

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 8978 and PSD-TX-459M3

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 Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates * | |
|---------------------------|------------------------------------|-----------------------------|------------------|-------|
| | | | lb/hr | TPY** |
| F-201 | Steam Superheater (PSD) (5) | CO | 33.12 | 89.22 |
| | | NO _x | 4.02 | 14.68 |
| | | PM ₁₀ | 5.90 | 17.93 |
| | | SO ₂ | 0.24 | 0.86 |
| | | VOC | 2.17 | 7.92 |
| F-252 | Hot Oil Heater (PSD) | CO | 2.2 | 9.5 |
| | | NO _x | 9.3 | 40.7 |
| | | PM ₁₀ | 1.6 | 6.8 |
| | | SO _x | 0.4 | 1.7 |
| | | VOC | 0.6 | 2.7 |
| FL-202 | No. 3 Styrene Flare | CO | 196.05 | 8.90 |
| | | NO _x | 38.39 | 1.39 |
| | | VOC | 350.72 | 1.84 |
| LPV-254 | PEB Hotwell Vent | VOC | 0.5 | 2.1 |
| LPV-255 | Oxygen Monitors | VOC | 0.1 | 0.4 |
| LPV-256 | Oxygen Analyzers | VOC | 0.01 | 0.04 |
| LPV-257 | Refining Analyzers | VOC | 0.32 | 1.39 |
| SP-251 | Styrene Truck Loading | VOC | 4.43 | 0.74 |
| SP-252 | EB Truck Loading | VOC | 2.47 | 0.04 |
| SP-253 | PEB Truck Loading | VOC | 0.56 | 0.12 |

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|-------------------------------|---|-----------------------------|-------------------------|-------|
| | | | lb/hr | TPY** |
| SP-254 | PEB Residue Truck Loading | VOC | 0.03 | 0.01 |
| SP-261 | Styrene Railcar Loading | VOC | 6.16 | 5.91 |
| ST-251 | PEB Storage Tank | VOC | 0.10 | 0.08 |
| ST-253 | Benzene Storage Tank | VOC | 0.27 | 1.34 |
| ST-254 | Styrene Storage Tank | VOC | 0.28 | 0.52 |
| ST-255, ST-256, and ST-257 | Three Styrene Storage Tanks | VOC | 11.44 | 12.2 |
| ST-258 | Benzene Storage Tank | VOC | 1.85 | 1.28 |
| ST-259 | Residue Storage Tank | VOC | 0.01 | 0.08 |
| ST-260 | Inhibitor Storage Tank | VOC | 4.04 | 0.20 |
| ST-261 | Ethylbenzene Storage Tank | VOC | 0.15 | 0.10 |
| ST-262 and ST-267 | Ethylbenzene Storage Tank and Styrene Storage Tank | VOC | 6.65 | 0.92 |
| ST-1213 | Ethylene Glycol Storage Tank | VOC | 0.01 | 0.01 |
| ST-1304 | Crude Styrene Storage Tank | VOC | 0.33 | 1.27 |
| ST-1305 | Styrene Storage Tank | VOC | 10.69 | 14.09 |
| CT-251 | Styrene No. 2 Cooling Tower (4) | VOC | 2.1 | 9.2 |
| CT-252 | Styrene No. 3 Cooling Tower PSD (5) | PM ₁₀ | 2.43 | 10.63 |
| | | VOC | 3.23 | 14.16 |
| FU-251 | No. 2 Styrene Process Fugitives (4) | VOC | 2.56 | 11.19 |

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| | | | lb/hr | TPY** |
| FU-1251 | No. 3 Styrene Process Fugitives (4) | VOC | 2.63 | 11.52 |
| S-251 | Sumps (4) | VOC | 1.7 | 7.5 |

(1) Emission point identification - either specific equipment designation or emission point number from a plot plan.

(2) Specific point source names. For fugitive sources, use an area name or fugitive source name.

(3) CO - carbon monoxide

NO_x - total oxides of nitrogen

PM₁₀ - particulate matter (PM) equal to or less than 10 microns in diameter. Where PM is not listed, it shall

be assumed that no particulate matter greater than 10 microns in emitted.

SO₂ - sulfur dioxide

SO_x - sulfur oxides

VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

(5) PSD-TX-459M3 for PM₁₀

* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

24 Hrs/day 7 Days/week 52 Weeks/year

** Compliance with annual emission limits is based on a rolling 12-month period.

Dated: September 20, 2002