EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Nos. 3611D and PSD-TX-194M4

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 |
|---|---|---|---|---|
| DC-1A | Raw Crusher | $PM_{10}$ | 3.24 | 14.16 |
| DC-1B | Belt 104/105 | $PM_{10}$ | 0.24 | 1.1 |
| DC-1C | Belt 202B/213 | $PM_{10}$ | 0.16 | 0.71 |
| DC-2 and DC-9 | Kiln Exhaust (4) Sum of 2 EPNs: Kiln Stack No. 1, Kiln Stack No. 2 | $NO_x$ $SO_2$ PM* PM** CO | 1800. 416. 41.7* 95.** 5298. | 2628. 1822. 178.3* 360.** 5528. |
| DC-3A | Blend Silo Nos. 1 and 2 | $PM_{10}$ | 2.43 | 10.6 |
| DC-3B | Kiln Feed System | $PM_{10}$ | 0.71 | 3.1 |
| DC-3C | Blend Silo No. 3 | $PM_{10}$ | 2.43 | 10.6 |
| DC-3D1 | Kiln Feed Pump | $PM_{10}$ | 0.16 | 0.71 |
| DC-3D2 | Kiln Feed Pump | $PM_{10}$ | 0.16 | 0.71 |
| DC-3D3 | Kiln Feed Pump | $PM_{10}$ | 0.16 | 0.71 |
| DC-4 | Clinker Cooler (4) | $PM_{10}$ | 10. | 43.8 |
| DC-4A-1 | Conveyor 413/448 | $PM_{10}$ | 0.45 | 2.0 |
| DC-5 | Finish Mill No. 1 | $PM_{10}$ | 7.8 | 34.2 |

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AIR CONTAMINANTS DATA

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates * | |
|---|---|---|---|---|
| | | | lb/hr | TPY |
| DC-5A-1 | Finish Feed No. 1 Feed Belt 806 | $PM_{10}$ | 0.81 | 3.5 |
| DC-6A | Finish Cement Silos A 1-9 | $PM_{10}$ | 1.43 | 6.3 |
| DC-6B | Rail Bulk Loadout - A Silos | $PM_{10}$ | 0.32 | 1.4 |
| DC-6C | Truck Bulk Loadout - A Silos | $PM_{10}$ | 0.32 | 1.4 |
| DC-6D | Masonry Cement Loading | $PM_{10}$ | 0.32 | 1.4 |
| DC-7B | Finish Mill No. 1 Feed Silos | $PM_{10}$ | 3.0 | 13. |
| DC-8 | Cement Bag Packhouse No. 1 | $PM_{10}$ | 1.84 | 8.1 |
| DC-10A | Finish Mill No. 2 | $PM_{10}$ | 1.5 | 6.6 |
| DC-10B | Finish Mill No. 2 | $PM_{10}$ | 5.3 | 23. |
| DC-10C-1 | Finish Mill No. 2 Feed Belt 806B | $PM_{10}$ | 0.81 | 3.5 |
| DC-11A | Finish Cement Silos B 4-7 | $PM_{10}$ | 1.43 | 6.30 |
| DC-11B | Finish Cement Silos B 1, 2, 3, and 8 | $PM_{10}$ | 1.43 | 6.30 |
| DC-11C | Truck Bulk Loadout No. 1 B Silos | $PM_{10}$ | 0.32 | 1.40 |
| DC-11D | Truck Bulk Loadout No. 2 B Silos | $PM_{10}$ | 0.32 | 1.40 |
| DC-11E | Clinker Loadout Silos | $PM_{10}$ | 1.0 | 4.3 |
| DC-11F | Clinker Loadout | $PM_{10}$ | 0.73 | 3.2 |

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AIR CONTAMINANTS DATA

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates * lb/hr | TPY |
|---|---|---|---|---|
| DC-13 | 13.0 | Clinker Storage Building $PM_{10}$ | | 3.0 |
| DC-13A | Fringe Bin | $PM_{10}$ | 0.65 | 2.8 |
| DC-20 | 0.95 | Clinker Fines Dust Bin $PM_{10}$ | | 0.22 |
| FUG-1 | Coal Stockpile and Material Handling (5) | PM $PM_{10}$ | - - | 1.82 0.91 |
| FUG-2 | Iron Stockpile and Material Handling (5) | PM $PM_{10}$ | - - | 0.84 0.44 |
| FUG-3 | Sand Stockpile and Material Handling (5) | PM $PM_{10}$ | - - | 1.39 0.70 |
| FUG-4 | Road Emissions (5) | $PM_{10}$ | - | 2.43 |
| FUG-5 | Street Sweeper Dump and Material Handling (5) | PM $PM_{10}$ | - - | 0.40 0.20 |

\* PM allowables for PSD permit, based on front-half PM emissions only, as measured by the U.S. Environmental Protection Agency Method 5.

\*\* PM allowables for State permit, for PM emissions as defined in Section 101.1 of the Texas Natural Resource Conservation Commission General Rules.

(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) PM    - particulate matter, suspended in the atmosphere, including $PM_{10}$.
   $PM_{10}$  - 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
   $SO_2$  - sulfur dioxide

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AIR CONTAMINANTS DATA

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates * | |
|---|---|---|---|---|
| | | | lb/hr | TPY |

CO    -   carbon monoxide
PSD   -   prevention of significant deterioration

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

(4) Emissions from DC-4 must comply with New Source Performance Standard, Subpart F. Combined emissions from DC-2 and DC-9 must also comply with New Source Performance Standard, Subpart F.

(5) Fugitive emissions are an estimate only.

Emission rates are based on a maximum dry kiln feed rate of 275 tons per hour and 2,409,000 tons per year of raw feed with the following maximum operating schedule:

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

Dated＿＿＿＿