

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 3611D/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)	<u>Emission Rates (6)</u>	
			lb/hr	TPY
DC-1A	Raw Crusher	TSP	3.24	14.16
		PM <sub>10</sub>	3.24	14.16
DC-1B	Belt 104/105	PM <sub>10</sub>	0.24	1.1
DC-1C	Belt 202B/213	PM <sub>10</sub>	0.16	0.71
DC-2	Kiln Exhaust (4)	NO <sub>x</sub>	600.	2628.
DC-9	Sum of 3 EPNs:	SO <sub>2</sub>	416.	1822.
DC-12	Kiln Stack No. 1	PM*	41.7*	178.3*
	Kiln Stack No. 2	PM**	95.**	360.**
	Alkali Bypass Stack			
DC-3A	Blend Silos No. 1 and 2	PM <sub>10</sub>	2.43	10.6
DC-3B	Kiln Feed System	PM <sub>10</sub>	0.71	3.1
DC-3C	Blend Silo No. 3	PM <sub>10</sub>	2.43	10.6
DC-3D1	Kiln Feed Pump	PM <sub>10</sub>	0.16	0.71
DC-3D2	Kiln Feed Pump	PM <sub>10</sub>	0.16	0.71
DC-3D3	Kiln Feed Pump	PM <sub>10</sub>	0.16	0.71
DC-4	Clinker Cooler (4)	PM <sub>10</sub>	10.	43.8
DC-4A-1	Conveyor 413/448	PM <sub>10</sub>	0.45	2.0
DC-5	Finish Mill No. 1	PM <sub>10</sub>	7.8	34.2

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			lb/hr	TPY	
DC-5A-1	Finish Feed No. 1 Feed Belt 806		PM <sub>10</sub>	0.81	3.5
DC-6A	Finish Cement Silos A 1-9		PM <sub>10</sub>	1.43	6.3
DC-6B	Rail Bulk Loadout - A Silos		PM <sub>10</sub>	0.32	1.4
DC-6C	Truck Bulk Loadout - A Silos		PM <sub>10</sub>	0.32	1.4
DC-6D	Masonry Cement Loading		PM <sub>10</sub>	0.32	1.4
DC-7B	Finish Mill No. 1 Feed Silos		PM <sub>10</sub>	3.0	13.
DC-8	Cement Bag Packhouse No. 1		PM <sub>10</sub>	1.84	8.1
DC-10A	Finish Mill No. 2		PM <sub>10</sub>	1.5	6.6
DC-10B	Finish Mill No. 2		PM <sub>10</sub>	5.3	23.
DC-10C-1	Finish Mill No. 2 Feed Belt 806B		PM <sub>10</sub>	0.81	3.5
DC-11A	Finish Cement Silos B 4-7		PM <sub>10</sub>	1.43	6.30
DC-11B	Finish Cement Silos B 1, 2, 3, and 8		PM <sub>10</sub>	1.43	6.30
DC-11C	Truck Bulk Loadout No. 1 B Silos		PM <sub>10</sub>	0.32	1.40
DC-11D	Truck Bulk Loadout No. 2 B Silos		PM <sub>10</sub>	0.32	1.40
DC-11E	Clinker Loadout Silos		PM <sub>10</sub>	1.0	4.3

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			lb/hr	TPY
DC-11F	Clinker Loadout	PM <sub>10</sub>	0.73	3.2
DC-13	Clinker Storage Building	PM <sub>10</sub>	3.0	13.
DC-13A	Fringe Bin	PM <sub>10</sub>	0.65	2.8
DC-20	Clinker Fines Dust Bin	PM <sub>10</sub>	0.22	0.95
FUG-1	Coal Stockpile and Material Handling (5)	TSP	-	1.82
		PM <sub>10</sub>	-	0.91
FUG-2	Iron Stockpile and Material Handling (5)	TSP	-	0.21
		PM <sub>10</sub>	-	0.11
FUG-3	Sand Stockpile and Material Handling (5)	TSP	-	1.39
		PM <sub>10</sub>	-	0.70
FUG-4	Road Emissions (5)	PM <sub>10</sub>	-	2.43
FUG-5	Street Sweeper Dump and Material Handling (5)	TSP	-	0.40
		PM <sub>10</sub>	-	0.20

\* PM allowables for PSD permit, based on front-half PM emissions only, as measured by EPA Method 5.

\*\* PM allowables for State permit, for PM emissions as defined in TNRCC General Rules 101.1.

(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) TSP - total suspended particulate including PM<sub>10</sub>

PM - particulate matter

PM<sub>10</sub> - particulate matter less than 10 microns

NO<sub>x</sub> - total oxides of nitrogen

SO<sub>2</sub> - sulfur dioxide

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(4) Emissions from DC-4 must comply with New Source Performance Standard, Subpart F. Combined emissions from DC-2, DC-9, and DC-12 must also comply with New Source Performance Standard, Subpart F.

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

(6) Emission rates are based on a maximum dry kiln feed rate of 265 tons per hour and 2,321,400 tons per year of raw feed with the following maximum operating schedule:

Hrs/day\_\_\_\_Days/week\_\_\_\_Weeks/year\_\_\_\_or Hrs/year 8,760

Dated \_\_\_\_\_