

Emission Sources - Maximum Allowable Emission Rates

Permit Number 87575 and N116

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) |
| SMRSTACK | Reformer Combustion Stack Normal Operations | NO _x | 26.03 | 24.70 |
| | | CO | 16.55 | 60.42 |
| | | VOC | 2.50 | 9.12 |
| | | PM | 7.81 | 28.50 |
| | | PM _{2.5} | 7.81 | 28.50 |
| | | PM ₁₀ | 7.81 | 28.50 |
| | | SO ₂ | 0.84 | 1.85 |
| | | NH ₃ | 5.04 | 18.39 |
| SMRSTACK | Reformer Combustion Stack MSS Activities | NO _x | 152.09 | 8.55 |
| | | CO | 118.09 | 6.83 |
| | | VOC | — | — |
| | | PM | — | — |
| | | PM _{2.5} | — | — |
| | | PM ₁₀ | — | — |
| | | SO ₂ | — | — |
| | | NH ₃ | 10.64 | 0.59 |
| FLARE | Process Flare Normal Operations | NO _x | 64.93 | 1.09 |
| | | CO | 0.13 | 0.56 |
| | | VOC | 0.01 | 0.04 |
| | | SO ₂ | <0.01 | <0.01 |
| | | NH ₃ | 0.49 | <0.01 |

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|---------------------|--|-------------------|--------|-------|
| FLARE | Reformer Combustion Stack MSS Activities | NO _x | 95.13 | 3.40 |
| | | CO | 532.21 | 12.62 |
| | | VOC | 6.98 | 0.02 |
| | | SO ₂ | 0.62 | <0.01 |
| | | NH ₃ | — | — |
| DAVENT1 | Export Steam Deaerator Vent Normal Operations | VOC | 0.04 | 0.16 |
| | | NH ₃ | 0.01 | 0.03 |
| DAVENT2 | Export Steam Deaerator Vent Normal Operations | VOC | 4.86 | 0.35 |
| | | NH ₃ | 0.26 | 0.02 |
| BDVENT | Steam Blowdown Vent Normal Operations | VOC | 9.00 | 2.59 |
| | | NH ₃ | 0.01 | <0.01 |
| BDVENT | Steam Blowdown Vent MSS Activities | VOC | 1.62 | 0.07 |
| | | NH ₃ | <0.01 | <0.01 |
| CT | Cooling Tower | VOC | 0.01 | 0.07 |
| | | PM | 0.44 | 1.93 |
| | | PM _{2.5} | 0.44 | 1.93 |
| | | PM ₁₀ | 0.44 | 1.93 |
| FUG | Process Fugitive Emissions (6) | CO | 1.62 | 7.11 |
| | | VOC | 0.56 | 2.48 |
| NH ₃ FUG | Ammonia System Fugitive Emissions | NH ₃ | 0.53 | 1.37 |
| GLYCOLTNK | Glycol Storage Tank | VOC | <0.01 | <0.01 |
| BDSUMP | Steam System Blowdown Sump Normal Operations | VOC | 0.46 | 2.03 |
| | | NH ₃ | 0.05 | 0.23 |
| STMVNT1 | Export Steam Vent MSS Activities | VOC | 0.92 | 0.14 |
| | | NH ₃ | 0.17 | 0.02 |
| STMVNT2 | Process Steam Vent MSS Activities | VOC | 0.40 | 0.03 |
| | | NH ₃ | 0.08 | 0.01 |

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- (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) Exempt Solvent
 - Those carbon compounds or mixtures of carbon compounds used as solvents which have been excluded from the definition of volatile organic compound.
 - VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 - HRVOC - highly reactive volatile organic compounds as defined in 30 TAC § 115.10
 - IOC-U - inorganic compounds (unspeciated)
 - 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
 - PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
 - CO - carbon monoxide
 - HAP - hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C
- (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) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

Date: July 31, 2020