### Permit Number 19841

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
BP-1	CaCO₃ Silos Baghouse Stack	$PM_{10}$	0.05	0.01
BP-2	Batching/Milling/Glaze Prep/ Glaze Lines 1 and 2 Baghouse Stack	PM <sub>10</sub> Pb	4.11 0.0003	17.53 0.001
BP-3	Spray Dryers 1 and 2 Baghouse Stack	$\begin{array}{c} PM_{10} \\ VOC \\ CO \\ NO_x \\ SO_2 \end{array}$	5.14 0.36 2.22 5.38 0.04	21.91 1.56 9.48 22.92 0.16
CS	Press(1-9)/Glaze(3-9) Baghouse Stack	PM <sub>10</sub> Pb	8.85 0.0003	37.70 0.001
PR-1	Dryer 1 Stack	$\begin{array}{c} PM_{10} \\ VOC \\ CO \\ NO_{x} \\ SO_{2} \end{array}$	0.19 0.01 0.02 0.10 0.01	0.82 0.04 0.09 0.43 0.04
PR-2	Dryer 2 Stack	$PM_{10}$ VOC CO $NO_x$ $SO_2$	0.19 0.01 0.02 0.10 0.01	0.82 0.04 0.09 0.43 0.04

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	<u>TPY</u>
PR-3	Dryer 3 Stack	$\begin{array}{c} PM_{10} \\ VOC \\ CO \\ NO_{x} \\ SO_{2} \end{array}$	0.19 0.01 0.02 0.10 0.01	0.82 0.04 0.09 0.43 0.04
PR-4	Dryer 4 Stack	$PM_{10}$ VOC CO $NO_x$ $SO_2$	0.19 0.01 0.02 0.10 0.01	0.82 0.04 0.09 0.43 0.04
PR-5	Dryer 5 Stack	$PM_{10}$ VOC CO $NO_x$ $SO_2$	0.19 0.01 0.02 0.10 0.01	0.82 0.04 0.09 0.43 0.04
PR-6	Dryer 6 Stack	$PM_{10}$ VOC CO $NO_x$ $SO_2$	0.19 0.01 0.02 0.10 0.01	0.82 0.04 0.09 0.43 0.04
PR-7	Dryer 7 Stack	$PM_{10}$ $VOC$ $CO$ $NO_x$ $SO_2$	0.19 0.01 0.02 0.10 0.01	0.82 0.04 0.09 0.43 0.04

Emission	Source	Air	Contaminant	Emission Ra	
Point No. (1)	Name (2)		Name (3)	lb/hr	<u>TPY</u>
KS-1	Kiln 1 Stack	HCI Pb	PM <sub>10</sub> ** VOC CO NO <sub>x</sub> SO <sub>2</sub> HF 1.02 0.01	2.18 0.23 0.27 2.90 0.19 1.21 4.35 0.06	9.31 1.00 1.19 12.71 0.81 5.14
KS-2	Kiln 2 Stack	Pb	PM <sub>10</sub> ** VOC CO NO <sub>x</sub> SO <sub>2</sub> HF HCI 0.01	3.15 0.21 0.25 2.66 0.17 1.11 0.94 0.04	13.43 0.92 1.10 11.65 0.74 4.72 3.99
KS-3	Kiln 3 Stack	HCI	PM <sub>10</sub> ** VOC CO NO <sub>x</sub> SO <sub>2</sub> HF 0.94 Pb	1.20 0.21 0.25 2.66 0.17 1.11 3.99 0.01	5.12 0.92 1.10 11.65 0.74 4.72
KS-4	Kiln 4 Stack		PM <sub>10</sub> ** VOC CO NO <sub>x</sub> SO <sub>2</sub> HF HCI Pb	1.75 0.31 0.36 3.87 0.25 1.61 1.36 0.02	7.45 1.34 1.59 16.95 1.08 6.86 5.80 0.06
KC-1	Kiln 1 Cooler Stack		PM <sub>10</sub> ** HF	2.25 0.10	9.59 0.42

Emission	Source Air (		Contaminant	Emission Rates *	
Point No. (1)	Name (2)		Name (3)	lb/hr	TPY
	, ,		HCI Pb	0.27 0.002	1.17 0.01
KC-2	Kiln 2 Cooler Stack	HCI	PM <sub>10</sub> ** HF 0.25 Pb	0.26 0.09 1.07 0.0008	1.11 0.39 0.003
KC-3	Kiln 3 Cooler Stack	HCI	PM <sub>10</sub> ** HF 0.25 Pb	1.20 0.09 1.07 0.0008	5.11 0.39 0.003
KC-4	Kiln 4 Cooler Stack		PM <sub>10</sub> ** HF HCl Pb	1.75 0.13 0.37 0.001	7.44 0.56 1.56 0.01
F-1	Raw Material Stockpiles (4) (Stockpile Nos. 1-3)		PM PM <sub>10</sub>	-	0.32 0.16

<sup>(1)</sup> Emission point identification - either specific equipment designation or emission point number from a plot plan.

<sup>(2)</sup> Specific point source names. For fugitive sources use area name or fugitive source name.

(3) PM - particulate matter, suspended in the atmosphere, including PM<sub>10</sub>

PM<sub>10</sub> - particulate matter equal to or less than 10 microns. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.

Pb - lead or lead compounds and separate from PM<sub>10</sub>. (1/98)

VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

CO - carbon monoxide

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

SO<sub>2</sub> - sulfur dioxide HF - hydrogen fluoride

HCI - hydrogen chloride (02/02)

- (4) Fugitive emissions are an estimate only.
- \* Emission rates are based on and the facilities are limited by the following maximum operating schedule and material throughput rates: (2/06)

<u>24 Hrs/day 7 Days/week 52 Weeks/year 8,520 Total hrs/year</u>

Kiln No. 1 Throughput: <u>6.61</u> Tons/hour Kiln No. 2 Throughput: <u>6.06</u> Tons/hour Kiln No. 3 Throughput: <u>6.06</u> Tons/hour Kiln No. 4 Throughput: <u>8.82</u> Tons/hour

Total Annual Kiln Throughput (combined): 234,790 Tons/year

(All kilns operate <u>8,760</u> Total hrs/year which includes 240 hrs/year for natural gas combustion only)

\*\* Ammonium chloride emissions constitute a portion of the PM<sub>10</sub> emissions. **(02/02)** 

Dated February 3, 2006