#### 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.

|              |                                 | AIR CON                        | IAMINANIS D   |            |  |
|--------------|---------------------------------|--------------------------------|---------------|------------|--|
| Emission     | Source                          | Air Contaminant                | <u>Emissi</u> | on Rates * |  |
| Point No. (2 | 1)                              | Name (2)                       |               | Name       |  |
| (3)          | lb/hr                           | TPY                            |               |            |  |
| (3)          | 18/111                          | <u> </u>                       |               |            |  |
| KS-1a/KS-1   | Dry Kiln Exhaust Baghouse 63.24 | Duct (5)PM (filt               | erable)       | 14.44      |  |
|              |                                 | PM <sub>10</sub> (filtera      | hle)12.13     | 53.12      |  |
|              |                                 | PM (total)                     | 25.44         | 111.42     |  |
|              |                                 | PM <sub>10</sub> (total)       | 21.37         | 93.59      |  |
|              |                                 | $NO_{x}(6)(7)$                 | 337.00        | 1478.00    |  |
|              |                                 | SO <sub>2</sub>                | (8)           | (8)        |  |
|              |                                 | H <sub>2</sub> SO <sub>4</sub> | (8)           | (8)        |  |
|              |                                 | CO                             | 522.50        | 2288.55    |  |
|              |                                 | VOC                            |               |            |  |
|              |                                 |                                | 97.55         | 320.44     |  |
|              |                                 | HC1                            | 2.74          | 12.00      |  |
| 9a           | Alkali Bypass Baghouse          | PM (filterab                   | Ja) 3 06      | 13.41      |  |
| Ja           | Stack (5)                       | PM <sub>10</sub> (filtera      |               | 11.27      |  |
|              | Stack (3)                       | PM (total)                     | 5.39          | 23.63      |  |
|              |                                 | -                              | 4.53          | 19.85      |  |
|              |                                 | PM <sub>10</sub> (total)       |               |            |  |
|              |                                 | NO <sub>x</sub>                | 150.00        | 219.00     |  |
|              |                                 | SO <sub>2</sub>                | (8)           | (8)        |  |
|              |                                 | H <sub>2</sub> SO <sub>4</sub> | (8)           | (8)        |  |
|              |                                 | CO                             | 100.00        | 438.00     |  |
|              |                                 | VOC                            | 2.87          | 9.44       |  |
| 4            | Coal Bins Baghouse              | PM                             | 0.17          | 0.75       |  |
| 4            |                                 |                                | 0.17          |            |  |
|              | Stack                           | $PM_{10}$                      | 0.17          | 0.75       |  |
| 7            | Blend Silo Roof Baghouse        | PM                             | 0.69          | 3.00       |  |
| -            | Stack                           | PM <sub>10</sub>               | 0.69          | 3.00       |  |
|              | Judin                           |                                | 0.05          | 3.00       |  |
| 7A           | Dry Kiln Preheat Tower Ba       | ghouse                         | PM            | 0.35       |  |

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| Emission Point No. (1 |   | Air Contaminant<br>Name (2)                                | <u>Emissio</u>                               | n Rates *<br>Name                              |
|-----------------------|---|--|--|--|
| (3)                   | lb/hr   | TPY  |  |  |
| 8                     | Dry Process Blend Tanks Bo                    | PM <sub>10</sub><br>ottom                                  | 0.35<br>PM                                   | 1.52<br>0.11                                   |
|                       | Baghouse Stack                                | PM <sub>10</sub>   | 0.11   | 0.48   |
| 9b                    | Alkali Bypass Bin Baghouse<br>Stack           | PM<br>PM <sub>10</sub>                                     | 0.21<br>0.21                                 | 0.90<br>0.90                                   |
| 10                    | Coke Silo Dust Collector                      | PM<br>PM <sub>10</sub>                                     | 0.17<br>0.17                                 | 0.75<br>0.75                                   |
| 11                    | Dry System Clinker Cooler<br>Baghouse Stack   | PM<br>PM <sub>10</sub>                                     | 12.25<br>12.25                               | 53.66<br>53.66                                 |
| 14                    | Underground Clinker Tunne<br>Baghouse Stack   | PM<br>PM <sub>10</sub>                                     | 0.28<br>0.28                                 | 1.22<br>1.22                                   |
| 15                    | Lime Injection Silo Baghou                    | use PM<br>PM <sub>10</sub>                                 | 0.09<br>0.09                                 | 0.38<br>0.38                                   |
| 25                    | Cement Silo No. 12 Baghous                    | se PM<br>PM <sub>10</sub>                                  | 0.30<br>0.30                                 | 1.31<br>1.31                                   |
| 26                    | Cement Silo No. 14 Baghous                    | se PM<br>PM <sub>10</sub>                                  | 0.30<br>0.30                                 | 1.31<br>1.31                                   |
| 31                    | Solid Fuel Mill and Heater<br>Dust Collectors | PM PM <sub>10</sub> SO <sub>2</sub> NO <sub>x</sub> CO VOC | 2.63<br>2.63<br>0.17<br>1.21<br>1.02<br>0.07 | 11.51<br>11.51<br>0.76<br>5.32<br>4.47<br>0.29 |
| 32                    | Fuel Bin Baghouse Stack                       | PM<br>PM <sub>10</sub>                                     | 1.18<br>1.18                                 | 5.18<br>5.18                                   |

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| Emission Point No. (1 | Source<br>L)<br>1b/hr                        | Air Contaminant<br>Name (2)<br>TPY | <u>Emission</u> | Rates *<br>Name |
|-----------------------|--|------------------------------------|-----------------|-----------------|
| 35                    | Diesel Fuel Tank                             | VOC                                | 0.01            | 0.12            |
|                       |  |                                    |                 |                 |
| 36                    | Gasoline Fuel Tank                           | VOC                                | 0.18            | 1.67            |
| 38                    | Fringe Material Baghouse 9                   | Stack                              | PM              | 0.13            |
|                       |  | PM <sub>10</sub>                   | 0.13            | 0.56            |
| 39                    | Turn Head Material Diverto<br>Baghouse Stack | er PM<br>PM <sub>10</sub>          | 0.26<br>0.26    | 1.13<br>1.13    |
| 40                    | Feed Tank Baghouse Stack                     | PM<br>PM <sub>10</sub>             | 0.26<br>0.26    | 1.13<br>1.13    |
| 41a                   | Separator Baghouse Stack                     | (4) PM<br>PM <sub>10</sub>         | 2.98<br>2.98    | 13.06<br>13.06  |
| 41b                   | Mill Baghouse Stack (4)                      | PM<br>PM <sub>10</sub>             | 1.20<br>1.20    | 5.26<br>5.26    |
| 43a                   | Limestone Feeding Bin Bagl                   | nouse                              | PM              | 0.86            |
|                       |  | $PM_{10}$                          | 0.86            | 3.75            |
| 45                    | Cement Storage Silo 15A                      | PM<br>PM <sub>10</sub>             | 0.77<br>0.77    | 3.38<br>3.38    |
| 46                    | Cement Storage Silo 15B                      | PM<br>PM <sub>10</sub>             | 0.77<br>0.77    | 3.38<br>3.38    |
| 47                    | Cement Storage Silo 16                       | PM<br>PM <sub>10</sub>             | 0.77<br>0.77    | 3.38<br>3.38    |
| 48                    | Cement Bulk Loadout bagho                    | use PM<br>PM <sub>10</sub>         | 0.26<br>0.26    | 1.13<br>1.13    |

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| Emission Point No. (1 | Source<br>L)                    | Air Contaminant<br>Name (2) | <u>Emissio</u> | n Rates *<br>Name |
|-----------------------|---------------------------------|-----------------------------|----------------|-------------------|
| (3)                   | lb/hr                           | TPY                         |                |                   |
| 49                    | Cement Bulk Loadout bagho       | use PM<br>PM <sub>10</sub>  | 0.26<br>0.26   | 1.13<br>1.13      |
| 61                    | Cement Storage Silo             | PM<br>PM <sub>10</sub>      | 0.43<br>0.43   | 1.88<br>1.88      |
| 321                   | CKD return baghouse             | PM<br>PM <sub>10</sub>      | 0.04<br>0.04   | 0.19<br>0.19      |
| 411                   | Bagging machine feed bin   0.56 | baghouse                    | PM             | 0.13              |
|                       | 0.30                            | PM <sub>10</sub>            | 0.13           | 0.56              |
| F-B-1                 | Solid Fuel Drop to Bin (9)      | ) PM<br>PM <sub>10</sub>    | 0.04<br>0.02   | 0.02<br>0.01      |
| F-B-2                 | Solid Fuel Bin Drop to Co. 0.02 | nveyor (9)                  | PM             | <0.01             |
| 0.02                  | 0.02                            | PM <sub>10</sub>            | <0.01          | 0.01              |
| F-B-3                 | Solid Fuel Conveyor Drop 0.02   | to Bins (9)                 | PM             | <0.01             |
|                       |                                 | $PM_{10}$                   | <0.01          | 0.01              |
| F-B-4                 | Feed Tank Drop to Drag Cha      | ain (9)                     | PM             | <0.01             |
|                       | 0.02                            | $PM_{10}$                   | <0.01          | 0.01              |
| F-C-1                 | Clinker Drop to Shuttle Bo      | elt (9)                     | PM             | 0.30              |
|                       | 1.50                            | $PM_{10}$                   | 0.14           | 0.61              |
| F-C-2                 | Shuttle Belt Drop to Clink 1.30 | ker Barn (9)                | PM             | 0.30              |
|                       | 1.50                            | $PM_{10}$                   | 0.14           | 0.61              |

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| Emission Point No. (1 |                                 | Air Contaminant<br>Name (2) | <u>Emissio</u> | n Rates *<br>Name |
|-----------------------|---------------------------------|-----------------------------|----------------|-------------------|
| (3)                   | <u>lb/hr</u>                    | <u>TPY</u>                  |                |                   |
| F-H-2                 | Solid Fuel Drop to Conveyo 0.02 | r (9)                       | PM             | 0.04              |
|                       | 0.02                            | PM <sub>10</sub>            | 0.02           | 0.01              |
| F-LC-1                | Solid Fuel Lump Crusher (9      | ) PM<br>PM <sub>10</sub>    | 0.04<br>0.02   | 0.02<br>0.01      |
| F-L-2                 | Solid Fuel Drop to Hopper       | (9) PM<br>PM <sub>10</sub>  | 0.04<br>0.02   | 0.02<br>0.01      |
| F-P-1                 | Solid Fuel Storage Drop to 0.16 | Pile (9)                    | PM             | 0.37              |
| 0.10                  | 0.10                            | $PM_{\mathtt{10}}$          | 0.18           | 0.07              |
| F-P-2                 | Wind Pile Erosion (9)           | PM<br>PM <sub>10</sub>      |                | 0.36<br>0.18      |
| F-P-7                 | Kiln Dust Drop to Piles (9      | ) PM<br>PM <sub>10</sub>    | <0.01<br><0.01 | <0.01<br><0.01    |
| F-P-12                | CKD Dry Kiln Pug Mill to T      | ruck (9)                    | PM             | <0.01             |
|                       | 10.01                           | $PM_{\mathtt{10}}$          | <0.01          | <0.01             |
| F-Q-4                 | Quarry Loader Drop to Truc 0.43 | k (9)                       | PM             | 0.13              |
|                       |                                 | $PM_{10}$                   | 0.06           | 0.20              |
| F-Q-6                 | Primary Crusher (9)             | PM<br>PM <sub>10</sub>      | 0.01<br><0.01  | 0.02<br>0.01      |
| F-R-2                 | Belt Transfer Drop (9)          | PM<br>PM <sub>10</sub>      | 0.13<br>0.06   | 0.43<br>0.20      |

| Emission Point No. (1 | Source                             | Air Contaminant<br>Name (2) | <u>Emission</u> | Rates *<br>Name |
|-----------------------|------------------------------------|-----------------------------|-----------------|-----------------|
| (3)                   | lb/hr                              | TPY_                        |                 |                 |
| F-R-3                 | Belt Drop to Tabernacle T 0.43     | ransfer (9)                 | PM              | 0.13            |
|                       | 0.15                               | $PM_{10}$                   | 0.06            | 0.20            |
| F-R-6                 | Feed Belt Drop to RMS Shu          | ttle Belt (9)               | PM              | 0.09            |
|                       | 0.10                               | PM <sub>10</sub>            | 0.04            | 0.19            |
| F-R-7                 | RMS Shuttle Belt Drop to 0.40      | Pile (9)                    | РМ              | 0.09            |
|                       | 0.40                               | PM <sub>10</sub>            | 0.04            | 0.19            |
| F-R-8                 | RMS Feeder Drop to Belt (          | 9) PM<br>PM <sub>10</sub>   | 0.09<br>0.04    | 0.40<br>0.19    |
| F-R-9                 | RMS Belt Drop to Cross Plant 0.40  | ant Belt (9)                | PM              | 0.09            |
|                       | 0.40                               | PM <sub>10</sub>            | 0.04            | 0.19            |
| F-R-10                | Cross Plant Belt Drop to 9         | Shuttle Belt (9)            | PM              | 0.09            |
|                       |                                    | $PM_{10}$                   | 0.04            | 0.19            |
| F-R-11                | Shuttle Belt Drop to Dry Feed 0.40 | Feed Bins (9)               | PM              | 0.09            |
|                       |                                    | $PM_{10}$                   | 0.04            | 0.19            |
| F-R-12                | Feed Bins Drop to Roller I<br>0.40 | Mill Belt (9)               | PM              | 0.09            |
|                       |                                    | $PM_{10}$                   | 0.04            | 0.19            |
| F-TR-2                | Solid Fuel Truck Unloading 0.16    | g Drop (9)                  | PM              | 0.37            |

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| Emission Point No. (1 |                                  | Air Contaminant<br>Name (2)   | <u>Emission</u> | n Rates *<br>Name |
|-----------------------|----------------------------------|-------------------------------|-----------------|-------------------|
| (3)                   | lb/hr                            | <u>TPY</u>                    |                 |                   |
|                       |                                  | PM <sub>10</sub>              | 0.18            | 0.07              |
| D-2                   | Dry Kiln Emergency Diesel 0.99   | Engine                        | $NO_x$          | 2.26              |
|                       |                                  | CO                            | 0.49            | 0.21              |
|                       |                                  | VOC                           | 0.18            | 0.08              |
|                       |                                  | PM <sub>10</sub>              | 0.16            | 0.07              |
|                       |                                  | SO <sub>2</sub>               | 0.15            | 0.07              |
| D-3                   | Emergency Fire Pump Diese        | l Engine                      | $NO_{x}$        | 3.88              |
|                       | -                                | CO                            | 0.84            | 0.37              |
|                       |                                  | VOC                           | 0.31            | 0.14              |
|                       |                                  | PM <sub>10</sub>              | 0.28            | 0.12              |
|                       |                                  | SO <sub>2</sub>               | 0.26            | 0.11              |
| FEL-DRY               | Front End Loader (Dry Prod       | cess) (9)<br>PM <sub>10</sub> | PM<br><0.01     | <0.01<br><0.01    |
|                       |                                  | 1 1.110                       | <b>\0.01</b>    | <b>\0.01</b>      |
| DROP-DRY              | Conveyor Drop (Dry Process) 0.03 | s) (9)                        | PM              | 0.28              |
|                       |                                  | $PM_{10}$                     | 0.13            | 0.01              |
| DEG 1- 6              | Degreasers (9)                   | VOC                           | 10.31           | 1.34              |
| TMH 1                 | Synthetic Gypsum Unloading 0.07  | g (9)                         | PM              | 0.02              |
|                       | 0.07                             | PM <sub>10</sub>              | 0.01            | 0.04              |
| TMH 2                 | Synthetic Gypsum Hopper Lo       | oading (9)                    | PM              | 0.01              |
|                       | 0.02                             | PM <sub>10</sub>              | <0.01           | <0.01             |

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| Emission Point No. (1 | Source<br>.)                       | Air Contaminant<br>Name (2) | <u>Emission</u> | Rates *<br>Name |
|-----------------------|------------------------------------|-----------------------------|-----------------|-----------------|
| (3)                   | lb/hr                              | TPY                         |                 |                 |
| TMH 3                 | Synthetic Gypsum Transfer          | Dron (9)                    | PM              | <0.01           |
| 11111 3               | <0.01                              | ы ор (3)                    |                 | (0.01           |
|                       |                                    | $PM_{10}$                   | <0.01           | <0.01           |
| TMH 4                 | Synthetic Gypsum Transfer <0.01    | Drop (9)                    | PM              | <0.01           |
|                       |                                    | $PM_{10}$                   | <0.01           | <0.01           |
| TMH 5                 | Synthetic Gypsum Pile (9)          | PM<br>PM <sub>10</sub>      |                 | 0.60<br>0.30    |
| TMH 6                 | Synthetic Gypsum Unloading         | g (9)                       | РМ              | <0.01           |
|                       | 0.02                               | PM <sub>10</sub>            | <0.01           | 0.01            |
| TMH 7                 | Synthetic Gypsum Hopper Lo<br>0.01 | oading (9)                  | PM              | <0.01           |
|                       |                                    | $PM_{10}$                   | <0.01           | <0.01           |
| TMH 8                 | Synthetic Gypsum Transfer <0.01    | Drop (9)                    | PM              | <0.01           |
|                       |                                    | $PM_{10}$                   | <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 particulate matter greater than 10 microns is emitted.

 $NO_x$  - 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 PM and  $P\dot{M}_{10}$  filterable rates are based on front-half of sampling train only.
- (6) The hourly  $NO_x$  emission limit for the dry kiln is based on a 30-day rolling  $NO_x$  emissions average. A 30-day rolling average is generated for each day as the average of all the day's hourly  $NO_x$  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  $NO_x$  at least once every week. (4/08)
- (7) The facility is complying with the alternative reduction technologies allowed under Title 30 Texas Administrative Code Chapter 117.
- (8) The  $SO_2$  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  $H_2SO_4$  emissions from EPNs KS-1a and 9a combined are limited to  $\underline{138.00}$  lb/hr and  $\underline{81.48}$  tpy.
- (9) Emission limits are an estimate only and only the represented throughputs presented in the permit application are enforceable. (08/07)
  - \* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

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|-------|----|---------|------|-----|--------------|
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|       | EMISSION | SOURCES - MAX | XIMUM A | LLOWABLE EMISSI | ON RATES |                    |
|-------|----------|---------------|---------|-----------------|----------|--------------------|
| -     | 24       | _ Days/week   | 7       | Weeks/year      | 52       | or Hrs/year        |
| 8,760 |          |               |         |                 |          |                    |
|       |          |               |         |                 |          |                    |
|       |          |               |         |                 | Dated    | <u>May 7, 2008</u> |