

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 78750 and PSD-TX-1071

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* |
| ML-B4S | Unit 4 Pulverized Coal Boiler Stack (8,647 MMBtu/hr) | NO _x (1-hr) | 1,730 | 1,893.7 |
| | | NO _x (30-day) | 605.3 | -- |
| | | SO ₂ (1-hr) | 3,153 | 3,787.4 |
| | | SO ₂ (3-hr) | 2,594 | -- |
| | | SO ₂ (30-day) | 1,038 | -- |
| | | PM/PM ₁₀ (5) | 129.7 | 568.1 |
| | | PM/PM ₁₀ (6) | 345.9 | 1,514.9 |
| | | CO (1-hr) | 3,458.8 | 5,681 |
| | | VOC | 46.7 | 136.4 |
| | | H ₂ SO ₄ 129 | 140.13 | |
| | | H ₂ SO ₄ (24-hr) | 99 | -- |
| | | NH ₃ 59.2 | 77.8 | |
| | | HF 143.2 | 28.03 | |
| | | HCl 521 | 56.81 | |
| | | Pb 0.58 | 0.44 | |
| | | Hg 0.99 | 0.08 | |
| ML-AB4S | Auxiliary Boiler 4 Stack (250 MMBtu/hr) | NO _x | 22 .5 | 9.86 |
| | | SO ₂ | 13.0 | 5.67 |
| | | CO | 18.75 | 8.21 |
| | | PM/PM ₁₀ | 7.5 | 3.29 |
| | | VOC | 0.4 | 0.16 |
| | | H ₂ SO ₄ 0.62 | 0.27 | |
| | | HCl 0.23 | 0.10 | |
| | | Pb 0.002 | 0.001 | |
| | | Hg 0.001 | 0.0003 | |

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| | | | lb/hr | TPY* |
| ML-DEG4S | Diesel Emergency Generator 4 Stack | NO _x | 105.00 | 45.99 |
| | | SO ₂ | 1.77 | 0.78 |
| | | CO | 24.06 | 10.54 |
| | | PM/PM ₁₀ | 3.06 | 1.34 |
| | | VOC | 2.81 | 1.23 |
| ML-DFWP4S | Diesel Fire Water Pump 4 Stack | NO _x | 13.95 | 6.11 |
| | | CO | 3.01 | 1.32 |
| | | SO ₂ | 0.18 | 0.08 |
| | | PM/PM ₁₀ | 0.99 | 0.43 |
| | | VOC | 1.11 | 0.49 |
| ML4CTHF | Unit 4 Coal Transfer Hopper Fugitives (4) | PM | 0.65 | 0.84 |
| | | PM ₁₀ | 0.16 | 0.13 |
| ML4CTHBFF | Unit 4 Coal Transfer Hopper Belt Feeders Fugitives (4) | PM | 0.01 | 0.01 |
| | | PM ₁₀ | 0.01 | 0.01 |
| ML4CLW1F | Unit 4 Coal Lowering Well 1 Fugitives (4) | PM | 0.01 | 0.01 |
| | | PM ₁₀ | 0.01 | 0.01 |
| ML4CLW2F | Unit 4 Coal Lowering Well 2 Fugitives (4) | PM | 0.01 | 0.01 |
| | | PM ₁₀ | 0.01 | 0.01 |
| ML4CASPAF | Unit 4 Coal Active Storage Pile A Fugitives (4) | PM | 0.15 | 0.65 |
| | | PM ₁₀ | 0.03 | 0.13 |
| ML4CASPBF | Unit 4 Coal Active Storage Pile B Fugitives (4) | PM | 0.15 | 0.65 |
| | | PM ₁₀ | 0.03 | 0.13 |
| ML4CASPRF | Unit 4 Coal Active Storage Pile Reclaim Fugitives (4) | PM | 0.01 | 0.01 |
| | | PM ₁₀ | 0.01 | 0.01 |
| ML4CCTDCV | Unit 4 Coal Crusher Tower Dust Collection Vent | PM | 0.03 | 0.05 |
| | | PM ₁₀ | 0.01 | 0.01 |

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| | | | lb/hr | TPY* |
| ML4CESPF | Unit 4 Coal Emergency Storage Pile Fugitives (4) | PM | 0.05 | 0.20 |
| | | PM ₁₀ | 0.01 | 0.04 |
| ML4CDC1V | Unit 4 Coal Dust Collector 1 Vent | PM | 0.01 | 0.01 |
| | | PM ₁₀ | 0.01 | |
| ML4CDC2V | Unit 4 Coal Dust Collector 2 Vent | PM | 0.01 | 0.01 |
| | | PM ₁₀ | 0.01 | |
| ML4CISPF | Unit 4 Coal Inactive Storage Pile Fugitives (4) | PM | 1.22 | 5.35 |
| | | PM ₁₀ | 0.24 | 1.02 |
| ML4LSSAV | Unit 4 Lime Storage Silo A Vent | PM | 0.05 | 0.03 |
| | | PM ₁₀ | 0.02 | |
| ML4LSSBV | Unit 4 Lime Storage Silo B Vent | PM | 0.05 | 0.03 |
| | | PM ₁₀ | 0.02 | |
| ML4FAFSVA | Unit 4 Fly Ash Filter/Separators Vent A | PM | 0.11 | 0.46 |
| | | PM ₁₀ | 0.04 | 0.16 |
| ML4FAFSVB | Unit 4 Fly Ash Filter/Separators Vent B | PM | 0.11 | 0.46 |
| | | PM ₁₀ | 0.04 | 0.16 |
| ML4FASSV | Unit 4 Fly Ash Storage Silo Vent | PM | 0.21 | 0.46 |
| | | PM ₁₀ | 0.08 | 0.16 |
| ML4FASSWUF | Unit 4 Fly Ash Storage Silo Wet Unloading Fugitives (4) | PM | 0.03 | 0.02 |
| | | PM ₁₀ | 0.01 | 0.01 |
| ML4SSSV | Unit 4 Sorbent Storage Silo Vent | PM | 0.19 | 0.01 |
| | | PM ₁₀ | 0.07 | 0.01 |
| MLDEG4STV | Diesel Emergency Generator 4 | VOC | 0.06 | 0.01 |

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| | | | <u>lb/hr</u> | <u>TPY*</u> |
| | Storage Tank Vent (2,000 gallons) | | | |
| MLDFWP4STV | Diesel Fire Water Pump 4 Storage Tank Vent (350 gallons) | VOC | 0.01 | 0.01 |
| ML4FOSTV | Unit 4 Fuel Oil Storage Tank Vent (300,000 gallons) | VOC | 0.37 | 0.16 |
| ML4CT1V | Unit 4 Cooling Tower 1 | PM | 8.72 | 38.2 |
| | | PM ₁₀ | 1.46 | 6.38 |
| ML4CT2V | Unit 4 Cooling Tower 2 | PM | 8.72 | 38.2 |
| | | PM ₁₀ | 1.46 | 6.38 |
| ML4AMMPF | Unit 4 Ammonia Piping Fugitives (4) | NH ₃ | 0.04 | 0.19 |

- (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
- 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 PM greater than 10 microns is emitted.
- NO_x - total oxides of nitrogen
- SO₂ - sulfur dioxide
- NH₃ - ammonia
- CO - carbon monoxide
- H₂SO₄ - sulfuric acid mist
- Pb - lead
- HCl - hydrogen chloride
- HF - hydrogen fluoride
- Hg - mercury
- (4) Fugitives emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.
- (5) The PM emission rate is for front-half only, excluding back-half condensibles.

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(6) The PM emission rate is for front and back-half condensibles, for the concentration of PM₁₀.

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

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

Hrs/day 24 Days/week 7 Weeks/year 52 or Hrs/yr 8,760