Permit Number 21538

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) |
| ES-801 | | VOC | 0.43 | 1.90 |
| | | NO _x | 2.90 | 12.69 |
| | | SO ₂ | 0.02 | 0.10 |
| | | PM ₁₀ | 0.72 | 3.17 |
| | | PM _{2.5} | 0.72 | 3.17 |
| | | СО | 7.97 | 34.89 |
| ES-802 | | VOC | 0.43 | 0.10 |
| | | NO _x | 0.10 | 0.10 |
| | | SO ₂ | 0.01 | 0.01 |
| | | СО | 0.41 | 0.88 |
| ES-805 | South Flare (9) | voc | 28.91 | 10.40 |
| | | NO _x | 4.71 | 2.03 |
| | | SO ₂ | 0.01 | 0.01 |
| | | СО | 25.11 | 11.18 |
| | South Flare (MSS) | voc | 133.47 | |
| | | NO _x | 13.56 | |
| | | SO ₂ | 0.01 | |
| | | СО | 97.93 | |
| ES-815 | | VOC | 0.17 | 0.28 |
| | | NO _x | 5.10 | 8.44 |

| | | SO ₂ | 0.01 | 0.01 |
|--------|---|-------------------|------|------|
| | | со | 2.84 | 4.70 |
| | South Thermal Oxidizer (MSS) | voc | 0.17 | |
| | | NO _x | 5.10 | |
| | | SO ₂ | 0.01 | |
| | | со | 2.84 | |
| F-8 | Fugitives (5) | VOC | 0.70 | 3.07 |
| EF-806 | Cooling Tower (5) | VOC | 0.57 | 2.48 |
| | | РМ | 0.81 | 3.55 |
| | | PM ₁₀ | 0.81 | 3.55 |
| | | PM _{2.5} | 0.81 | 3.55 |
| EF-807 | Train 8 Reactor Jacket Cooling Tower | РМ | 0.17 | 0.72 |
| | | PM ₁₀ | 0.17 | 0.72 |
| | | PM _{2.5} | 0.17 | 0.72 |
| EV-811 | Cooling Water Additive Tanks | VOC | 1.20 | 0.01 |
| EV-871 | Carlot Silo Blender Vent Filter | VOC | 1.60 | (6) |
| | | РМ | 0.18 | 0.80 |
| | | PM ₁₀ | 0.18 | 0.80 |
| | | PM _{2.5} | 0.18 | 0.80 |
| EV-872 | Additive Feed Hopper Vent Filter | РМ | 0.04 | 0.02 |
| | | PM ₁₀ | 0.04 | 0.02 |
| | | PM _{2.5} | 0.04 | 0.02 |
| EV-873 | Pellet Dryer Exhaust | VOC | 1.60 | (6) |
| EV-874 | Pellet Surge Hopper Vent | VOC | 1.60 | (6) |
| EV-875 | Powder Master Batch Weigh Bin Vent Filter | PM | 1.44 | 0.04 |

| | | PM ₁₀ | 1.44 | 0.04 |
|----------|---------------------------------------|-------------------|------|-------|
| | | PM _{2.5} | 1.44 | 0.04 |
| EV-876-1 | Pellet Classifier Vent | VOC | 0.80 | (6) |
| EV-876-2 | Pellet Classifier Vent | VOC | 0.80 | (6) |
| EV-877-1 | Pellet Classifier Vent | VOC | 0.80 | (6) |
| EV-877-2 | Pellet Classifier Vent | VOC | 0.80 | (6) |
| EV-878-1 | Railcar Loading Elutriator Bag Filter | VOC | 2.50 | (6) |
| | | PM ₁₀ | 0.05 | 0.08 |
| | | PM _{2.5} | 0.05 | 0.08 |
| EV-878-2 | Railcar Loading Elutriator Bag Filter | VOC | 2.50 | (6) |
| | | PM ₁₀ | 0.05 | 0.08 |
| | | PM _{2.5} | 0.05 | 0.08 |
| T8-OG | Train 8 Off-Gas (6) | VOC | | 7.00 |
| EV-854 | Railcar Wash Vacuum Filter | PM | 0.27 | 0.20 |
| | | PM ₁₀ | 0.27 | 0.20 |
| | | PM _{2.5} | 0.27 | 0.20 |
| EF-906 | Cooling Tower (5) | VOC | 1.18 | 5.15 |
| | | PM | 2.64 | 11.57 |
| | | PM ₁₀ | 2.64 | 11.57 |
| | | PM _{2.5} | 2.64 | 11.57 |
| F-9 | Fugitives (5) | VOC | 0.92 | 4.03 |
| EV-971 | Carlot Silo Blender Vent Filter | VOC | 2.60 | (7) |
| | | PM ₁₀ | 0.32 | 1.22 |
| | | PM _{2.5} | 0.32 | 1.22 |
| EV-972A | Additive Hopper Vent Filter | PM | 0.03 | 0.01 |

| EV-972B | Additive Hopper Vent Filter | РМ | 0.03 | 0.01 |
|---------|--|-------------------|------|-------|
| EV-978 | Elutriator Bag Filter | VOC | 2.60 | (7) |
| | | PM ₁₀ | 0.06 | 0.24 |
| | | PM _{2.5} | 0.06 | 0.24 |
| EV-973A | Pellet Dryer Exhaust | VOC | 1.30 | (7) |
| EV-973B | Pellet Dryer Exhaust | VOC | 1.30 | (7) |
| EV-974A | Pellet Surge Hopper Vent | VOC | 1.30 | (7) |
| EV-974B | Pellet Classifier Vent | VOC | 1.30 | (7) |
| EV-975A | Pellet Classifier Vent | VOC | 1.30 | (7) |
| EV-975B | Pellet Classifier Vent | VOC | 1.30 | (7) |
| EV-976A | Pellet Classifier Vent | VOC | 1.30 | (7) |
| EV-976B | Pellet Classifier Vent | VOC | 1.30 | (7) |
| T9-OG | Train 9 Off-Gas (7) | VOC | | 10.00 |
| ES-975 | Blender/Feeder Vent Gas Catalytic Oxidizer (8) | voc | 0.20 | 0.75 |
| | | PM ₁₀ | 0.38 | 0.14 |
| | | PM _{2.5} | 0.38 | 0.14 |
| | | СО | 0.01 | 0.03 |
| ES-976 | Train 8 and 9 Enclosed Vapor Combustor (8) | VOC | 0.18 | 0.80 |
| | | NO _x | 0.09 | |
| | | SO ₂ | 0.01 | 0.01 |
| | | PM ₁₀ | 0.03 | 0.12 |
| | | PM _{2.5} | 0.03 | 0.12 |
| | | СО | 0.05 | 0.23 |
| EV-911 | Cooling Water Additive Tanks | VOC | 1.20 | 0.01 |
| EV-869 | Additive Storage Tank Vent | VOC | 0.01 | 0.01 |

| EV-808 | Catalyst Building Guard Oil Tank Vent | VOC | 0.19 | 0.01 |
|--|---------------------------------------|-----|-------|------|
| EV-820 | Mineral Oil Drying Tank Vent | VOC | 0.01 | 0.01 |
| EV-197 | Mineral Oil Drying Tank Vent | VOC | 0.01 | 0.01 |
| EV-715 | TEAL KO Pot Vent | VOC | 0.01 | 0.01 |
| Maintenance, Startup, and Shutdown (MSS) | | | | |
| MSS-TR8 | Train 8 MSS | VOC | 52.73 | 0.10 |
| MSS-TR9 | Train 9 MSS | VOC | 72.52 | 0.10 |

- (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
 - 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
- (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 T8-OG provides the cumulative annual VOC emission limit for EPNs EV-873, EV-874, EV-876-1, EV-876-2, EV-877-1, EV-877-2, EV-871, EV-878-1, and EV-878-2.
- (7) EPN T9-OG provides the cumulative annual VOC emission limit for EPNs EV-973A, EV-973B, EV 974A, EV-974B, EV-975A, EV-975B, EV-976A, EV-976B, EV-971, and EV-978.
- (8) ES-975 and ES-976 shall not emit simultaneously.
- (9) These hourly emission rates apply to routine (non-MSS) operation. The hourly emission rate limits during MSS are designated (MSS). The annual emission rate limits apply to all operations (routine and MSS).

| Date: | December | 12 | 2013 |
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