

217/782-2113

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT

PERMITTEE

Weyerhaeuser Company  
Attn: Jim Schuhardt  
3001 Otto Street  
Belleville, Illinois 62223

Application No.: 90090035

I.D. No.: 163010AEZ

Applicant's Designation:

Date Received: September 13, 1999

Subject: Box Manufacturer

Date Issued: February 1, 2000

Expiration Date: February 1, 2005

Location: 3001 Otto Street, Belleville

This permit is hereby granted to the above-designated Permittee to OPERATE emission unit(s) and/or air pollution control equipment consisting of one (1) Cleaver Brooks Boiler (Serial Number L-79843) and heating system, one (1) scrap/trim reclamation system with 9 pick up points to one (1) cyclone, one (1) water based glue system, one (1) water based printing system, one (1) coating system, one (1) corrugator, one (1) die preparation room, and one (1) corn starch storage silo with baghouse pursuant to the above-referenced application. This Permit is subject to standard conditions attached hereto and the following special condition(s):

- 1a. This federally enforceable state operating permit is issued to limit the emissions of air pollutants from the source to less than major source thresholds (i.e., VOM to less than 100 tons/year). As a result the source is excluded from the requirement to obtain a Clean Air Act Permit Program (CAAPP) permit. The maximum emissions of this source, as limited by the conditions of this permit, are described in Attachment A.
  - b. Prior to issuance, a draft of this permit has undergone a public notice and comment period.
  - c. This permit supersedes all operating permits issued for this location.
2. The emissions of Hazardous Air Pollutants (HAPs) as listed in Section 112(b) of the Clean Air Act shall not equal or exceed 10 tons per year of any single HAP or 25 tons per year of any combination of such HAPs, or such lesser quantity as USEPA may establish in rule which would require the Permittee to obtain a CAAPP permit from the Illinois EPA. As a result of this condition, this permit is issued based on the emissions of any HAP from this source not triggering the requirement to obtain a CAAPP permit from the Illinois EPA.

- 3a. Emissions and operation of heater system shall not exceed the following limits:

<u>Item of Equipment</u>	<u>(mmBtu/Hr)</u>	<u>Pollutant</u>	<u>Emission Factor (lb/mmscf)</u>	<u>Emissions (Lb/Hr) (T/Yr)</u>	
Cleaver Brooks Boiler	16.8	NO <sub>x</sub>	100	1.65	7.21
		CO	84	1.38	6.06
		VOM	5.5	.09	.40

These limits are based on AP-42 emission factors and 8,760 hours of operation. Compliance with annual limits shall be determined from a running total of 12 months of data.

- b. Natural gas shall be the only fuel combusted in the above-referenced boiler.
- c. Emissions and operation of coating/printing process shall not exceed the following limits:

<u>Coating</u>	<u>Usage (Lb/Mo) (Lb/Yr)</u>		<u>VOM Content (%. by Wt.)</u>	<u>VOM Emissions (Lb/Mo) (T/Yr)</u>	
Printing Inks	20,000	240,000	15.0	3,000	18.0
Product Coatings	20,000	240,000	2.0	400	2.4
Adhesives	15,000	180,000	6	900	5.4

These limits are based on 100% evaporation of VOM content in coatings, adhesives and inks. Compliance with annual limits shall be determined from a running total of 12 months of data.

- d. Emissions and operation of die preparation shall not exceed the following limits:

<u>Coating</u>	<u>Usage (Gal/Mo)(Gal/Yr)</u>		<u>VOM Content (Lb/Gal)</u>	<u>VOM Emissions (Lb/Mo) (T/Yr)</u>	
Die Adhesives	50	600	6.1	305	1.83

These limits are based on 100% evaporation of VOM content in die adhesives. Compliance with annual limits shall be determined from a running total of 12 months of data.

- e. Emissions and operation of equipment shall not exceed the following limits:

<u>Equipment</u>	<u>Throughput (10<sup>6</sup> ft<sup>2</sup>/Mo)(10<sup>6</sup> ft<sup>2</sup>/yr)</u>		<u>Pollutant</u>	<u>Emission Factors (lb/1000 Ft<sup>3</sup>)</u>	<u>Emissions (Lb/Mo) (T/Yr)</u>	
Corrugator	215.0	2,580	PM <sub>10</sub>	0.00567	1,218.4	7.31
			VOM	0.00756	1,625.4	9.75

These limits are based on the information provided in the application. Compliance with annual limits shall be determined from a running total of 12 months of data.

- f. Emissions and operation of equipment shall not exceed the following limits:

<u>Process</u>	<u>Throughput</u>		<u>Pollutant</u>	<u>Emission Factor</u> (Lb/Ton)	<u>Emissions</u>	
	(Ton/Mo)	(Ton/yr)			(Lb/Mo)	(T/Yr)
Scrap Reclamation	4,000	48,000	PM <sub>10</sub>	0.6	2,400	14.4

These limits are based on the information provided in the application. Compliance with annual limits shall be determined from a running total of 12 months of data.

4. This permit is issued based on negligible emissions of particulate matter from corn starch storage silo. For this purpose, emissions shall not exceed nominal emission rates of 0.1 lb/hour and 0.44 ton/year.
- 5a. The Permittee shall maintain monthly records of the following limits: Usage (gal/mo, gal/yr, or lb/mo, lb/yr), HAP and VOM content (lb/gal or % by wt.), HAP and VOM emissions (lb/mo, ton/yr) of the following items:
- i. Printing inks.
  - ii. Product coatings.
  - iii. Adhesives.
  - iv. Die preparation solvents.
- b. Natural gas usage (mmscf/mo mmscf/yr).
- c. Starch loading (ton/mo, ton/yr).
- d. Corrugator throughput (ft<sup>2</sup>/mo, ft<sup>2</sup>/yr).
6. All records and logs required by this permit shall be retained at a readily accessible location at the source for at least three years from the date of entry and shall be made available for inspection and copying by the Illinois EPA or USEPA upon request. Any records retained in an electronic format (e.g., computer) shall be capable of being retrieved and printed on paper during normal source office hours so as to be able to respond to an Illinois EPA or USEPA request for records during the course of a source inspection.

7. If there is an exceedance of the requirements of this permit as determined by the records required by this permit, the Permittee shall submit a report to the Illinois EPA's Compliance Section in Springfield, Illinois within 30 days after the exceedance. The report shall include the emissions released in accordance with the recordkeeping requirements, a copy of the relevant records, and a description of the exceedance or violation and efforts to reduce emissions and future occurrences.
8. Two (2) copies of required reports and notifications concerning equipment operation or repairs, performance testing or a continuous monitoring system shall be sent to:

Illinois Environmental Protection Agency  
Division of Air Pollution Control  
Compliance Section (#40)  
P.O. Box 19276  
Springfield, Illinois 62794-9276

and one (1) copy shall be sent to the Illinois EPA's regional office at the following address unless otherwise indicated:

Illinois Environmental Protection Agency  
Division of Air Pollution Control  
2009 Mall Street  
Collinsville, Illinois 62234

9. Annual emissions of VOM shall not exceed 37.78 tons/year, which shall be the permitted emissions for this site.

Please note that this permit has been revised to incorporate the operation of a corn starch silo and baghouse from construction permit #99080108.

If you have any questions on this, please call Eric Jones at 217/782-2113.

Donald E. Sutton, P.E.  
Manager, Permit Section  
Division of Air Pollution Control

DES:EEJ:psj

cc: Illinois EPA, FOS Region 3  
Illinois EPA, Compliance Section  
Lotus Notes

Attachment A - Emission Summary

This attachment provides a summary of the maximum emissions from box manufacturing plant operating in compliance with the requirements of this federally enforceable permit. In preparing this summary, the Illinois EPA used the annual operating scenario which results in maximum emissions from such a plant. The resulting maximum emissions are well below the levels, e.g., 100 tons per year of VOM, at which this source would be considered a major source for purposes of the Clean Air Act Permit Program. Actual emissions from this source will be less than predicted in this summary to the extent that less material is handled, and control measures are more effective than required in this permit.

- 1a. Emissions and operation of heater system shall not exceed the following limits:

<u>Item of Equipment</u>	<u>(mmBtu/Hr)</u>	<u>Pollutant</u>	<u>Emission</u>	<u>Emissions</u>	
			<u>Factor</u>	<u>(Lb/Hr)</u>	<u>(T/Yr)</u>
Cleaver Brooks Boiler	16.8	NO <sub>x</sub>	100	1.65	7.21
		CO	84	1.38	6.06
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These limits are based on AP-42 emission factors and 8,760 hours of operation. Compliance with annual limits shall be determined from a running total of 12 months of data.

- b. Natural gas shall be the only fuel combusted in the above-referenced boiler.
- c. Emissions and operation of coating/printing process shall not exceed the following limits:

<u>Coating</u>	<u>Usage</u>		<u>VOM Content</u>	<u>VOM Emissions</u>	
	<u>(Lb/Mo)</u>	<u>(Lb/Yr)</u>		<u>(%. by Wt.)</u>	<u>(Lb/Mo)</u>
Printing Inks	20,000	240,000	15.0	3,000	18.0
Product Coatings	20,000	240,000	2.0	400	2.4
Adhesives	15,000	180,000	6	900	5.4

These limits are based on 100% evaporation of VOM content in coatings, adhesives and inks. Compliance with annual limits shall be determined from a running total of 12 months of data.

- d. Emissions and operation of die preparation shall not exceed the following limits:

<u>Coating</u>	<u>Usage</u>		<u>VOM Content</u>	<u>VOM Emissions</u>	
	<u>(Gal/Mo)</u>	<u>(Gal/Yr)</u>		<u>(Lb/Gal)</u>	<u>(Lb/Mo)</u>
Die Adhesives	50	600	6.1	305	1.83

These limits are based on 100% evaporation of VOM content in die adhesives. Compliance with annual limits shall be determined from a running total of 12 months of data.

- e. Emissions and operation of equipment shall not exceed the following limits:

<u>Equipment</u> (T/Yr)	<u>Throughput</u>		<u>Pollutant</u>	<u>Emission</u>	<u>Emissions</u>	
	<u>(10<sup>6</sup> ft<sup>2</sup>/Mo)</u>	<u>(10<sup>6</sup> ft<sup>2</sup>/yr)</u>		<u>Factors</u> (lb/1000 Ft <sup>3</sup> )	<u>(Lb/Mo)</u>	<u>(T/Yr)</u>
Corrugator	215.0	2,580	PM <sub>10</sub>	0.00567	1,218.4	7.31
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These limits are based on the information provided in the application. Compliance with annual limits shall be determined from a running total of 12 months of data.

- f. Emissions and operation of equipment shall not exceed the following limits:

<u>Process</u>	<u>Throughput</u>		<u>Pollutant</u>	<u>Emission</u>	<u>Emissions</u>	
	<u>(Ton/Mo)</u>	<u>(Ton/yr)</u>		<u>Factor</u> (Lb/Ton)	<u>(Lb/Mo)</u>	<u>(T/Yr)</u>
Scrap Reclamation	4,000	48,000	PM <sub>10</sub>	0.6	2,400	14.4

These limits are based on the information provided in the application. Compliance with annual limits shall be determined from a running total of 12 months of data.

2. This permit is issued based on negligible emissions of particulate matter from corn starch storage silo. For this purpose, emissions shall not exceed nominal emission rates of 0.1 lb/hour and 0.44 ton/year.
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