

Emission Sources - Maximum Allowable Emission Rates  
Permit Numbers 5783 and N57M1

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, sources, and related activities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

Air Contaminants Data

| Emission Point No.<br>(1) | Source Name (2) | Air Contaminant Name<br>(3) | Emission Rates |         |
|---------------------------|-----------------|-----------------------------|----------------|---------|
|                           |                 |                             | lbs/hour       | TPY (4) |
| B-101                     | Boiler          | NO <sub>x</sub>             | 0.71           | 3.12    |
|                           |                 | CO                          | 0.01           | 0.01    |
|                           |                 | SO <sub>2</sub>             | 0.01           | 0.06    |
|                           |                 | PM                          | 0.19           | 0.82    |
|                           |                 | PM <sub>10</sub>            | 0.19           | 0.82    |
|                           |                 | PM <sub>2.5</sub>           | 0.19           | 0.82    |
|                           |                 | VOC                         | 0.13           | 0.59    |
| B-102                     | Boiler          | NO <sub>x</sub>             | 0.78           | 3.39    |
|                           |                 | CO                          | 0.01           | 0.01    |
|                           |                 | SO <sub>2</sub>             | 0.01           | 0.06    |
|                           |                 | PM                          | 0.19           | 0.82    |
|                           |                 | PM <sub>10</sub>            | 0.19           | 0.82    |
|                           |                 | PM <sub>2.5</sub>           | 0.19           | 0.82    |
|                           |                 | VOC                         | 0.13           | 0.59    |
| B-103                     | Boiler          | NO <sub>x</sub>             | 0.53           | 2.30    |
|                           |                 | CO                          | 0.31           | 1.36    |
|                           |                 | SO <sub>2</sub>             | 0.01           | 0.06    |
|                           |                 | PM                          | 0.19           | 0.82    |
|                           |                 | PM <sub>10</sub>            | 0.19           | 0.82    |
|                           |                 | PM <sub>2.5</sub>           | 0.19           | 0.82    |

## Emission Sources - Maximum Allowable Emission Rates

|       |        |                   |      |      |
|-------|--------|-------------------|------|------|
|       |        | VOC               | 0.13 | 0.59 |
| B-104 | Boiler | NO <sub>x</sub>   | 0.55 | 2.41 |
|       |        | CO                | 0.50 | 2.19 |
|       |        | SO <sub>2</sub>   | 0.01 | 0.06 |
|       |        | PM                | 0.19 | 0.82 |
|       |        | PM <sub>10</sub>  | 0.19 | 0.82 |
|       |        | PM <sub>2.5</sub> | 0.19 | 0.82 |
|       |        | VOC               | 0.13 | 0.59 |
| B-201 | Boiler | NO <sub>x</sub>   | 0.27 | ---  |
|       |        | CO                | 0.07 | ---  |
|       |        | SO <sub>2</sub>   | 0.01 | ---  |
|       |        | PM                | 0.09 | ---  |
|       |        | PM <sub>10</sub>  | 0.09 | ---  |
|       |        | PM <sub>2.5</sub> | 0.09 | ---  |
|       |        | VOC               | 0.07 | ---  |
| B-202 | Boiler | NO <sub>x</sub>   | 0.23 | ---  |
|       |        | CO                | 0.24 | ---  |
|       |        | SO <sub>2</sub>   | 0.01 | ---  |
|       |        | PM                | 0.09 | ---  |
|       |        | PM <sub>10</sub>  | 0.09 | ---  |
|       |        | PM <sub>2.5</sub> | 0.09 | ---  |
|       |        | VOC               | 0.07 | ---  |
| B-203 | Boiler | NO <sub>x</sub>   | 0.26 | ---  |
|       |        | CO                | 0.13 | ---  |
|       |        | SO <sub>2</sub>   | 0.01 | ---  |

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|             |  |                   |      |      |
|-------------|--|-------------------|------|------|
|             |  | PM                | 0.09 | ---  |
|             |  | PM <sub>10</sub>  | 0.09 | ---  |
|             |  | PM <sub>2.5</sub> | 0.09 | ---  |
|             |  | VOC               | 0.07 | ---  |
| B-204       | Boiler                                       | NO <sub>x</sub>   | 0.20 | ---  |
|             |  | CO                | 0.06 | ---  |
|             |  | SO <sub>2</sub>   | 0.01 | ---  |
|             |  | PM                | 0.09 | ---  |
|             |  | PM <sub>10</sub>  | 0.09 | ---  |
|             |  | PM <sub>2.5</sub> | 0.09 | ---  |
|             |  | VOC               | 0.07 | ---  |
| B-201/2/3/4 | Boilers 201, 202, 203,<br>and 204 Annual Cap | NO <sub>x</sub>   | ---  | 3.39 |
|             |  | CO                | ---  | 1.78 |
|             |  | SO <sub>2</sub>   | ---  | 0.10 |
|             |  | PM                | ---  | 1.29 |
|             |  | PM <sub>10</sub>  | ---  | 1.29 |
|             |  | PM <sub>2.5</sub> | ---  | 1.29 |
|             |  | VOC               | ---  | 0.94 |
| B-105       | Boiler                                       | NO <sub>x</sub>   | 0.26 | 1.14 |
|             |  | CO                | 0.08 | 0.35 |
|             |  | SO <sub>2</sub>   | 0.01 | 0.03 |
|             |  | PM                | 0.09 | 0.40 |
|             |  | PM <sub>10</sub>  | 0.09 | 0.40 |
|             |  | PM <sub>2.5</sub> | 0.09 | 0.40 |
|             |  | VOC               | 0.07 | 0.29 |

## Emission Sources - Maximum Allowable Emission Rates

|       |                      |                   |       |      |
|-------|----------------------|-------------------|-------|------|
| B-106 | Boiler               | NO <sub>x</sub>   | 0.26  | 1.14 |
|       |                      | CO                | 0.07  | 0.31 |
|       |                      | SO <sub>2</sub>   | 0.01  | 0.03 |
|       |                      | PM                | 0.09  | 0.40 |
|       |                      | PM <sub>10</sub>  | 0.09  | 0.40 |
|       |                      | PM <sub>2.5</sub> | 0.09  | 0.40 |
|       |                      | VOC               | 0.07  | 0.29 |
| B-107 | Boiler               | NO <sub>x</sub>   | 0.24  | 1.03 |
|       |                      | CO                | 0.05  | 0.23 |
|       |                      | SO <sub>2</sub>   | 0.01  | 0.03 |
|       |                      | PM                | 0.09  | 0.40 |
|       |                      | PM <sub>10</sub>  | 0.09  | 0.40 |
|       |                      | PM <sub>2.5</sub> | 0.09  | 0.40 |
|       |                      | VOC               | 0.07  | 0.29 |
| B-108 | Boiler               | NO <sub>x</sub>   | 0.24  | 1.03 |
|       |                      | CO                | 0.07  | 0.30 |
|       |                      | SO <sub>2</sub>   | 0.01  | 0.03 |
|       |                      | PM                | 0.09  | 0.40 |
|       |                      | PM <sub>10</sub>  | 0.09  | 0.40 |
|       |                      | PM <sub>2.5</sub> | 0.09  | 0.40 |
|       |                      | VOC               | 0.07  | 0.29 |
| T20-1 | Fixed Roof (FR) Tank | VOC               | 11.71 | ---  |
| T20-2 | FR Tank              | VOC               | 11.71 | ---  |
| T20-3 | FR Tank              | VOC               | 11.71 | ---  |
| T20-4 | FR Tank              | VOC               | 11.71 | ---  |

## Emission Sources - Maximum Allowable Emission Rates

|        |         |     |       |     |
|--------|---------|-----|-------|-----|
| T30-1  | FR Tank | VOC | 11.71 | --- |
| T30-2  | FR Tank | VOC | 11.71 | --- |
| T80-1  | FR Tank | VOC | 35.14 | --- |
| T80-2  | FR Tank | VOC | 35.14 | --- |
| T80-3  | FR Tank | VOC | 35.14 | --- |
| T80-4  | FR Tank | VOC | 35.14 | --- |
| T80-5  | FR Tank | VOC | 35.14 | --- |
| T80-6  | FR Tank | VOC | 35.14 | --- |
| T80-7  | FR Tank | VOC | 35.14 | --- |
| T80-8  | FR Tank | VOC | 35.14 | --- |
| T80-9  | FR Tank | VOC | 35.14 | --- |
| T80-10 | FR Tank | VOC | 35.14 | --- |
| T80-11 | FR Tank | VOC | 35.14 | --- |
| T80-12 | FR Tank | VOC | 35.14 | --- |
| T80-13 | FR Tank | VOC | 35.14 | --- |
| T80-14 | FR Tank | VOC | 35.14 | --- |
| T80-15 | FR Tank | VOC | 35.14 | --- |
| T80-16 | FR Tank | VOC | 35.14 | --- |
| T80-17 | FR Tank | VOC | 35.14 | --- |
| T80-18 | FR Tank | VOC | 35.14 | --- |
| T80-19 | FR Tank | VOC | 35.14 | --- |
| T80-20 | FR Tank | VOC | 35.14 | --- |
| T80-21 | FR Tank | VOC | 35.14 | --- |
| T80-22 | FR Tank | VOC | 35.14 | --- |
| T80-23 | FR Tank | VOC | 35.14 | --- |

## Emission Sources - Maximum Allowable Emission Rates

|        |         |     |       |     |
|--------|---------|-----|-------|-----|
| T80-24 | FR Tank | VOC | 35.14 | --- |
| T80-25 | FR Tank | VOC | 35.14 | --- |
| T80-26 | FR Tank | VOC | 35.14 | --- |
| T80-27 | FR Tank | VOC | 35.14 | --- |
| T80-28 | FR Tank | VOC | 35.14 | --- |
| T80-29 | FR Tank | VOC | 35.14 | --- |
| T80-30 | FR Tank | VOC | 35.14 | --- |
| T80-31 | FR Tank | VOC | 35.14 | --- |
| T80-32 | FR Tank | VOC | 35.14 | --- |
| T80-33 | FR Tank | VOC | 35.14 | --- |
| T80-34 | FR Tank | VOC | 35.14 | --- |
| T80-35 | FR Tank | VOC | 35.14 | --- |
| T80-36 | FR Tank | VOC | 35.14 | --- |
| T80-37 | FR Tank | VOC | 35.14 | --- |
| T80-38 | FR Tank | VOC | 35.14 | --- |
| T175-1 | FR Tank | VOC | 46.86 | --- |
| T175-2 | FR Tank | VOC | 46.86 | --- |
| T175-3 | FR Tank | VOC | 46.86 | --- |
| T175-4 | FR Tank | VOC | 46.86 | --- |
| T200-1 | FR Tank | VOC | 58.57 | --- |
| T200-2 | FR Tank | VOC | 58.57 | --- |
| T200-3 | FR Tank | VOC | 58.57 | --- |
| T200-4 | FR Tank | VOC | 58.57 | --- |
| T200-5 | FR Tank | VOC | 58.57 | --- |
| T200-6 | FR Tank | VOC | 58.57 | --- |

## Emission Sources - Maximum Allowable Emission Rates

|                                     |                                   |     |       |              |
|-------------------------------------|-----------------------------------|-----|-------|--------------|
| T200-7                              | FR Tank                           | VOC | 58.57 | ---          |
| T200-8                              | FR Tank                           | VOC | 58.57 | ---          |
| T200-9                              | FR Tank                           | VOC | 58.57 | ---          |
| T250-1                              | Internal Floating Roof (IFR) Tank | VOC | 15.17 | ---          |
| T250-2                              | IFR Tank                          | VOC | 15.62 | ---          |
| T250-3                              | FR Tank                           | VOC | 58.57 | ---          |
| T250-4                              | FR Tank                           | VOC | 58.57 | ---          |
| T250-5                              | FR Tank                           | VOC | 58.57 | ---          |
| T250-6                              | FR Tank                           | VOC | 58.57 | ---          |
| T250-7                              | FR Tank                           | VOC | 58.57 | ---          |
| T250-8                              | FR Tank                           | VOC | 58.57 | ---          |
| TTRC-1                              | T/T Load                          | VOC | 3.07  | ---          |
| TTRC-2                              | T/T Load                          | VOC | 4.80  | ---          |
| <b>SOURCE GROUP TOTAL (VOC) (6)</b> |                                   |     |       | <b>66.00</b> |
| T30-3                               | FR Tank                           | VOC | 23.43 | ---          |
| T30-4                               | FR Tank                           | VOC | 23.43 | ---          |
| T30-5                               | FR Tank                           | VOC | 23.43 | ---          |
| T30-6                               | FR Tank                           | VOC | 23.43 | ---          |
| T325-1                              | FR Tank                           | VOC | 46.86 | ---          |
| T325-2                              | IFR Tank                          | VOC | 13.69 | ---          |
| T400-1                              | IFR Tank                          | VOC | 13.26 | ---          |
| T400-2                              | IFR Tank                          | VOC | 13.26 | ---          |
| T400-3                              | IFR Tank                          | VOC | 13.26 | ---          |
| T400-4                              | IFR Tank                          | VOC | 13.26 | ---          |
| T400-5                              | IFR Tank                          | VOC | 13.26 | ---          |

## Emission Sources - Maximum Allowable Emission Rates

|                                     |          |     |       |               |
|-------------------------------------|----------|-----|-------|---------------|
| T400-6                              | IFR Tank | VOC | 11.30 | ---           |
| T400-7                              | IFR Tank | VOC | 13.26 | ---           |
| T400-9                              | IFR Tank | VOC | 13.26 | ---           |
| T400-10                             | IFR Tank | VOC | 13.26 | ---           |
| <b>SOURCE GROUP TOTAL (VOC) (7)</b> |          |     |       | <b>121.77</b> |
| T3-1                                | FR Tank  | VOC | 0.11  | 0.02          |
| T10-1                               | FR Tank  | VOC | 1.15  | 0.02          |
| T11-1                               | FR Tank  | VOC | 0.01  | 0.01          |
| T13-1                               | FR Tank  | VOC | 1.15  | 0.02          |
| T13-2                               | FR Tank  | VOC | 1.15  | 0.02          |
| T30-11                              | FR Tank  | VOC | 7.73  | 0.77          |
| T30-12                              | FR Tank  | VOC | 7.73  | 0.77          |
| T30-13                              | FR Tank  | VOC | 7.73  | 0.77          |
| T30-14                              | FR Tank  | VOC | 12.45 | 0.67          |
| T30-15                              | FR Tank  | VOC | 12.45 | 0.67          |
| T30-16                              | FR Tank  | VOC | 12.45 | 0.67          |
| T30-17                              | FR Tank  | VOC | 12.45 | 0.67          |
| T30-18                              | FR Tank  | VOC | 12.45 | 0.67          |
| T30-19                              | FR Tank  | VOC | 12.45 | 0.67          |
| T37-1                               | FR Tank  | VOC | 0.85  | 0.05          |
| T37-2                               | FR Tank  | VOC | 0.85  | 0.05          |
| T38-1                               | FR Tank  | VOC | 5.70  | 0.24          |
| T90-1                               | FR Tank  | VOC | 0.74  | 0.16          |
| T90-2                               | FR Tank  | VOC | 0.74  | 0.16          |
| T95-1                               | FR Tank  | VOC | 12.45 | 2.14          |



## Emission Sources - Maximum Allowable Emission Rates

|         |             |     |       |      |
|---------|-------------|-----|-------|------|
| T95-2   | FR Tank     | VOC | 12.45 | 2.14 |
| T100-1  | FR Tank     | VOC | 12.45 | 0.85 |
| T100-2  | FR Tank     | VOC | 12.45 | 0.85 |
| T100-3  | FR Tank     | VOC | 12.45 | 2.24 |
| T100-4  | FR Tank     | VOC | 12.45 | 2.24 |
| T100-5  | FR Tank     | VOC | 0.09  | 0.17 |
| T100-6  | FR Tank     | VOC | 0.09  | 0.17 |
| T100-7  | FR Tank     | VOC | 0.09  | 0.17 |
| T100-8  | FR Tank     | VOC | 0.09  | 0.17 |
| T100-9  | FR Tank     | VOC | 0.09  | 0.17 |
| T100-10 | FR Tank     | VOC | 0.09  | 0.17 |
| T100-11 | FR Tank (8) | VOC | 0.09  | 0.17 |
| T100-12 | FR Tank (8) | VOC | 0.09  | 0.17 |
| T100-13 | FR Tank     | VOC | 0.09  | 0.10 |
| T100-14 | FR Tank     | VOC | 0.09  | 0.10 |
| T100-15 | FR Tank     | VOC | 0.09  | 0.10 |
| T100-16 | FR Tank     | VOC | 0.09  | 0.10 |
| T100-17 | FR Tank     | VOC | 0.09  | 0.10 |
| T100-18 | FR Tank     | VOC | 0.09  | 0.10 |
| T100-19 | FR Tank     | VOC | 0.09  | 0.10 |
| T100-20 | FR Tank     | VOC | 0.09  | 0.10 |
| T100-21 | FR Tank     | VOC | 3.11  | 2.09 |
| T100-22 | FR Tank     | VOC | 3.11  | 2.09 |
| T100-23 | FR Tank     | VOC | 3.11  | 2.09 |
| T100-24 | FR Tank     | VOC | 3.11  | 2.09 |

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|               |   |         |       |      |
|---------------|---|---------|-------|------|
| T100-25       | FR Tank   | VOC     | 0.74  | 0.10 |
| T220-1        | FR Tank   | VOC     | 1.83  | 0.40 |
| T266-1        | FR Tank   | VOC     | 1.83  | 0.49 |
| T266-2        | FR Tank   | VOC     | 1.83  | 0.49 |
| W30-1         | FR Tank   | VOC     | 12.45 | 0.25 |
| W30-2         | FR Tank   | VOC     | 12.45 | 0.25 |
| SHIPLD-1      | Ship Dock 1   | VOC     | 13.97 | ---  |
| SHIPLD-2      | Ship Dock 2   | VOC     | 13.97 | ---  |
| SHIPLD-3      | Ship Dock 3   | VOC     | 13.97 | ---  |
| SHIPLD-1/2/3  | Combined Ship Dock 1,2, and 3 Cap                   | VOC     | ----  | 5.49 |
| SHIPLD-1C     | Ship Dock 1 Crude Oil                               | VOC     | 11.46 | ---  |
| SHIPLD-2C     | Ship Dock 2 Crude Oil                               | VOC     | 11.46 | ---  |
| SHIPLD-3C     | Ship Dock 3 Crude Oil                               | VOC     | 11.46 | ---  |
| SHIPLD-1/2/3C | Combined Ship Dock 1,2, and 3 Crude Oil Loading Cap | VOC     | 22.91 | 6.55 |
| SHIPLD-4      | Ship Dock 4   | VOC     | 0.98  | 1.05 |
| BRGDK-2       | Barge Dock 2  | VOC     | 0.53  | 1.32 |
| BRGDK-3       | Barge Dock 3  | VOC     | 0.53  | 2.63 |
| BRGDK-4       | Barge Dock 4  | VOC     | 0.53  | 0.66 |
| BRGDK-5       | Barge Dock 5  | VOC     | 0.53  | 2.63 |
| BRGDK-6       | Barge Dock 6  | VOC     | 5.81  | 2.25 |
| BRGDK-7       | Barge Dock 7  | VOC     | 1.76  | 0.75 |
| TTRC-3        | T/T R/C Load  | VOC     | 6.97  | 1.05 |
| FU-4          | Fugitive Area                                       | VOC (5) | 0.49  | 2.14 |
| FU-5          | Crude Oil Fugitive Area                             | VOC (5) | 0.01  | 0.04 |

## Emission Sources - Maximum Allowable Emission Rates

|       |       |                   |      |     |
|-------|-------|-------------------|------|-----|
| VCU-1 | VCU-1 | VOC               | 1.14 | --- |
|       |       | NO <sub>x</sub>   | 4.12 | --- |
|       |       | CO                | 4.12 | --- |
|       |       | SO <sub>2</sub>   | 0.20 | --- |
|       |       | PM                | 3.09 | --- |
|       |       | PM <sub>10</sub>  | 3.09 | --- |
|       |       | PM <sub>2.5</sub> | 3.09 | --- |
| VCU-2 | VCU-2 | VOC               | 1.14 | --- |
|       |       | NO <sub>x</sub>   | 4.12 | --- |
|       |       | CO                | 4.12 | --- |
|       |       | SO <sub>2</sub>   | 0.20 | --- |
|       |       | PM                | 3.09 | --- |
|       |       | PM <sub>10</sub>  | 3.09 | --- |
|       |       | PM <sub>2.5</sub> | 3.09 | --- |
| VCU-3 | VCU-3 | VOC               | 1.14 | --- |
|       |       | NO <sub>x</sub>   | 4.12 | --- |
|       |       | CO                | 4.12 | --- |
|       |       | SO <sub>2</sub>   | 0.20 | --- |
|       |       | PM                | 3.09 | --- |
|       |       | PM <sub>10</sub>  | 3.09 | --- |
|       |       | PM <sub>2.5</sub> | 3.09 | --- |
| VCU-4 | VCU-4 | VOC               | 1.14 | --- |
|       |       | NO <sub>x</sub>   | 4.12 | --- |
|       |       | CO                | 4.12 | --- |
|       |       | SO <sub>2</sub>   | 0.20 | --- |

Emission Sources - Maximum Allowable Emission Rates

|               |                             |                   |       |      |
|---------------|-----------------------------|-------------------|-------|------|
|               |                             | PM                | 3.09  | ---  |
|               |                             | PM <sub>10</sub>  | 3.09  | ---  |
|               |                             | PM <sub>2.5</sub> | 3.09  | ---  |
| VCU - 1/2/3/4 | Combined VCU 1, 2, 3, 4 Cap | VOC               | 4.56  | 1.30 |
|               |                             | NO <sub>x</sub>   | 16.47 | 3.20 |
|               |                             | CO                | 16.47 | 4.01 |
|               |                             | SO <sub>2</sub>   | 0.81  | 0.11 |
|               |                             | PM                | 12.35 | 3.00 |
|               |                             | PM <sub>10</sub>  | 12.35 | 3.00 |
|               |                             | PM <sub>2.5</sub> | 12.35 | 3.00 |

- (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 Title 30 Texas Administrative Code § 101.1
- NO<sub>x</sub> - total oxides of nitrogen
- SO<sub>2</sub> - sulfur dioxide
- PM - total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>, as represented
- PM<sub>10</sub> - total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>, as represented
- PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter
- CO - carbon monoxide
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) The following EPNs are included in the annual cap of 66.0 tpy: T20-1 through T20-4, T30-1, T30-2, T80-1 through T80-38, T175-1 through T175-4, T200-1 through T200-9, T250-1 through T250-8, TTRC-1, and TTRC-2.
- (7) The following EPNs are included in the annual cap of 121.77 tpy: T30-3 through T30-6, T325-1, T325-2, and T400-1 through T400-11.
- (8) The emission rates shown here for these EPNs (T100-11 and T100-12) are superseded by rates authorized in Permit By Rule 30 TAC §106.472, claimed by the applicant in December 2013.

Date: September 2, 2016