

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 9074

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<br>*<br>Point No. (1) | Source<br>Name (2)                             | Air Contaminant<br>Name (3) | <u>Emission Rates</u> |       |
|--------------------------------|--|-----------------------------|-----------------------|-------|
|                                |  |                             | lb/hr                 | TPY   |
| 94                             | PCE Barge Unloading                            | PCE                         | 1.18                  | 0.057 |
| 96                             | PCE Fugitives                                  | PCE                         | 0.11                  | 0.46  |
| 102                            | PCE Tank                                       | PCE                         | 0.483                 | 0.223 |
| 120                            | Emergency Generator<br>No. 1                   | SO <sub>2</sub>             | 0.82                  | 0.01  |
|                                |  | NO <sub>x</sub>             | 9.62                  | 0.13  |
|                                |  | TSP                         | 0.96                  | 0.01  |
|                                |  | CO                          | 2.5                   | 0.03  |
|                                |  | VOC                         | 0.25                  | 0.003 |
| 121                            | Waste Treatment<br>Scrubber System             | HCl                         | 0.92                  | 0.28  |
|                                |  | Cl <sub>2</sub>             | 0.29                  | 0.011 |
|                                |  | FC                          | 84.0                  | 18.4  |
| 122<br>0.13                    | Main Sniff Scrubber<br>(Through June 30, 1996) | HCl                         | 0.02                  | 0.09  |
|                                |  | Cl <sub>2</sub>             |                       | 0.03  |
|                                |  | FC                          | 0.09                  | 0.39  |
| 122                            | Main Sniff Scrubber<br>(After June 30, 1996)   | HCl                         | 0.02                  | 0.09  |
|                                |  | Cl <sub>2</sub>             | 0.03                  | 0.13  |
| 123                            | Fugitive Emissions (4)                         | HCl                         | 0.0092                | 0.04  |
| 126                            | Fugitive Emissions (4)                         | HCl                         | 0.117                 | 0.512 |

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| Emission<br>*        | Source                                     | Air Contaminant               | <u>Emission Rates</u> |        |
|----------------------|--|-------------------------------|-----------------------|--------|
| <u>Point No. (1)</u> | <u>Name (2)</u>                            | <u>Name (3)</u>               | <u>lb/hrTPY</u>       |        |
| 135                  | Backup Sniff Scrubber                      | HCl                           | 0.02                  | 0.09   |
| 0.13                 | (Through June 30, 1996)                    | Cl <sub>2</sub>               | 0.03                  |        |
|                      |  | FC                            | 0.09                  | 0.39   |
| 135                  | Backup Sniff Scrubber                      | HCl                           | 0.02                  | 0.09   |
|                      | (After June 30, 1996)                      | Cl <sub>2</sub>               | 0.03                  | 0.13   |
| 166                  | H <sub>2</sub> O <sub>2</sub> Storage Tank | H <sub>2</sub> O <sub>2</sub> | 0.32                  | 0.0038 |
| 170                  | Boiler                                     | SO <sub>2</sub>               | 8.33                  | 32.84  |
|                      |  | NO <sub>x</sub>               | 12.83                 | 50.58  |
|                      |  | TSP                           | 0.8                   | 3.16   |
|                      |  | CO                            | 24.86                 | 98.01  |
|                      |  | VOC                           | 4.49                  | 17.7   |
| 175                  | Fugitive Emissions (4)                     | FC                            | 0.86                  | 3.78   |
| 179                  | Cooling Tower                              | TSP                           | 1.6                   | 7.01   |
| 186                  | Neutralizer Vent                           | FC                            | 0.47                  | 2.06   |
|                      | (Through June 30, 1996)                    |                               |                       |        |
|                      | Process A                                  |                               |                       |        |
|                      | Process B                                  | FC                            | 0.46                  | 2.02   |
| 186                  | Neutralizer Vent                           | FC                            | 0.20                  | 0.90   |
|                      | (After June 30, 1996)                      |                               |                       |        |
| 187                  | Fugitive Emissions (4)                     | FC                            | 8.622                 | 37.731 |
|                      | (Through June 30, 1996)                    |                               |                       |        |
| 187                  | Fugitive Emissions (4)                     | FC                            | 2.45                  | 10.73  |
|                      | (After June 30, 1996)                      | HF                            | 0.0284                | 0.124  |
|                      |  | HCl                           | 0.0318                | 0.139  |

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| Emission<br>* | Source   | Air Contaminant | <u>Emission Rates</u> |        |
|---------------|--|-----------------|-----------------------|--------|
| Point No. (1) | Name (2)   | Name (3)        | lb/hrTPY              |        |
|               |  | VCM             | 0.0831                | 0.364  |
|               |  | H <sub>2</sub>  | 0.065                 | 0.285  |
| 188           | Emergency Vent<br>(Through June 30, 1996)<br>Process A | FC              | 410.00                | 0.269  |
|               | Process B  | FC              | 410.00                | 0.222  |
| 189<br>8.06   | Afterburner Stack Process A<br>(Through June 30, 1996) | FC              |                       | 1.84   |
| 4.4           |  | NO <sub>x</sub> |                       | 1.0    |
|               |  | CO              | 1.0                   | 4.4    |
|               |  | TSP             | 0.3                   | 1.3    |
|               |  | VOC             | 0.2                   | 0.9    |
|               |  | SO <sub>2</sub> | 0.1                   | 0.4    |
|               |  | HCl             | 0.0008                | 0.0035 |
|               |  | HF              | 0.0018                | 0.008  |
|               |  | Cl <sub>2</sub> | 0.12                  | 0.43   |
|               | Process B<br>(Through June 30, 1996)                   | FC              | 1.58                  | 6.92   |
| 4.4           |  | NO <sub>x</sub> |                       | 1.0    |
|               |  | CO              | 1.0                   | 4.4    |
|               |  | TSP             | 0.3                   | 1.3    |
|               |  | VOC             | 0.2                   | 0.9    |
|               |  | SO <sub>2</sub> | 0.1                   | 0.4    |
|               |  | HCl             | 0.0007                | 0.003  |
|               |  | HF              | 0.0018                | 0.008  |
|               |  | Cl <sub>2</sub> | 0.12                  | 0.43   |
| 189           | Sniff Scrubber Stack                                   | FC              | 0.01                  | 0.0025 |

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AIR CONTAMINANTS DATA

| Emission<br>*        | 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> |
|                      | (After June 30, 1996) | HCl             | 0.01                  | 0.0005     |
|                      |                       | HF              | 0.01                  | 0.0005     |
| 191                  | Carbon Canister 1     | FC              | 5.00                  | 0.5        |

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| Emission<br>* | Source                  | Air Contaminant | <u>Emission Rates</u> |         |
|---------------|-------------------------|-----------------|-----------------------|---------|
| Point No. (1) | Name (2)                | Name (3)        | lb/hrTPY              |         |
| 192           | Afterburner Stack       | FC              | 1.87                  | 8.19    |
| 3.9           | (Through June 30, 1996) | NO <sub>x</sub> |                       | 0.89    |
|               |                         | CO              | 0.54                  | 2.37    |
|               |                         | TSP             | 0.23                  | 1.01    |
|               |                         | VOC             | 0.84                  | 1.84    |
|               |                         | SO <sub>2</sub> | 0.12                  | 0.53    |
|               |                         | Benzene         | <0.001                | <0.001  |
|               |                         | HF              | 0.192                 | 0.84    |
|               |                         | HCl             | 0.135                 | 0.59    |
|               |                         | Cl <sub>2</sub> | 0.00253               | 0.0111  |
| 192           | Afterburner Stack       | FC              | 1.87                  | 8.19    |
|               | (After June 30, 1996)   | NO <sub>x</sub> | 0.89                  | 3.9     |
|               |                         | CO              | 0.54                  | 2.37    |
|               |                         | TSP             | 0.23                  | 1.01    |
|               |                         | VOC             | 0.84                  | 1.84    |
|               |                         | SO <sub>2</sub> | 0.12                  | 0.53    |
|               |                         | Benzene         | <0.001                | <0.001  |
|               |                         | VCM             | <0.001                | 0.002   |
|               |                         | HF              | 0.192                 | 0.84    |
|               |                         | HCl             | 0.135                 | 0.59    |
|               |                         | Cl <sub>2</sub> | 0.0033                | 0.0145  |
| 193           | Fugitive Emissions (4)  | FC              | 3.35                  | 14.68   |
| <0.001        | (Through June 30, 1996) | Benzene         |                       | <0.001  |
|               |                         | HCl             | 0.004                 | 0.0175  |
| 193           | Fugitive Emissions (4)  | FC              | 4.34                  | 19.02   |
|               | (After June 30, 1996)   | Benzene         | 0.00003               | 0.00012 |
|               |                         | HCl             | 0.006                 | 0.0262  |
|               |                         | VCM             | 0.0168                | 0.0074  |
| 194           | Emergency Generator     | SO <sub>2</sub> | 0.82                  | 0.01    |
|               | No. 3                   | NO <sub>x</sub> | 9.02                  | 0.12    |
|               |                         | TSP             | 0.65                  | 0.01    |
|               |                         | CO              | 1.96                  | 0.03    |

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| Emission<br>* | Source                       | Air Contaminant | <u>Emission Rates</u> |       |
|---------------|------------------------------|-----------------|-----------------------|-------|
| Point No. (1) | Name (2)                     | Name (3)        | lb/hrTPY              |       |
| 197           | Carbon Canister No. 2        | VOC             | 0.72                  | 0.01  |
|               |                              | FC              | 12.5                  | 2.74  |
|               |                              | HF              | 0.02                  | 0.01  |
|               |                              | Cl <sub>2</sub> | 0.80                  | 0.17  |
|               |                              | HCl             | 8.04                  | 1.76  |
| 210           | Emergency Fire Pump<br>No. 1 | SO <sub>2</sub> | 0.41                  | 0.01  |
|               |                              | NO <sub>x</sub> | 4.51                  | 0.12  |
|               |                              | TSP             | 0.32                  | 0.008 |
|               |                              | CO              | 0.98                  | 0.026 |
|               |                              | VOC             | 0.36                  | 0.009 |
| 211           | 50 percent Caustic Tank NaOH |                 | 0.097                 | 0.234 |
| 215<br>0.03   | Emergency Fire Pump No. 2    | SO <sub>2</sub> |                       | 1.23  |
|               |                              | NO <sub>x</sub> | 13.53                 | 0.35  |
|               |                              | TSP             | 0.97                  | 0.025 |
|               |                              | CO              | 2.94                  | 0.077 |
|               |                              | VOC             | 1.08                  | 0.028 |
| 227           | Uni-Cage Bin Filter          | TSP             | 0.15                  | 0.005 |
| 231           | Therminol Heater             | SO <sub>2</sub> | 1.3                   | 5.7   |
|               |                              | NO <sub>x</sub> | 3.18                  | 13.95 |
|               |                              | TSP             | 0.11                  | 0.5   |
|               |                              | CO              | 0.8                   | 3.49  |
|               |                              | VOC             | 0.06                  | 0.28  |
| 237           | Hot Air Heater               | SO <sub>2</sub> | 0.43                  | 1.9   |
|               |                              | NO <sub>x</sub> | 0.75                  | 3.3   |
|               |                              | TSP             | 0.04                  | 0.17  |
|               |                              | CO              | 0.15                  | 0.66  |
|               |                              | VOC             | 0.04                  | 0.18  |

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| Emission<br>* | Source                       | Air Contaminant | <u>Emission Rates</u> |       |
|---------------|------------------------------|-----------------|-----------------------|-------|
| Point No. (1) | Name (2)                     | Name (3)        | lb/hrTPY              |       |
| 244           | Emergency Generator<br>No. 2 | SO <sub>2</sub> | 0.82                  | 0.01  |
|               |                              | NO <sub>x</sub> | 9.02                  | 0.12  |
|               |                              | TSP             | 0.64                  | 0.01  |
|               |                              | CO              | 1.96                  | 0.03  |
|               |                              | VOC             | 0.72                  | 0.01  |
| 245           | Fugitive Emissions (4) FC    |                 | 3.877                 | 16.98 |
| 1.879         | (Through June 30, 1996)      | VOC             |                       | 0.429 |
|               |                              | HF              | 0.057                 | 0.25  |
|               |                              | HCl             | 0.088                 | 0.385 |
|               |                              | Cl <sub>2</sub> | 0.046                 | 0.201 |
|               |                              | H <sub>2</sub>  | 0.0153                | 0.067 |
| 245           | Fugitive Emissions (4) FC    |                 | 3.877                 | 16.98 |
|               | (After June 30, 1996) VOC    |                 | 0.429                 | 1.879 |
|               |                              | HF              | 0.067                 | 0.293 |
|               |                              | HCl             | 0.088                 | 0.385 |
|               |                              | Cl <sub>2</sub> | 0.046                 | 0.201 |
|               |                              | H <sub>2</sub>  | 0.0153                | 0.067 |
| 247           | Spray Scrubber               | HF              | 0.08                  | 0.03  |
| 0.09          | (Through June 30, 1996)      | HCl             |                       | 0.08  |
|               |                              | Cl <sub>2</sub> | 0.09                  | 0.23  |
|               |                              | FC              | 26.0                  | 2.85  |
| 247           | Spray Scrubber               | HF              | 0.106                 | 0.038 |
|               | (After June 30, 1996) HCl    |                 | 0.049                 | 0.09  |
|               |                              | Cl <sub>2</sub> | 0.11                  | 0.23  |
|               |                              | FC              | 26.0                  | 2.85  |
| 251           | CC-97 Pilot Plant            | HCl             | <0.001                | 0.003 |
|               |                              | H <sub>2</sub>  | 7.00                  | 30.70 |

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

- (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) PCE - perchloroethylene
- NO<sub>x</sub> - total oxides of nitrogen
  - CO - carbon monoxide
  - FC - fluorocarbons
  - HCl - hydrogen chloride
  - HF - hydrogen fluoride
  - Cl<sub>2</sub> - chlorine
  - TSP - total suspended particulate matter
  - SO<sub>2</sub> - sulfur dioxide
  - VOC - volatile organic compound
  - H<sub>2</sub>O<sub>2</sub> - hydrogen peroxide
  - H<sub>2</sub> - hydrogen
  - NaOH - sodium hydroxide
  - VCM - vinyl chloride monomer
- (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 \_\_\_\_\_ Days/week \_\_\_\_\_ Weeks/year \_\_\_\_\_ /or Hrs/year 8,760

Dated \_\_\_\_\_