

Site Specific Combined HAP Emission Factors including Presses, Dryer Fugitives, Lathe, and Glue Line Emitted from a Plywood Processing Building

Swanson Group Mfg. LLC
Springfield Plywood/Veneer

By:

Allan Mick, Swanson Acting Environmental Manager
Tim Homer, Bighorn Air Emissions Laboratory Manager

Mill Contacts:

Jeff Remington, Vice President of Manufacturing
Jay Yates, Corporate Steam Systems Manager

SPRINGFIELD PLYWOOD

ROAD

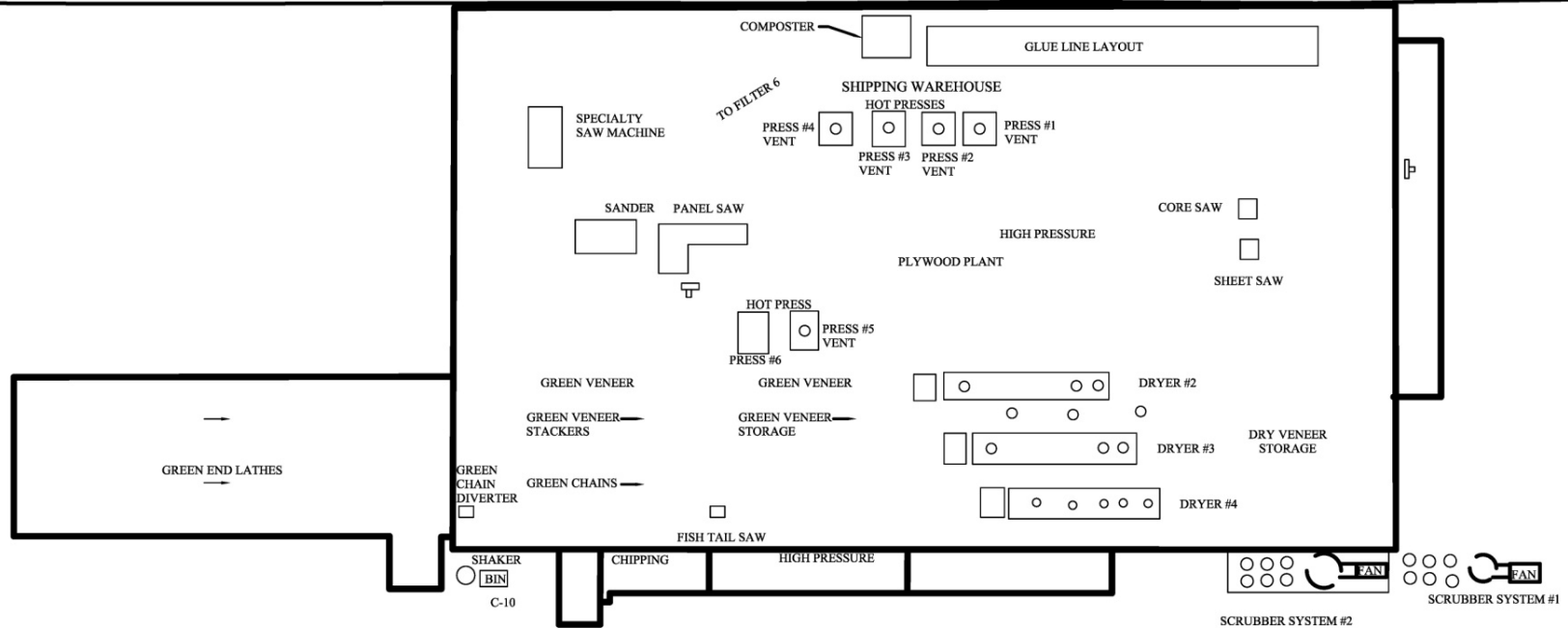


FIGURE 1
PRODUCTION BUILDING LAYOUT
SWANSON GROUP MFG. LLC SPRINGFIELD PLYWOOD VENEER
SPRINGFIELD, OREGON



EGR & Associates, Inc.

Engineers, Geologists, and Surveyors

2535B Prairie Road
Eugene, Oregon 97402

(541) 688-8322
Fax (541) 688-8087

EXECUTIVE SUMMARY

The results from building source tests on the total exhaust air leaving the production area are summarized below.

Table I

Building Vent #3 and #4

Parameter/Pollutant	Building Vent #3	Building Vent #4	Combined Total
Methanol:			
-ppmvd	4.66	4.71	--
-lb/hr	0.63	0.53	1.15
-lb/1000 ft ² – 3/8" basis	0.016	0.013	0.028
Formaldehyde*:			
-ppmvd	0.17	0.02	--
-lb/hr	0.021	0.0024	0.023
-lb/1000 ft ² – 3/8" basis	0.00052	0.00006	0.00057
Phenol*:			
-ppmvd	0.05	0.09	--
-lb/hr	0.021	0.029	0.050
-lb/1000 ft ² – 3/8" basis	0.0052	0.00071	0.0012
Total HAP*:			
-lb/hr	0.67	0.56	1.22
-lb/1000 ft ² – 3/8" basis	0.017	0.014	0.031

*One or more runs below detection limit, ½ detection limit used to calculate emissions.

Detailed discussions and results from this emissions test project are included in the body of this report.

The results from Swanson Group's Press Vent #4 source testing are summarized below.

Table II
Press Vent #4

Parameter/Pollutant	Press Vent #4
Methanol:	
-ppmvd	7.27
-lb/hr	0.94
-lb/1000 ft ² – 3/8" basis	0.1294
Formaldehyde:	
-ppmvd	0.44
-lb/hr	0.05
-lb/1000 ft ² – 3/8" basis	0.0074
Phenol*:	
-ppmvd	0.20
-lb/hr	0.08
-lb/1000 ft ² – 3/8" basis	0.0104
Acrolein*:	
-ppmvd	0.09
-lb/hr	0.02
-lb/1000 ft ² – 3/8" basis	0.0024
Acetaldehyde:	
-ppmvd	0.60
-lb/hr	0.11
-lb/1000 ft ² – 3/8" basis	0.0122
Propionaldehyde*:	
-ppmvd	0.09
-lb/hr	0.02
-lb/1000 ft ² – 3/8" basis	0.0024
Total HAP*:	
-lb/hr	1.22
-lb/1000 ft ² – 3/8" basis	0.1390

*One or more runs below detection limit, ½ detection limit used to calculate emissions.

