

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 914

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 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 |
| PK-1 | Cracking Heater BA-100 | VOC | 0.29 | 0.97 |
| | | NO _x | 17.20 | 63.30 |
| | | SO ₂ | 0.02 | 0.07 |
| | | PM | 1.10 | 4.05 |
| | | CO | 13.00 | 47.80 |
| PK-2 | Cracking Heater BA-101 | VOC | 0.29 | 0.97 |
| | | NO _x | 17.20 | 63.30 |
| | | SO ₂ | 0.02 | 0.07 |
| | | PM | 1.10 | 4.05 |
| | | CO | 13.00 | 47.80 |
| PK-3 | Cracking Heater BA-102 | VOC | 0.29 | 0.97 |
| | | NO _x | 17.20 | 63.30 |
| | | SO ₂ | 0.02 | 0.07 |
| | | PM | 1.10 | 4.05 |
| | | CO | 13.00 | 47.80 |
| PK-4 | Cracking Heater BA-103 | VOC | 0.29 | 0.97 |
| | | NO _x | 17.20 | 63.30 |
| | | SO ₂ | 0.02 | 0.07 |
| | | PM | 1.10 | 4.05 |
| | | CO | 13.00 | 47.80 |
| PK-5 | Cracking Heater BA-104 | VOC | 0.29 | 0.97 |
| | | NO _x | 17.20 | 63.30 |
| | | SO ₂ | 0.02 | 0.07 |
| | | PM | 1.10 | 4.05 |
| | | CO | 13.00 | 47.80 |

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|---------------------------|----------------------------------|-----------------------------|------------------|-------|
| | | | lb/hr | TPY |
| PK-6 | Cracking Heater BA-105 | VOC | 0.29 | 0.97 |
| | | NO _x | 17.20 | 63.30 |
| | | SO ₂ | 0.02 | 0.07 |
| | | PM | 1.10 | 4.05 |
| | | CO | 13.00 | 47.80 |
| PK-8 | Superheater BA-111 | VOC | 0.28 | 1.10 |
| | | NO _x | 20.00 | 70.10 |
| | | SO ₂ | 0.06 | 0.24 |
| | | PM | 0.75 | 2.63 |
| | | CO | 3.04 | 12.09 |
| PK-9 | Cracking Heater BA-106 | VOC | 0.29 | 0.97 |
| | | NO _x | 17.20 | 63.30 |
| | | SO ₂ | 0.02 | 0.07 |
| | | PM | 1.10 | 4.05 |
| | | CO | 13.00 | 47.80 |
| PK-10 | Cracking Heater BA-107 (5/02) | VOC | 0.29 | 0.97 |
| | | NO _x | 17.20 | 63.28 |
| | | SO ₂ | 0.02 | 0.07 |
| | | PM | 1.10 | 3.92 |
| | | CO | 13.00 | 46.28 |
| PK-11 | Cracking Heater BA-108 (5/02) | VOC | 0.29 | 0.97 |
| | | NO _x | 17.20 | 63.28 |
| | | SO ₂ | 0.02 | 0.07 |
| | | PM | 1.10 | 3.92 |
| | | CO | 13.00 | 46.28 |
| PK-14 | Cracking Heater BA-99 | VOC | 0.30 | 1.02 |
| | | NO _x | 23.40 | 59.90 |
| | | SO ₂ | 0.02 | 0.07 |
| | | PM | 3.13 | 11.50 |
| | | CO | 13.70 | 50.20 |
| PK-16 | Flare CB-801 | VOC | 2362.00 | 26.70 |
| | | NO _x | 240.00 | 49.00 |

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|---------------------------|---|-----------------------------|------------------|-------|
| | | | lb/hr | TPY |
| | | SO ₂ | 23.70 | 0.04 |
| | | CO | 741.00 | 27.00 |
| PK-18 | Dryer Regeneration Heater BA-202 | VOC | 0.04 | 0.17 |
| | | NO _x | 3.70 | 16.10 |
| | | SO ₂ | 0.008 | 0.04 |
| | | PM | 0.11 | 0.47 |
| | | CO | 0.50 | 2.17 |
| PK-19 | Converter Regeneration Heater BA-201 | VOC | 0.024 | 0.071 |
| | | NO _x | 1.20 | 3.60 |
| | | SO ₂ | 0.003 | 0.009 |
| | | PM | 0.037 | 0.107 |
| | | CO | 0.16 | 0.47 |
| PK-23 | Methanol Tank | VOC | 0.012 | 0.043 |
| PK-24 | Analyzers | VOC | 0.67 | 2.92 |
| PK-26 | Heat Recovery Stack | Delisted (5/02) | | |
| PK-30 | Backwash Carbon Bed | VOC | 0.14 | 0.05 |
| PK-33 | Biocide Tank | VOC | 0.0002 | 0.001 |
| PK-34 | Dispersant Tank | VOC | 0.0007 | 0.003 |
| PK-35 | Inhibitor Tank | VOC | <0.01 | <0.01 |
| PK-36 | Coke Separator Stack | PM | 0.81 | 1.6 |
| PK-37 | Coagulant Tank | VOC | 0.001 | 0.004 |
| PK-38 | Cooling Tower (4) | VOC | 2.73 | 11.96 |
| PK-39 | Seal Oil Tank | VOC | 0.0002 | 0.001 |

| | | | | |
|---------|-----------------------------------|-----|-------|-------|
| PK-41 | Lube Oil Tank | VOC | 0.016 | 0.07 |
| PK-43 | Wash Oil Tank | VOC | 0.01 | 0.05 |
| PK-45 | Anti-Foulant Tank | VOC | 0.016 | 0.07 |
| PK-47 | Anti-Foulant Tank | VOC | 0.002 | 0.01 |
| PK-51 | Anti-Foulant Tank | VOC | 0.007 | 0.03 |
| PK-52 | MEA Tank | VOC | 0.001 | <0.01 |
| PK-53 | Dispersant Tank | VOC | 0.56 | <0.01 |
| PK-54 | Dispersant Tank | VOC | 0.56 | <0.01 |
| PKA-8A | Light Aromatic Distillate Tank | VOC | 0.94 | 1.14 |
| PKA-8B | Heavy Aromatic Distillate Tank | VOC | 0.60 | 0.43 |
| PKA-12 | Railcar Unloading | VOC | 0.23 | 1.0 |
| PKF-F13 | Fugitives (4) | VOC | 19.25 | 84.33 |
| PKF-F33 | Benzene Recovery Fugitives (4) | VOC | 0.21 | 0.93 |

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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) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 NO_x - total oxides of nitrogen
 SO₂ - sulfur dioxide
 PM - particulate matter, suspended in the atmosphere, including PM₁₀
 PM₁₀ - particulate matter 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 is emitted.
 CO - carbon monoxide
- (4) Fugitive and cooling tower emissions are an estimate only and should not be considered as maximum allowable emission rates.

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

Hrs/day ____ Days/week ____ Weeks/year ____ or Hrs/year 8,760

Dated July 26, 2004