

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 77679, PSDTX1061, and HAP55

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** |
| BUBBLING BED BOILER - NORMAL OPERATIONS EMISSIONS | | | | |
| BFB-1 | Bubbling Fluidized Bed Boiler 1,374 MMBtu/hr (approximated 100 MW) | NO _x | 137.0 | 602.0 |
| | | CO | 227.0 | 903.0 |
| | | SO ₂ | 474.0 | 277.0 |
| | | VOC | 20.0 | 78.0 |
| | | PM/PM ₁₀ /PM _{2.5} | 44.0 | 193.0 |
| | | H ₂ SO ₄ | 3.6 | 6.02 |
| | | NH ₃ | 18.0 | 55.0 |
| | | HCl | 97.5 | 120.4 |
| | | Pb | 0.1 | 0.3 |
| | | Hg | 0.004 | 0.018 |
| BUBBLING BED BOILER - START-UP/SHUTDOWN EMISSIONS | | | | |
| BFB-1 | Bubbling Fluidized Bed Boiler 1,374 MMBtu/hr (approximated 100 MW) | NO _x | 250.0 | -- |
| | | CO | 227.0 | -- |
| | | SO ₂ | 283.0 | -- |
| | | VOC | 20.0 | -- |
| | | PM/PM ₁₀ /PM _{2.5} | 43.0 | -- |
| | | H ₂ SO ₄ | 4.3 | -- |
| | | NH ₃ | 19.0 | -- |
| | | HCl | 97.0 | -- |
| | | Pb | 0.1 | -- |
| | | Hg | 0.004 | -- |
| FWPUMP-1 | Fire Water Pump Diesel Engine 300 hp (100 hrs/yr non-emergency) | NO _x | 2.30 | 0.57 |
| | | CO | 0.15 | 0.04 |
| | | SO ₂ | <0.01 | <0.01 |
| | | VOC | 0.22 | 0.06 |
| | | PM/PM ₁₀ /PM _{2.5} | 0.04 | 0.01 |

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| | | | Emission Rates * | |
| | | | lb/hr | TPY** |
| EMGEN-1 | Emergency Generator Engine 730 hp (500 hrs/yr non-emergency) | NO _x | 5.35 | 1.34 |
| | | CO | 0.34 | 0.09 |
| | | SO ₂ | <0.01 | <0.01 |
| | | VOC | 0.52 | 0.13 |
| | | PM/PM ₁₀ /PM _{2.5} | 0.09 | 0.02 |
| PROPHTR | Propane Heater 5 MMBtu/hr (876 hrs/yr) | NO _x | 0.53 | 0.23 |
| | | CO | 0.19 | 0.08 |
| | | SO ₂ | 0.04 | 0.02 |
| | | VOC | 0.01 | 0.005 |
| | | PM/PM ₁₀ /PM _{2.5} | 0.03 | 0.01 |
| PROP-FUG-1 | Propane Piping Fugitives (4) | VOC | 0.43 | 1.91 |
| NH ₃ -FUG-1 | Aqueous Ammonia Fugitives (4) | NH ₃ 0.02 | 0.08 | |
| LVSTG-1 | Steam Turbine Lube Oil Vent | VOC | <0.01 | 0.04 |
| CT-1 | Cooling Tower | PM | 0.78 | 3.40 |
| | | PM ₁₀ | 0.44 | 1.94 |
| | | PM _{2.5} | 0.11 | 0.50 |
| TK-DSL-1 | Firewater Pump Diesel Tank | VOC | 0.01 | <0.01 |
| TK-DSL-2 | Emergency Engine Diesel Tank | VOC | 0.27 | <0.01 |
| TK-DSL-3 | General Plant Use Diesel Fuel Tank | VOC | 0.31 | <0.01 |
| T-ACID1 | Sulfuric Acid Storage Tank | H ₂ SO ₄ | <0.01 | <0.01 |
| TRK | Truck Unloader/Receiving | PM | 0.32 | <0.01 |
| | | PM ₁₀ | 0.15 | 0.05 |
| | | PM _{2.5} | 0.02 | <0.01 |
| WDPROC-FUG | Wood Processing Building Fugitives (4) | PM | 0.31 | 0.32 |
| | | PM ₁₀ | 0.13 | 0.14 |
| | | PM _{2.5} | 0.02 | 0.02 |
| WDPROC-DC | Wood Processing Building Dust | PM | 0.06 | 0.06 |

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| | | | lb/hr | TPY** |
| | Collector | PM ₁₀ | 0.03 | 0.03 |
| | | PM _{2.5} | <0.01 | <0.01 |
| TR-1 | Wood Chips to Conveyors 1A & 1B | PM | 0.04 | 0.05 |
| | | PM ₁₀ | 0.014 | 0.016 |
| | | PM _{2.5} | <0.01 | <0.01 |
| TR-2 | Conveyors 1A & 1B to Conveyor 2 Transfer | PM | 0.04 | 0.05 |
| | | PM ₁₀ | 0.014 | 0.016 |
| | | PM _{2.5} | <0.01 | <0.01 |
| TR-3 | Conveyor 3 to Conveyor 5 Transfer | PM | 0.021 | 0.02 |
| | | PM ₁₀ | <0.01 | <0.01 |
| | | PM _{2.5} | <0.01 | <0.01 |
| TR-4 | Conveyor 4 to Conveyor 5 Transfer | PM | 0.021 | 0.02 |
| | | PM ₁₀ | <0.01 | <0.01 |
| | | PM _{2.5} | <0.01 | <0.01 |
| TR-5 | Conveyor 5 to Conveyor 6 & 7 Transfer/Bypass | PM | 0.042 | 0.05 |
| | | PM ₁₀ | 0.014 | 0.016 |
| | | PM _{2.5} | <0.01 | <0.01 |
| TR-6 | Conveyor 6 to Radial Stacker | PM | 0.04 | 0.05 |
| | | PM ₁₀ | 0.014 | 0.016 |
| | | PM _{2.5} | <0.01 | <0.01 |
| TR-7 | Autoreclaimer to Conveyor 8 | PM | 0.014 | 0.02 |
| | | PM ₁₀ | <0.01 | <0.01 |
| | | PM _{2.5} | <0.01 | <0.01 |
| TR-8 | Underground Pile Reclaim to Conveyor 8 | PM | 0.014 | 0.02 |
| | | PM ₁₀ | <0.01 | <0.01 |
| | | PM _{2.5} | <0.01 | <0.01 |
| TR-9 | Conveyor 8 to Conveyor 9 Transfer | PM | 0.014 | 0.05 |
| | | PM ₁₀ | <0.01 | 0.016 |
| | | PM _{2.5} | <0.01 | <0.01 |

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| | | | lb/hr | TPY** |
| TR-10 | Conveyor 9 to Conveyor 10 & 11 Transfer | PM | 0.014 | 0.05 |
| | | PM ₁₀ | <0.01 | 0.016 |
| | | PM _{2.5} | <0.01 | <0.01 |
| TR-11 | Underground Pile Reclaim to Conveyor 14 | PM | 0.014 | 0.05 |
| | | PM ₁₀ | <0.01 | 0.016 |
| | | PM _{2.5} | <0.01 | <0.01 |
| TR-12 | Conveyor 14 to Conveyors 10 & 11 Transfers | PM | 0.014 | 0.05 |
| | | PM ₁₀ | <0.01 | 0.016 |
| | | PM _{2.5} | <0.01 | <0.01 |
| C-2 | Conveyor from Receiving | PM | 0.149 | 0.17 |
| | | PM ₁₀ | 0.05 | 0.06 |
| | | PM _{2.5} | <0.01 | <0.01 |
| C-5 | Wood Processing to Stockpile Area Conveyor | PM | 0.16 | 0.18 |
| | | PM ₁₀ | 0.05 | 0.06 |
| | | PM _{2.5} | <0.01 | <0.01 |
| C-6 | Conveyor to Autopile | PM | 0.10 | 0.12 |
| | | PM ₁₀ | 0.033 | 0.039 |
| | | PM _{2.5} | <0.01 | <0.01 |
| C-8 | Conveyor from Autopile | PM | 0.034 | 0.12 |
| | | PM ₁₀ | 0.01 | 0.04 |
| | | PM _{2.5} | <0.01 | <0.01 |
| C-10/11 | Conveyors to Feed Silos | PM | 0.063 | 0.22 |
| | | PM ₁₀ | 0.02 | 0.07 |
| | | PM _{2.5} | <0.01 | 0.01 |

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| | | | lb/hr | TPY** |
| FSILO 1 | Boiler Feed Silo 1 | PM/PM ₁₀ | 0.51 | 0.23 |
| | | PM _{2.5} | 0.08 | 0.03 |
| FSILO 2 | Boiler Feed Silo 2 | PM/PM ₁₀ | 0.343 | 0.15 |
| | | PM _{2.5} | 0.05 | 0.02 |
| LIME-DC | Hydrated Lime Silo Dust Collector | PM/PM ₁₀ | 0.086 | 0.038 |
| | | PM _{2.5} | 0.01 | <0.01 |
| FA-DC1 | Fly Ash Silo Dust Collector | PM/PM ₁₀ | <0.01 | <0.01 |
| | | PM _{2.5} | <0.01 | <0.01 |
| FA-DC2 | Fly Ash Silo Loadout Dust Collector | PM/PM ₁₀ | 0.04 | 0.019 |
| | | PM _{2.5} | <0.01 | <0.01 |
| FA-FUG | Fly Ash Silo Truck Loading Fugitives (4) | PM | 0.31 | 0.04 |
| | | PM ₁₀ | 0.08 | 0.011 |
| | | PM _{2.5} | 0.01 | <0.01 |
| BA-FUG | Bottom Ash Truck Loading Fugitives (4) | PM | <0.01 | <0.01 |
| | | PM ₁₀ | <0.01 | 0.01 |
| | | PM _{2.5} | 0.01 | <0.01 |
| AUTOPILE | Wood Storage Auto Pile | PM | 0.38 | 0.50 |
| | | PM ₁₀ | 0.18 | 0.24 |
| | | PM _{2.5} | 0.03 | 0.04 |
| MANPILE | Wood Storage Manual Pile | PM | 0.65 | 0.86 |
| | | PM ₁₀ | 0.31 | 0.41 |
| | | PM _{2.5} | 0.05 | 0.06 |

- (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) NO_x - total oxides of nitrogen
SO₂ - sulfur dioxide
CO - carbon monoxide
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
PM - particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}
PM₁₀ - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.
PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
H₂SO₄ - sulfuric acid mist
HCl - hydrogen chloride
NH₃ - ammonia
Pb - lead
Hg - mercury

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

- * Emission rates are based on and the facilities are limited by the following maximum operating schedule, unless operating hours are specifically limited elsewhere in the permit:

___Hrs/day ___Days/week___Weeks/year or 8,760 Hrs/year

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

Dated December 10, 2010