Permit Number 24247

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 | Source | Air Contaminant | Emission Rates* | |
|---------------|---------------------|----------------------|-----------------|--------|
| Point No. (1) | Name (2) | Name (3) | lb/hr (4) | TPY** |
| | | | | |
| 1 | Waste Incinerator 1 | VOC | 2.0 | 8.9 |
| | (avg. feed rate of | NO_x (w/urea)*** | 5.0 | |
| | 4,167 lb/hr) | NO_x (w/o urea)*** | 12.9 | |
| | | NO_x (annual) | | (5) |
| | | SO_2 | 3.6 | 4.4 |
| | | PM ₁₀ | 1.2 | 5.3 |
| | | CO | 2.6 | 5.3 |
| | | HCI | 1.5 | 4.25 |
| | | As | 1.4E-3 | 6.1E-3 |
| | | Be | 5.6E-5 | 2.5E-4 |
| | | Cd | 1.3E-3 | 5.7E-3 |
| | | Cr | 5.6E-3 | 2.5E-2 |
| | | Cr[VI] | 5.6E-4 | 2.5E-3 |
| | | Hg | 5.3E-3 | 2.3E-2 |
| | | Mn | 1.1E-2 | 4.8E-2 |
| | | Ni | 1.7E-3 | 7.5E-3 |
| | | Pb | 4.5E-3 | 2.0E-2 |
| | | Se | 1.1E-2 | 4.8E-2 |
| | | V | 2.8E-3 | 1.2E-2 |
| | | Zn | 2.8E-1 | 1.2E-0 |
| | | TE 2378 TCDD | 3.4E-9 | 1.5E-8 |

| 2 | Waste Incinerator 2 (avg feed rate of 4,167 lb/hr) | VOC NO _x (w/urea)*** NO _x (w/o urea)*** NO _x (annual) SO ₂ PM ₁₀ CO HCI As Be Cd Cr Cr[VI] Hg Mn Ni Pb Se V Zn | 2.0 5.0 12.9 3.6 1.2 2.6 1.5 1.4E-3 5.6E-5 1.3E-3 5.6E-4 5.3E-3 1.1E-2 1.7E-3 4.5E-3 1.1E-2 2.8E-3 2.8E-1 | 8.9 (5) 4.4 5.3 5.3 4.25 6.1E-3 2.5E-4 5.7E-3 2.5E-2 2.5E-3 2.3E-2 4.8E-2 7.5E-3 2.0E-2 4.8E-2 1.2E-0 |
|----------|--|---|--|---|
| GENSTACK | Genset Engines (6) | TE 2378 TCDD VOC NO _x CO PM ₁₀ /PM _{2.5} SO ₂ NH ₃ HCI | 3.4E-9 0.47 0.47 1.81 0.11 0.04 0.13 0.03 | 1.5E-8 2.08 (5) 7.94 0.47 0.18 0.57 0.14 |
| EMERGFLR | Flare and Preheaters (6) | VOC NO_x CO $PM_{10}/PM_{2.5}$ SO_2 | 1.08 0.90 3.08 0.85 0.02 | 1.37 (5) 4.57 1.03 0.03 |
| FEEDFUG | Shredder and Waste Loading Emissions | PM_{10} | 0.05 | 0.29 |

| (2) Specific point source names. For fugitive sources, use an area name or fugitive source name. (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code \$ 101.1 NOx - total oxides of nitrogen SO2 - sulfur dioxide PM - particulate matter, suspended in the atmosphere, including PMto and PM25 PMxo - particulate matter equal to or less than 10 microns in diameter PM25 - particulate matter equal to or less than 2.5 microns in diameter CO - carbon monoxide NH3 - ammonia HCI - hydrogen chloride As - arsenic Be - beryllium Cd - cadmium Cr - chromium [total] Cr[VI] - hexavalent chromium Hg - mercury Mn - manganese Ni - nickel Pb - lead Se - selenium V - vanadium Zn - zinc TE 2378 TCDD - all polychlorinated dioxins and furans, expressed as toxic equivalent 2,3,7,6 tetrachloro, para-dibenzodioxin (4) Emission rate is based on a one-hour average in accordance with the monitoring and testing provisions of this permit. (5) The annual emissions of NOx are subject to a rolling 12-month cap of 24.6 tons per year. (6) Includes startup and shutdown * Emission rates are based on and the facilities are limited by the following maximum operating schedule: Hrs/dayDays/weekWeeks/year or8,760 _Hrs/year ** Compliance with annual emission limits is based on a rolling 12-month period. | (1) | • | den | tification - either specific equipment designation or emission point number |
|--|-----|-------------------|------|---|
| Code § 101.1 NO _x - total oxides of nitrogen SO ₂ - sulfur dioxide PM - particulate matter, suspended in the atmosphere, including PM ₁₀ and PM _{2.5} PM ₁₀ - particulate matter equal to or less than 10 microns in diameter PM _{2.5} - particulate matter equal to or less than 10 microns in diameter CO - carbon monoxide NH ₃ - ammonia HCl - hydrogen chloride As - arsenic Be - beryllium Cd - cadmium Cr - chromium [total] Cr[VI] - hexavalent chromium Hg - mercury Mn - manganese Ni - nickel Pb - lead Se - selenium V - vanadium Zn - zinc TE 2378 TCDD - all polychlorinated dioxins and furans, expressed as toxic equivalent 2,3,7,8 tetrachloro, para-dibenzodioxin (4) Emission rate is based on a one-hour average in accordance with the monitoring and testing provisions of this permit. (5) The annual emissions of NO _x are subject to a rolling 12-month cap of 24.6 tons per year. Implication of the permit. Emission rates are based on and the facilities are limited by the following maximum operating schedule: | (2) | from a plot plan. | | nomes. For funitive sources, use an area name or funitive source name |
| Code § 101.1 NO _x - total oxides of nitrogen SO ₂ - sulfur dioxide PM - particulate matter, suspended in the atmosphere, including PM ₁₀ and PM _{2.5} PM ₁₀ - particulate matter equal to or less than 10 microns in diameter PM _{2.5} - particulate matter equal to or less than 2.5 microns in diameter CO - carbon monoxide NH ₃ - ammonia HCl - hydrogen chloride As - arsenic Be - beryllium Cd - cadmium Cr - chromium [total] Cr[VI] - hexavalent chromium Hg - mercury Mn - manganese Ni - nickel Pb - lead Se - selenium V - vanadium Zn - zinc TE 2378 TCDD - all polychlorinated dioxins and furans, expressed as toxic equivalent 2,3,7,8 tetrachloro, para-dibenzodioxin (4) Emission rate is based on a one-hour average in accordance with the monitoring and testing provisions of this permit. (5) The annual emissions of NO _x are subject to a rolling 12-month cap of 24.6 tons per year. (6) Includes startup and shutdown * Emission rates are based on and the facilities are limited by the following maximum operating schedule: | | | urce | |
| SO2 - sulfur dioxide PM - particulate matter, suspended in the atmosphere, including PM10 and PM2.5 PM10 - particulate matter equal to or less than 10 microns in diameter PM2.5 - particulate matter equal to or less than 2.5 microns in diameter CO - carbon monoxide NH3 - ammonia HCl - hydrogen chloride As - arsenic Be - beryllium Cd - cadmium Cr - chromium [total] Cr[VI] - hexavalent chromium Hg - mercury Mn - manganese Ni - nickel Pb - lead Se - selenium V - vanadium Zn - zinc TE 2378 TCDD - all polychlorinated dioxins and furans, expressed as toxic equivalent 2,3,7,8 tetrachloro, para-dibenzodioxin (4) Emission rate is based on a one-hour average in accordance with the monitoring and testing provisions of this permit. (5) The annual emissions of NO _x are subject to a rolling 12-month cap of 24.6 tons per year. (6) Includes startup and shutdown * Emission rates are based on and the facilities are limited by the following maximum operating schedule: | (3) | VOC | - | · |
| PM - particulate matter, suspended in the atmosphere, including PM ₁₀ and PM _{2.5} PM ₁₀ - particulate matter equal to or less than 10 microns in diameter PM _{2.5} - particulate matter equal to or less than 2.5 microns in diameter CO - carbon monoxide NH ₃ - ammonia HCl - hydrogen chloride As - arsenic Be - beryllium Cd - cadmium Cr - chromium [total] Cr[VI] - hexavalent chromium Hg - mercury Mn - manganese Ni - nickel Pb - lead Se - selenium V - vanadium Zn - zinc TE 2378 TCDD - all polychlorinated dioxins and furans, expressed as toxic equivalent 2,3,7,8 tetrachloro, para-dibenzodioxin (4) Emission rate is based on a one-hour average in accordance with the monitoring and testing provisions of this permit. (5) The annual emissions of NO _x are subject to a rolling 12-month cap of 24.6 tons per year. (6) Includes startup and shutdown * Emission rates are based on and the facilities are limited by the following maximum operating schedule: Hrs/day | | NO _x | - | total oxides of nitrogen |
| PM ₁₀ - particulate matter equal to or less than 10 microns in diameter PM _{2.5} - particulate matter equal to or less than 2.5 microns in diameter CO - carbon monoxide NH ₃ - ammonia HCl - hydrogen chloride As - arsenic Be - beryllium Cd - cadmium Cr - chromium [total] Cr[VI] - hexavalent chromium Hg - mercury Mn - manganese Ni - nickel Pb - lead Se - selenium V - vanadium Zn - zinc TE 2378 TCDD - all polychlorinated dioxins and furans, expressed as toxic equivalent 2,3,7,8 tetrachloro, para-dibenzodioxin (4) Emission rate is based on a one-hour average in accordance with the monitoring and testing provisions of this permit. (5) The annual emissions of NO _x are subject to a rolling 12-month cap of 24.6 tons per year. (6) Includes startup and shutdown * Emission rates are based on and the facilities are limited by the following maximum operating schedule: Hrs/dayDays/weekWeeks/year or8,760Hrs/year | | SO ₂ | - | sulfur dioxide |
| PM2.5 - particulate matter equal to or less than 2.5 microns in diameter CO - carbon monoxide NH3 - ammonia HCI - hydrogen chloride As - arsenic Be - beryllium Cd - cadmium Cr - chromium [total] Cr[VI] - hexavalent chromium Hg - mercury Mn - manganese Ni - nickel Pb - lead Se - selenium V - vanadium Zn - zinc TE 2378 TCDD - all polychlorinated dioxins and furans, expressed as toxic equivalent 2,3,7,8 tetrachloro, para-dibenzodioxin (4) Emission rate is based on a one-hour average in accordance with the monitoring and testing provisions of this permit. (5) The annual emissions of NO _x are subject to a rolling 12-month cap of 24.6 tons per year. Includes startup and shutdown * Emission rates are based on and the facilities are limited by the following maximum operating schedule: Hrs/dayDays/weekWeeks/year or8,760Hrs/year | | PM | - | particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$ |
| CO - carbon monoxide NH ₃ - ammonia HCl - hydrogen chloride As - arsenic Be - beryllium Cd - cadmium Cr - chromium [total] Cr[VI] - hexavalent chromium Hg - mercury Mn - manganese Ni - nickel Pb - lead Se - selenium V - vanadium Zn - zinc TE 2378 TCDD - all polychlorinated dioxins and furans, expressed as toxic equivalent 2,3,7,8 tetrachloro, para-dibenzodioxin (4) Emission rate is based on a one-hour average in accordance with the monitoring and testing provisions of this permit. (5) The annual emissions of NO _x are subject to a rolling 12-month cap of 24.6 tons per year. Includes startup and shutdown * Emission rates are based on and the facilities are limited by the following maximum operating schedule: Hrs/dayDays/weekWeeks/year or8,760_Hrs/year | | PM_{10} | - | particulate matter equal to or less than 10 microns in diameter |
| NH ₃ - ammonia HCI - hydrogen chloride As - arsenic Be - beryllium Cd - cadmium Cr - chromium [total] Cr[VI] - hexavalent chromium Hg - mercury Mn - manganese Ni - nickel Pb - lead Se - selenium V - vanadium Zn - zinc TE 2378 TCDD - all polychlorinated dioxins and furans, expressed as toxic equivalent 2,3,7,8 tetrachloro, para-dibenzodioxin (4) Emission rate is based on a one-hour average in accordance with the monitoring and testing provisions of this permit. (5) The annual emissions of NO _x are subject to a rolling 12-month cap of 24.6 tons per year. Includes startup and shutdown * Emission rates are based on and the facilities are limited by the following maximum operating schedule: Hrs/dayDays/weekWeeks/year or8,760_Hrs/year | | $PM_{2.5}$ | - | particulate matter equal to or less than 2.5 microns in diameter |
| HCI - hydrogen chloride As - arsenic Be - beryllium Cd - cadmium Cr - chromium [total] Cr[VI] - hexavalent chromium Hg - mercury Mn - manganese Ni - nickel Pb - lead Se - selenium V - vanadium Zn - zinc TE 2378 TCDD - all polychlorinated dioxins and furans, expressed as toxic equivalent 2,3,7,8 tetrachloro, para-dibenzodioxin (4) Emission rate is based on a one-hour average in accordance with the monitoring and testing provisions of this permit. (5) The annual emissions of NO _x are subject to a rolling 12-month cap of 24.6 tons per year. (6) Includes startup and shutdown * Emission rates are based on and the facilities are limited by the following maximum operating schedule: Hrs/dayDays/weekWeeks/year or8,760Hrs/year | | CO | - | |
| As - arsenic Be - beryllium Cd - cadmium Cr - chromium [total] Cr[VI] - hexavalent chromium Hg - mercury Mn - manganese Ni - nickel Pb - lead Se - selenium V - vanadium Zn - zinc TE 2378 TCDD - all polychlorinated dioxins and furans, expressed as toxic equivalent 2,3,7,8 tetrachloro, para-dibenzodioxin (4) Emission rate is based on a one-hour average in accordance with the monitoring and testing provisions of this permit. (5) The annual emissions of NO _x are subject to a rolling 12-month cap of 24.6 tons per year. (6) Includes startup and shutdown * Emission rates are based on and the facilities are limited by the following maximum operating schedule: Hrs/dayDays/weekWeeks/year or8,760Hrs/year | | NH_3 | - | ammonia |
| Be - beryllium Cd - cadmium Cr - chromium [total] Cr[VI] - hexavalent chromium Hg - mercury Mn - manganese Ni - nickel Pb - lead Se - selenium V - vanadium Zn - zinc TE 2378 TCDD - all polychlorinated dioxins and furans, expressed as toxic equivalent 2,3,7,8 tetrachloro, para-dibenzodioxin (4) Emission rate is based on a one-hour average in accordance with the monitoring and testing provisions of this permit. (5) The annual emissions of NO _x are subject to a rolling 12-month cap of 24.6 tons per year. (6) Includes startup and shutdown Emission rates are based on and the facilities are limited by the following maximum operating schedule: Hrs/dayDays/weekWeeks/year or8,760_Hrs/year | | | - | |
| Cd - cadmium Cr - chromium [total] Cr[VI] - hexavalent chromium Hg - mercury Mn - manganese Ni - nickel Pb - lead Se - selenium V - vanadium Zn - zinc TE 2378 TCDD - all polychlorinated dioxins and furans, expressed as toxic equivalent 2,3,7,8 tetrachloro, para-dibenzodioxin (4) Emission rate is based on a one-hour average in accordance with the monitoring and testing provisions of this permit. (5) The annual emissions of NO _x are subject to a rolling 12-month cap of 24.6 tons per year. (6) Includes startup and shutdown Emission rates are based on and the facilities are limited by the following maximum operating schedule: Hrs/dayDays/weekWeeks/year or8,760Hrs/year | | | - | |
| Cr - chromium [total] Cr[VI] - hexavalent chromium Hg - mercury Mn - manganese Ni - nickel Pb - lead Se - selenium V - vanadium Zn - zinc TE 2378 TCDD - all polychlorinated dioxins and furans, expressed as toxic equivalent 2,3,7,8 tetrachloro, para-dibenzodioxin (4) Emission rate is based on a one-hour average in accordance with the monitoring and testing provisions of this permit. (5) The annual emissions of NO _x are subject to a rolling 12-month cap of 24.6 tons per year. (6) Includes startup and shutdown * Emission rates are based on and the facilities are limited by the following maximum operating schedule: Hrs/dayDays/weekWeeks/year or8,760_Hrs/year | | | - | · |
| Cr[VI] - hexavalent chromium Hg - mercury Mn - manganese Ni - nickel Pb - lead Se - selenium V - vanadium Zn - zinc TE 2378 TCDD - all polychlorinated dioxins and furans, expressed as toxic equivalent 2,3,7,8 tetrachloro, para-dibenzodioxin (4) Emission rate is based on a one-hour average in accordance with the monitoring and testing provisions of this permit. (5) The annual emissions of NO _x are subject to a rolling 12-month cap of 24.6 tons per year. (6) Includes startup and shutdown * Emission rates are based on and the facilities are limited by the following maximum operating schedule: Hrs/dayDays/weekWeeks/year or8,760Hrs/year | | | - | |
| Hg - mercury Mn - manganese Ni - nickel Pb - lead Se - selenium V - vanadium Zn - zinc TE 2378 TCDD - all polychlorinated dioxins and furans, expressed as toxic equivalent 2,3,7,8 tetrachloro, para-dibenzodioxin (4) Emission rate is based on a one-hour average in accordance with the monitoring and testing provisions of this permit. (5) The annual emissions of NO _x are subject to a rolling 12-month cap of 24.6 tons per year. (6) Includes startup and shutdown * Emission rates are based on and the facilities are limited by the following maximum operating schedule: Hrs/dayDays/weekWeeks/year or8,760Hrs/year | | | - | |
| Mn - manganese Ni - nickel Pb - lead Se - selenium V - vanadium Zn - zinc TE 2378 TCDD - all polychlorinated dioxins and furans, expressed as toxic equivalent 2,3,7,8 tetrachloro, para-dibenzodioxin (4) Emission rate is based on a one-hour average in accordance with the monitoring and testing provisions of this permit. (5) The annual emissions of NO _x are subject to a rolling 12-month cap of 24.6 tons per year. (6) Includes startup and shutdown * Emission rates are based on and the facilities are limited by the following maximum operating schedule: Hrs/dayDays/weekWeeks/year or8,760Hrs/year | | | - | |
| Ni - nickel Pb - lead Se - selenium V - vanadium Zn - zinc TE 2378 TCDD - all polychlorinated dioxins and furans, expressed as toxic equivalent 2,3,7,8 tetrachloro, para-dibenzodioxin (4) Emission rate is based on a one-hour average in accordance with the monitoring and testing provisions of this permit. (5) The annual emissions of NO _x are subject to a rolling 12-month cap of 24.6 tons per year. (6) Includes startup and shutdown * Emission rates are based on and the facilities are limited by the following maximum operating schedule: Hrs/dayDays/weekWeeks/year or8,760Hrs/year | | _ | - | |
| Pb - lead Se - selenium V - vanadium Zn - zinc TE 2378 TCDD - all polychlorinated dioxins and furans, expressed as toxic equivalent 2,3,7,8 tetrachloro, para-dibenzodioxin (4) Emission rate is based on a one-hour average in accordance with the monitoring and testing provisions of this permit. (5) The annual emissions of NO _x are subject to a rolling 12-month cap of 24.6 tons per year. (6) Includes startup and shutdown * Emission rates are based on and the facilities are limited by the following maximum operating schedule: | | | - | |
| Se - selenium V - vanadium Zn - zinc TE 2378 TCDD - all polychlorinated dioxins and furans, expressed as toxic equivalent 2,3,7,8 tetrachloro, para-dibenzodioxin (4) Emission rate is based on a one-hour average in accordance with the monitoring and testing provisions of this permit. (5) The annual emissions of NO _x are subject to a rolling 12-month cap of 24.6 tons per year. (6) Includes startup and shutdown * Emission rates are based on and the facilities are limited by the following maximum operating schedule: Hrs/dayDays/weekWeeks/year or8,760Hrs/year | | | - | |
| V - vanadium Zn - zinc TE 2378 TCDD - all polychlorinated dioxins and furans, expressed as toxic equivalent 2,3,7,8 tetrachloro, para-dibenzodioxin (4) Emission rate is based on a one-hour average in accordance with the monitoring and testing provisions of this permit. (5) The annual emissions of NO _x are subject to a rolling 12-month cap of 24.6 tons per year. (6) Includes startup and shutdown * Emission rates are based on and the facilities are limited by the following maximum operating schedule: Hrs/dayDays/weekWeeks/year or8,760Hrs/year | | | - | |
| Zn - zinc TE 2378 TCDD - all polychlorinated dioxins and furans, expressed as toxic equivalent 2,3,7,8 tetrachloro, para-dibenzodioxin (4) Emission rate is based on a one-hour average in accordance with the monitoring and testing provisions of this permit. (5) The annual emissions of NO _x are subject to a rolling 12-month cap of 24.6 tons per year. (6) Includes startup and shutdown * Emission rates are based on and the facilities are limited by the following maximum operating schedule: | | | - | |
| TE 2378 TCDD - all polychlorinated dioxins and furans, expressed as toxic equivalent 2,3,7,8 tetrachloro, para-dibenzodioxin (4) Emission rate is based on a one-hour average in accordance with the monitoring and testing provisions of this permit. (5) The annual emissions of NO _x are subject to a rolling 12-month cap of 24.6 tons per year. (6) Includes startup and shutdown * Emission rates are based on and the facilities are limited by the following maximum operating schedule: | | | - | |
| tetrachloro, para-dibenzodioxin (4) Emission rate is based on a one-hour average in accordance with the monitoring and testing provisions of this permit. (5) The annual emissions of NO _x are subject to a rolling 12-month cap of 24.6 tons per year. (6) Includes startup and shutdown * Emission rates are based on and the facilities are limited by the following maximum operating schedule: | | | - | |
| provisions of this permit. (5) The annual emissions of NO _x are subject to a rolling 12-month cap of 24.6 tons per year. (6) Includes startup and shutdown * Emission rates are based on and the facilities are limited by the following maximum operating schedule: | | TE 2378 TCDD | - | · · · |
| (5) The annual emissions of NO_x are subject to a rolling 12-month cap of 24.6 tons per year. (6) Includes startup and shutdown * Emission rates are based on and the facilities are limited by the following maximum operating schedule: Hrs/dayDays/weekWeeks/year or8,760Hrs/year | (4) | Emission rate is | ba | sed on a one-hour average in accordance with the monitoring and testing |
| (6) Includes startup and shutdown * Emission rates are based on and the facilities are limited by the following maximum operating schedule: Hrs/dayDays/weekWeeks/year or8,760_Hrs/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 | | | | |
| schedule:Hrs/dayDays/weekWeeks/year or8,760_Hrs/year | (6) | | | |
| Hrs/dayDays/weekWeeks/year or <u>8,760</u> Hrs/year | * | | are | based on and the facilities are limited by the following maximum operating |
| | | schedule: | | |
| ** Compliance with annual emission limits is based on a rolling 12-month period | | Hrs/day | Day | vs/weekWeeks/year or <u>8,760</u> Hrs/year |
| | ** | Compliance with | anr | nual emission limits is based on a rolling 12-month period |

^{***} The NO_x emission rate of 5.0 lb/hr is applicable at all times unless the urea injection system is down for maintenance activities.

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Dated May 3, 2010