

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 105

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>Point No. (1) | Source<br>Name (2)             | Air Contaminant<br>Name (3)           | Emission Rates * |       |
|---------------------------|--------------------------------|---------------------------------------|------------------|-------|
|                           |                                |                                       | lb/hr            | TPY   |
| 103                       | Toluene Storage                | Toluene                               | 0.25             | 0.46  |
| 104                       | Toluene Fugitives (4)          | Toluene                               | 0.09             | 0.38  |
| 113                       | NO <sub>x</sub> Reduction Unit | NO <sub>x</sub>                       | 6.00             | 13.00 |
|                           |                                | CO                                    | 4.00             | 8.70  |
|                           |                                | HCN                                   | 0.23             | 1.01  |
|                           |                                | DNT                                   | 0.11             | 0.50  |
|                           |                                | Toluene                               | 0.24             | 1.06  |
| 115                       | DNT Vent Scrubber              | DNT                                   | 0.07             | 0.30  |
| 124A                      | DNT Unit-1 Fugitives (4)       | MNT                                   | 0.01             | 0.02  |
|                           |                                | Toluene                               | 0.01             | 0.01  |
| 124B                      | DNT Unit-2 Fugitives (4)       | MNT                                   | 0.01             | 0.02  |
|                           |                                | Toluene                               | 0.01             | 0.01  |
| 152                       | DNT Feed Tank Vent             | DNT                                   | 0.04             | 0.02  |
| 153                       | Nitric Acid Loading/Unloading  | NO <sub>x</sub> (as NO <sub>2</sub> ) | 0.01             | 0.02  |
|                           |                                | HNO <sub>3</sub>                      | 0.03             | 0.14  |
|                           |                                | DNT                                   | 0.02             | 0.07  |
| 160                       | Acid Storage Tank Vent         | H <sub>2</sub> SO <sub>4</sub>        | 0.01             | 0.01  |
| 161                       | Acid Storage Tank Vent         | H <sub>2</sub> SO <sub>4</sub>        | 0.01             | (5)   |

|     |                        |                                       |      |       |
|-----|------------------------|---------------------------------------|------|-------|
| 162 | Acid Storage Tank Vent | NO <sub>x</sub> (as NO <sub>2</sub> ) | 0.11 | 0.40  |
|     |                        | CO                                    | 4.4  | 16.58 |
|     |                        | VOC                                   | 0.01 | 0.01  |
| 163 | Acid Storage Tank Vent | NO <sub>x</sub> (as NO <sub>2</sub> ) | 0.11 | (6)   |
|     |                        | CO                                    | 4.4  | (6)   |
|     |                        | VOC                                   | 0.01 | (6)   |
| 164 | Acid Storage Tank Vent | H <sub>2</sub> SO <sub>4</sub>        | 0.01 | 0.01  |
| 165 | Acid Storage Tank (7)  | H <sub>2</sub> SO <sub>4</sub>        | 0.01 | 0.01  |
|     |                        | NO <sub>x</sub> (as NO <sub>2</sub> ) | 0.11 | 0.02  |
|     |                        | CO                                    | 4.4  | 0.64  |
|     |                        | VOC                                   | 0.01 | 0.01  |
| 166 | Acid Storage Tank (7)  | H <sub>2</sub> SO <sub>4</sub>        | 0.01 | (8)   |
|     |                        | NO <sub>x</sub> (as NO <sub>2</sub> ) | 0.11 | (8)   |
|     |                        | CO                                    | 4.4  | (8)   |
|     |                        | VOC                                   | 0.01 | (8)   |
| 107 | Soda Ash Storage Tank  | Na <sub>2</sub> CO <sub>3</sub>       | 0.07 | 0.02  |

- (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) H<sub>2</sub>SO<sub>4</sub> - sulfuric acid  
NO<sub>x</sub> - total oxides of nitrogen  
NO<sub>2</sub> - nitrogen dioxide  
CO - carbon monoxide  
HCN - hydrogen cyanide  
HNO<sub>3</sub> - nitric acid  
DNT - dinitrotoluene  
MNT - mononitrotoluene  
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1  
Na<sub>2</sub>CO<sub>3</sub> - sodium carbonate

## EMISSIONS FROM SOURCE SUM MAXIMUM ALLOWABLE EMISSION RATES

## AIR CONTAMINANTS DATA

| Emission<br>Point No. (1) | Source<br>Name (2) | Air Contaminant<br>Name (3) | Emission Rates * |       |
|---------------------------|--------------------|-----------------------------|------------------|-------|
|                           |                    |                             | lb/hr            | TPY** |

- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Annual emissions from Emission Point No. (EPN) 161 are included in annual emission rate for EPN 160.
- (6) Annual emissions from EPN 163 are included in the annual emission rate for EPN 162.
- (7) Emissions from EPNs 165 and 166 will occur only when the tanks associated with EPNs 162 and 163 are out of service.
- (8) Annual emissions from EPN 166 are included in the annual emission rate for EPN 165. Annual emissions from these tanks are based on operation in this service for two weeks per year.

\* 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 limit is based on a rolling 12-month period.

Dated August 4, 2004