Emission Sources - Maximum Allowable Emission Rates

Permit Number 80804

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) | | Air Contaminant Name (3) | Emission Rates | |
|------------------------|---|--------------------------|----------------|---------|
| | | | lbs/hour | TPY (4) |
| FUMSS | Fugitive/Portable MSS Emissions to atmosphere in Refinery and Red Bluff Tank Farm Areas | voc | 858.18 | 29.28 |
| | | РМ | 0.01 | 0.01 |
| | | PM ₁₀ | 0.01 | 0.01 |
| | | PM _{2.5} | 0.01 | 0.01 |
| | | NH ₃ | 0.03 | 0.01 |
| | | HF | 0.01 | 0.01 |
| | | H ₂ S | 0.01 | 0.01 |
| FLRFNMSS | MSS from East and West Flares | NO _X | 58.47 | 4.50 |
| | | voc | 649.45 | 26.44 |
| | | СО | 301.20 | 23.18 |
| | | SO ₂ | 332.39 | 7.67 |
| | | H ₂ S | 3.33 | 0.05 |
| | | NH₃ | 1.62 | 0.01 |
| FLRMSSNG | Flares MSS Natural Gas Combustion SUBCAP | voc | 0.31 | 0.11 |
| | | NO _x | 3.50 | 1.28 |
| | | со | 18.05 | 6.57 |
| | | SO ₂ | 1.51 | 0.55 |
| | | H ₂ S | 0.02 | 0.01 |

Project Number: 323069

Emission Sources - Maximum Allowable Emission Rates

| TCLNMSS | Tank Floating Roof Cleaning Vapor | voc | 0.44 | 0.09 |
|-----------|--|-------------------|-------|-------|
| | Combustor | NO _x | 3.95 | 0.85 |
| | | СО | 4.59 | 0.99 |
| | | РМ | 0.02 | <0.01 |
| | | PM ₁₀ | 0.02 | <0.01 |
| | | PM _{2.5} | 0.02 | <0.01 |
| | | SO ₂ | 1.25 | 0.27 |
| SWTRTKMSS | Sour Water Tank Roof Landings & | H₂S | 0.07 | 0.03 |
| | Maintenance | NH₃ | 0.04 | 0.03 |
| SCAUTKMSS | Spent Caustic Tank Roof Landings & Maintenance | H ₂ S | 0.27 | 0.02 |
| VFRTMSS | Fixed Roof Tank Maintenance | voc | 11.93 | 1.83 |
| FRACMSS | Frac Tank Maintenance | voc | 33.02 | 0.60 |
| SRUMSS | SRU Unit Cleaning | H ₂ S | 0.07 | 0.01 |
| HTRDCOKE | Crude Heater MSS for Decoking (CH-1 & CH- | SO ₂ | 8.33 | 0.60 |
| | 2) | СО | 5.83 | 0.42 |
| | | РМ | 2.50 | 0.18 |
| | | PM ₁₀ | 2.50 | 0.18 |
| | | PM _{2.5} | 2.50 | 0.18 |
| WWMSSA | Wash Pad | voc | 0.10 | 0.42 |
| <u> </u> | I | 1 | 1 | I |

(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

CO - carbon monoxide H_2S - hydrogen sulfide

NH₃ - ammonia

(4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period. Annual emission limits include MSS activities.

(5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

Project Number: 323069

| Permit | Number | 80804 |
|--------|--------|-------|
| Page | | |

Emission Sources - Maximum Allowable Emission Rates

| (6) Turbine emissions rate changes are authorized by Pollution November 4, 2004. | Control Project Standard Peri | nit Number 49187, effective |
|---|-------------------------------|-----------------------------|
| | Date: | January 25, 2021 |

Project Number: 323069