

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 21883

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 * |
| S-1 | Mixing and Collection Exhaust | Formaldehyde | 0.284 | 0.73 |
| | | Phenol | 2.476 | |
| | | | 0.96 | |
| | | Furfuryl Alcohol | 2.261 | |
| | | | 1.46 | |
| | | Furfural | 2.005 | |
| | | | 0.77 | |
| BOC-7a through BOC-7g, 0.18 BOE-7a through BOE-7g (4) | Box Oven Combustion and Cooling Exhausts (7 box ovens) | PM | 0.060 | 0.28 |
| | | NO _x | 3.690 | 8.39 |
| | | | PM | 0.040 |
| | | SO ₂ | 0.010 | 0.02 |
| | | CO | 0.160 | 0.71 |
| | | VOC | 0.480 | 0.56 |
| | | NH ₃ | 0.090 | 0.07 |
| TOC-1 (5) | Tunnel Oven 1 Combustion Exhaust | VOC | 0.030 | |
| | | NO _x | 1.085 | |
| | | PM | 0.060 | |
| | | SO ₂ | 0.003 | |
| | | CO | 0.840 | |
| TOE-1 (5) | Tunnel Oven 1 Curing Exhaust | NO _x | 2.247 | |
| | | Formaldehyde | | 0.085 |
| | | Phenol | 0.745 | |
| | | Furfuryl Alcohol | 0.680 | |
| | | Furfural | 0.603 | |
| TOC-2 (5) | Tunnel Oven 2 | NH ₃ | 0.092 | |
| | | VOC | 0.030 | |

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| Emission Point No. (1) | Source | Air Contaminant Name (2) | AIR CONTAMINANTS DATA | | |
|--|---------------------|-----------------------------|-----------------------------------|-------|-------|
| | | | <u>Emission Rates</u> Name (3) | lb/hr | TPY * |
| TOE-2 (5) | Tunnel Oven 2 | Combustion Exhaust | NO _x | 1.085 | |
| | | | PM | 0.060 | |
| | | | SO ₂ | 0.003 | |
| | | | CO | 0.840 | |
| | | | NO _x | 2.247 | |
| | | Curing Exhaust | Formaldehyde | | 0.085 |
| | | | Phenol | 0.745 | |
| | | | Furfuryl Alcohol | | 0.680 |
| | | | Furfural | | 0.603 |
| | | | NH ₃ | 0.092 | |
| TOC-3 (5) | Tunnel Oven 3 | Combustion Exhaust | VOC | 0.030 | |
| | | | NO _x | 1.085 | |
| | | | PM | 0.060 | |
| | | | SO ₂ | 0.003 | |
| | | | CO | 0.840 | |
| | | | | | |
| TOE-3 (5) | Tunnel Oven 3 | Combustion Exhaust | NO _x | 2.247 | |
| | | | | | |
| | | Curing Exhaust | Formaldehyde | | 0.085 |
| | | | Phenol | 0.745 | |
| | | | Furfuryl Alcohol | | 0.680 |
| | | | Furfural | | 0.603 |
| | | | NH ₃ | 0.092 | |
| Tunnel Ovens 1, 2, and 3 (TOC-1, TOC-2, TOC-3) | Combustion Exhausts | | VOC | | 0.26 |
| | | | NO _x | | 9.50 |
| | | | PM | | 0.54 |
| | | | SO ₂ | | 0.03 |
| | | | CO | | 7.36 |
| | | | | | |
| Tunnel Oven 1, 2, and 3 (TOE-1, TOE-2, TOE-3) | | Curing Exhaust | NO _x | | 19.66 |
| | | | Formaldehyde | | |
| | | | | 0.37 | |
| | | | Phenol | | 3.25 |
| | | | Furfuryl Alcohol | | |
| | | | Furfural | 2.97 | |

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| Emission Point No. (1) | Source Name (2) | Air Contaminant Name (3) | AIR CONTAMINANTS DATA | |
|---------------------------|-------------------------------------|-----------------------------|-------------------------|-------|
| | | | Emission Rates lb/hr | TPY * |
| | | NH ₃ | 2.63 | 0.81 |
| TOC-4 | Tunnel Oven 4 Combustion Exhaust | VOC | 0.030 | 0.13 |
| | | NO _x | 1.085 | 4.75 |
| | | PM | 0.060 | 0.27 |
| | | SO ₂ | 0.003 | 0.01 |
| | | CO | 0.840 | 3.68 |
| TOE-4 | Tunnel Oven 4 | NO _x | 0.852 | 3.72 |
| | | Curing Exhaust | Formaldehyde | 0.032 |
| | | 0.14 | | |
| | | | Phenol | 0.282 |
| | | | Furfuryl Alcohol | 0.258 |
| | | | 1.13 | |
| | | | Furfural | 0.229 |
| | | | 1.00 | |
| | | NH ₃ | 0.035 | 0.15 |

- (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
VOC - volatile organic compounds as defined in 30 Texas Administrative Code Section 101.1
NO_x - total oxides of nitrogen
SO₂ - sulfur dioxide
CO - carbon monoxide
NH₃ - ammonia
- (4) These emissions are the sum of all seven box ovens.
- (5) The firing rate for each of three similar tunnel ovens (Nos. 1, 2 and 3) will not exceed 5.25 million Btu/hr and the firing rate for all three of these ovens will not exceed 91,980 million Btu per year (two times the firing rate of each oven, assuming 8760 hours of operation per year).

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| AIR CONTAMINANTS DATA | | | | |
|-----------------------|----------|-----------------|-----------------------|------------------|
| Emission | Source | Air Contaminant | <u>Emission Rates</u> | |
| Point No. (1) | Name (2) | | Name (3) | lb/hr TPY * |

Dated November 30, 2000