCl | 0.03 | 0.04 |
| GBD022 (5) | HCl Loading Scrubber | HCl | 0.06 | 0.07 |
| GBD063 (5) | S5-T185 Spent Scrubber | Cl ₂ | 0.02 | 0.03 |
| GBD069 (5) | T-704 Spent Scrubber Liquor Tank | Cl ₂ | 0.02 | 0.03 |
| GBD075 | Dacthal Emergency Diesel Tank | VOC | 0.04 | 0.01 |
| GBD076 | Dacthal Emergency Diesel Generator | NO _x | 6.63 | 0.59 |
| | | CO | 1.43 | 0.13 |
| | | PM | 0.47 | 0.04 |
| | | PM ₁₀ | 0.47 | 0.04 |
| | | VOC | 0.53 | 0.05 |
| | | SO ₂ | 0.44 | 0.04 |
| GBU007 | Fire Water Pump Diesel Fuel Tank No. 2 | VOC | 0.03 | 0.01 |
| GBU008A | Fire Water Pump Diesel | VOC | 0.03 | 0.01 |

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| | | | | |
|------------|--|------------------|-------|------|
| GBU008B | Fuel Tank No. 3 | VOC | 0.03 | 0.01 |
| | Fire Water Pump Diesel Fuel Tank No. 4 | | | |
| GBU008C | Fuel Tank No. 3 | VOC | 0.03 | 0.01 |
| | Fire Water Pump Diesel Fuel Tank No. 5 | | | |
| GBU025 (5) | Chlorine Unloading Scrubber | Cl ₂ | 0.15 | 0.01 |
| GBU028 (5) | BFW HCl Storage Tank Scrubber | HCl | 0.01 | 0.01 |
| GBU035 | Diesel Fire Water Pump No. 2 | NO _x | 6.20 | 0.31 |
| | | CO | 1.34 | 0.07 |
| | | PM | 0.44 | 0.02 |
| | | PM ₁₀ | 0.44 | 0.02 |
| | | VOC | 0.49 | 0.02 |
| | | SO ₂ | 0.41 | 0.02 |
| GBU036A | Diesel Fire Water Pump No.3 | NO _x | 10.08 | 0.50 |
| | | CO | 2.17 | 0.11 |
| | | PM | 0.72 | 0.04 |
| | | PM ₁₀ | 0.72 | 0.04 |
| | | VOC | 0.80 | 0.04 |
| | | SO ₂ | 0.67 | 0.03 |
| GBU036B | Diesel Fire Water Pump No. 4 | NO _x | 13.18 | 0.66 |
| | | CO | 2.84 | 0.14 |
| | | PM | 0.94 | 0.05 |
| | | PM ₁₀ | 0.94 | 0.05 |
| | | VOC | 1.05 | 0.05 |
| | | SO ₂ | 0.87 | 0.04 |
| GBU036C | Diesel Fire Water Pump No. 5 | NO _x | 13.18 | 0.66 |
| | | CO | 2.84 | 0.14 |
| | | PM | 0.94 | 0.05 |
| | | PM ₁₀ | 0.94 | 0.05 |
| | | VOC | 1.05 | 0.05 |
| | | SO ₂ | 0.87 | 0.04 |
| GBU037 (5) | West Cooling Tower | VOC | 0.21 | 0.92 |
| GBU041 | Paint Area | VOC | 92.40 | 6.65 |

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| | | | | |
|------------|---|------------------|-------|------|
| GBU042 (5) | QC Lab Hoods | PM ₁₀ | 3.23 | 0.19 |
| | | VOC | 0.20 | 0.80 |
| GBU044 (5) | Formulations Cooling Tower | PM | 0.11 | 0.47 |
| | | PM ₁₀ | 0.11 | 0.47 |
| GBU048 | Plant Diesel Tank | VOC | 0.04 | 0.01 |
| GBU049 | Plant Gasoline Tank | VOC | 10.79 | 0.27 |
| GBU061 | Blasting Facility | PM | 0.06 | 0.02 |
| | | PM ₁₀ | 0.01 | 0.01 |
| GBU062 | Industrial Water Emergency Diesel Generator | NO _x | 11.16 | 0.56 |
| | | CO | 2.40 | 0.12 |
| | | PM | 0.79 | 0.04 |
| | | PM ₁₀ | 0.79 | 0.04 |
| | | VOC | 0.89 | 0.04 |
| | | SO ₂ | 0.74 | 0.04 |
| GBU063 | Industrial Water Emergency Diesel Tank | VOC | 0.01 | 0.01 |
| GBU064 (5) | Sullair Cooling Tower | PM | 0.01 | 0.06 |
| | | PM ₁₀ | 0.01 | 0.06 |
| GBU065 (5) | Engr./Tech Bldg Lab Hoods | VOC | 0.21 | 0.92 |

- (1) Emission point identification - either specific equipment designation or emission point number from a plot plan.
- (2) Specific point source names. For fugitive sources, use an area name or fugitive source name.
- (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- NO_x - total oxides of nitrogen
- SO₂ - sulfur dioxide

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- PM - particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}
 PM₁₀ - particulate matter equal to or less than 10 microns in diameter
 CO - carbon monoxide
 Cl - chlorine gas
 HCl - hydrogen chloride

- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
 (5) These facilities are authorized under Permits-by-Rule (PBR) and incorporated by reference only into this permit. The PBRs utilized for each source are listed below:

| EPN No. | Source Name | Contaminant Name | PBR Claimed |
|---------|------------------------------------|------------------------|-------------|
| GBU025 | Chlorine Unloading Scrubber | Cl ₂ | 106.262 |
| GBU042 | QC Lab Hoods | VOC | 106.122 |
| GBU037 | West Cooling Tower | VOC | 106.371 |
| GBU044 | Formulations Cooling Tower | PM PM ₁₀ | SE8 |
| GBU064 | Sullair Cooling Tower | PM PM ₁₀ | 106.371 |
| GBU065 | Engr./Tech. Bldg. Lab Hoods | VOC | 106.122 |
| GBD014 | HCl Storage Tanks Scrubber | HCl | SE 78 |
| GBD022 | HCl Loading Scrubber | HCl | 106.472 |
| GBU028 | BFW HCl Storage Tank Scrubber | HCl | SE51 |
| GBD063 | S5-T185 Spent Scrubber Liquor Tank | Cl ₂ | 106.472 |
| GBD069 | T-704 Spent Scrubber Liquor Tank | Cl ₂ | SE 51 |

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

__Hrs/day __Days/week __Weeks/year or __Hrs/year

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

Date May 7, 2007