#### Permit Numbers 7369 and PSD-TX-120M3

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.

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
KS-1	Dry/Wet Kiln Exhaust (5)(11)	PM (total) PM <sub>10</sub> (total) NO <sub>x</sub> (7)(8) SO <sub>2</sub> H <sub>2</sub> SO <sub>4</sub> CO VOC HCI	193.53 164.20 824.00 2760.00 249.00 702.50 115.42 4.64	847.85 719.34 3175.00 6299.42 567.66 3076.55 395.58 20.50
KS-1a	Dry Kiln Exhaust Baghouse Duct (5)(6)	PM (filterable) PM <sub>10</sub> (filterable) PM (total) PM <sub>10</sub> (total) NO <sub>x</sub> (7)(8) SO <sub>2</sub> H <sub>2</sub> SO <sub>4</sub> CO VOC HCI	14.44 12.13 25.44 21.37 337.00 (9) (9) 522.50 97.55 2.74	63.24 53.12 111.42 93.59 1478.00 (9) (9) 2288.55 320.44 12.00
9a 4	Alkali Bypass Baghouse Stack (6)  Coal Bins Baghouse Stack	PM (filterable) PM <sub>10</sub> (filterable) PM (total) PM <sub>10</sub> (total) NO <sub>x</sub> (7) SO <sub>2</sub> H <sub>2</sub> SO <sub>4</sub> CO VOC PM PM <sub>10</sub>	3.06 2.57 5.39 4.53 150.00 (9) (9) 100.00 2.87 0.17	13.41 11.27 23.63 19.85 219.00 (9) (9) 438.00 9.44 0.75 0.75
		10		

Emission	Source	Air Contaminant	Emission	Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
7	Blend Silo Roof Baghouse Stack	PM PM <sub>10</sub>	0.69 0.69	3.00 3.00
7A	Dry Kiln Preheat Tower Baghouse	PM PM <sub>10</sub>	0.35 0.35	1.52 1.52
8	Dry Process Blend Tanks Bottom Baghouse Stack	PM <sub>10</sub> PM <sub>10</sub>	0.11 0.11	0.48 0.48
9b	Alkali Bypass Bin Baghouse Stack	PM <sub>10</sub> PM <sub>10</sub>	0.21 0.21	0.90 0.90
10	Coke Silo Dust Collector	PM PM <sub>10</sub>	0.17 0.17	0.75 0.75
11	Dry System Clinker Cooler Baghouse Stack	PM PM <sub>10</sub>	12.25 12.25	53.66 53.66
14	Underground Clinker Tunnel Baghouse Stack	PM PM <sub>10</sub>	0.28 0.28	1.22 1.22
15	Lime Injection Silo Baghouse	PM PM <sub>10</sub>	0.09 0.09	0.38 0.38
25	Cement Silo No. 12 Baghouse	PM PM <sub>10</sub>	0.30 0.30	1.31 1.31
26	Cement Silo No. 14 Baghouse	PM PM <sub>10</sub>	0.30 0.30	1.31 1.31
31	Solid Fuel Mill and Heater Dust Collectors	$\begin{array}{c} PM \\ PM_{10} \\ SO_2 \end{array}$	2.54 2.54 0.17	11.11 11.11 0.76

Emission	Source	Air Contaminant		Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY	
		NO <sub>x</sub> CO VOC	1.21 1.02 0.07	5.32 4.47 0.29	
32	Fuel Bin Baghouse Stack	PM PM <sub>10</sub>	1.18 1.18	5.18 5.18	
35	Diesel Fuel Tank	VOC	0.01	0.12	
36	Gasoline Fuel Tank	VOC	0.18	1.67	
38	Fringe Material Baghouse Stack	PM PM <sub>10</sub>	0.13 0.13	0.56 0.56	
39	Turn Head Material Diverter Baghouse Stack	PM PM <sub>10</sub>	0.26 0.26	1.13 1.13	
40	Feed Tank Baghouse Stack	PM PM <sub>10</sub>	0.26 0.26	1.13 1.13	
41a	Separator Baghouse Stack (4)	PM PM <sub>10</sub>	2.98 2.98	13.06 13.06	
41b	Mill Baghouse Stack (4)	PM PM <sub>10</sub>	1.20 1.20	5.26 5.26	
43a	Limestone Feeding Bin Baghouse	PM PM <sub>10</sub>	0.86 0.86	3.75 3.75	
45	Cement Storage Silo 15A	PM PM <sub>10</sub>	0.77 0.77	3.38 3.38	
46	Cement Storage Silo 15B	PM PM PM <sub>10</sub>	0.77 0.77 0.77	3.38 3.38	
47	Cement Storage Silo 16	PM PM <sub>10</sub>	0.77 0.77	3.38 3.38	

Emission	Source	Air Contaminant	nt <u>Emission Rates *</u>	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
48	Cement Bulk Loadout Baghouse	PM <sub>10</sub> PM <sub>10</sub>	0.26 0.26	1.13 1.13
49	Cement Bulk Loadout Baghouse	PM PM <sub>10</sub>	0.26 0.26	1.13 1.13
61	Cement Storage Silo	PM PM <sub>10</sub>	0.43 0.43	1.88 1.88
321	CKD Return Baghouse	PM PM <sub>10</sub>	0.04 0.04	0.19 0.19
411	Bagging Machine Feed Bin Bagho	use PM PM <sub>10</sub>	0.13 0.13	0.56 0.56
F-B-1	Solid Fuel Drop to Bin (10)	PM PM <sub>10</sub>	0.04 0.02	0.02 0.01
F-B-2	Solid Fuel Bin Drop to Conveyor (2	LO) PM PM <sub>10</sub>	<0.01 <0.01	0.02 0.01
F-B-3	Solid Fuel Conveyor Drop to Bins	(10) PM PM <sub>10</sub>	<0.01 <0.01	0.02 0.01
F-B-4	Feed Tank Drop to Drag Chain (10	PM PM <sub>10</sub>	<0.01 <0.01	0.02 0.01
F-C-1	Clinker Drop to Shuttle Belt (10)	PM PM <sub>10</sub>	0.30 0.14	1.30 0.61
F-C-2	Shuttle Belt Drop to Clinker Barn (	10) PM	0.30	1.30

Emission	Source Air Contaminant	Emission I		
<u> Point No. (1)</u>	Name (2)	Name (3)	lb/hr	TPY
		PM <sub>10</sub>	0.14	0.61
F-H-2	Solid Fuel Drop to Conveyor (10)	PM PM <sub>10</sub>	0.04 0.02	0.02 0.01
F-LC-1	Solid Fuel Lump Crusher (10)	PM PM <sub>10</sub>	0.04 0.02	0.02 0.01
F-L-2	Solid Fuel Drop to Hopper (10)	PM PM <sub>10</sub>	0.04 0.02	0.02 0.01
F-P-1	Solid Fuel Storage Drop to Pile (10	) PM PM <sub>10</sub>	0.37 0.18	0.16 0.07
F-P-2	Wind Pile Erosion (10)	PM PM <sub>10</sub>		0.36 0.18
F-P-7	Kiln Dust Drop to Piles (10)	PM PM <sub>10</sub>	<0.01 <0.01	<0.01 <0.01
F-P-12	CKD Dry Kiln Pug Mill to Truck (10)	PM PM <sub>10</sub>	<0.01 <0.01	<0.01 <0.01
F-Q-4	Quarry Loader Drop to Truck (10)	PM PM <sub>10</sub>	0.13 0.06	0.59 0.28
F-Q-6	Primary Crusher (10)	PM PM <sub>10</sub>	0.01 <0.01	0.03 0.01
F-R-2	Belt Transfer Drop (10)	PM PM <sub>10</sub>	0.13 0.06	0.59 0.28
F-R-3	Belt Drop to Tabernacle Transfer (1	L0) PM PM <sub>10</sub>	0.13 0.06	0.59 0.28

Emission	Source	Air Contaminant	Emission F	Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
F-R-6	Feed Belt Drop to RMS Shuttle Belt (10)	PM PM <sub>10</sub>	0.09 0.04	0.40 0.19
F-R-7	RMS Shuttle Belt Drop to Pile (10)	PM PM <sub>10</sub>	0.09 0.04	0.40 0.19
F-R-8	RMS Feeder Drop to Belt (10)	PM PM <sub>10</sub>	0.09 0.04	0.40 0.19
F-R-9	RMS Belt Drop to Cross Plant Belt (	10) PM PM <sub>10</sub>	0.09 0.04	0.40 0.19
F-R-10	Cross Plant Belt Drop to Shuttle Belt (10)	PM PM <sub>10</sub>	0.09 0.04	0.40 0.19
F-R-11	Shuttle Belt Drop to Dry Feed Bins (	10) PM PM <sub>10</sub>	0.09 0.04	0.40 0.19
F-R-12	Feed Bins Drop to Roller Mill Belt (1	0) PM PM <sub>10</sub>	0.09 0.04	0.40 0.19
F-TR-2	Solid Fuel Truck Unloading Drop (10	D) PM PM <sub>10</sub>	0.37 0.18	0.16 0.07
D-1	Wet Kiln Emergency Diesel Engine	$NO_x$ $CO$ $VOC$ $PM_{10}$ $SO_2$	8.68 1.87 0.70 0.62 0.57	3.80 0.82 0.31 0.27 0.25
D-2	Dry Kiln Emergency Diesel Engine	$NO_x$ $CO$ $VOC$ $PM_{10}$ $SO_2$	2.26 0.49 0.18 0.16 0.15	0.99 0.21 0.08 0.07 0.07

Emission		Air Contaminant		ion Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY	
D-3	Emergency Fire Pump Diesel Engin		3.88	1.70	
		CO	0.84	0.37	
		VOC	0.31	0.14	
		$PM_{10}$	0.28	0.12	
		$SO_2$	0.26	0.11	
FEL-WET	Front End Loader (Wet Process) (10	0) PM	< 0.01	< 0.01	
		$PM_{10}$	<0.01	<0.01	
FEL-DRY	Front End Loader (Dry Process) (10	)) PM	<0.01	<0.01	
		PM <sub>10</sub>	<0.01	< 0.01	
DROP-WET	Conveyor Drop (Wet Process) (10)	PM	0.12	0.01	
		$PM_{10}$	0.06	0.01	
DROP-DRY	Conveyor Drop (Dry Process) (10)	PM	0.28	0.03	
		PM <sub>10</sub>	0.13	0.01	
DEG 1- 6	Degreasers (10)	VOC	10.31	1.34	
TMLL 1	Country of the Country of the Land of the country (10)	DM	0.00	0.07	
TMH 1	Synthetic Gypsum Unloading (10)	PM PM <sub>10</sub>	0.02 0.01	0.07 0.04	
TMH 2	Synthetic Gypsum Hopper	PM	0.01	0.02	
	Loading (10)	$PM_{10}$	<0.01	<0.01	
TMH 3	Synthetic Gypsum Transfer Drop (1	0) PM	<0.01	<0.01	
		PM <sub>10</sub>	<0.01	<0.01	
TMH 4	Synthetic Gypsum Transfer Drop (2	10) PM	<0.01	<0.01	
		PM <sub>10</sub>	<0.01	<0.01	
TMH 5	Synthetic Gypsum Pile (10)	PM		0.60	
		PM <sub>10</sub>		0.30	
TMH 6	Synthetic Gypsum Unloading (10)	РМ	0.01	0.02	

Emission	Source	Air Contaminant	Emission F	sion Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY	
		PM <sub>10</sub>	<0.01	0.01	
TMH 7	Synthetic Gypsum Hopper Loading (10)	PM PM <sub>10</sub>	<0.01 <0.01	<0.01 <0.01	
TMH 8	Synthetic Gypsum Transfer Drop (1	.0) PM PM <sub>10</sub>	<0.01 <0.01	<0.01 <0.01	

- (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<sub>10</sub> 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<sub>x</sub> total oxides of nitrogen
  - SO<sub>2</sub> sulfur dioxide
  - H<sub>2</sub>SO<sub>4</sub> sulfuric acid
  - CO carbon monoxide
  - VOC volatile organic compounds
  - HCl hydrogen chloride
- (4) The EPNs 41a and 41b will never exhaust to the atmosphere simultaneously.
- (5) The EPN KS-1 is the sum total of EPNs KS-1a and KS-1b. The individual allowable emissions for each of EPNs KS-1a and KS-1b are for compliance purposes.
- (6) The PM and PM<sub>10</sub> filterable rates are based on front-half of sampling train only.
- (7) The hourly NO<sub>x</sub> emission limit is based on a 30-day rolling NO<sub>x</sub> emissions average. A 30-day rolling average is generated for each day as the average of all the day's hourly NO<sub>x</sub> emission data and the preceding 29 days of hourly emission data (representing only those hours during kiln operation). The gaseous monitoring data shall be reduced to units of the permit allowable emission rate in lb/hr, calculated as a 30-day rolling average for NO<sub>x</sub> at least once every week.
- (8) The NO<sub>x</sub> emission limits set in Standard Permit Number 45068 have not been incorporated to this permit since the facility is complying with the alternative reduction technologies allowed under 30 Texas Administrative Code Chapter 117.
- (9) The SO<sub>2</sub> emissions from EPNs KS-1a and 9a combined are limited to  $\underline{1,560.00}$  pounds per hour (lb/hr) and  $\underline{1,043.42}$  tons per year (tpy). The H<sub>2</sub>SO<sub>4</sub> emissions from EPNs KS-1a and 9a combined are limited to 138.00 lb/hr and 81.48 tpy.

- (10) Emission limits are an estimate only and only the represented throughputs presented in the permit application are enforceable. **(08/07)**
- (11) The Wet Kiln (EPN KS1-b) has been dismantled and removed from the permit. This EPN will be modified as necessary based on a permit alteration application to be submitted no later than 90 days after the issuance of the permit. (08/07)
- \* 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/year 8,760

Dated August 27,

<u>2007</u>