

# Emission Sources - Maximum Allowable Emission Rates

Permit Number 156656

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. (1) | Source Name (2)   | Air Contaminant Name (3) | Emission Rates (6) |          |
|------------------------|---|--------------------------|--------------------|----------|
|                        |   |                          | lbs/hour           | TPY (4)  |
| FUG1                   | Grinding and Polishing Fugitives (5)  | PM                       | 0.29               | 1.02     |
|                        |   | PM <sub>10</sub>         | 0.29               | 1.02     |
|                        |   | PM <sub>2.5</sub>        | 0.29               | 1.02     |
| S-1                    | Scrubber Stack 1 (Barrel Plating [Chromium] and HCl Pickle Tank)                                  | PM                       | 2.22E-05           | 9.71E-05 |
|                        |   | PM <sub>10</sub>         | 2.22E-05           | 9.71E-05 |
|                        |   | PM <sub>2.5</sub>        | 2.22E-05           | 9.71E-05 |
|                        |   | Chromium Compounds       | 1.06E-05           | 4.65E-05 |
|                        |   | HCl                      | 3.23E-04           | 1.42E-03 |
| S-3                    | Scrubber Stack 3 (Barrel Plating and Nickel Strike Tank)  | PM                       | 3.60E-04           | 1.58E-03 |
|                        |   | PM <sub>10</sub>         | 3.60E-04           | 1.58E-03 |
|                        |   | PM <sub>2.5</sub>        | 3.60E-04           | 1.58E-03 |
|                        |   | Nickel Compounds         | 3.60E-04           | 1.58E-03 |
| S-4                    | Scrubber Stack 4 (Barrel Plating and Nickel Strike Tank)  | PM                       | 3.60E-04           | 1.58E-03 |
|                        |   | PM <sub>10</sub>         | 3.60E-04           | 1.58E-03 |
|                        |   | PM <sub>2.5</sub>        | 3.60E-04           | 1.58E-03 |
|                        |   | Nickel Compounds         | 3.60E-04           | 1.58E-03 |
| S-5                    | Scrubber Stack 5 (Continuous Plating [Chromium and Nickel], HCl Pickle Tank, and Clip Strip Tank) | PM                       | 7.04E-03           | 0.03     |
|                        |   | PM <sub>10</sub>         | 7.04E-03           | 0.03     |
|                        |   | PM <sub>2.5</sub>        | 7.04E-03           | 0.03     |
|                        |   | Chromium Compounds       | 7.07E-06           | 3.10E-05 |
|                        |   | Nickel Compounds         | 2.70E-04           | 1.18E-03 |
|                        |   | HCl                      | 4.57E-04           | 2.00E-03 |
| S-6                    | Scrubber Stack 6 (HCl Storage Tank, Chrome Stripping Tank, E-Clean Tank,                          | PM                       | 6.75E-03           | 0.03     |
|                        |   | PM <sub>10</sub>         | 6.75E-03           | 0.03     |
|                        |   |                          |                    |          |

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|       |  |                   |          |       |
|-------|--|-------------------|----------|-------|
|       |  | PM <sub>2.5</sub> | 6.75E-03 | 0.03  |
|       |  | HCl               | 0.24     | 0.04  |
|       |  | VOC               | 0.01     | 0.03  |
| FUG2  | Plating Process Fugitives (Post Dip Tank, Quench Oil Process, and Vibratory Polishing Process) (5) | VOC               | 1.11     | 1.44  |
| BLR-1 | Boiler 1 Stack   | CO                | 0.16     | 0.72  |
|       |  | NO <sub>x</sub>   | 0.20     | 0.86  |
|       |  | PM                | 0.01     | 0.07  |
|       |  | PM <sub>10</sub>  | 0.01     | 0.07  |
|       |  | PM <sub>2.5</sub> | 0.01     | 0.07  |
|       |  | SO <sub>2</sub>   | <0.01    | <0.01 |
|       |  | VOC               | 0.01     | 0.05  |
| BLR-2 | Boiler 2 Stack   | CO                | 0.16     | 0.72  |
|       |  | NO <sub>x</sub>   | 0.20     | 0.86  |
|       |  | PM                | 0.01     | 0.07  |
|       |  | PM <sub>10</sub>  | 0.01     | 0.07  |
|       |  | PM <sub>2.5</sub> | 0.01     | 0.07  |
|       |  | SO <sub>2</sub>   | <0.01    | <0.01 |
|       |  | VOC               | 0.01     | 0.05  |
| EF-02 | Roof Vent 2 (Dunk Washer 1, Dunk Washer 2, and Air Cool Station)                                   | CO                | 0.08     | 0.34  |
|       |  | NO <sub>x</sub>   | 0.09     | 0.40  |
|       |  | PM                | <0.01    | 0.03  |
|       |  | PM <sub>10</sub>  | <0.01    | 0.03  |
|       |  | PM <sub>2.5</sub> | <0.01    | 0.03  |
|       |  | SO <sub>2</sub>   | <0.01    | <0.01 |
|       |  | VOC               | <0.01    | 0.02  |
| EF-03 | Roof Vent 3 (RX-2T Endogas)  | CO                | 4.30     | 18.84 |

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|       |  |                   |       |       |
|-------|--|-------------------|-------|-------|
|       |  | NO <sub>x</sub>   | 0.49  | 2.14  |
|       |  | PM                | 0.04  | 0.16  |
|       |  | PM <sub>10</sub>  | 0.04  | 0.16  |
|       |  | PM <sub>2.5</sub> | 0.04  | 0.16  |
|       |  | SO <sub>2</sub>   | <0.01 | 0.01  |
|       |  | VOC               | 0.03  | 0.12  |
| EF-09 | Roof Vent 9<br>(Unidraw Box<br>Furnaces [FINs:<br>BC45712, BC45713,<br>BC45714, and<br>BC45715]) | CO                | 0.17  | 0.74  |
|       |  | NO <sub>x</sub>   | 0.20  | 0.88  |
|       |  | PM                | 0.02  | 0.07  |
|       |  | PM <sub>10</sub>  | 0.02  | 0.07  |
|       |  | PM <sub>2.5</sub> | 0.02  | 0.07  |
|       |  | SO <sub>2</sub>   | <0.01 | <0.01 |
|       |  | VOC               | 0.01  | 0.05  |
| EF-10 | Roof Vent 10<br>(Allcase Quench<br>Furnace [FIN:<br>BC45711])                                    | CO                | 0.27  | 1.17  |
|       |  | NO <sub>x</sub>   | 0.32  | 1.39  |
|       |  | PM                | 0.02  | 0.11  |
|       |  | PM <sub>10</sub>  | 0.02  | 0.11  |
|       |  | PM <sub>2.5</sub> | 0.02  | 0.11  |
|       |  | SO <sub>2</sub>   | <0.01 | <0.01 |
|       |  | VOC               | 0.02  | 0.08  |

- (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
  - HCl - hydrochloric acid
- (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) Planned startup and shutdown emissions are included. Maintenance activities are not authorized by this permit.

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Date: March 6, 2023