Emission Sources - Maximum Allowable Emission Rates

Permit Number 19394

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) |
| 55 | C Activator Vent Filter | VOC | 0.83 | 1.04 |
| | | CO | 2.34 | 2.95 |
| | | PM | 0.04 | 0.16 |
| | | $PM_{10}$ | 0.04 | 0.16 |
| | | $PM_{2.5}$ | 0.04 | 0.16 |
| 56 | Catalyst Activation Heater | VOC | 0.04 | 0.07 |
| | | NOx | 0.64 | 1.28 |
| | | $SO_2$ | <0.01 | <0.01 |
| | | PM | 0.05 | 0.10 |
| | | $PM_{10}$ | 0.05 | 0.10 |
| | | $PM_{2.5}$ | 0.05 | 0.10 |
| | | CO | 0.54 | 1.08 |
| 57 | Catalyst Storage Filter | PM | <0.01 | <0.01 |
| | | $PM_{10}$ | <0.01 | <0.01 |
| | | $PM_{2.5}$ | <0.01 | <0.01 |
| 58 | Flare | VOC | 148.25 | 131.65 |
| | | NOx | 45.82 | 42.27 |
| | | $SO_2$ | 0.48 | 0.28 |
| | | CO | 182.47 | 168.36 |
| 59 | Fugitives (5) | VOC | 12.72 | 29.24 |
| 60 | Cooling Tower (5) | VOC | 0.50 | 2.21 |

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| | | | | |
|---|---|---|---|---|
| | | PM | 1.17 | 3.21 |
| | | $PM_{10}$ | 0.09 | 0.40 |
| | | $PM_{2.5}$ | <0.01 | <0.01 |
| 61 and 62 | 1A Filter | VOC | (6) | (6) |
| | | PM | 0.20 | 0.85 |
| | | $PM_{10}$ | 0.20 | 0.85 |
| | | $PM_{2.5}$ | 0.20 | 0.85 |
| 63, 64, and 65 | Fluff Filter | VOC | (6) | (6) |
| | | PM | 0.27 | 1.20 |
| | | $PM_{10}$ | 0.27 | 1.20 |
| | | $PM_{2.5}$ | 0.27 | 1.20 |
| 66, 67, and 68 | Fluff Filter | VOC | (6) | (6) |
| | | PM | 0.03 | 0.11 |
| | | $PM_{10}$ | 0.03 | 0.11 |
| | | $PM_{2.5}$ | 0.03 | 0.11 |
| 69A | Pellet Classifier | VOC | (6) | (6) |
| 69F817 | Vacuum System Filter | VOC | (6) | (6) |
| | | PM | 0.09 | 0.41 |
| | | $PM_{10}$ | 0.09 | 0.41 |
| | | $PM_{2.5}$ | 0.09 | 0.41 |
| 69F826 | Pellet Transfer Filter | VOC | (6) | (6) |
| | | PM | < 0.01 | 0.02 |
| | | $PM_{10}$ | < 0.01 | 0.02 |
| | | $PM_{2.5}$ | < 0.01 | 0.02 |
| 69F847 | Blender Vent Filter | VOC | (6) | (6) |
| | | PM | < 0.01 | 0.02 |

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| | | | | |
|---|---|---|---|---|
| | | $PM_{10}$ | < 0.01 | 0.02 |
| | | $PM_{2.5}$ | < 0.01 | 0.02 |
| 69F848 | Blender Vent Filter | VOC | (6) | (6) |
| | | PM | 0.05 | 0.21 |
| | | $PM_{10}$ | 0.05 | 0.21 |
| | | $PM_{2.5}$ | 0.05 | 0.21 |
| 70 | Fines Separator | VOC | (6) | (6) |
| | | PM | <0.01 | 0.02 |
| | | $PM_{10}$ | <0.01 | 0.02 |
| | | $PM_{2.5}$ | <0.01 | 0.02 |
| 70A | Blender Silo Vent Filter | VOC | (6) | (6) |
| | | PM | <0.01 | 0.02 |
| | | $PM_{10}$ | <0.01 | 0.02 |
| | | $PM_{2.5}$ | <0.01 | 0.02 |
| 80 | B Activator Vent Filter | VOC | 0.42 | 0.93 |
| | | CO | 1.20 | 2.63 |
| | | PM | 0.01 | 0.04 |
| | | $PM_{10}$ | 0.01 | 0.04 |
| | | $PM_{2.5}$ | 0.01 | 0.04 |
| | | $NH_3$ | 0.96 | 2.11 |
| | | $SO_2$ | 0.22 | 0.48 |
| 273 | Pellet Dryer H | VOC | (6) | (6) |
| 61, 62, 63, 64, 65, 66, 67, 68, 69A, 69F817, 69F826, 69F847, 69F848, 70, 70A, and 273 | VOC Emission Cap<br>- Purge Column to Product Loadout | VOC | 5.44 | 20.32 |

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| | | | | |
|---|---|---|---|---|
| AV-001 | CPF Analyzers | VOC | 0.06 | 0.18 |

(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
$SO_2$ - sulfur dioxide
PM - total particulate matter, suspended in the atmosphere, including PM10 and PM2.5, as represented
$PM_{10}$ - total particulate matter equal to or less than 10 microns in diameter, including PM2.5, as represented
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
CO - carbon monoxide
$NH_3$ - ammonia
(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) EPNs 61, 62, 63, 64, 65, 66, 67, 68, 69A, 69F817, 69F826, 69F847, 69F848, 70, 70A, and 273 will be subject to a group emission cap for VOC emissions instead of having emission limits for each emission point. The emission rates of 5.44 pounds per hour and 20.32 tons per year represent the combined VOC emissions from all emission points from the purge column to product loadout.

Date: TBD