

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 9597

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>* | Source          | Air Contaminant  | <u>Emission Rates</u> |       |
|---------------|-----------------|------------------|-----------------------|-------|
| Point No. (1) | Name (2)        | Name (3)         | <u>lb/hr</u>          |       |
|               | TPY**           |                  |                       |       |
| Y-C-1         | Furnace F-9180  | VOC              | 0.03                  | 0.12  |
|               |                 | PM <sub>10</sub> | 0.04                  | 0.17  |
|               |                 | NO <sub>x</sub>  | 0.49                  | 2.15  |
|               |                 | CO               | 0.42                  | 1.81  |
|               |                 | SO <sub>2</sub>  | 0.01                  | 0.01  |
| Y-C-101       | Furnace F-91180 | VOC              | 0.04                  | 0.16  |
|               |                 | PM <sub>10</sub> | 0.05                  | 0.22  |
|               |                 | NO <sub>x</sub>  | 0.64                  | 2.80  |
|               |                 | CO               | 0.54                  | 2.35  |
|               |                 | SO <sub>2</sub>  | 0.01                  | 0.01  |
| Y-C-201       | Furnace F-91280 | VOC              | 0.03                  | 0.11  |
|               |                 | PM <sub>10</sub> | 0.04                  | 0.15  |
|               |                 | NO <sub>x</sub>  | 0.46                  | 2.02  |
|               |                 | CO               | 0.39                  | 1.70  |
|               |                 | SO <sub>2</sub>  | 0.01                  | 0.01  |
| Y-C-301       | Furnace F-91380 | VOC              | 0.03                  | 0.11  |
|               |                 | PM <sub>10</sub> | 0.04                  | 0.15  |
|               |                 | NO <sub>x</sub>  | 0.46                  | 2.02  |
|               |                 | CO               | 0.39                  | 1.70  |
|               |                 | SO <sub>2</sub>  | 0.01                  | 0.01  |
| Y-D-1         | Flare X-9845    | VOC              | 5.60                  | 11.72 |
|               |                 | NO <sub>x</sub>  | 3.97                  | 3.20  |
|               |                 | PM <sub>10</sub> | 0.03                  | 0.14  |

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|---------------------------|------------------------------|-----------------------------|------------------|-------|
|                           |                              |                             | lb/hr            | TPY** |
|                           |                              | CO                          | 9.19             | 15.86 |
| Y-D-201                   | Flare X-98245                | VOC                         | 10.64            | 11.15 |
|                           |                              | NO <sub>x</sub>             | 0.74             | 1.27  |
|                           |                              | SO <sub>2</sub>             | 0.01             | 0.01  |
|                           |                              | CO                          | 4.90             | 7.53  |
| Y-D-2                     | Flare X-9846                 | VOC                         | 5.00             | 0.38  |
|                           |                              | NO <sub>x</sub>             | 0.75             | 3.84  |
|                           |                              | PM <sub>10</sub>            | 40.98            | 16.92 |
|                           |                              | CO                          | 3.86             | 20.11 |
| Y-D-3                     | Caustic Scrubber R-9450/9460 | VOC                         | 0.65             | 1.45  |
|                           |                              | PM <sub>10</sub>            | 9.80             | 17.51 |
| Y-D-203                   | Caustic Scrubber R-94260     | VOC                         | 0.84             | 2.96  |
|                           |                              | PM <sub>10</sub>            | 8.58             | 19.16 |
| Y-D-4                     | Lime Scrubber R-94150        | VOC                         | 0.09             | 0.18  |
|                           |                              | PM <sub>10</sub>            | 1.40             | 5.24  |
|                           |                              | Silicone Tetrafluoride      | 0.30             | 1.00  |
| Y-D-204                   | Lime Scrubber R-94250        | VOC                         | 0.10             | 0.38  |
|                           |                              | PM <sub>10</sub>            | 1.18             | 5.14  |
|                           |                              | Silicone Tetrafluoride      | 0.46             | 1.06  |
| Y-E-1                     | Seal Pot D-9102 Vent         | VOC                         | 0.02             | 0.02  |
| Y-E-201                   | Seal Pot D-91202 Vent        | VOC                         | 0.01             | 0.01  |
| Y-E-2                     | Oil Scrubbers D-9104/D-91104 | VOC                         | 0.53             | 0.91  |
|                           |                              | PM <sub>10</sub>            | 3.63             | 3.16  |
| Y-E-202                   | Oil Scrubber D-91204         | VOC                         | 0.40             | 0.88  |
|                           |                              | PM <sub>10</sub>            | 6.48             | 0.96  |

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|---------------------------|-------------------------------|-----------------------------|------------------|-------|
|                           |                               |                             | lb/hr            | TPY** |
| Y-E-3                     | Scrubber S-9550               | HCl                         | 0.06             | 0.12  |
| Y-E-303                   | Scrubber S-9537               | HCl                         | 0.06             | 0.12  |
| Y-E-4                     | Baghouse SF-9620, SF-9621     | PM <sub>10</sub>            | 0.02             | 0.08  |
| Y-E-5                     | Baghouse B-9420, SF-9420A/B   | PM <sub>10</sub>            | 0.10             | 0.37  |
| Y-E-105                   | Baghouse B-94120, SF-94120A/B | PM <sub>10</sub>            | 0.10             | 0.37  |
| Y-E-205                   | Baghouse B-94220, SF-94220A/B | PM <sub>10</sub>            | 0.09             | 0.41  |
| Y-E-305                   | Baghouse B-94320, SF-94320    | PM <sub>10</sub>            | 0.09             | 0.41  |
| Y-E-6                     | Baghouse B-9440               | PM <sub>10</sub>            | 0.38             | 1.47  |
| Y-E-7                     | Vent VP-9840                  | VOC                         | 0.09             | 0.11  |
| Y-E-207                   | Vent VP-98240                 | VOC                         | 0.04             | 0.17  |
| Y-E-8/Y-E-108             | Filters SF-9514/SF-95114      | PM <sub>10</sub>            | 0.01             | 0.01  |
| Y-E-9/Y-E-109             | Filters SF-9524/SF-95124      | PM <sub>10</sub>            | 0.01             | 0.01  |
| Y-E-10/Y-E-110            | Filters SF-9534/SF-95134      | PM <sub>10</sub>            | 0.01             | 0.01  |
| Y-E-11                    | Filter SF-9624                | PM <sub>10</sub>            | 0.01             | 0.02  |
| Y-E-12                    | Filter SF-9610                | PM <sub>10</sub>            | 0.01             | 0.02  |
| Y-E-13                    | Filter SF-9160                | PM <sub>10</sub>            | 0.01             | 0.01  |
| Y-E-213                   | Filter SF-91260               | PM <sub>10</sub>            | 0.01             | 0.01  |
| Y-E-14                    | Vent LE-14                    | PM <sub>10</sub>            | 3.42             | 0.37  |

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|---------------------------|--|-----------------------------|------------------|-------|
|                           |  |                             | lb/hr            | TPY** |
| Y-E-15                    | Vent LE-7B   | VOC                         | 0.01             | 0.03  |
| Y-E-16/Y-E-116            | Vent K-9230/K-92130  | PM <sub>10</sub>            | 0.01             | 0.01  |
| Y-E-216                   | Vent K-92230   | PM <sub>10</sub>            | 0.01             | 0.01  |
| Y-E-316                   | Vent K-92330   | PM <sub>10</sub>            | 0.01             | 0.01  |
| Y-E-17                    | Vent VP-9394   | VOC                         | 0.04             | 0.08  |
|                           |  | PM <sub>10</sub> 0.02       | 0.07             |       |
| Y-E-17A                   | VP-9395/VP-9397  | VOC                         | 0.04             | 0.12  |
|                           |  | PM <sub>10</sub> 0.03       | 0.07             |       |
| Y-E-18/Y-E-118            | R-9510/9520/9530/9540 Annulus<br>1.63<br>R-95110/95120/95130/95140/95150/<br>95160/95170 Annulus |                             | PM <sub>10</sub> | 0.45  |
| Y-E-19/Y-E-119            | K-9240/K-92140   | PM <sub>10</sub>            | 0.01             | 0.01  |
| Y-E-219                   | K-92240  | PM <sub>10</sub>            | 0.01             | 0.01  |
| Y-E-319                   | K-92340  | PM <sub>10</sub>            | 0.01             | 0.01  |
| Y-E-20                    | Filter SF-9655   | PM <sub>10</sub>            | 0.01             | 0.01  |
| Y-E-21                    | Filter SF-9615   | PM <sub>10</sub>            | 0.01             | 0.02  |
| Y-E-22/Y-E-122            | Filter SF-9544/SF-95144  | PM <sub>10</sub>            | 0.01             | 0.01  |
| Y-E-23/Y-E-123            | Vent K-9511/K-95111  | PM <sub>10</sub>            | 0.02             | 0.03  |
| Y-E-24                    | Vent K-9521  | PM <sub>10</sub>            | 0.01             | 0.02  |

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|---------------------------|---------------------------|-----------------------------|------------------|-------|
|                           |                           |                             | lb/hr            | TPY** |
| Y-E-25                    | Filter LE-23              | VOC                         | 0.03             | 0.06  |
| Y-E-26                    | Vent LE-42                | VOC                         | 0.01             | 0.02  |
| Y-E-27                    | Vent LE-47                | VOC                         | 0.01             | 0.02  |
| Y-E-28                    | Vent K-9250               | PM <sub>10</sub>            | 0.01             | 0.01  |
| Y-E-129                   | Filter SF-95154           | PM <sub>10</sub>            | 0.01             | 0.01  |
| Y-E-229                   | Filter SF-95254           | PM <sub>10</sub>            | 0.01             | 0.01  |
| Y-GZ-1                    | Fugitives (4)             | VOC                         | 8.24             | 36.10 |
|                           |                           | Silane Compounds            | 3.76             | 16.51 |
|                           |                           | Silicone Tetrafluoride      | 0.32             | 1.56  |
|                           |                           | HCl 0.26                    | 0.98             |       |
| Y-GZ-2                    | SAF Loading Fugitives (4) | VOC                         | 0.01             | 0.01  |
|                           |                           | PM <sub>10</sub> 0.94       | 0.86             |       |
| Y-GZ-202                  | SAF Loading Fugitives (4) | VOC                         | 0.01             | 0.01  |
|                           |                           | PM <sub>10</sub> 0.56       | 0.51             |       |
| Y-GZ-302                  | SAF Loading Fugitives (4) | VOC                         | 0.01             | 0.01  |
|                           |                           | PM <sub>10</sub> 0.56       | 0.51             |       |

(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<sub>x</sub> - total oxides of nitrogen

PM<sub>10</sub> - particulate matter equal to or less than 10 microns in diameter.

CO - carbon monoxide

HCl - hydrogen chloride

SO<sub>2</sub> - sulfur dioxide

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

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|---------------------------|--------------------|-----------------------------|------------------|-------|
|                           |                    |                             | lb/hr            | TPY** |

\* Emission rates are based on and the facilities are limited by the following maximum operating 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 February 26, 2007