EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 4421A

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) | Emission Rates * lb/hr | TPY |
|---|---|---|---|---|
| B-1 | No. 1 Boiler | $PM_{10}$ | 0.13 | 0.54 |
| | | VOC | 0.10 | 0.39 |
| | | $NO_x$ | 1.68 | 7.01 |
| | | $SO_2$ | 0.01 | 0.04 |
| | | CO | 1.41 | 5.89 |
| B-2 | No. 2 Boiler | $PM_{10}$ | 0.10 | 0.40 |
| | | VOC | 0.07 | 0.42 |
| | | $NO_x$ | 1.26 | 5.26 |
| | | $SO_2$ | 0.01 | 0.04 |
| | | CO | 1.06 | 4.42 |
| F-14 | Afterburner Stack | PM | 6.60 | 8.25 |
| | | $PM_{10}$ | 6.60 | 8.25 |
| | | VOC | 1.20 | 1.50 |
| | | $NO_x$ | 4.20 | 5.78 |
| | | CO | 49.80 | 62.25 |
| | | SO2 19.90 | 87.00 | |
| C-1 | Talc Silo Dust Collector | PM | 0.26 | 0.13 |
| | | $PM_{10}$ | 0.26 | 0.13 |
| C-2 | Talc Dust Collector Lam Line | PM | 0.43 | 1.72 |
| | | $PM_{10}$ | 0.43 | 1.72 |
| C-3 | Talc Dust Collector 4-Wide | PM | 0.43 | 1.72 |
| | | $PM_{10}$ | 0.43 | 1.72 |
| C-4 | Sand Silo Dust Collector | $PM_{10}$ | 0.03 | <0.02 |

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

### AIR CONTAMINANTS DATA

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates * lb/hr | TPY |
|---|---|---|---|---|
| H-1 | No. 2 Born Coating Heater | $PM_{10}$ | 0.11 | 0.45 |
| | | VOC | 0.08 | 0.33 |
| | | $NO_x$ | 1.40 | 5.85 |
| | | $SO_2$ | 0.01 | 0.04 |
| | | CO | 1.18 | 4.92 |
| H-2 | No. 3 Born Coating Heater | $PM_{10}$ | 0.11 | 0.45 |
| | | VOC | 0.08 | 0.33 |
| | | $NO_x$ | 1.40 | 5.85 |
| | | $SO_2$ | 0.01 | 0.04 |
| | | CO | 1.18 | 4.92 |
| H-3 | No. 2 Cuttler Coating Heater | $PM_{10}$ | 0.05 | 0.19 |
| | | VOC | 0.04 | 0.14 |
| | | $NO_x$ | 0.60 | 2.51 |
| | | $SO_2$ | <.01 | 0.02 |
| | | CO | 0.51 | 2.11 |
| H-4 | Hot Oil Heater No. 1 | $PM_{10}$ | 0.03 | 0.13 |
| | | VOC | 0.03 | 0.10 |
| | | $NO_x$ | 0.40 | 1.67 |
| | | $SO_2$ | <.01 | 0.01 |
| | | CO | 0.34 | 1.41 |
| H-5 | Limestone Filler Heater | $PM_{10}$ | 0.05 | 0.19 |
| | | VOC | 0.04 | 0.14 |
| | | $NO_x$ | 0.60 | 2.51 |
| | | $SO_2$ | 0.01 | 0.02 |
| | | CO | 0.51 | 2.11 |
| H-9 | Hot Oil Heater No. 2 | $PM_{10}$ | 0.01 | 0.04 |
| | | VOC | 0.01 | 0.03 |
| | | $NO_x$ | 0.13 | 0.55 |
| | | $SO_2$ | <0.01 | 0.01 |
| | | CO | 0.11 | 0.46 |
| T-1 | No. 1 Tank Fume Filter | VOC | 1.90 | 8.82 |

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | Emission Rates * lb/hr | TPY |
|---|---|---|---|---|
| T-2 | No. 2 Tank Fume Filter | VOC | 1.90 | 8.82 |
| T-3 | Large Coater/Surge Tank Fume Filter | $PM_{10}$ | 0.17 | 0.75 |
| | | VOC | 6.01 | 24.04 |
| | | CO | 0.68 | 3.00 |
| T-4 | Sealant Tank | VOC | <0.01 | <0.01 |
| T-5 | Laminant Tank | VOC | <0.01 | <0.01 |
| F-4 | Standard and Metric Line Sealant and Laminant Run Use Tanks | VOC | 0.12 | 0.5 |
| LAM-1 | Standard Line Laminator | VOC | 0.03 | 0.10 |
| LAM-2 | Metric Line Laminator | VOC | 0.03 | 0.10 |
| L-1 | No. 1 Limestone Silo Dust Collector | PM | 0.26 | 0.59 |
| | | $PM_{10}$ | 0.26 | 0.59 |
| L-2 | No. 2 Limestone Silo Dust Collector | PM | 0.26 | 0.59 |
| | | $PM_{10}$ | 0.26 | 0.59 |
| L-3 | Horizon Limestone Dust Collector | PM | 0.56 | 2.24 |
| | | $PM_{10}$ | 0.56 | 2.24 |
| F-1 | Fugitives (4) | VOC | 1.28 | 5.59 |
| F-2 | Maintenance Fugitives (4) | $PM_{10}$ | 0.01 | <0.01 |
| | | VOC | <0.01 | <0.01 |
| | | $NO_x$ | 0.04 | <0.01 |
| | | $SO_2$ | 0.11 | <0.01 |
| | | CO | <0.01 | <0.01 |

| | | | | | |
|---|---|---|---|---|---|
| F-3 | Paint Fugitives (4) | | VOC | 0.17 | 0.72 |
| F-5 | Ink Jet Printers | | VOC | 0.10 | 0.40 |
| E-1 | Emergency Generator | | $PM_{10}$ | 0.17 | 0.08 |
| | | $NO_x$ | 2.40 | 1.05 | |
| | | CO | 0.52 | 0.23 | |
| | | $SO_2$ | 0.16 | 0.07 | |
| | | VOC | 0.19 | 0.09 | |
| G-1 | Batch House(Granule Silos) | | PM10 | 2.62 | 2.62 |
| G-2 | Intermediate Granules Handling Building Vent | | PM10 | 2.55 | 2.55 |
| COOL-1 | Standard Line Cooling Section Building Vent | | PM10 | 0.10 | 0.44 |
| Cool-2 | Metric Line Cooling Section Building Vent | | PM10 | 0.10 | 0.44 |



EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

(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 $PM_{10}$
$PM_{10}$ - 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.
VOC - volatile organic compounds as defined in 30 Texas Administrative Code Chapter 101.1.
$NO_x$ - total oxides of nitrogen

$SO_2$ - sulfur dioxide
CO - carbon monoxide

(4) Fugitive emissions are an estimate only.

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

Hrs/day ____ Days/week _____ Weeks/year _____ or Hrs/year 8,760

The operation of two of the three blowstills at any one time and a maximum annual throughput of 150,000 tons of flux asphalt blown through the blowstills.

Maximum Shingle/Roofing Production: ? Tons per hour and ? Tons per year.

The emergency generator is limited to 876 hours per year operation

Dated_____