

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES  
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Permit Nos. 9868A and PSD-TX-102M4

EMISSION CAP TABLE

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.

See Attachment I for Source Name and Emission Point Number Index.

VOC EMISSION CAP

| Source Name                                    | Year           | lb/hr | TPY   |
|--|----------------|-------|-------|
| Flares   | 1995 (Initial) | 11071 | 10202 |
| Fired Units (Furnaces, Heaters, Boilers, etc.) | 1996           | 10978 | 10134 |
| FCCU CO Boilers                                | 1997           | 10776 | 9912  |
| Engines  | 1998           | 8908  | 9795  |
| Cooling Towers                                 | 1999           | 4941  | 9374  |
| Wastewater (4)                                 | 2000           | 4399  | 7396  |
| Tanks  | 2001           | 4229  | 7140  |
| Truck and Rail Loading                         | 2002           | 4068  | 6718  |
| Fugitives (4)                                  | 2003           | 3760  | 6320  |
| Incinerators                                   | 2004           | 3436  | 5924  |
| Vents (56V1)                                   | 2005           | 3111  | 5552  |
|  | 2006 (Final)   | 2329  | 5082  |

NO<sub>x</sub> EMISSION CAP

| Source Name                                    | Year           | lb/hr | TPY  |
|--|----------------|-------|------|
| Flares   | 1995 (Initial) | 2082  | 4632 |
| Fired Units (Furnaces, Heaters, Boilers, etc.) | 1996           | 2014  | 4632 |
| FCCU CO Boilers                                | 1997           | 1957  | 4632 |
| Engines  | 1998           | 1957  | 4632 |
| Incinerators                                   | 1999           | 1843  | 4452 |
|  | 2000           | 1753  | 3699 |
|  | 2001           | 1697  | 3456 |
|  | 2002           | 1590  | 3115 |

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|                              |      |      |
|------------------------------|------|------|
| 2003                         | 1519 | 2802 |
| 2004                         | 1519 | 2804 |
| 2005                         | 1519 | 2810 |
| 2006 (Final)                 | 1626 | 2908 |
| SO <sub>2</sub> EMISSION CAP |      |      |

| Source Name                                    | Year           | lb/hr | TPY   |
|--|----------------|-------|-------|
| Flares   | 1995 (Initial) | 7128  | 12740 |
| Fired Units (Furnaces, Heaters, Boilers, etc.) | 1996           | 7004  | 12560 |
| FCCU CO Boilers                                | 1997           | 6880  | 12016 |
| Engines  | 1998           | 6880  | 12017 |
| Incinerators                                   | 1999           | 6877  | 12015 |
| Sulfur Handling                                | 2000           | 6850  | 11934 |
| Fugitives (4)                                  | 2001           | 6850  | 11934 |
| Wastewater (4)                                 | 2002           | 6847  | 11927 |
|  | 2003           | 6847  | 11927 |
|  | 2004           | 6848  | 11928 |
|  | 2005           | 6848  | 11929 |
|  | 2006 (Final)   | 6853  | 5201  |

CO EMISSION CAP

| Source Name                                    | Year           | lb/hr | TPY  |
|--|----------------|-------|------|
| Flares   | 1995 (Initial) | 1285  | 5305 |
| Fired Units (Furnaces, Heaters, Boilers, etc.) | 1996           | 1295  | 5305 |
| FCCU CO Boilers                                | 1997           | 1302  | 5305 |
| Engines  | 1998           | 1302  | 5305 |
| Incinerators                                   | 1999           | 1260  | 5305 |
|  | 2000           | 1204  | 4758 |
|  | 2001           | 1206  | 4765 |
|  | 2002           | 1164  | 4642 |
|  | 2003           | 1168  | 4606 |
|  | 2004           | 1173  | 4610 |
|  | 2005           | 1174  | 4618 |
|  | 2006 (Final)   | 1250  | 4947 |

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES  
PM EMISSION CAP

| Source Name                                    | Year           | lb/hr | TPY  |
|--|----------------|-------|------|
| Flares   | 1995 (Initial) | 271   | 1129 |
| Fired Units (Furnaces, Heaters, Boilers, etc.) | 1996           | 271   | 1129 |
| FCCU CO Boilers                                | 1997           | 271   | 1129 |
| Engines  | 1998           | 271   | 1129 |
| Incinerators                                   | 1999           | 271   | 1129 |
|  | 2000           | 261   | 1125 |
|  | 2001           | 261   | 1125 |
|  | 2002           | 261   | 1125 |
|  | 2003           | 261   | 1125 |
|  | 2004           | 261   | 1124 |
|  | 2005           | 261   | 1119 |
|  | 2006 (Final)   | 261   | 1111 |

H<sub>2</sub>S EMISSION CAP

| Source Name                                    | Year           | lb/hr | TPY |
|--|----------------|-------|-----|
| Flares   | 1995 (Initial) | 128   | 307 |
| Fired Units (Furnaces, Heaters, Boilers, etc.) | 1996           | 126   | 299 |
| FCCU CO Boilers                                | 1997           | 125   | 292 |
| Incinerators                                   | 1998           | 128   | 305 |
| Sulfur Handling                                | 1999           | 120   | 243 |
| Fugitives (4)                                  | 2000           | 43    | 115 |
| Wastewater (4)                                 | 2001           | 42    | 108 |
| Vent (32V1)                                    | 2002           | 42    | 108 |
| Tank (3003)                                    | 2003           | 42    | 108 |
|  | 2004           | 37    | 103 |
|  | 2005           | 38    | 104 |
|  | 2006 (Final)   | 37    | 97  |

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HCl EMISSION CAP

| Source Name   | Year           | lb/hr | TPY |
|---------------|----------------|-------|-----|
| Flares        | 1995 (Initial) | 13    | 30  |
| Fugitives (4) | 1996           | 13    | 30  |
|               | 1997           | 12    | 28  |
|               | 1998           | 12    | 28  |
|               | 1999           | 12    | 28  |
|               | 2000           | 5.7   | 25  |
|               | 2001           | 5.7   | 25  |
|               | 2002           | 5.7   | 25  |
|               | 2003           | 5.7   | 25  |
|               | 2004           | 5.7   | 25  |
|               | 2005           | 5.7   | 25  |
|               | 2006 (Final)   | 5.7   | 25  |

NH<sub>3</sub> EMISSION CAP

| Source Name    | Year           | lb/hr | TPY |
|----------------|----------------|-------|-----|
| Fugitives (4)  | 1995 (Initial) | 82    | 355 |
| Wastewater (4) | 1996           | 82    | 355 |
| Vent (32V1)    | 1997           | 82    | 355 |
| Tank (3003)    | 1998           | 82    | 355 |
|                | 1999           | 5     | 7   |
|                | 2000           |       | 2.0 |
| 5.4            | 2001           |       | 2.0 |
| 5.4            | 2002           |       | 2.0 |
| 5.4            | 2003           |       | 2.0 |
| 5.5            | 2004           |       | 2.0 |
| 5.5            | 2005           |       | 2.0 |
| 5.5            | 2006 (Final)   |       | 2.0 |
| 5.5            |                |       |     |

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HF EMISSION CAP

| Source Name   | Year           | lb/hr | TPY  |
|---------------|----------------|-------|------|
| Fugitives (4) | 1995 (Initial) | 0.56  | 2.44 |
|               | 1996           | 0.56  | 2.44 |
|               | 1997           | 0.56  | 2.44 |
|               | 1998           | 0.56  | 2.44 |
|               | 1999           | 0.56  | 2.44 |
|               | 2000           | 0.43  | 1.9  |
|               | 2001           | 0.43  | 1.9  |
|               | 2002           | 0.43  | 1.9  |
|               | 2003           | 0.43  | 1.9  |
|               | 2004           | 0.43  | 1.9  |
|               | 2005           | 0.43  | 1.9  |
|               | 2006 (Final)   | 0.43  | 1.9  |

SPECIATED VOC EMISSION CAPS

Benzene CAP

| Source Name            | Year           | lb/hr | TPY |
|------------------------|----------------|-------|-----|
| Flares                 | 1995 (Initial) | 47    | 78  |
| Tanks                  | 1996           | 45    | 75  |
| Truck and Rail Loading | 1997           | 42    | 68  |
| Fugitives (4)          | 1998           | 41    | 67  |
| Wastewater (4)         | 1999           | 22    | 65  |
|                        | 2000           | 14    | 35  |
|                        | 2001           | 13    | 34  |
|                        | 2002           | 13    | 33  |
|                        | 2003           | 13    | 33  |
|                        | 2004           | 12    | 32  |
|                        | 2005           | 12    | 32  |
|                        | 2006 (Final)   | 11    | 31  |

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES  
Cyclohexane CAP

| Source Name            | Year           | lb/hr | TPY |
|------------------------|----------------|-------|-----|
| Flares                 | 1995 (Initial) | 828   | 316 |
| Tanks                  | 1996           | 827   | 316 |
| Truck and Rail Loading | 1997           | 813   | 268 |
| Fugitives (4)          | 1998           | 308   | 223 |
| Wastewater (4)         | 1999           | 104   | 211 |
|                        | 2000           | 89    | 118 |
|                        | 2001           | 89    | 120 |
|                        | 2002           | 89    | 118 |
|                        | 2003           | 89    | 116 |
|                        | 2004           | 82    | 107 |
|                        | 2005           | 82    | 107 |
|                        | 2006 (Final)   | 74    | 95  |

Ethylbenzene CAP

| Source Name    | Year           | lb/hr | TPY |
|----------------|----------------|-------|-----|
| Flares         | 1995 (Initial) | 15    | 61  |
| Tanks          | 1996           | 15    | 61  |
| Fugitives (4)  | 1997           | 15    | 61  |
| Wastewater (4) | 1998           | 14    | 60  |
|                | 1999           | 13    | 55  |
|                | 2000           | 12    | 50  |
|                | 2001           |       | 1.8 |
| 6.8            |                |       |     |
|                | 2002           |       | 1.8 |
| 6.7            |                |       |     |
|                | 2003           |       | 1.8 |
| 6.7            |                |       |     |
|                | 2004           |       | 1.7 |
| 6.6            |                |       |     |
|                | 2005           |       | 1.7 |
| 6.6            |                |       |     |
|                | 2006 (Final)   |       | 1.6 |
| 6.6            |                |       |     |

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES  
Hexane CAP

| Source Name            | Year           | lb/hr | TPY |
|------------------------|----------------|-------|-----|
| Flares                 | 1995 (Initial) | 1353  | 400 |
| Tanks                  | 1996           | 1353  | 399 |
| Truck and Rail Loading | 1997           | 1333  | 368 |
| Fugitives (4)          | 1998           | 576   | 350 |
| Wastewater (4)         | 1999           | 163   | 341 |
|                        | 2000           | 111   | 141 |
|                        | 2001           | 112   | 144 |
|                        | 2002           | 111   | 140 |
|                        | 2003           | 112   | 121 |
|                        | 2004           | 112   | 119 |
|                        | 2005           | 112   | 119 |
|                        | 2006 (Final)   | 111   | 112 |

Toluene CAP

| Source Name    | Year           | lb/hr | TPY |
|----------------|----------------|-------|-----|
| Flares         | 1995 (Initial) | 104   | 110 |
| Tanks          | 1996           | 103   | 106 |
| Fugitives (4)  | 1997           | 102   | 102 |
| Wastewater (4) | 1998           | 76    | 101 |
|                | 1999           | 29    | 97  |
|                | 2000           | 22    | 59  |
|                | 2001           | 21    | 58  |
|                | 2002           | 21    | 57  |
|                | 2003           | 21    | 57  |
|                | 2004           | 20    | 56  |
|                | 2005           | 20    | 56  |
|                | 2006 (Final)   | 19    | 51  |

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES  
Xylene CAP

| Source Name    | Year           | lb/hr | TPY |
|----------------|----------------|-------|-----|
| Flares         | 1995 (Initial) | 15    | 67  |
| Tanks          | 1996           | 14    | 63  |
| Fugitives (4)  | 1997           | 14    | 63  |
| Wastewater (4) | 1998           | 13    | 63  |
|                | 1999           | 13    | 60  |
|                | 2000           | 7.9   | 41  |
|                | 2001           | 7.9   | 41  |
|                | 2002           | 7.8   | 41  |
|                | 2003           | 7.8   | 41  |
|                | 2004           | 7.6   | 41  |
|                | 2005           | 7.0   | 40  |
|                | 2006 (Final)   | 6.9   | 40  |

- (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 30 Texas Administrative Code Section 101.1  
 NO<sub>x</sub> - total oxides of nitrogen  
 SO<sub>2</sub> - sulfur dioxide  
 PM - particulate matter, suspended in the atmosphere, including PM<sub>10</sub>  
 PM<sub>10</sub> - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.  
 CO - carbon monoxide  
 H<sub>2</sub>S - hydrogen sulfide  
 HCl - hydrogen chloride  
 NH<sub>3</sub> - ammonia  
 HF - hydrogen fluoride
- (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 April 16, 2001