

Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 127838 and PSDTX1588M1

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 | |
|------------------------|----------------------------|--------------------------|----------------|---------|
| | | | lbs/hour | TPY (4) |
| PE3-01 | Dry Catalyst Filter | PM | <0.01 | <0.01 |
| | | PM ₁₀ | <0.01 | <0.01 |
| | | PM _{2.5} | <0.01 | <0.01 |
| PE3-02A | Elutriator Cyclone A | PM | 0.40 | 1.75 |
| | | PM ₁₀ | 0.13 | 0.56 |
| | | PM _{2.5} | 0.03 | 0.15 |
| | | VOC | 0.22 | (6) |
| PE3-02B | Elutriator Cyclone B | PM | 0.40 | 1.75 |
| | | PM ₁₀ | 0.13 | 0.56 |
| | | PM _{2.5} | 0.03 | 0.15 |
| | | VOC | 0.22 | (6) |
| PE3-03 | Powder Surge Hopper Filter | PM | 0.01 | 0.03 |
| | | PM ₁₀ | 0.01 | 0.03 |
| | | PM _{2.5} | 0.01 | 0.03 |
| | | VOC | 0.15 | 0.66 |
| PE3-04 | Powder Feeder Filter | PM | <0.01 | 0.02 |
| | | PM ₁₀ | <0.01 | 0.02 |
| | | PM _{2.5} | <0.01 | 0.02 |
| | | VOC | 0.10 | 0.44 |
| PE3-05 | Additive Hopper Filter | PM | 0.01 | 0.02 |
| | | PM ₁₀ | 0.01 | 0.02 |
| | | PM _{2.5} | 0.01 | 0.02 |
| PE3-06 | Additive Feeder Filter | PM | <0.01 | 0.01 |
| | | PM ₁₀ | <0.01 | 0.01 |
| | | PM _{2.5} | <0.01 | 0.01 |
| | | PM | 0.62 | 2.73 |

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| | | | | |
|--------------------------|--|---|--------|-------|
| | | PM ₁₀ | 0.01 | 0.03 |
| | | PM _{2.5} | <0.01 | 0.01 |
| | | VOC | 0.97 | (6) |
| | | | | |
| PE3-08A | Product Silo A Filter | PM | 0.33 | 0.73 |
| | | PM ₁₀ | 0.33 | 0.73 |
| | | PM _{2.5} | 0.33 | 0.73 |
| | | VOC | 0.91 | (6) |
| PE3-08B | Product Silo B Filter | PM | 0.33 | 0.73 |
| | | PM ₁₀ | 0.33 | 0.73 |
| | | PM _{2.5} | 0.33 | 0.73 |
| | | VOC | 0.91 | (6) |
| PE3-10, PE3-15 | Elevated Flare or Enclosed Ground Flare Hourly CAP | CO (Elevated Flare Option) | 58.52 | - |
| | | NO _x (Elevated Flare Option) | 11.36 | - |
| | | CO (EGF Option) | 92.00 | - |
| | | NO _x (EGF Option) | 23.27 | - |
| | | SO ₂ | <0.01 | - |
| | | VOC | 148.05 | - |
| PE3-10, PE3-15 | Elevated Flare or Enclosed Ground Flare Annual CAP | CO | - | 7.49 |
| | | NO _x | - | 2.64 |
| | | SO ₂ | - | 0.01 |
| | | VOC | - | 9.74 |
| PE3-11A, PE3-11B, HEX-02 | Thermal Oxidizers A & B, Hexene Plant Thermal Oxidizer | NO _x | 2.53 | 4.12 |
| | | PM | 0.31 | 0.51 |
| | | PM ₁₀ | 0.31 | 0.51 |
| | | PM _{2.5} | 0.31 | 0.51 |
| | | CO | 3.48 | 5.66 |
| | | SO ₂ | 0.02 | 0.01 |
| | | VOC | 0.93 | 2.30 |
| PE3-12 | PE3 Cooling Tower (5) | Chlorine Compounds | <0.01 | <0.01 |
| | | PM | 1.53 | 4.29 |
| | | PM ₁₀ | 0.36 | 1.56 |
| | | PM _{2.5} | <0.01 | 0.01 |

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| | | | | |
|-----------------------------|---|--|--------|-------|
| | | VOC | 1.18 | 5.17 |
| PE3-13 | Fugitives (5) | Cl ₂ | <0.01 | 0.02 |
| | | VOC | 12.03 | 52.68 |
| PE3-14 | Extruder Feed Hopper Filter | PM | <0.01 | 0.01 |
| | | PM ₁₀ | <0.01 | 0.01 |
| | | PM _{2.5} | <0.01 | 0.01 |
| | | VOC | 0.03 | 0.15 |
| PE3-MAINT | PE3 Maintenance Fugitives | VOC | 79.04 | 0.42 |
| | | PM | 11.96 | 0.05 |
| | | PM ₁₀ | 6.52 | <0.01 |
| | | PM _{2.5} | 6.52 | <0.01 |
| PE3-10, PE3-15, PE3-TEMP | PE3 Flare System or Temporary Control Device (PE3 MSS Contribution) Hourly CAP | VOC | 506.36 | - |
| | | NO _x (Elevated Flare Option) | 49.04 | - |
| | | CO (Elevated Flare Option) | 278.85 | - |
| | | NO _x (EGF Option) | 99.51 | - |
| | | CO (EGF Option) | 437.51 | - |
| PE3-10, PE3-15, PE3-TEMP | PE3 Flare System or Temporary Control Device (PE3 MSS Contribution) Annual CAP | VOC | - | 4.13 |
| | | NO _x | - | 2.24 |
| | | CO | - | 18.81 |
| PE3-CAP | Cap for Downstream Pellet Handling VOCs | VOC (6) | - | 10.13 |

- (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_x - total oxides of nitrogen
 SO₂ - sulfur dioxide
 PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
 PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
 PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
 CO - carbon monoxide
 Cl₂ - chlorine
 Chlorine Compounds- hypochlorous acid and hydrogen chloride
 EGF - Enclosed Ground Flare
- (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) EPN PE3-CAP is representative of the annual cap for downstream pellet handling VOC emissions of the indicated EPNs.

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Date: _____ DRAFT

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