

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 9626

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                |                                     |                  |       |
| RDL-1                     | Spray Dryer No. 1  | PM <sub>10</sub> (4)                | 0.46             | 0.93  |
|                           |                    | SiO <sub>2</sub> (4)                | <0.01            | <0.01 |
|                           |                    | Na <sub>2</sub> SO <sub>4</sub> (4) | 0.06             | 0.12  |
|                           |                    | NO <sub>x</sub>                     | 0.77             | 1.54  |
|                           |                    | CO                                  | 1.18             | 2.36  |
|                           |                    | Formic Acid                         | 0.09             | 0.19  |
|                           |                    | Total VOC                           | 0.10             | 0.20  |
|                           |                    | SO <sub>2</sub>                     | <0.01            | <0.01 |
| RDL-2                     | Spray Dryer No. 2  | PM <sub>10</sub> (4)                | 0.46             | 0.93  |
|                           |                    | SiO <sub>2</sub> (4)                | <0.01            | <0.01 |
|                           |                    | Na <sub>2</sub> SO <sub>4</sub> (4) | 0.06             | 0.12  |
|                           |                    | NO <sub>x</sub>                     | 0.77             | 1.54  |
|                           |                    | CO                                  | 1.18             | 2.36  |
|                           |                    | Formic Acid                         | 0.09             | 0.19  |
|                           |                    | Total VOC                           | 0.10             | 0.20  |
|                           |                    | SO <sub>2</sub>                     | <0.01            | <0.01 |
| RDL-3                     | Ammonia Scrubber   | PM <sub>10</sub> (4)                | 0.46             | 0.70  |
|                           |                    | SiO <sub>2</sub> (4)                | <0.01            | <0.01 |
|                           |                    | Na <sub>2</sub> SO <sub>4</sub> (4) | 0.02             | 0.03  |
|                           |                    | NO <sub>x</sub>                     | 3.96             | 2.97  |
|                           |                    | NH <sub>3</sub>                     | 0.04             | 0.03  |
| RDL-5                     | Steam Boiler       | PM <sub>10</sub>                    | <0.01            | 0.02  |
|                           |                    | NO <sub>x</sub>                     | 0.05             | 0.20  |
|                           |                    | CO                                  | 0.04             | 0.17  |
|                           |                    | VOC                                 | <0.01            | 0.01  |
|                           |                    | SO <sub>2</sub>                     | <0.01            | <0.01 |

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| Emission<br>Point No. (1) | Source<br>Name (2)    | Air Contaminant<br>Name (3)         | Emission Rates * |        |
|---------------------------|-----------------------|-------------------------------------|------------------|--------|
|                           |                       |                                     | lb/hr            | TPY    |
| RDL-7                     | Dust Collector System | PM <sub>10</sub> (4)                | <0.001           | 0.002  |
|                           |                       | SiO <sub>2</sub> (4)                | <0.001           | <0.001 |
|                           |                       | Na <sub>2</sub> SO <sub>4</sub> (4) | <0.001           | <0.001 |
|                           |                       | NO <sub>x</sub>                     | 1.54             | 3.08   |
|                           |                       | CO                                  | 1.14             | 4.21   |
|                           |                       | Formic Acid                         | 0.08             | 0.33   |
|                           |                       | Total VOC                           | 0.09             | 0.36   |
|                           |                       | SO <sub>2</sub>                     | <0.01            | <0.01  |

(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 area name or fugitive source name.

(3) PM<sub>10</sub> - particulate matter (PM) 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.

SiO<sub>2</sub> - silicon oxide (crystalline quartz)

Na<sub>2</sub>SO<sub>4</sub> - sodium sulfate

NO<sub>x</sub> - total oxides of nitrogen

CO - carbon monoxide

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

NH<sub>3</sub> - ammonia

VOC - volatile organic compounds as defined in 30 Texas Administrative Code Section 101.1

(4) Overall PM<sub>10</sub> emission rates include SiO<sub>2</sub> and Na<sub>2</sub>SO<sub>4</sub> emission rates.

\* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

8,760 Hrs/year

Dated September 27, 2000