

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 20365/PSD-TX-785M4

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

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | <u>Emission Rates *</u> | | |
|---------------------------|---|--|-------------------------|------------------------|--|
| | | | lb/hr | TPY | |
| 11 | No. 2 Bleach Plant ClO ₂ Scrubber Stack | ClO ₂ | 0.01 | 0.04 | |
| 70 | No. 4 Bleach Plant Scrubber Stack | Cl ₂ ClO ₂ | 1.60 0.14 | 7.00 0.60 | |
| 71 | No. 4 Bleach Plant Diffusion Washer Stack | Cl ₂ ClO ₂ | 1.60 0.14 | 7.00 0.60 | |
| 72 | Monox-L Mixer Scrubber Vent | Cl ₂ | <0.01 | <0.01 | |
| 73 | No. 5 Bleach Plant Diffusion Washer (E/O) Stack | VOC | 2.33 | 10.20 | |
| 74 | No. 5 Bleach Plant Diffusion Washer (P) Stack | VOC | 0.23 | 1.00 | |
| 75 | No. 5 Bleach Plant Scrubber Stack | VOC ClO ₂ Cl ₂ | 2.33 0.09 0.04 | 10.20 0.37 0.18 | |
| 19 | Bulk Starch Unloading Vent | PM ₁₀ | 0.01 | 0.02 | |
| 5a | No. 2 Smelt Dissolve Tank Vent | PM ₁₀ TRS SO ₂ | 4.00 1.20 5.00 | 17.50 5.25 21.90 | |

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

| | | | | |
|----|-----------------------------------|------------------|------|-------|
| 5b | No. 3 Smelt Dissolve Tank Vent | PM ₁₀ | 4.00 | 17.50 |
| | | TRS | 1.20 | 5.25 |
| | | SO ₂ | 5.00 | 21.90 |

AIR CONTAMINANTS DATA

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | lb/hr | <u>Emission Rates *</u> TPY |
|---------------------------|---|--------------------------------|--------|--------------------------------|
| 2 | No. 2 Recovery Boiler Stack | PM ₁₀ | 60.00 | 262.80 |
| | | VOC | 8.00 | 35.00 |
| | | NO _x | 62.78 | 275.00 |
| | | SO ₂ | 495.00 | 1510.00 |
| | | CO | 251.37 | 1101.00 |
| | | H ₂ SO ₄ | 5.00 | 21.90 |
| | | TRS | 16.00 | 70.10 |
| 3 | No. 3 Recovery Boiler North Stack | PM ₁₀ | 38.90 | 168.19 |
| | | VOC | 4.00 | 17.50 |
| | | NO _x | 30.00 | 131.40 |
| | | SO ₂ | 39.38 | 172.50 |
| | | CO | 52.75 | 231.04 |
| | | H ₂ SO ₄ | 2.50 | 10.95 |
| | | TRS | 16.00 | 70.10 |
| 4 | No. 3 Recovery Boiler South Stack | PM ₁₀ | 38.40 | 168.19 |
| | | VOC | 4.00 | 17.50 |
| | | NO _x | 30.00 | 131.40 |
| | | SO ₂ | 39.38 | 172.50 |
| | | CO | 52.75 | 231.04 |
| | | H ₂ SO ₄ | 2.50 | 10.95 |
| | | TRS | 16.00 | 70.10 |
| 26 | No. 4 Recovery Boiler and Smelt Dissolve Tank Stack | PM ₁₀ | 50.00 | 219.00 |
| | | VOC | 16.60 | 72.83 |
| | | NO _x | 159.30 | 697.91 |
| | | SO ₂ | 121.90 | 534.17 |
| | | CO | 242.50 | 1062.03 |
| | | H ₂ SO ₄ | 2.40 | 10.05 |
| | | TRS | 8.29 | 36.31 |

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

| | | | | |
|----|----------------------------------|-----------------|------|-------|
| 60 | No. 1 NCG Incinerator** Stack | NO _x | 0.98 | 4.30 |
| | | SO ₂ | 4.50 | 19.71 |
| | | CO | 0.46 | 2.00 |
| | | VOC | 0.02 | 0.10 |
| | | TRS | 0.09 | 0.40 |
| 61 | No. 2 NCG Incinerator Stack | NO _x | 0.98 | 4.30 |
| | | SO ₂ | 5.48 | 24.00 |
| | | CO | 0.46 | 2.00 |
| | | VOC | 0.02 | 0.10 |
| | | TRS | 0.09 | 0.40 |

AIR CONTAMINANTS DATA

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | <u>Emission Rates *</u> | |
|---------------------------|-----------------------------|-----------------------------|-------------------------|---------|
| | | | lb/hr | TPY |
| 1 | No. 1 Power Boiler Stack | PM ₁₀ | 1.14 | 5.01 |
| | | NO _x | 34.36 | 150.50 |
| | | SO ₂ | 0.14 | 0.60 |
| | | CO | 9.14 | 40.03 |
| | | VOC | 0.32 | 1.40 |
| 1 | No. 2 Power Boiler Stack | PM ₁₀ | 55.00 | 240.90 |
| | | VOC | 20.00 | 87.60 |
| | | NO _x | 268.00 | 1173.80 |
| | | SO ₂ | 2.30 | 10.10 |
| | | CO | 190.00 | 832.20 |
| 50 | No. 6 Power Boiler Stack | PM ₁₀ | 72.00 | 315.36 |
| | | NO _x | 190.40 | 823.00 |
| | | SO ₂ | 0.20 | 0.88 |
| | | CO | 360.00 | 1555.00 |
| | | VOC | 23.20 | 100.00 |
| 51 | No. 5 Power Boiler Stack | PM ₁₀ | 1.63 | 7.14 |
| | | NO _x | 16.94 | 74.20 |
| | | SO ₂ | 0.20 | 0.88 |
| | | CO | 30.50 | 133.59 |
| | | VOC | 3.07 | 13.45 |
| 13 | No. 4 Slaker Stack (4) | PM ₁₀ | 1.37 | 6.00 |

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

| | | | | |
|------|------------------------|------------------|--------|--------|
| 14 | No. 1 Slaker Stack (4) | PM ₁₀ | 1.37 | 6.00 |
| 15 | No. 2 Slaker Stack (4) | PM ₁₀ | 1.37 | 6.00 |
| 16 | No. 3 Slaker Stack (4) | PM ₁₀ | 1.37 | 6.00 |
| 16-A | No. 7 Slaker Stack (4) | PM ₁₀ | 1.37 | 6.00 |
| 43 | No. 1 Lime Kiln Stack | PM ₁₀ | 10.00 | 43.80 |
| | | VOC | 0.07 | 0.30 |
| | | NO _x | 48.00 | 206.00 |
| | | SO ₂ | 11.40 | 49.00 |
| | | CO | 170.00 | 729.00 |
| | | TRS | 1.76 | 7.70 |

AIR CONTAMINANTS DATA

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | <u>Emission Rates *</u> | |
|---------------------------|-----------------------|-----------------------------|-------------------------|--------|
| | | | lb/hr | TPY |
| 8 | No. 2 Lime Kiln Stack | PM ₁₀ | 7.20 | 31.01 |
| | | VOC | 0.06 | 0.26 |
| | | NO _x | 23.39 | 107.44 |
| | | SO ₂ | 12.00 | 52.20 |
| | | CO | 175.00 | 766.50 |
| | | TRS | 1.85 | 8.14 |
| 9 | No. 3 Lime Kiln Stack | PM ₁₀ | 7.23 | 31.01 |
| | | VOC | 0.07 | 0.31 |
| | | NO _x | 27.39 | 119.96 |
| | | SO ₂ | 12.50 | 54.80 |
| | | CO | 180.00 | 788.40 |
| | | TRS | 1.89 | 8.27 |
| 7 | No. 4 Lime Kiln Stack | PM ₁₀ | 6.92 | 30.29 |
| | | VOC | 8.01 | 35.10 |
| | | NO _x | 29.77 | 130.40 |
| | | SO ₂ | 7.14 | 31.28 |

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

| | | | | |
|----------|---|------------------|-------|--------|
| | | CO | 36.23 | 158.70 |
| | | TRS | 0.95 | 4.16 |
| 48 | Fresh Lime Handling (4) System, including: | PM ₁₀ | 0.07 | 0.30 |
| 48a | Fresh Lime Silo No. 1 Vent Filter | | | |
| 48b | Fugitive Dust Pickup Filter | | | |
| 48c | Fresh Lime Silo No. 4 Vent Filter | | | |
| 90 | No. 5 Paper Machine Vents | PM ₁₀ | 0.06 | 0.27 |
| | | NO _x | 3.19 | 13.97 |
| | | SO ₂ | 0.01 | 0.03 |
| | | CO | 0.49 | 2.16 |
| | | VOC | 0.02 | 0.08 |
| 1F | Road Dust (4) | TSP | - | 21.66 |
| | | PM ₁₀ | - | 10.83 |
| F100/101 | Effluent Treatment System (4) | VOC | - | 5.72 |

- (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) TSP - particulate matter including PM₁₀.
 PM₁₀ - particulate matter less than 10 microns
 VOC - volatile organic compounds as defined in General Rule 101.1
 NO_x - total oxides of nitrogen
 SO₂ - sulfur dioxide
 CO - carbon monoxide
 TRS - total reduced sulfur
 Cl₂ - chlorine
 ClO₂ - chlorine dioxide
 H₂SO₄ - sulfuric acid
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

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

Based on a maximum 12-month calendar year average throughput 2,400 tons per day of bleached air dry pulp.

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

- ** NCG Incinerator maximum allowable emission rates are effective after the Incinerator is relocated.

Dated_____

