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-2 | Batching/Milling/Glaze Prep/Glaze Lines 1 and Baghouse Stack (Baghouses BP-2A, BP-2B, BP-2C, and BP-2D) | PM/PM ₁₀ CR ⁶⁺ (6) | 4.86 0.01 | 20.70 0.02 |
| BP-3 | Spray Dryers 1 and 2 Baghouse Stack (Baghouses BP-3, BP- 4A, and BP-4B) | PM/PM ₁₀ SO ₂ NO _x CO VOC | 5.13 0.63 4.63 3.89 0.25 | 21.84 2.68 19.74 16.58 1.09 |
| CS | Presses 1-7 and Glaze Lines 3-9 Baghouse Stack (Baghouses CS-1, CS-2, CS-3, and CS-4) | PM/PM ₁₀ CR ⁶⁺ (6) | 8.85 <0.01 | 37.70 0.02 |
| PR-1 | Press Dryer 1 | PM/PM_{10} SO_2 NO_x CO VOC | 0.38 <0.01 0.13 2.54 0.01 | 1.62 0.02 0.57 10.85 0.05 |
| PR-2 | Press Dryer 2 | PM/PM ₁₀ SO ₂ NO _x CO | 0.38 <0.01 0.13 2.54 | 1.62 0.02 0.57 10.85 |

VOC 0.01 0.05

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | <u>Emissio</u> lb/hr | on Rates TPY |
|---------------------------|--------------------|--|---------------------------------------|---------------------------------------|
| PR-3 | Press Dryer 3 | PM/PM ₁₀ SO ₂ NO _x CO VOC | 0.38 <0.01 0.13 2.54 0.01 | 1.62 0.02 0.57 10.85 0.05 |
| PR-4 | Press Dryer 4 | PM/PM ₁₀ SO ₂ NO _x CO VOC | 0.38 <0.01 0.13 2.54 0.01 | 1.62 0.02 0.57 10.85 0.05 |
| PR-5 | Press Dryer 5 | PM/PM ₁₀ SO ₂ NO _x CO VOC | 0.38 <0.01 0.13 2.54 0.01 | 1.62 0.02 0.57 10.85 0.05 |
| PR-6 | Press Dryer 6 | PM/PM ₁₀ SO ₂ NO _x CO VOC | 0.38 <0.01 0.13 2.54 0.01 | 1.62 0.02 0.57 10.85 0.05 |
| PR-7 | Press Dryer 7 | PM/PM ₁₀ SO ₂ NO _x CO VOC | 0.38 <0.01 0.13 2.54 0.01 | 1.62 0.02 0.57 10.85 0.05 |

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | <u>Emissio</u> lb/hr | on Rates TPY |
|---------------------------|--------------------|---|--|---|
| KS-1 | Kiln 1 Stack | PM/PM ₁₀ (7) SO ₂ NO _x CO VOC HF HCI Pb (5) | 2.44 2.94 1.96 5.54 0.76 1.35 1.14 0.01 | 10.41 10.65 7.28 19.49 2.77 5.76 4.87 0.05 |
| KS-2 | Kiln 2 Stack | PM/PM ₁₀ SO ₂ NO _x CO VOC HF HCI Pb (5) | 3.47 2.65 1.77 5.00 0.69 1.22 1.03 0.01 | 14.79 9.60 6.56 17.56 2.50 5.19 4.39 0.05 |
| KS-3 | Kiln 3 Stack | PM/PM_{10} (7) SO_2 NO_x CO VOC HF HCI Pb (5) | 3.47 2.65 1.77 5.00 0.69 1.22 1.03 0.01 | 14.79 9.60 6.56 17.56 2.50 5.19 4.39 0.05 |
| KS-4 | Kiln 4 Stack | PM/PM_{10} (7) SO_2 NO_x CO VOC HF HCI | 1.97 3.95 2.63 7.43 1.02 1.81 1.53 | 8.41 14.28 9.76 26.12 3.72 7.72 6.53 |

| | | Pb (5) | 0.02 | 0.08 |
|-------|---------------------------------|--|---------------------------------------|--|
| KC-1 | Kiln Cooler 1 Stack | PM/PM ₁₀ (7) HF HCl Pb (5) | 2.52 0.11 0.31 <0.01 | 10.73 0.47 1.32 0.01 |
| KC-2 | Kiln Cooler 2 Stack | PM/PM ₁₀ (7) HF HCl Pb (5) | 0.29 0.10 0.28 <0.01 | 1.22 0.43 1.19 <0.01 |
| KC-3 | Kiln Cooler 3 Stack | PM/PM ₁₀ (7) HF HCl Pb (5) | 1.32 0.10 0.28 <0.01 | 5.63 0.43 1.19 <0.01 |
| KC-4 | Kiln Cooler 4 Stack | PM/PM ₁₀ (7) HF HCl Pb (5) | 1.97 0.15 0.42 <0.01 | 8.38 0.63 1.77 <0.01 |
| BP-5 | Spray Dryer 3 Baghouse Stack | PM/PM ₁₀ SO ₂ NO _x CO VOC | 1.93 0.66 4.39 3.69 0.24 | 8.22 2.82 18.71 15.72 1.03 |
| PR-10 | Press Dryer 10 | PM/PM ₁₀ SO ₂ NO _x CO VOC | 0.38 <0.01 0.14 2.54 0.01 | 1.62 0.02 0.64 10.85 0.05 |

| Emission | Source | Air Contaminant | Emission Rates | |
|---------------|---|--|---------------------------------------|---------------------------------------|
| Point No. (1) | Name (2) | Name (3) | lb/hr | TPY |
| PR-11 | Press Dryer 11 | PM/PM ₁₀ SO ₂ NO _x CO VOC | 0.38 <0.01 0.14 2.54 0.01 | 1.62 0.02 0.64 10.85 0.05 |
| PR-12 | Press Dryer 12 | PM/PM ₁₀ SO ₂ NO _x CO VOC | 0.38 <0.01 0.14 2.54 0.01 | 1.62 0.02 0.64 10.85 0.05 |
| PR-13 | Press Dryer 13 | PM/PM ₁₀ SO ₂ NO _x CO VOC | 0.38 <0.01 0.14 2.54 0.01 | 1.62 0.02 0.64 10.85 0.05 |
| PR-14 | Press Dryer 14 | PM/PM ₁₀ SO ₂ NO _x CO VOC | 0.38 <0.01 0.14 2.54 0.01 | 1.62 0.02 0.64 10.85 0.05 |
| CS-B | Presses 10-16, Conveyor Systems, and Plant 2 Glaze Lines 10-19 Baghouse Stack (Baghouses P2-CSA and P2-CS2B) | PM/PM ₁₀ CR ⁶⁺ (6) | 2.14 <0.01 | 9.13 0.01 |

| Emission | Source | Air Contaminant | Emission Rates | |
|---------------|----------------------|---|---|--|
| Point No. (1) | Name (2) | Name (3) | lb/hr | TPY |
| KS-A1 | Kiln A Layer 1 Stack | PM/PM ₁₀ (7) SO ₂ NO _x CO VOC HF HCI Pb (5) | 1.55 14.66 2.26 6.40 0.88 1.56 1.32 0.01 | 5.83 56.43 9.85 22.68 3.22 6.64 5.61 0.05 |
| KS-A2 | Kiln A Layer 2 Stack | PM/PM_{10} (7) SO_2 NO_x CO VOC HF HCl Pb (5) | 1.55 14.66 2.26 6.40 0.88 1.56 1.32 0.01 | 5.83 56.43 9.85 22.68 3.22 6.64 5.61 0.05 |
| KS-B1 | Kiln B Layer 1 Stack | PM/PM_{10} (7) SO_2 NO_x CO VOC HF HCI Pb (5) | 1.55 14.66 2.26 6.40 0.88 1.56 1.32 0.01 | 5.83 56.43 9.85 22.68 3.22 6.64 5.61 0.05 |
| KS-B2 | Kiln B Layer 2 Stack | PM/PM_{10} (7) SO_2 NO_x CO VOC HF HCI | 1.55 14.66 2.26 6.40 0.88 1.56 1.32 | 5.83 56.43 9.85 22.68 3.22 6.64 5.61 |

| | | Pb (5) | 0.01 | 0.05 |
|-------|-----------------------|---|---|---|
| KC-A1 | Kiln A Cooler Stack 1 | PM/PM ₁₀ (7) HF HCl Pb (5) | 0.30 0.13 0.36 <0.01 | 1.27 0.54 1.53 0.01 |
| KC-A2 | Kiln A Cooler Stack 2 | PM/PM ₁₀ (7) HF HCl Pb (5) | 0.30 0.13 0.36 <0.01 | 1.27 0.54 1.53 0.01 |
| KC-B1 | Kiln B Cooler Stack 1 | PM/PM ₁₀ (7) HF HCl Pb (5) | 0.30 0.13 0.36 <0.01 | 1.27 0.54 1.53 0.01 |
| KC-B2 | Kiln B Cooler Stack 2 | PM/PM ₁₀ (7) HF HCl Pb (5) | 0.30 0.13 0.36 <0.01 | 1.27 0.54 1.53 0.01 |
| KD-A | Kiln A Pre-Dryer | PM/PM ₁₀ (7) SO ₂ NO _x CO VOC HF HCI Pb (5) | 0.42 0.07 0.20 8.94 8.05 0.09 0.07 <0.01 | 1.79 0.28 0.92 33.48 29.16 0.36 0.29 <0.01 |

| Emission | Source | Air Contaminant | Emission Rates | |
|---------------|---|---|---|---|
| Point No. (1) | Name (2) | Name (3) | lb/hr | TPY |
| KD-B | Kiln B Pre-Dryer | PM/PM ₁₀ (7) SO ₂ NO _x CO VOC HF HCI Pb (5) | 0.42 0.07 0.20 8.94 8.05 0.09 0.07 <0.01 | 1.79 0.28 0.92 33.48 29.16 0.36 0.29 <0.01 |
| F-1 | Raw Material Stockpiles (Stockpiles Nos. 1-3) (4) | PM PM ₁₀ | 0.08 0.04 | 0.37 0.18 |

- (1) Emission point identification either specific equipment designation or emission point number from a plot plan.
- (2) Specific point source names. For fugitive sources, use an area name or fugitive source name.
- (3) PM particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}
 - PM₁₀ particulate matter equal to or less than 10 microns in diameter
 - PM_{2.5} particulate matter equal to or less than 2.5 microns in diameter
 - SO₂ sulfur dioxide
 - NO_x total oxides of nitrogen
 - VOC volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 - CO carbon monoxide
 - HF hydrogen fluoride
 - HCl hydrogen chloride (02/02)
 - Pb lead or lead compounds (1/98)
 - Cr⁶⁺ hexavalent chromium **(03/07)**
- (4) Fugitive emissions are an estimate only.
- (5) Lead emissions are included in the total hourly and annual PM/PM₁₀ emission rates.
- (6) Hexavalent chromium emissions are included in the total hourly and annual PM/PM₁₀ emission rates. **(03/07)**
- (7) Ammonium chloride emissions constitute a portion of the PM₁₀ emissions. **(02/02)**

Dated February 10, 2010