

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 4603

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

| <u>Emission</u><br>* | Source                                       | Air Contaminant       | <u>Emission</u> | <u>Rates</u> |
|----------------------|--|-----------------------|-----------------|--------------|
| <u>Point No. (1)</u> | <u>Name (2)</u>                              | <u>Name (3)</u> lb/hr |                 | <u>TPY</u>   |
| OX                   | Catalytic Oxidizer                           | VOC                   | 9.27            | 40.57        |
|                      |  | CO                    | 9.85            | 43.14        |
|                      |  | PM <sub>10</sub> 0.03 | 0.14            |              |
|                      |  | SO <sub>2</sub>       | <0.01           | <0.01        |
|                      |  | NO <sub>x</sub>       | 0.26            | 1.15         |
| TO-1                 | Thermal Oxidizer                             | VOC                   | 1.47            | 6.45         |
|                      |  | PM <sub>10</sub>      | 0.03            | 0.16         |
|                      |  | SO <sub>2</sub>       | 0.01            | 0.01         |
|                      |  | NO <sub>x</sub>       | 0.30            | 1.30         |
|                      |  | CO                    | 0.06            | 0.30         |
| BOIL-1               | Boiler (7)                                   | SO <sub>2</sub>       | 0.02            | 0.09         |
|                      |  | PM <sub>10</sub>      | 0.34            | 1.49         |
|                      |  | NO <sub>x</sub>       | 2.03            | 8.89         |
|                      |  | CO                    | 1.53            | 6.70         |
|                      |  | VOC                   | 0.07            | 0.31         |
| PHEN-1               | Caustic Scrubber for Phenol<br>0.27          |                       | VOC             | 0.06         |
|                      | Storage Tank Nos. RM-12,<br>RM-13, and RM-14 |                       |                 |              |
| 22                   | Glass Mat Resin Storage Tank<br>0.79         |                       | VOC             | 0.18         |
| PF                   | High-Pressure Laminating<br>0.66             |                       | VOC             | 0.15         |

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| Emission<br>* | Source                                       | Air Contaminant  | Emission | Rates |
|---------------|--|------------------|----------|-------|
| Point No. (1) | Name (2)                                     | Name (3)         | lb/hr    | TPY   |
|               | Resin Storage Tank                           |                  |          |       |
| W-1           | Weigh Tank (5)                               | VOC              | 0.48     | 2.15  |
| MEOH-1        | Methanol Storage Tank                        | VOC              | 0.13     | 0.60  |
| 2             | Resin Cooldown Tank No. 2<br>0.05            | VOC              |          | 0.01  |
| 12            | Resin Storage Tank No. 12<br>0.03            | VOC              |          | 0.01  |
| 33            | Resin Storage Tank No. 33<br>0.01            | VOC              |          | 0.01  |
| 38            | Resin Storage Tank No. 38<br>0.01            | VOC              |          | 0.01  |
| 43            | Resin Storage Tank No. 43<br>0.01            | VOC              |          | 0.01  |
| RM-15         | Precatalyst Tank No. RM-15 (6)<br><0.01      | VOC              |          | <0.01 |
| S-Silo        | Salt Silo Baghouse                           | PM <sub>10</sub> | 0.06     | 0.26  |
| F-Fugitives   | Fugitive Emissions, (4)<br>Formaldehyde Unit | VOC              | 0.35     | 1.53  |
| D-Fugitives   | Fugitive Emissions, (4)<br>Dowtherm Unit     | VOC              | 0.05     | 0.20  |
| R-Fugitives   | Fugitive Emissions, (4)<br>Resins Unit       | VOC              | 0.08     | 0.35  |

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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/hr</u>          | <u>TPY</u> |
| Diesel Tank          | Diesel Tank     | VOC             | <0.01                 | <0.01      |
| Truck Loading        | Truck Loading   | VOC             | 1.49                  | 6.53       |
| Rail Loading         | Railcar Loading | VOC             | 1.47                  | 6.44       |
| Truck Washing        | Truck Washing   | VOC (8)         | 1.44                  | 1.00       |
|                      |                 | Methanol (9)    | 24.19                 | 12.58      |

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- (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 General Rule 101.1  
PM<sub>10</sub> - particulate matter equal to or less than 10 microns in diameter  
SO<sub>2</sub> - sulfur dioxide  
NO<sub>x</sub> - total oxides of nitrogen  
CO - carbon monoxide
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Will vent to Thermal Oxidizer (EPN TO-1) for control, when the thermal oxidizer is installed.
- (6) Tank No. RM-15 was formerly RM-16.
- (7) The boiler is scheduled for installation in 1998 to replace existing grandfathered boilers. The boiler is listed here for informational purposes only. Construction of the boiler had not yet been authorized at the time that this permit was renewed. It is the responsibility of the permit holder to seek construction authorization under 30 TAC Chapter 116.
- (8) These VOCs from truck washing exclude methanol emissions, which are listed separately.
- (9) Methanol emission rates for this truck washing facility are calculated using worst-case methods and may not be used as rates for compliance purposes. The truck washing facility does not meet the definition of a "qualified facility" under 30 TAC Section 116.10 for methanol emissions.

\* 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 \_\_\_\_\_