

Emission Sources - Maximum Allowable Emission Rates

Permit Number 7715

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, sources, and related activities. 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) | Emission Rates (7) | |
|------------------------|-----------------------------------|--------------------------|--------------------|---------|
| | | | lbs/hour | TPY (4) |
| 01 | Low Purity Storage Stock Pile (5) | PM | -- | 1.09 |
| | | PM ₁₀ | -- | 0.54 |
| | | PM _{2.5} | -- | 0.54 |
| 02 | Secondary Crusher Baghouse Stack | PM | 0.69 | 3.00 |
| | | PM ₁₀ | 0.69 | 3.00 |
| | | PM _{2.5} | 0.69 | 3.00 |
| 03 | No. 4 Raymond Mill Baghouse Stack | PM | 0.77 | 3.38 |
| | | PM ₁₀ | 0.77 | 3.38 |
| | | PM _{2.5} | 0.77 | 3.38 |
| | | SO ₂ | <0.01 | 0.01 |
| | | NO _x | 0.49 | 2.15 |
| | | CO | 0.41 | 1.80 |
| | | VOC | 0.03 | 0.12 |
| | | Formaldehyde (6) | <0.01 | <0.01 |
| 04 | No. 2 Raymond Mill Baghouse Stack | PM | 0.73 | 3.19 |
| | | PM ₁₀ | 0.73 | 3.19 |
| | | PM _{2.5} | 0.73 | 3.19 |
| | | SO ₂ | <0.01 | 0.01 |
| | | NO _x | 0.20 | 0.86 |
| | | CO | 0.16 | 0.72 |
| | | VOC | 0.01 | 0.05 |
| | | Formaldehyde (6) | <0.01 | <0.01 |

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| | | | | |
|-----|-----------------------------------|-------------------|-------|-------|
| 05 | No. 3 Raymond Mill Baghouse Stack | PM | 1.03 | 4.51 |
| | | PM ₁₀ | 1.03 | 4.51 |
| | | PM _{2.5} | 1.03 | 4.51 |
| | | SO ₂ | <0.01 | 0.01 |
| | | NO _x | 0.20 | 0.86 |
| | | CO | 0.16 | 0.72 |
| | | VOC | 0.01 | 0.05 |
| | | Formaldehyde (6) | <0.01 | <0.01 |
| 06A | No. 5 Raymond Mill Baghouse Stack | PM | 0.77 | 3.38 |
| | | PM ₁₀ | 0.77 | 3.38 |
| | | PM _{2.5} | 0.77 | 3.38 |
| | | SO ₂ | <0.01 | 0.01 |
| | | NO _x | 0.49 | 2.15 |
| | | CO | 0.41 | 1.80 |
| | | VOC | 0.03 | 0.12 |
| | | Formaldehyde (6) | <0.01 | <0.01 |
| 06B | Williams Mill Baghouse Stack | PM | 1.05 | 4.59 |
| | | PM ₁₀ | 1.05 | 4.59 |
| | | PM _{2.5} | 1.05 | 4.59 |
| | | SO ₂ | <0.01 | 0.03 |
| | | NO _x | 1.18 | 5.15 |
| | | CO | 0.99 | 4.33 |
| | | VOC | 0.06 | 0.28 |
| | | Formaldehyde (6) | <0.01 | <0.01 |

| | | | | |
|----|---------------------------------------|-------------------|------|------|
| 07 | No. 1 Calcining Kettle Baghouse Stack | PM | 0.60 | 2.63 |
| | | PM ₁₀ | 0.60 | 2.63 |
| | | PM _{2.5} | 0.60 | 2.63 |

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| | | | | |
|-----|---------------------------------------|-------------------|-------|-------|
| | | SO ₂ | <0.01 | 0.03 |
| | | NO _x | 1.29 | 5.67 |
| | | CO | 1.09 | 4.76 |
| | | VOC | 0.07 | 0.31 |
| | | Formaldehyde (6) | <0.01 | <0.01 |
| 07A | No. 2 Calcining Kettle Baghouse Stack | PM | 0.60 | 2.63 |
| | | PM ₁₀ | 0.60 | 2.63 |
| | | PM _{2.5} | 0.60 | 2.63 |
| | | SO ₂ | <0.01 | 0.03 |
| | | NO _x | 1.18 | 5.15 |
| | | CO | 0.99 | 4.33 |
| | | VOC | 0.06 | 0.28 |
| | | Formaldehyde (6) | <0.01 | <0.01 |
| 08 | No. 3 Calcining Kettle Baghouse Stack | PM | 0.60 | 2.63 |
| | | PM ₁₀ | 0.60 | 2.63 |
| | | PM _{2.5} | 0.60 | 2.63 |
| | | SO ₂ | <0.01 | 0.03 |
| | | NO _x | 1.18 | 5.15 |
| | | CO | 0.99 | 4.33 |
| | | VOC | 0.06 | 0.28 |
| | | Formaldehyde (6) | <0.01 | <0.01 |

| | | | | |
|----|---------------------------------------|-------------------|-------|------|
| 09 | No. 4 Calcining Kettle Baghouse Stack | PM | 0.60 | 2.63 |
| | | PM ₁₀ | 0.60 | 2.63 |
| | | PM _{2.5} | 0.60 | 2.63 |
| | | SO ₂ | <0.01 | 0.03 |
| | | NO _x | 1.18 | 5.15 |
| | | CO | 0.99 | 4.33 |

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| | | | | |
|----|---|-------------------|-------|-------|
| 10 | Multi-Burner Refractory (MBR) Kettle Baghouse Stack | VOC | 0.06 | 0.28 |
| | | Formaldehyde (6) | <0.01 | <0.01 |
| | | PM | 0.99 | 4.32 |
| | | PM ₁₀ | 0.99 | 4.32 |
| | | PM _{2.5} | 0.99 | 4.32 |
| | | SO ₂ | <0.01 | 0.06 |
| | | NO _x | 2.21 | 9.66 |
| | | CO | 1.85 | 8.12 |
| | | VOC | 0.12 | 0.53 |
| 11 | No. 6 Calcining Kettle Baghouse Stack | Formaldehyde (6) | <0.01 | <0.01 |
| | | PM | 0.94 | 4.13 |
| | | PM ₁₀ | 0.94 | 4.13 |
| | | PM _{2.5} | 0.94 | 4.13 |
| | | SO ₂ | <0.01 | 0.04 |
| | | NO _x | 1.47 | 6.44 |
| | | CO | 1.24 | 5.41 |
| | | VOC | 0.08 | 0.35 |
| | | Formaldehyde (6) | <0.01 | <0.01 |
| 12 | No. 7 Calcining Kettle Baghouse Stack | Formaldehyde (6) | <0.01 | <0.01 |
| | | PM | 0.60 | 2.63 |
| | | PM ₁₀ | 0.60 | 2.63 |
| | | PM _{2.5} | 0.60 | 2.63 |
| | | SO ₂ | <0.01 | 0.03 |
| | | NO _x | 1.29 | 5.67 |
| | | CO | 1.09 | 4.76 |
| | | VOC | 0.07 | 0.31 |
| | | Formaldehyde (6) | <0.01 | <0.01 |
| 21 | No. 2 Drying Kiln Exhaust Stack | PM | 6.23 | 39.54 |

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|---------|---|-------------------|-------|-------|
| | | PM ₁₀ | 6.23 | 39.54 |
| | | PM _{2.5} | 6.23 | 39.54 |
| | | SO ₂ | 0.02 | 0.11 |
| | | NO _x | 4.12 | 18.04 |
| | | CO | 3.46 | 15.15 |
| | | VOC | 8.86 | 57.92 |
| | | Formaldehyde (6) | 5.19 | 9.66 |
| 66 | No. 3 Drying Kiln Exhaust Stack | PM | 24.41 | 39.54 |
| | | PM ₁₀ | 24.41 | 39.54 |
| | | PM _{2.5} | 24.41 | 39.54 |
| | | SO ₂ | 0.09 | 0.38 |
| | | NO _x | 14.31 | 62.69 |
| | | CO | 12.02 | 52.66 |
| | | VOC | 34.80 | 57.92 |
| 21 & 66 | Total Annual Emissions from Nos. 2 and 3 Drying Kilns | Formaldehyde (6) | 20.82 | 9.66 |
| | | PM | -- | 39.54 |
| | | PM ₁₀ | -- | 39.54 |
| | | PM _{2.5} | -- | 39.54 |
| | | VOC | -- | 57.92 |
| 27 | No. 2 Silo Baghouse Stack | Formaldehyde (6) | -- | 9.66 |
| | | PM | 0.26 | 1.13 |
| | | PM ₁₀ | 0.26 | 1.13 |
| 28 | No. 2 End Sawing Equipment Baghouse Stack | PM _{2.5} | 0.26 | 1.13 |
| | | PM | 0.43 | 1.88 |
| | | PM ₁₀ | 0.43 | 1.88 |
| 31 | Primary Crushing/Screening (5) | PM _{2.5} | 0.43 | 1.88 |
| | | PM | 0.11 | 0.47 |
| | | PM ₁₀ | 0.05 | 0.22 |
| 40 | Rock Loading (5) | PM _{2.5} | 0.05 | 0.22 |
| | | PM | 0.01 | 0.06 |
| | | PM ₁₀ | 0.01 | 0.03 |

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| | | | | |
|----|---|-------------------|------|------|
| | | PM _{2.5} | 0.01 | 0.03 |
| 43 | Cut Back Saw Baghouse Stack | PM | 0.26 | 1.13 |
| | | PM ₁₀ | 0.26 | 1.13 |
| | | PM _{2.5} | 0.26 | 1.13 |
| 47 | Sluter Machine Baghouse Stack | PM | 0.51 | 2.25 |
| | | PM ₁₀ | 0.51 | 2.25 |
| | | PM _{2.5} | 0.51 | 2.25 |
| 59 | Primary Storage Pile (5) | PM | 0.03 | 0.30 |
| | | PM ₁₀ | 0.03 | 0.15 |
| | | PM _{2.5} | 0.03 | 0.15 |
| 60 | Gypsum Storage Pile (5) | PM | 0.03 | 0.29 |
| | | PM ₁₀ | 0.03 | 0.14 |
| | | PM _{2.5} | 0.03 | 0.14 |
| 62 | Calcined Gypsum Storage Silo Baghouse Stack | PM | 0.44 | 1.93 |
| | | PM ₁₀ | 0.44 | 1.93 |
| | | PM _{2.5} | 0.44 | 1.93 |

| | | | | |
|-----|--|-------------------|-------|-------|
| 63B | Starch Silo Baghouse Stack | PM | 0.10 | 0.45 |
| | | PM ₁₀ | 0.10 | 0.45 |
| | | PM _{2.5} | 0.10 | 0.45 |
| 65 | No. 3 End Sawing Equipment Baghouse Stack | PM | 0.86 | 3.75 |
| | | PM ₁₀ | 0.86 | 3.75 |
| | | PM _{2.5} | 0.86 | 3.75 |
| 67 | Stucco System Baghouse Stack | PM | 0.43 | 1.88 |
| | | PM ₁₀ | 0.43 | 1.88 |
| | | PM _{2.5} | 0.43 | 1.88 |
| 69 | Plant Liquified Petroleum Gas (LPG) Tank (1,000 gallon capacity) | VOC | <0.01 | <0.01 |
| 70 | Plant Diesel Tank (1,000 gallon capacity) | VOC | 0.03 | <0.01 |
| 71 | Quarry Gasoline Tank (1,000 gallon capacity) | VOC | 9.26 | 0.22 |
| 72 | Quarry Small Diesel Tank (300 gallon capacity) | VOC | 0.02 | <0.01 |

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|----|---|-------------------|-------|-------|
| 73 | Quarry Bulk Diesel Tank (15,200 gallon capacity) | VOC | 0.38 | <0.01 |
| 74 | Plant Gasoline Tank (1,000 gallon capacity) | VOC | 9.26 | 0.18 |
| 75 | No. 2 Heat Resistant Accelerator (HRA) Ball Mill Baghouse Stack | PM | 0.09 | 0.38 |
| | | PM ₁₀ | 0.09 | 0.38 |
| | | PM _{2.5} | 0.09 | 0.38 |
| 76 | No. 2 Ball Mill Landplaster Bin Baghouse Stack | PM | 0.05 | 0.23 |
| | | PM ₁₀ | 0.05 | 0.23 |
| | | PM _{2.5} | 0.05 | 0.23 |
| 77 | Starch Bulk Hopper Baghouse Stack | PM | 0.04 | 0.19 |
| | | PM ₁₀ | 0.04 | 0.19 |
| | | PM _{2.5} | 0.04 | 0.19 |
| 78 | Starch Bulk Storage Silo Baghouse Stack | PM | 0.12 | 0.53 |
| | | PM ₁₀ | 0.12 | 0.53 |
| | | PM _{2.5} | 0.12 | 0.53 |
| 79 | Semi-Bulk Flyash Receiver Baghouse Stack | PM | 0.03 | 0.13 |
| | | PM ₁₀ | 0.03 | 0.13 |
| | | PM _{2.5} | 0.03 | 0.13 |
| 80 | Glass Mat Tile Backer Dryer Oven Exhaust Stack | PM | 0.03 | 0.15 |
| | | PM ₁₀ | 0.03 | 0.15 |
| | | PM _{2.5} | 0.03 | 0.15 |
| | | SO ₂ | <0.01 | 0.01 |
| | | NO _x | 0.54 | 2.37 |
| | | CO | 0.68 | 2.96 |
| | | VOC | 0.29 | 1.28 |
| | | Formaldehyde (6) | <0.01 | <0.01 |
| 81 | Flyash Storage Bin Baghouse Stack | PM | 0.01 | 0.06 |
| | | PM ₁₀ | 0.01 | 0.06 |
| | | PM _{2.5} | 0.01 | 0.06 |
| 82 | Dry Fiber System Baghouse Stack | PM | 0.26 | 1.13 |
| | | PM ₁₀ | 0.26 | 1.13 |

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|--|--|-------------------|------|------|
| | | PM _{2.5} | 0.26 | 1.13 |
|--|--|-------------------|------|------|

- (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) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 - NO_x - total oxides of nitrogen
 - SO₂ - sulfur dioxide
 - PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
 - PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
 - PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
 - CO - carbon monoxide
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

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- (6) The combination of all Hazardous Air Pollutants (HAPs) shall not exceed 25 tons per year (tpy) and the facility shall emit less than 10 tpy of a single HAP.
- (7) Planned startup and shutdown emissions are included for all sources, as well as planned maintenance activities identified as part of permit application dated July 2013.

Date: May 8, 2015