

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 20011

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** |
| 10FLR-005 | Adiponitrile Flare (5) | VOC | 12.48 | 7.09 |
| | | NO _x | 10.97 | 7.69 |
| | | CO | 54.79 | 38.34 |
| | | NH ₃ | 1.01 | 0.57 |
| 07TFX-005 | No. 1 WAK HUT | VOC | 8.94 | 1.41 |
| 07TFX-005A | No. 2 WAK HUT | VOC | 21.13 | 2.50 |
| 07VNT-008 | Filter Jet Vent | NO _x | 5.80 | 25.30 |
| | | CO | 0.18 | 0.81 |
| 07FLT-013 | Crude Filter Vent | NO _x | 0.30 | 1.30 |
| | | CO | 0.03 | 0.12 |
| 07LTR-016 | Op. 11-12 Truck Loading | VOC | 0.01 | 0.01 |
| 07LTR-015A | CDD andCDDA/K Truck Loading | VOC | 1.40 | 1.05 |
| 07TFX-023 | DCC Decanter | VOC | 2.96 | 2.00 |
| 07TFX-024 | 2nd Stage Decanter | VOC | 21.08 | 4.06 |
| 07TFX-025 | NVR Residue Tank | VOC | 3.40 | 0.13 |
| 07TFX-026A | DBW Tank A | VOC | 0.01 | 0.01 |
| | | NO _x | 0.01 | 0.01 |
| | | HNO ₃ | 0.01 | 0.01 |

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| 07TFX-026B | DBW Tank B | VOC | 0.01 | 0.01 |
| | | NO _x | 0.01 | 0.01 |
| | | HNO ₃ 0.010.01 | | |
| 07FLT-028 | DDDA Rework Filter | PM | 3.50 | 0.30 |
| 07VNT-029 | Op. 15 Backup Vent (6) | NO _x | 0.04 | 0.20 |
| | | CO | 0.39 | 1.69 |
| | | SO ₂ 0.01 | 0.04 | |
| 07TFX-032A | PDT (CDDT) Receiver A | VOC | 1.80 | 0.40 |
| 07TFX-032B | PDT (CDDT) Receiver B | VOC | 1.80 | 0.40 |
| 07TFX-032C | PDT (CDDT) Receiver C | VOC | 1.80 | 0.40 |
| 07TFX-032D | PDT (CDDT) Receiver D | VOC | 1.80 | 0.40 |
| 07TFX-032E | PDT (CDDT) Receiver E | VOC | 1.80 | 0.40 |
| 07TFX-032F | PDT Shore Tank | VOC | 0.42 | 0.23 |
| 07TFX-033A | CDD Receiver A | VOC | 0.94 | 0.47 |
| 07TFX-033B | CDD Receiver B | VOC | 0.94 | 0.47 |
| 07TFX-034 | CDD Storage Tank | VOC | 11.06 | 0.85 |
| 07TFX-035 | Scaletrol PDC9353 Tank | VOC | 0.14 | 0.01 |
| 07TFX-036 | OptiSpense CL2000 Tank | VOC | 0.05 | 0.01 |
| 07TFX-037A | PAK Receiver A | VOC | 4.42 | 0.23 |
| 07TFX-037B | PAK Receiver B | VOC | 4.42 | 0.23 |

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| 07TFX-037C | PAK Receiver C | VOC | 4.42 | 0.23 |
| 07TFX-038A | PAK Storage A | VOC | 4.42 | 0.32 |
| 07TFX-038B | PAK Storage B | VOC | 4.42 | 0.26 |
| 07TFX-040 | Organic HUT | VOC | 36.43 | 6.05 |
| 07TFX-040A | EAW Neutralization Tank | VOC | 0.02 | 0.01 |
| 07CWA-041 | Cooling Water | VOC | 0.84 | 2.39 |
| 07VNT-045 | H2 Separator Vent | VOC | 0.90 | 3.94 |
| 07TFX-051 | Op. 11 Organic Hut | VOC | 0.06 | 0.03 |
| 07TFX-053 | WFE Jet Tank | VOC | 0.01 | 0.01 |
| 07TFX-054 | Clean Out Drum | VOC | 0.01 | 0.01 |
| 07TFX-054A | Inhibitor Tank | VOC | 0.01 | 0.01 |
| 07TFX-057 | Op. 14 Aqueous Waste Decanter | VOC | 8.84 | 2.33 |
| 07TFX-058 | Op. 14 Building Decanter | VOC | 0.02 | 0.01 |
| 18TFL-027 | Class "A" Waste Tank | VOC | 0.16 | 0.74 |
| 18TFX-028 | B Aqueous Waste Tank | VOC | 0.01 | 0.01 |
| | | HNO ₃ | 4.321.18 | |
| 18TFL-030 | Class "A" Oil Tank | VOC | 0.03 | 0.04 |
| 18TFX-061 | CSM Tank | VOC | 0.01 | 0.01 |

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| | | | lb/hr | TPY** |
| | | HNO ₃ | 0.72 | 0.23 |
| 07LTR-026C | DBW Truck Loading | VOC | 0.01 | 0.01 |
| | | NO _x | 0.01 | |
| | | HNO ₃ | 0.010.01 | |
| 18TFX-062 | Unloading Tank | VOC | 0.01 | 0.01 |
| | | HNO ₃ | 0.010.01 | |
| 18TFX-062A | RF Separator | VOC | 0.01 | 0.01 |
| | | HNO ₃ | 0.010.01 | |
| 18SMP-63 | Settler Sump | VOC | 0.01 | 0.01 |
| 18TFL-065 | Class A/B Swing Oil Service | VOC | 0.03 | 0.04 |
| | | HNO ₃ | 0.080.22 | |
| 18TFX-072 | Waste Collection Tank | VOC | 0.01 | 0.01 |
| | | PM | 0.01 | |
| | | HNO ₃ | 0.010.01 | |
| 18TFX-073 | Waste Equalization Tank | VOC | 0.01 | 0.01 |
| 18SEP-075 | A Tank Oil/Water Separator | VOC | 0.01 | 0.01 |
| 18SMP-736 | Unloading Sump | VOC | 0.01 | 0.02 |
| 18SMP-737 | Acids Waste Sump | VOC | 0.01 | 0.01 |
| | | HNO ₃ | 0.010.01 | |
| 07SMP-011 | Op. 11 Sump | VOC | 0.01 | 0.01 |
| 07SMP-011A | Op. 11A Sump | VOC | 0.01 | 0.01 |
| 07SMP-012 | Op. 12 Sump | VOC | 0.01 | 0.01 |
| 07SMP-013 | Op. 13 Sump | VOC | 0.01 | 0.01 |

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| | | | lb/hr | TPY** |
| 07SMP-014 | Op. 14 Sump | VOC | 0.01 | 0.01 |
| 07SMP-015 | Op. 15 and 16 Sumps | VOC HNO ₃ | 0.01 0.040.01 | 0.01 |
| 07SMP-016 | Op. 16 Sump | VOC HNO ₃ | 0.01 0.040.01 | 0.01 |
| 07FUG | Fugitive Emissions (4) | VOC | 6.90 | 30.10 |
| 07TFX-636A | Urea Mix Tank | VOC | 0.02 | 0.01 |
| 07TFX-636 | Urea Solution Tank | VOC | 0.03 | 0.01 |
| 07LTR-025A | NVR Truck Loading | VOC | 0.16 | 0.02 |
| 07LTR-028A | DDDA Transloading | PM | 0.11 | 0.01 |
| 07RSY-026F | DBW H2 Reactor | NH ₃ CO | 0.01 0.01 | 0.01 |
| 07DIS-026G | DBW Flash Dryer | NH ₃ CO | 0.01 0.01 | 0.01 |
| 07DIS-512 | No. 1 Flash Dryer Vent | VOC | 0.02 | 0.07 |

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

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- (2) Specific point source name. For fugitive sources use area name or fugitive source name.
- (3) VOC - volatile organic carbons as defined in Title 30 Texas Administrative Code § 101.1
 - NO_x - total oxides of nitrogen
 - CO - carbon monoxide
 - PM - particulate matter
 - NH₃ - ammonia
 - HNO₃ - nitric acid
 - H₃BO₃ - boric acid
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Routine emissions attributable to this facility.
- (6) Pilot emissions only

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

Hrs/year 8,760

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

Dated