

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 3855B and PSD-TX-876

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) | <u>Emission Rates *</u> | |
|---------------------------|---|-----------------------------|-------------------------|-------|
| | | | lb/hr | TPY** |
| F-P01 | VCM Production Fugitives (4) | VOC | 0.89 | 3.88 |
| | | HCl | 0.14 | 0.60 |
| | | VCM | 0.68 | 3.00 |
| | | Cl ₂ | 0.01 | 0.05 |
| F-P-13D | "D" Oxy-Chlorination Reactor Process Fugitives (4) | VOC | 0.21 | 0.90 |
| | | HCl | 0.08 | 0.35 |
| F-P03B | Chlorine Unloading Fugitives (4) | Cl ₂ | 0.06 | 0.27 |
| IND103 | Cracking Furnace 103 (95 MMBTU/Hour) | PM ₁₀ | 0.71 | 2.45 |
| | | SO ₂ | 0.06 | 0.22 |
| | | NO _x | 15.11 | 47.30 |
| | | CO | 1.24 | 3.90 |
| | | VOC | 0.51 | 1.76 |
| IND104 | Cracking Furnace 104 (95 MMBTU/Hour) | PM ₁₀ | 0.71 | 2.45 |
| | | SO ₂ | 0.06 | 0.22 |
| | | NO _x | 15.11 | 47.30 |
| | | CO | 1.24 | 3.90 |
| | | VOC | 0.51 | 1.76 |
| IND105 | Cracking Furnace 105 (95 MMBTU/Hour) | PM ₁₀ | 0.71 | 2.45 |
| | | SO ₂ | 0.06 | 0.22 |
| | | NO _x | 15.11 | 47.30 |
| | | CO | 1.24 | 3.90 |
| | | VOC | 0.51 | 1.76 |

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AIR CONTAMINANTS DATA

| Emission * | Source | Air Contaminant | <u>Emission Rates</u> | |
|----------------------|---|------------------|-----------------------|--------------|
| <u>Point No. (1)</u> | <u>Name (2)</u> | <u>Name (3)</u> | <u>lb/hr</u> | <u>TPY**</u> |
| IND106 | Cracking Furnace 106 (95 MMBTU/Hour) | PM ₁₀ | 0.71 | 2.45 |
| | | SO ₂ | 0.06 | 0.22 |
| | | NO _x | 15.11 | 47.30 |
| | | CO | 1.24 | 3.90 |
| | | VOC | 0.51 | 1.76 |
| IND107 | Cracking Furnace 107 (95 MMBTU/Hour) | PM ₁₀ | 0.71 | 2.35 |
| | | SO ₂ | 0.06 | 0.21 |
| | | NO _x | 5.32 | 17.50 |
| | | CO | 1.33 | 3.90 |
| | | VOC | 0.51 | 1.70 |
| IND108 | Cracking Furnace 108 (95 MMBTU/Hour) | PM ₁₀ | 0.71 | 2.35 |
| | | SO ₂ | 0.06 | 0.21 |
| | | NO _x | 5.32 | 17.50 |
| | | CO | 1.33 | 3.90 |
| | | VOC | 0.51 | 1.70 |
| IND101A | Incinerator A Scrubber | VOC | 2.00 | 8.80 |
| | | NO _x | 9.18 | 26.79 |
| | | CO | 2.21 | 9.43 |
| | | CO (5) | 50.00 | |
| | | SO ₂ | 0.10 | 0.40 |
| | | PM ₁₀ | 2.00 | 8.80 |
| | | HCl | 2.08 | 8.83 |
| | | Cl ₂ | 4.00 | 17.50 |
| | | VCM | 0.05 | 0.22 |

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| Emission * | Source | Air Contaminant | <u>Emission Rates</u> | |
|---------------|-------------------------|------------------|-----------------------|-------|
| Point No. (1) | Name (2) | Name (3) | lb/hr | TPY** |
| IND101B | Incinerator B Scrubber | VOC | 2.00 | 8.80 |
| | | NO _x | 9.18 | 26.79 |
| | | CO | 2.21 | 9.43 |
| | | CO (5) | 50.00 | |
| | | SO ₂ | 0.10 | 0.40 |
| | | PM ₁₀ | 2.00 | 8.80 |
| | | HCl | 2.08 | 8.83 |
| | | Cl ₂ | 4.00 | 17.50 |
| | | VCM | 0.05 | 0.22 |
| CYC-1 | Decoking Cyclone | CO | 43.80 | 3.20 |
| EEDC-SUMP | East EDC Tank Farm Sump | EDC | <0.01 | <0.01 |
| EDCTF-SUMP | West EDC Tank Farm Sump | EDC | <0.01 | <0.01 |
| IM-SUMP | Intermediate Sump | EDC | <0.01 | <0.01 |
| LTC SUMP | LTC Sump | EDC | <0.01 | <0.01 |
| NO1-SUMP | No. 1 Sump | EDC | <0.01 | <0.01 |
| NO2-SUMP | No. 2 Sump | EDC | <0.01 | <0.01 |
| COXY-SUMP | C-Oxy Sump | EDC | <0.01 | <0.01 |
| EOXY-SUMP | E-Oxy Sump | EDC | <0.01 | <0.01 |
| HYDRO-SUMP | Hydroblast Pad Sump | EDC | <0.01 | <0.01 |
| HYDRO-WEIR | Hydroblast Pad Weir | EDC | 0.14 | 0.62 |
| | | VCM | 0.07 | 0.31 |

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|---------------|-----------------------------------|-------------------|-----------------------|-------|
| Point No. (1) | Name (2) | Name (3) | lb/hr | TPY** |
| WW-1 | Wastewater Treatment | EDC | 0.17 | 0.42 |
| | | CHCl ₃ | 0.35 | 0.87 |
| LAB-SUMP | Lab Sump | EDC | 0.05 | 0.21 |
| DEGREASER | Parts Degreaser | VOC | 0.08 | 0.24 |
| FB-6473 | LOPS Tank | VOC | 0.08 | 0.03 |
| GT-1 | Gasoline Storage Tank | Gasoline | 44.23 | 1.13 |
| DT-1-FWP | Diesel Storage Tank | Diesel | 0.01 | <0.01 |
| DT-2-FWP | Diesel Storage Tank | Diesel | 0.01 | <0.01 |
| DT-3-FWP | Diesel Storage Tank | Diesel | 0.01 | <0.01 |
| DT-4-FWP | Diesel Storage Tank | Diesel | 0.01 | <0.01 |
| DT-5-FWP | Diesel Storage Tank | Diesel | 0.01 | <0.01 |
| DT-6-UTIL | Diesel Storage Tank | Diesel | 0.01 | <0.01 |
| DT-7-EG | Diesel Storage Tank | Diesel | 0.01 | <0.01 |
| FA-4605 | 10 percent Hydrochloric Acid Tank | HCl | 0.10 | <0.01 |
| FA-4609 | 10 percent Hydrochloric Acid Tank | HCl | 0.10 | <0.01 |
| FA-4610 | 10 percent Hydrochloric Acid Tank | HCl | 0.10 | <0.01 |
| FA-3204 | 10 percent Ethylene Glycol Tank | EG | 0.10 | <0.01 |

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|--------------------------------|-----------------------|-----------------------------|----------------|-------|
| | | | lb/hr | TPY** |
| FB-6404 | Sodium Hydroxide Tank | NaOH | 0.49 | 0.07 |
| FB-6480 | Sodium Hydroxide Tank | NaOH | 0.20 | 0.03 |
| FB-6470 | Solvent Storage Tank | VOC | 25.74 | 0.96 |
| COOLTWR | Cooling Tower | PM | <0.01 | <0.01 |
| | | Cl ₂ | 0.91 | 4.00 |
| COOLTWR-2 | East Cooling Tower | PM | <0.01 | <0.01 |
| | | Cl ₂ | 0.91 | 4.00 |

(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

HCl - hydrogen chloride

VCM - vinyl chloride monomer

Cl₂ - chlorine

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

PM₁₀ - particulate matter less than 10 microns in diameter. Where PM is not listed, it shall be

assumed that no PM greater than 10 microns is emitted.

SO₂ - sulfur dioxide

NO_x - total oxides of nitrogen

CO - carbon monoxide

EDC - ethylene dichloride

CHCL₃ - chloroform

NaOH - sodium hydroxide

(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

(5) Maintenance operations only. Emissions from these EPNs are only from these permitted facilities

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

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|---------------|----------|-----------------|----------------|-------|
| Point No. (1) | Name (2) | Name (3) | lb/hr | TPY** |

schedule:

_____Hrs/day _____Days/week _____Weeks/year or 8,760 Hrs/year

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

Dated August 27, 2007