

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 23344

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 CONTAMINANTS DATA

| <u>Emission Rates *</u> Point No. (1) | Source Name (2) | Air Contaminant Name (3) | | <u>Emission</u> lb/hr TPY | |
|--|-------------------------------|-----------------------------|-------|-----------------------------------|------|
| | | | | | |
| 4-06 | Furnace No. 1 ESP Unit | PM ₁₀ (4) | | 0.29 | 1.28 |
| | | PM (5) | | 0.15 | 0.66 |
| | | NO _x | | 9.1 | 39.9 |
| | | SO ₂ | | 0.06 | 0.26 |
| | | CO | | 0.81 | 3.55 |
| | | VOC | 0.07 | 0.31 | |
| 4-07 | Wet Fritting Baghouse | PM ₁₀ (4) | | 0.42 | 1.84 |
| | | PM (5) | | 0.19 | 0.84 |
| | | NO _x | | 1.29 | 5.67 |
| | | SO ₂ | | 0.04 | 0.18 |
| | | CO | | 0.48 | 2.10 |
| | | VOC | 0.04 | 0.18 | |
| 4-08 | CCE Mill Baghouses | PM ₁₀ (4) | | 0.08 | 0.35 |
| 4-17A | Former No. 15 Baghouse | PM ₁₀ (4) | | 0.40 | 1.75 |
| | | PM (5) | | 0.10 | 0.44 |
| | | NO _x | | 1.17 | 5.12 |
| | | SO ₂ | | <0.01 | 0.04 |
| | | CO | | 0.25 | 1.10 |
| | | VOC | 0.02 | 0.09 | |
| 4-17AP | Former No. 15 Heat Treater | PM (5) | | 0.02 | 0.09 |
| | | NO _x | | 0.24 | 1.05 |
| | | SO ₂ | | <0.01 | 0.04 |
| | | CO | | 0.05 | 0.22 |
| | | VOC | <0.01 | 0.04 | |

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| <u>Emission Rates *</u> Point No. (1) | Source Name (2) | Air Contaminant Name (3) | | <u>Emission</u> lb/hr TPY | |
|--|-------------------------------|-----------------------------|-------|-----------------------------------|--|
| | | | | | |
| 4-17B | Former No. 16 Baghouse | PM ₁₀ (4) | 0.40 | 1.75 | |
| | | PM (5) | 0.10 | 0.44 | |
| | | NO _x | 1.17 | 5.12 | |
| | | SO ₂ | <0.01 | 0.04 | |
| | | CO | 0.25 | 1.10 | |
| | | VOC | 0.02 | 0.09 | |
| 4-17BP | Former No. 16 Heat Treater | PM (5) | 0.02 | 0.09 | |
| | | NO _x | 0.24 | 1.05 | |
| | | SO ₂ | <0.01 | 0.04 | |
| | | CO | 0.05 | 0.22 | |
| | | VOC | <0.01 | 0.04 | |
| | | | | | |
| 4-18 | Former No. 17 ESP | PM ₁₀ (4) | 0.45 | 1.97 | |
| | | PM (5) | 0.10 | 0.44 | |
| | | NO _x | 1.17 | 5.12 | |
| | | SO ₂ | <0.01 | 0.04 | |
| | | CO | 1.1 | 4.82 | |
| | | VOC | 0.02 | 0.09 | |
| 4-19 | Former No. 18 Baghouse | PM ₁₀ (4) | 0.40 | 1.75 | |
| | | PM (5) | 0.10 | 0.44 | |
| | | NO _x | 1.17 | 5.12 | |
| | | SO ₂ | <0.01 | 0.04 | |
| | | CO | 0.25 | 1.10 | |
| | | VOC | 0.02 | 0.09 | |
| 4-19P | Former No. 18 Heat Treater | PM (5) | 0.02 | 0.09 | |
| | | NO _x | 0.24 | 1.05 | |
| | | SO ₂ | <0.01 | 0.04 | |

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AIR CONTAMINANTS DATA

| <u>Emission Rates *</u> Point No. (1) | Source Name (2) | Air Contaminant Name (3) | | <u>Emission</u> lb/hr TPY | |
|--|------------------------|-----------------------------|-------|-----------------------------------|------|
| | | | | | |
| | | CO | | 0.05 | 0.22 |
| | | VOC | <0.01 | 0.04 | |
| 4-20A | Bead Wash Dryer | PM ₁₀ (4) | | 0.10 | 0.44 |
| | Baghouse (6) | ISA | | 0.70 | 3.03 |
| | | Acetone | | 0.13 | 0.55 |
| | | Chloroacetone | | 0.37 | 1.63 |
| 4-20B | Bead Wash Dryer (6) | PM (5) | | 0.14 | 0.60 |
| | | NO _x | | 0.92 | 4.03 |
| | | SO ₂ | | 0.03 | 0.12 |
| | | CO | | 0.34 | 1.48 |
| | | VOC | 0.03 | 0.12 | |
| 4-44 | Former No. 11 Baghouse | PM (4) | | 0.45 | 2.00 |
| | | PM (5) | | 0.10 | 0.44 |
| | | NO _x | | 1.17 | 5.12 |
| | | SO ₂ | | 0.02 | 0.09 |
| | | CO | | 0.25 | 1.10 |
| | | VOC | 0.02 | 0.09 | |
| 4-44P | Products of Combustion | PM (5) | | 0.02 | 0.09 |
| | | NO _x | | 0.24 | 1.05 |
| | | SO ₂ | 0.02 | 0.09 | |
| | | CO | 0.05 | 0.22 | |
| | | VOC | <0.01 | 0.02 | |
| 4-34 | Former No. 19 Baghouse | PM ₁₀ (4) | | 0.40 | 1.75 |
| | | PM (5) | | 0.10 | 0.44 |
| | | NO _x | | 1.17 | 5.12 |
| | | SO ₂ | | <0.01 | 0.04 |
| | | CO | | 0.25 | 1.10 |

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AIR CONTAMINANTS DATA

| <u>Emission Rates *</u> Point No. (1) | Source Name (2) | Air Contaminant Name (3) | | <u>Emission</u> lb/hr TPY | |
|--|-------------------------------|-----------------------------|-------|-----------------------------------|--|
| | | | | | |
| | | VOC | 0.02 | 0.09 | |
| 4-34P | Former No. 19 Heat Treater | PM (5) | 0.02 | 0.09 | |
| | | NO _x | 0.24 | 1.05 | |
| | | SO ₂ | <0.01 | 0.04 | |
| | | CO | 0.05 | 0.22 | |
| | | VOC | <0.01 | 0.04 | |
| 4-35 | Former No. 20 Baghouse | PM ₁₀ (4) | 0.40 | 1.75 | |
| | | PM (5) | 0.10 | 0.44 | |
| | | NO _x | 1.17 | 5.12 | |
| | | SO ₂ | <0.01 | 0.04 | |
| | | CO | 0.25 | 1.10 | |
| | | VOC | 0.02 | 0.09 | |
| 4-35P | Former No. 20 Heat Treater | PM (5) | 0.02 | 0.09 | |
| | | NO _x | 0.24 | 1.05 | |
| | | SO ₂ | <0.01 | 0.04 | |
| | | CO | 0.05 | 0.22 | |
| | | VOC | <0.01 | 0.04 | |
| 4-43 | Former No. 21 Baghouse | PM ₁₀ (4) | 0.45 | 1.97 | |
| | | PM (5) | 0.10 | 0.44 | |
| | | NO _x | 1.17 | 5.12 | |
| | | SO ₂ | <0.01 | 0.04 | |
| | | CO | 0.25 | 1.10 | |
| | | VOC | 0.02 | 0.09 | |
| 4-43P | Former No. 21 Heat Treater | PM (5) | 0.02 | 0.09 | |
| | | NO _x | 0.24 | 1.05 | |

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

| Emission Rates * | Source | Air Contaminant | | Emission | |
|---------------------|--|-------------------------|-------|----------|--|
| | | Name (3) | lb/hr | TPY | |
| Point No. (1) | Name (2) | | | | |
| | | SO ₂ | <0.01 | 0.04 | |
| | | CO | 0.05 | 0.22 | |
| | | VOC | <0.01 | 0.04 | |
| 4-0944 | ESP Unit for Former Nos. 13, 14, and 22 | PM ₁₀ (4) | 1.34 | 5.87 | |
| | | PM (5) | 0.30 | 1.31 | |
| | | NO _x | 3.51 | 15.4 | |
| | | SO ₂ | 0.30 | 0.13 | |
| | | CO | 1.10 | 4.82 | |
| | | VOC | 0.06 | 0.26 | |
| 4-2324 | Furnace No. 2 ESP Unit | PM ₁₀ (4) | 1.43 | 6.27 | |
| | | PM (5) | 0.15 | 0.66 | |
| | | NO _x | 9.1 | 39.9 | |
| | | SO ₂ | 0.06 | 0.26 | |
| | | CO | 0.81 | 3.55 | |
| | | VOC | 0.07 | 0.31 | |
| 15-1 | TCP Drier Baghouse | PM/PM ₁₀ (4) | 1.40 | 6.13 | |
| 15-2 | Dust Pickup Baghouse | PM/PM ₁₀ (4) | 0.16 | 0.70 | |
| 15-3 | Filter Receiver Baghouse | PM/PM ₁₀ (4) | 0.10 | 0.40 | |
| 15-4 | Bag Collector (6) | PM ₁₀ (4) | 0.33 | 1.45 | |
| 15-5 | Hopper Baghouse | PM ₁₀ (4) | 0.20 | 0.90 | |
| 15-6 | Hopper Baghouse 0.90 | PM ₁₀ (4) | 0.20 | | |

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| | | | | |
|-------|---------------------------|----------------------|------|------|
| 15-7 | Furnace No. 2 Dust Pickup | PM ₁₀ (4) | 0.10 | 0.44 |
| 15-12 | Vacuum Receiver | PM ₁₀ (4) | 0.02 | 0.09 |

- (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) PM₁₀ - particulate matter less than 10 microns.

PM - particulate matter

VOC - volatile organic compounds as defined in General Rule 101.1

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

CO - carbon monoxide

- (4) Particulate matter emissions from the process.

- (5) Particulate matter emissions from combustion.

- (6) Particulate emissions from a standard exempted mixing operation are also routed through this bag collector.

* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

24 Hrs/day 7 Days/week 52 Weeks/year or 8,760 Hrs/year

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Dated_____