

217/782-2113

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT - REVISED

PERMITTEE

Acorn Corrugated Box Co., Inc.
Attn: Dan Copeland
5133 West 65th Street
Bedford Park, Illinois 60638

Application No.: 73040842 I.D. No.: 031012ACA
Applicant's Designation: 2000MODS Date Received: January 17, 2001
Subject: Corrugated Box Plant
Date Issued: February 2, 2001 Expiration Date: June 2, 2002
Location: 5133 West 65th Street, Bedford Park

This permit is hereby granted to the above-designated Permittee to OPERATE emission source(s) and/or air pollution control equipment consisting of three flexo folder/gluer, four flexo printer/slotter, six rotary die cutters, one 100 gallon #2 fuel oil storage tank, one Hogger controlled by cyclone, one flat bed die cutter, one corrugator, one six-bar slitter, one slitter, one starch maker controlled by bag filter, one roller coater, two folder/gluer, one starch cooker, and fuel combustion sources (including one boiler, one stand by boiler, one fire pump, 13 space heaters, and 5 hot water heaters) 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., 25 tons/year for VOM). 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.
- 2a. Emissions and operation of three flexo folder/gluer, four flexo printer/slotter, and six rotary die cutters combined shall not exceed the following limits:

	<u>Material Usage</u>		<u>VOM Content</u>	<u>VOM Emissions</u>	
	<u>(Lbs/Mo)</u>	<u>(Tons/Yr)</u>	<u>(% Weight)</u>	<u>(Lbs/Mo)</u>	<u>(Tons/Yr)</u>
Inks	41,667	250	7	2,917	17.5

These limits are based on maximum ink usage, maximum VOM content, and material balance.

- b. Permittee shall not use solvent based clean-up material without obtaining revised permit.
- c. Compliance with annual limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months of data.
- 3. This permit is issued based on negligible emissions of volatile organic material from one underground storage tank. For this purpose, emissions shall not exceed nominal emission rates of 0.01 lb/hour and 0.044 ton/year.
- 4. Emissions and operation of fuel combustion equipments (boilers, hot water heater, and heaters) combined shall not exceed the following limits:

	Natural Gas Usage		Emission Factor (Lb/10 ⁶ scf)	Emissions	
	(10 ⁶ scf/Mo)	(10 ⁶ scf/Yr)		(Lbs/Mo)	(Tons/Yr)
NO _x	14	120	140.0	1,400	8.40
CO	14	120	35.0	350	2.10
SO ₂	14	120	0.6	6	0.04
VOM	14	120	5.8	58	0.35
Part	14	120	13.7	137	0.82

These limits are based on the maximum natural gas usage and standard emission factor for natural gas. Compliance with annual limit shall be determined on a monthly basis from the sum of the current month and of data plus preceding 11 months of data.

- 5. 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.
- 6a. Permittee shall maintain monthly records of the following items:
 - i. Name and identification number of each VOM containing inks used.
 - ii. VOM containing inks usage (lbs/month and ton/year).
 - iii. VOM content of inks (% weight).
 - iv. VOM emissions from inks (lbs/month and tons/year).
- b. 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.

- 7a. The Permittee shall maintain monthly records of the following items:
 - i. Natural gas usage for fuel combustion sources (10^6 scf/month and 10^6 scf/year).
 - ii. NO_x and CO emissions using natural gas usage and standard emission factor.
- b. These records shall be retained at a readily accessible location at the source for at least three years and shall be available for inspection and copying by the Illinois EPA upon request.
8. 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.
9. This permit is issued based on VOM emitting sources at Bedford Park Plant meeting the exemption level for exclusion from the requirement of 35 Ill. Adm. Code 218 Subpart H. This is a result of potential to emit of VOM emissions from these sources limited to less than 25 tons per year. For this reason, sources shall only be subject to Section 218.404b: Recordkeeping and Reporting Requirements for Flexographic Printing.
 - a. Upon written request from the Illinois EPA, the Permittee shall promptly submit copies of records to the Illinois EPA which addresses applicability of Part 218, in accordance with 35 Ill. Adm. Code 218.401.
10. 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)
1340 North Ninth Street
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
9511 West Harrison
Des Plaines, Illinois 60016

11. This permit is issued based on negligible emissions of particulate matter from Hogger, die cutter, six-bar slitter, slitter, corrugator, starch maker, three flexo folder/gluer, four flexo printer/slotter, and six rotary die cutters. For this purpose emissions, from each emission source, shall not exceed nominal emission rates of 0.1 lb/hour and 0.44 ton/yr.
12. No person shall cause or allow any visible emissions of fugitive particulate matter from any process, including any material handling or storage activity beyond the property line of the emission source, pursuant to 35 Ill. Adm. Code 212.301.
13. The Permittee shall submit the following additional information with the Annual Emissions Report, due May 1st of each year: annual VOM emissions. If there have been no exceedances during the prior calendar year, the Annual Emission Report shall include a statement to that effect.

Please note that the one printer/slotter from Construction Permit 00070083 has been incorporated into this permit.

Also, please note that monthly natural gas usage has been increased.

If you have any questions on this permit, please call Randy Solomon at 217/782-2113.

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

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cc: Illinois EPA, FOS Region 1
Illinois EPA, Compliance Section
USEPA

Attachment A - Emission Summary

This attachment provides a summary of the maximum emissions from operation of Corrugated 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., 25 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 three flexo folder/gluer, four flexo printer/slotter, and six rotary die cutters combined shall not exceed the following limits:

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Inks	41,667	250	7	2,917	17.5

These limits are based on maximum ink usage, maximum VOM content, and material balance as provided in permit application.

- b. Compliance with annual limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months of data.
2. This permit is issued based on negligible emissions of volatile organic material from one underground storage tank. For this purpose, emissions shall not exceed nominal emission rates of 0.01 lb/hour and 0.044 ton/year.
3. Emissions and operation of fuel combustion equipments (boilers, hot water heater, and heaters) combined shall not exceed the following limits:

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4. This permit is issued based on negligible emissions of particulate matter from Hogger, die cutter, six-bar slitter, slitter, corrugator, starch maker, three flexo folder/gluer, four flexo printer/slotter, and six rotary die cutters. For this purpose emissions, from each emission source, shall not exceed nominal emission rates of 0.1 lb/hour and 0.44 ton/yr.

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