Permit Numbers 19201 and PSDTX1232M1

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) | Emissi | on Rates |
|-------------------------------|----------------------------|--------------------------|----------|----------|
| | | (3) | lbs/hour | TPY (4) |
| 2-HDPE | Downstream Pellet Handling | VOC | 0.99 | 4.34 |
| 3-HDPE | Downstream Pellet Handling | VOC | 0.69 | 3.02 |
| 3T-501 | 3T-501 Hexane Tank | VOC | 0.31 | 0.56 |
| 3T502 | 3T-502 Hexane Tank | VOC | 0.34 | 1.01 |
| 3T-503 | 3T-503 Hexane Tank | VOC | 0.34 | 1.01 |
| 5T6010 | Tank T-501 | VOC | 0.32 | 0.53 |
| 5T6020 | Tank T-502 | VOC | 0.36 | 1.12 |
| 5T6030 | Tank 2T-502 | VOC | 0.36 | 1.12 |
| 5T6040 | Tank T-503 | VOC | 0.36 | 1.12 |
| 5T6050 | Tank 2T-503 | VOC | 0.36 | 1.12 |
| V-960 | Caustic storage tank | NaOH | 0.01 | 0.01 |
| V-961 | Caustic storage tank | NaOH | 0.01 | 0.01 |
| 3V-961 | Caustic storage tank | NaOH | 0.01 | 0.01 |
| D-301 | HDPE Train A Dryer Vent | VOC | 44.00 | 11.80 |
| 2D-301 | HDPE Train B Dryer Vent | VOC | 44.00 | |
| 3D-301 | HDPE Train C Dryer Vent | VOC | 44.00 | |
| F-302 | Powder Silo Bag Filter | PM | 0.09 | 0.42 |
| | | PM ₁₀ | 0.09 | 0.42 |
| | | PM _{2.5} | 0.09 | 0.42 |
| 2F-302 | Powder Silo Bag Filter | PM | 0.09 | 0.42 |
| | | PM ₁₀ | 0.09 | 0.42 |
| | | PM _{2.5} | 0.09 | 0.42 |
| 3F302 | Powder Silo Bag Filter | PM | 0.16 | 0.62 |
| | | PM ₁₀ | 0.16 | 0.62 |
| | | PM _{2.5} | 0.16 | 0.62 |
| F-401 | Powder Feed Hopper Bag | PM | 0.01 | 0.01 |
| | Filter | PM ₁₀ | 0.01 | 0.01 |
| | | PM _{2.5} | 0.01 | 0.01 |

| 2F401 | Powder Feed Hopper Bag | PM | 0.01 | 0.01 |
|--------|--------------------------|-------------------|------|------|
| | Filter | PM ₁₀ | 0.01 | 0.01 |
| | | PM _{2.5} | 0.01 | 0.01 |
| 3F401 | Powder Feed Hopper Bag | PM | 0.01 | 0.01 |
| | Filter | PM ₁₀ | 0.01 | 0.01 |
| | | PM _{2.5} | 0.01 | 0.01 |
| F408 | Powder Feed Hopper Bag | PM | 0.01 | 0.01 |
| | Filter | PM ₁₀ | 0.01 | 0.01 |
| | | PM _{2.5} | 0.01 | 0.01 |
| 2F408 | Powder Feed Hopper Bag | PM | 0.01 | 0.01 |
| | Filter | PM_{10} | 0.01 | 0.01 |
| | | PM _{2.5} | 0.01 | 0.01 |
| 3F408 | Powder Feed Hopper Bag | PM | 0.01 | 0.01 |
| | Filter | PM ₁₀ | 0.01 | 0.01 |
| | | PM _{2.5} | 0.01 | 0.01 |
| 3F708A | Elutriate Bag Filter | PM | 1.34 | 4.33 |
| | | PM_{10} | 1.34 | 4.33 |
| | | PM _{2.5} | 1.34 | 4.33 |
| F-701 | Blend Silo Bag Filter | PM | 0.09 | 0.37 |
| | | PM ₁₀ | 0.09 | 0.37 |
| | | PM _{2.5} | 0.09 | 0.37 |
| 2F-701 | Blend Silo Bag Filter | PM | 0.09 | 0.37 |
| | | PM ₁₀ | 0.09 | 0.37 |
| | | PM _{2.5} | 0.09 | 0.37 |
| 3F701A | Blending Silo Bag Filter | PM | 0.35 | 1.54 |
| | | PM ₁₀ | 0.35 | 1.54 |
| | | PM _{2.5} | 0.35 | 1.54 |
| 3F701B | Blending Silo Bag Filter | PM | 0.35 | 1.54 |
| | | PM ₁₀ | 0.35 | 1.54 |
| | | PM _{2.5} | 0.35 | 1.54 |

| F-708A | 11 | PM | 0.05 | 0.21 | |
|--------|------|------------------|------|------|---|
| | 708A | PM ₁₀ | 0.05 | 0.21 | I |

| | | $PM_{2.5}$ | 0.05 | 0.21 |
|--------|--------------------------|-------------------|------|------|
| F-708B | Hopper Car Bag Filter F- | PM | 0.05 | 0.21 |
| | 708B | PM ₁₀ | 0.05 | 0.21 |
| | | PM _{2.5} | 0.05 | 0.21 |
| S-705 | Packer Silo Cyclone | PM | 0.06 | 0.28 |
| | Separator | PM ₁₀ | 0.06 | 0.28 |
| | | PM _{2.5} | 0.06 | 0.28 |
| 2S-705 | Packer Silo Cyclone | PM | 0.06 | 0.28 |
| | Separator | PM ₁₀ | 0.06 | 0.28 |
| | | PM _{2.5} | 0.06 | 0.28 |
| S-707 | Packer Silo Cyclone | PM | 0.06 | 0.28 |
| | Separator | PM ₁₀ | 0.06 | 0.28 |
| | | PM _{2.5} | 0.06 | 0.28 |
| 2S-707 | Packer Silo Cyclone | PM | 0.06 | 0.28 |
| | Separator | PM ₁₀ | 0.06 | 0.28 |
| | | PM _{2.5} | 0.06 | 0.28 |
| S-708A | Hopper Silo Cyclone | PM | 0.06 | 0.28 |
| | Separator | PM ₁₀ | 0.06 | 0.28 |
| | | PM _{2.5} | 0.06 | 0.28 |
| S-708B | Hopper Silo Cyclone | PM | 0.06 | 0.28 |
| | Separator | PM ₁₀ | 0.06 | 0.28 |
| | | PM _{2.5} | 0.06 | 0.28 |
| S-709A | Product Silos Cyclone | PM | 0.06 | 0.28 |
| | Separator S-709A | PM ₁₀ | 0.06 | 0.28 |
| | | PM _{2.5} | 0.06 | 0.28 |
| S-709B | Product Silos Cyclone | PM | 0.06 | 0.28 |
| | Separator S-709B | PM ₁₀ | 0.06 | 0.28 |
| | | PM _{2.5} | 0.06 | 0.28 |

| S-405 | Recycle Pellet Cyclone | PM | 0.28 | 0.10 |
|-------|------------------------|-------------------|------|------|
| | | PM_{10} | 0.28 | 0.10 |
| | | PM _{2.5} | 0.28 | 0.10 |
| 2S405 | Recycle Pellet Cyclone | PM | 0.28 | 0.10 |
| | | PM ₁₀ | 0.28 | 0.10 |

| | | PM _{2.5} | 0.28 | 0.10 |
|-------|-------------------------|-------------------|------|------|
| 3S405 | Recycle Pellet Cyclone | PM | 0.28 | 0.10 |
| | | PM ₁₀ | 0.28 | 0.10 |
| | | PM _{2.5} | 0.28 | 0.10 |
| V-102 | Catalyst Dip Pot | VOC | 0.53 | 0.03 |
| Z405 | Additive Dust Collector | PM | 0.02 | 0.08 |
| | | PM ₁₀ | 0.02 | 0.08 |
| | | PM _{2.5} | 0.02 | 0.08 |
| 2Z405 | Additive Dust Collector | PM | 0.02 | 0.08 |
| | | PM ₁₀ | 0.02 | 0.08 |
| | | PM _{2.5} | 0.02 | 0.08 |
| Z410 | Powder Vacuum Cleaner | PM | 0.01 | 0.01 |
| | | PM ₁₀ | 0.01 | 0.01 |
| | | PM _{2.5} | 0.01 | 0.01 |
| PO-CT | Cooling Tower | VOC | 1.32 | 5.79 |
| | | PM | 1.72 | 4.80 |
| | | PM ₁₀ | 0.35 | 1.74 |
| | | PM _{2.5} | 0.01 | 0.01 |
| | | HOCI | 0.01 | 0.01 |

| H923A | Thermal Incinerator (6), | СО | 15.49 | - |
|-------|--------------------------|-------------------|-------|---|
| | | NO_x | 10.25 | - |
| | | SO ₂ | 0.09 | - |
| | | VOC | 0.96 | - |
| | | PM | 0.96 | - |
| | | PM_{10} | 0.96 | |
| | | PM _{2.5} | 0.96 | |

| | | CO (MSS) | 75.00 | 18.70 |
|------------|-------------------------------------|-----------------------|--------|--------|
| | | NO _x (MSS) | - | 1.00 |
| | | SO ₂ (MSS) | 0.10 | 0.10 |
| | | VOC (MSS) | - | 0.20 |
| H923B | Thermal Incinerator (6), | СО | 15.49 | - |
| | | NO _x | 10.25 | - |
| | | SO ₂ | 0.09 | - |
| | | VOC | 0.96 | - |
| | | PM | 0.96 | - |
| | | PM ₁₀ | 0.96 | |
| | | PM _{2.5} | 0.96 | |
| | | CO (MSS) | 75.00 | 18.70 |
| | | NO _x (MSS) | - | 1.00 |
| | | SO ₂ (MSS) | 0.10 | 0.10 |
| | | VOC (MSS) | - | 0.20 |
| H923A/B | Thermal Incinerators Annual Cap (6) | СО | - | 55.97 |
| | | NO _x | - | 44.90 |
| | | SO ₂ | - | 0.38 |
| | | VOC | - | 4.19 |
| | | PM | - | 4.21 |
| | | PM ₁₀ | - | 4.21 |
| | | PM _{2.5} | - | 4.21 |
| 2F-302B | Powder Silo Bag Filter | PM | 0.10 | 0.45 |
| | | PM ₁₀ | 0.10 | 0.45 |
| | | PM _{2.5} | 0.10 | 0.45 |
| 3F708B | Railcar Bag Filter | PM | 0.52 | 1.59 |
| | | PM ₁₀ | 0.52 | 1.59 |
| | | PM _{2.5} | 0.52 | 1.59 |
| 3V305 | Seal Dip Pot | VOC | 0.01 | 0.01 |
| PE-FUG | Plant Process Fugitives (5) | VOC | 23.42 | 102.59 |
| | | Cl ₂ | 0.01 | 0.02 |
| DRYRVNTMSS | Dryer Vent MSS Activities | VOC | 132.00 | 37.50 |
| HDPE-MAINT | MSS to Atmosphere | VOC | 80.60 | 2.50 |
| | | PM | 0.20 | 0.30 |
| | | PM ₁₀ | 0.20 | 0.30 |

| | | PM _{2.5} | 0.20 | 0.30 |
|---|---|---|--------|-------|
| MSS HOURLY CAP- VOC | Total planned MSS VOC emissions from 1018, 1067, H923A, and H923B | VOC | 66.00 | - |
| MSS HOURLY CAP- SO ₂ | Total planned MSS SO ₂ emissions from H923A and H923B | SO ₂ | 0.10 | - |
| 1018, 1067, OL3-FLRA, OL3-FLRB, OL3-FLRC, | Routine Waste Gas Flaring Hourly Cap (6) | CO (Elevated Flare option) | 10.31 | - |
| EGF-1, EGF-2, EGF-3, EGF-4 | | NO _x (Elevated Flare option) | 2.02 | - |
| | | SO ₂ (Elevated Flare option) | 0.01 | - |
| | | VOC | 13.74 | - |
| | | CO (EGF option) | 16.36 | - |
| | | NO _x (EGF option) | 1.91 | - |
| | | SO ₂ (EGF option) | 0.01 | |
| 1018, 1067, OL3-FLRA, OL3-FLRB, OL3-FLRC, EGF-1, EGF-2, EGF-3, EGF-4 | MSS Waste Gas Flaring Hourly Cap (6) | CO (Elevated Flare option) | 65.30 | - |
| | | NO _x (Elevated Flare option) | 9.00 | - |
| | | VOC | 243.20 | - |
| | | CO (EGF option) | 103.58 | - |
| | | NO _x (EGF option) | 12.08 | - |
| FLARECAP | Elevated and Enclosed | СО | - | 42.99 |
| | Ground Flares Annual Cap (8) | NO _X | - | 5.32 |
| | | SO ₂ | - | 0.01 |
| | | VOC | - | 36.10 |
| MSSFLARECAP | Elevated and Enclosed | СО | - | 15.70 |
| | Ground Flares MSS Annual Cap (8) | NO _x | - | 1.83 |
| | | VOC | - | 16.70 |

- Emission point identification either specific equipment designation or emission point number from plot plan. (1)
- (2) Specific point source name. For fugitive sources, use area name or fugitive source name.
- volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1 (3) VOC

total oxides ofsulfur dioxide total oxides of nitrogen NO_x

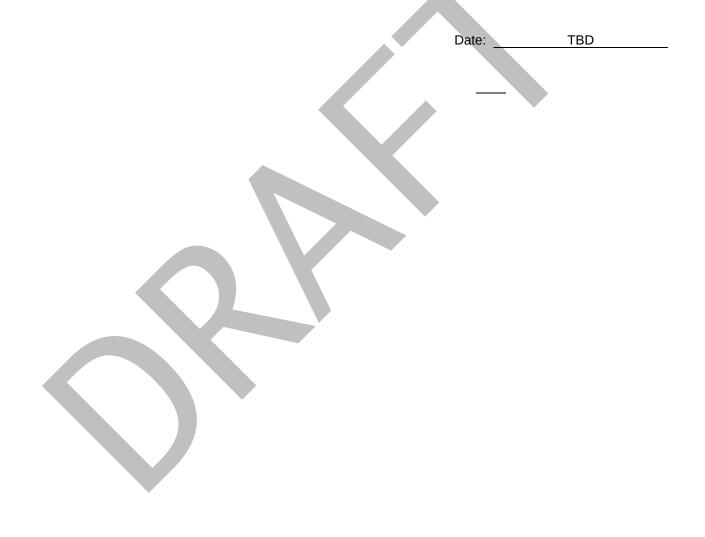
 SO_2

total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented PM PM_{10} - 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 NaOH - sodium hydroxide HOCI - hypochlorous acid Project Number: 336056

- Cl₂ chlorine
- (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 emissions from the incinerator stacks are the total emissions related to disposal of waste gases from the high density polyethylene, linear low density polyethylene and polypropylene plants.
- (7) Maximum hourly emission rate for waste gas flaring may occur from any combination of EPNs.
- (8) Emissions in the cap are authorized to be emitted from any combination of the following flare EPNs: 1018, 1067, OL3-FLRA/B/C, EGF-1, EGF-2, EGF-3, and EGF-4.



Permit Number GHGPSDTX219

This table lists the maximum allowable emission rates of greenhouse gas (GHG) emissions, as defined in Title 30 Texas Administrative Code § 101.1, for all sources of GHG air contaminants on the applicant's property that are authorized 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 authorized by this permit.

Air Contaminants Data

| Emission Point No. (1) | Source Name (2) | Air Contaminant | Emission Rates | |
|------------------------|---|----------------------|---------------------|-------|
| | | Name (3) | TPY (4) | |
| GHGFLARECAP | Elevated and Enclosed Ground | CO ₂ (5) | 17,082.69 | |
| | Flares GHG Annual Cap (routine and MSS) (6) | · ` \ C /F\ | CH ₄ (5) | 51.56 |
| | | N ₂ O (5) | 0.17 | |
| | | CO₂e | 18,422.69 | |

- (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.
- $\begin{array}{cccc} \text{(3)} & \text{CO}_2 & & \text{carbon dioxide} \\ & \text{N}_2\text{O} & & \text{nitrous oxide} \\ & \text{CH}_4 & & \text{methane} \\ \end{array}$

HFCs - hydrofluorocarbonsPFCs - perfluorocarbonsSF₆ - sulfur hexafluoride

 CO_2e - carbon dioxide equivalents based on the following Global Warming Potentials (1/2015):

 CO_{2} (1), $N_{2}O$ (298), CH_{4} (25), SF_{6} (22,800), HFC (various), PFC (various)

- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period. These rates include emissions from maintenance, startup, and shutdown.
- (5) Emission rate is given for informational purposes only and does not constitute enforceable limit.
- (6) Emissions in the cap are authorized to be emitted from any combination of the following flare EPNs: 1018, 1067, OL3-FLRA/B/C, EGF-1, EGF-2, EGF-3, and EGF-4.

