

**Synthetic Minor Determination and/or**  **Netting Determination**  
Permit To Install **14-05821**

**A. Source Description**

Green Bay Packaging, Inc. applied for a Chapter 31 modification to air permit-to-install (PTI) number 14-04040 for emissions unit K002 (Langston Sheet-fed Flexographic Printing Press with Folder/Gluer) and air PTI number 14-04819 for emissions unit K003 (United Sheet-fed Flexographic Printing Press with Rotary Die Cutter). Both presses will use compliant coatings.

**B. Facility Emissions and Attainment Status**

Green Bay Packaging, Inc. is a fabricator of corrugated container board with combined allowable limits for volatile organic compound (VOC) emissions of 50.0 tons per year (TPY). To assure non-major source status, the facility has requested federally enforceable limits for VOC and hazardous air pollutant (HAP) emissions. By including synthetic minor HAPs terms and coating usage limits in this permit, Green Bay Packaging, Inc is an area source relative to Maximum Achievable Control Technology (MACT) rules and a minor source for VOC emissions. The facility is located in Hamilton County which is designated as attainment for all criteria pollutants except for VOC, nitrogen oxides (NO<sub>x</sub>), and particulate matter less than 2.5 microns in diameter (PM<sub>2.5</sub>).

**C. Source Emissions**

Green Bay Packaging, Inc. is accepting facility-wide limitations of less than 9.9 TPY for any individual HAP emission, 24.9 TPY for any combined HAPs emissions and 50.0 TPY for VOC emissions. Emissions unit K002 is permitted for 18.13 pounds per hour (lbs/hr) and 8.66 TPY of VOC. Emissions unit K003 is permitted for 13.16 lbs/hr and 6.16 TPY of VOC. Both emissions unit K002 and emissions unit K003 will have annual production limitations of 120,000 pounds of ink and 15,000 pounds of cleanup. Emissions unit K002 will also have an annual adhesive production limitation of 100,000 pounds; Emissions unit K003 does not employ adhesives. The facility will maintain monthly usage records and submit quarterly reports to demonstrate compliance with the emission limitations.

**D. Conclusion**

The usage and emissions limitations mentioned above will prevent this facility from being subject to the MACT rules as a major source, non-attainment review new source review and the Emissions Offset Policy, and Title V regulations. Monthly record keeping and quarterly reporting requirements will be used to demonstrate compliance.



State of Ohio Environmental Protection Agency

**RE: DRAFT PERMIT TO INSTALL  
HAMILTON COUNTY**

**CERTIFIED MAIL**

Street Address:

Lazarus Gov. Center TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:  
Lazarus Gov.  
Center

**Application No:** 14-05821

**Fac ID:** 1431320434

**DATE:** 4/25/2006

Green Bay Packaging Inc. - Cincinnati  
Brian Duffy  
19017  
Cincinnati, OH 45249-1594

You are hereby notified that the Ohio Environmental Protection Agency has made a draft action recommending that the Director issue a Permit to Install for the air contaminant source(s) [emissions unit(s)] shown on the enclosed draft permit. This draft action is not an authorization to begin construction or modification of your emissions unit(s). The purpose of this draft is to solicit public comments on the proposed installation. A public notice concerning the draft permit will appear in the Ohio EPA Weekly Review and the newspaper in the county where the facility will be located. Public comments will be accepted by the field office within 30 days of the date of publication in the newspaper. Any comments you have on the draft permit should be directed to the appropriate field office within the comment period. A copy of your comments should also be mailed to Robert Hodanbosi, Division of Air Pollution Control, Ohio EPA, P.O. Box 1049, Columbus, OH, 43266-0149.

A Permit to Install may be issued in proposed or final form based on the draft action, any written public comments received within 30 days of the public notice, or record of a public meeting if one is held. You will be notified in writing of a scheduled public meeting. Upon issuance of a final Permit to Install a fee of **\$400** will be due. Please do not submit any payment now.

The Ohio EPA is urging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469. If you have any questions about this draft permit, please contact the field office where you submitted your application, or Mike Ahern, Field Operations & Permit Section at (614) 644-3631.

Sincerely,

Michael W. Ahern, Manager  
Permit Issuance and Data Management Section  
Division of Air Pollution Control

CC: USEPA

HCDES

OH-KY-IN Regional Council of Gov.

KY

IN

**HAMILTON COUNTY**

**PUBLIC NOTICE**

**ISSUANCE OF DRAFT PERMIT TO INSTALL 14-05821 FOR AN AIR CONTAMINANT SOURCE FOR  
Green Bay Packaging Inc. - Cincinnati**

On 4/25/2006 the Director of the Ohio Environmental Protection Agency issued a draft action of a Permit To Install an air contaminant source for **Green Bay Packaging Inc. - Cincinnati**, located at **7660 School Road, Cincinnati, Ohio**.

Installation of the air contaminant source identified below may proceed upon final issuance of Permit To Install 14-05821:

**Chapter 31 modification to PTI 14-04040 for sources K002 and K003.**

Comments concerning this draft action, or a request for a public meeting, must be sent in writing to the address identified below no later than thirty (30) days from the date this notice is published. All inquiries concerning this draft action may be directed to the contact identified below.

Brad Miller, Hamilton County Department of Environmental Services, 250 William Howard Taft Pkwy,  
Cincinnati, OH 45219-2660 [(513)946-7777]



**Permit To Install  
Terms and Conditions**

**Issue Date: To be entered upon final issuance  
Effective Date: To be entered upon final issuance**

**DRAFT PERMIT TO INSTALL 14-05821**

Application Number: 14-05821  
Facility ID: 1431320434  
Permit Fee: **To be entered upon final issuance**  
Name of Facility: Green Bay Packaging Inc. - Cincinnati  
Person to Contact: Brian Duffy  
Address: 19017  
Cincinnati, OH 45249-1594

Location of proposed air contaminant source(s) [emissions unit(s)]:

**7660 School Road  
Cincinnati, Ohio**

Description of proposed emissions unit(s):

**Chapter 31 modification to PTI 14-04040 for sources K002 and K003.**

The above named entity is hereby granted a Permit to Install for the above described emissions unit(s) pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

**Green Bay Packaging Inc. - Cincinnati**  
**PTI Application: 14-05821**  
**Issued: To be entered upon final issuance**  
**Part I - GENERAL TERMS AND CONDITIONS**

**Facility ID: 1431320434**

## **A. Permit to Install General Terms and Conditions**

### **1. Compliance Requirements**

The emissions unit(s) identified in this Permit to Install shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

### **2. Reporting Requirements**

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

### **3. Records Retention Requirements**

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

### **4. Inspections and Information Requests**

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections,

**Green Bay Packaging Inc. - Cincinnati**

**Facility ID: 1431320434**

**PTI Application: 14-05821**

**Issued: To be entered upon final issuance**

conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

**5. Scheduled Maintenance/Malfunction Reporting**

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

**6. Permit Transfers**

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

**7. Air Pollution Nuisance**

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

**8. Termination of Permit to Install**

This Permit to Install shall terminate within eighteen months of the effective date of the Permit to Install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

**9. Construction of New Sources(s)**

The proposed emissions unit(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental

**Green Bay Packaging Inc. - Cincinnati**

**Facility ID: 1431320434**

**PTI Application: 14-05821**

**Issued: To be entered upon final issuance**

Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources cannot meet the requirements of this permit or cannot meet applicable standards.

If the construction of the proposed emissions unit(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.

**10. Public Disclosure**

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

**11. Applicability**

This Permit To Install is applicable only to the emissions unit(s) identified in the Permit To Install. Separate Permit To Install for the installation or modification of any other emissions unit(s) are required for any emissions unit for which a Permit To Install is required.

**12. Best Available Technology**

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

**13. Source Operation and Operating Permit Requirements After Completion of Construction**

**Green Bay Packaging Inc. - Cincinnati**

**PTI Application: 14-05821**

**Issued: To be entered upon final issuance**

**Facility ID: 1431320434**

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this

Emissions Unit ID: **K002**

permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within ninety (90) days after commencing operation of the emissions unit(s) covered by this permit.

**14. Construction Compliance Certification**

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has been constructed in accordance with the Permit to Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

**15. Fees**

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable Permit to Install fees within 30 days after the issuance of this Permit to Install.

**B. Permit to Install Summary of Allowable Emissions**

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

SUMMARY (for informational purposes only)  
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons Per Year</u>
VOC	14.82

**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
K002 - Langston Sheet-fed Flexographic Printing Press with Folder/Gluer	OAC rule 3745-31-05(A)(3)	<p>Volatile Organic Compound (VOC) emissions shall not exceed 18.13 lbs/hr and 8.66 tons per year (TPY).</p> <p>See terms A.2.b and B.1.</p> <p>The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(C), OAC rule 3745-21-09(Y)(1)(a) and 40 CFR Part 63 Subpart KK.</p>
	OAC rule 3745-31-05(C) (to avoid being a major stationary source for purposes of non attainment review and Title V permitting).	See terms A.2.c, A.2.d, and B.1.
	40 CFR Part 63, Subpart KK	See term A.2.e
	OAC rule 3745-21-09(Y)(1)(a)	See term B.2.

**2. Additional Terms and Conditions**

- 2.a Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the use

**Issued: To be entered upon final issuance**

of compliance coatings and usage and emission limitations.

- 2.b** The hourly emission limitation outlined are based upon the emissions unit's Potential to Emit (PTE). Therefore, no records are required to demonstrate compliance with this limitation.
- 2.c** The combined annual VOC emissions from emissions units K001 (Paper coating line for corrugated shipping containers), K002 (Langston sheet-fed flexographic printing press with folder/gluer), K003 (United Sheet-fed Flexographic Printing Press with Rotary Die Cutter), K004 (Bobst post folder/gluer), P002 (Corrugator mixing tank), R002 (Langston flexographic press with folder/gluer), R004 (United rotary press with die cutter) at Green Bay Packaging, including any de minimus air contaminant sources, as defined in OAC rule 3745-15-05, and permanent exemption air contaminant sources installed subsequent to the issuance of this permit shall not exceed 50 TPY VOC. Compliance with the above limitation shall be based on a rolling, 12-month summation. The permittee has existing records to demonstrate compliance with this limitation upon permit issuance.
- 2.d** The actual emissions of Hazardous Air Pollutants (HAPs), as identified in Section 112(b) of Title III of the Clean Air Act from emissions units K001 (Paper coating line for corrugated shipping containers), K002 (Langston sheet-fed flexographic printing press with folder/gluer), K003 (United Sheet-fed Flexographic Printing Press with Rotary Die Cutter), K004 (Bobst post folder/gluer), P002 (Corrugator mixing tank), R002 (Langston flexographic press with folder/gluer), R004 (United rotary press with die cutter) and other de minimis air contaminant sources, as defined in OAC rule 3745-15-05, and permanent exemption air contaminant sources installed subsequent to the issuance of this permit shall not exceed 9.9 TPY for any single HAP and 24.9 TPY for any combination of HAPs. Compliance with the above limitations shall be based on a rolling, 12-month summation. The permittee has existing records to demonstrate compliance with this limit upon permit issuance.
- 2.e** The permittee commits to and meets the criteria to be considered an area source for Hazardous Air Pollutants, and is subject only to the record keeping and reporting provisions in 40 CFR 63.829(d) and 40 CFR 63.830(b)(1).

**B. Operational Restrictions**

1. For purposes of federal enforceability with regard to potential to emit, emissions unit K002 shall not exceed the following annual pounds of material employed limitations based upon a 12-month summation of the monthly usage of materials employed and the

VOC content by percent weight limitations:

<u>Material</u>	<u>Pounds per Year</u>	<u>% VOC by Weight</u>
Water based inks	120,000	9.01
Water based adhesives	100,000	5.0
Cleanup material	15,000	10.0

The permittee has existing records to demonstrate compliance with this limit upon permit issuance.

2. For purposes of demonstrating compliance with OAC rule 3745-21-09(Y)(1)(a), the VOC content of the coatings employed in the emissions unit K002 shall not exceed the following limitations:
  - a. Forty (40%) percent VOC by volume of the coating, excluding water and exempt solvents; or
  - b. Twenty-five (25%) percent VOC by volume of the volatile matter in the coating.

### **C. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall collect and record the following information each month for the emissions units identified in term A.2.d:
  - a. The name and identification number for each coating and cleanup material employed.
  - b. The VOC content of the coatings and cleanup materials used in pounds per gallon, as applied.
  - c. The percent VOC by weight of each coating and cleanup material (excluding water and exempt solvents), as applied, or the percent VOC by volume of the volatile matter in the coating.
  - d. The number of gallons of each coating and cleanup material employed.
  - e. The total combined VOC emissions, in pounds or tons per month [the sum of (b) times (d) for each coating and cleanup material].
  - f. The individual Hazardous Air Pollutant (HAP) content for each HAP of each

**Issued: To be entered upon final issuance**

coating and cleanup material in pounds of individual HAP per gallon of material, as applied.

- g. The total combined HAP content of each coating and cleanup material in pounds of combined HAPs per gallon of material, as applied [sum all the individual HAP contents from (f)].
- h. The total individual HAP usage for each HAP from all coatings and cleanup materials employed, in pounds or tons per month [for each HAP the sum of (d) times (f) for each coating and cleanup material].
- i. The total combined HAP usage from all coatings and cleanup materials employed, in pounds or tons per month [the sum of (d) times (g) for each coating and cleanup material].
- j. The updated rolling, 12-month summation of usage for each individual HAP, in pounds or tons. This shall include the information for the current month and the preceding eleven calendar months.
- k. The updated rolling, 12-month summation of usage for total combined HAPs, in pounds or tons. This shall include the information for the current month and the preceding eleven calendar months.
- l. The updated rolling, 12-month summation of the VOC emissions from the emissions units identified in term A.2.c, in tons per year. This shall include the information for the current month and the preceding eleven calendar months.

A listing of the HAPs can be found in Section 112(b) of the Clean Air Act or can be obtained by contacting your Ohio EPA field office or local air agency contact. This information does not have to be kept on a line-by-line basis. The HAP record keeping is required by 40 CFR Part 63.830(b)(1).

2. The permittee shall collect and record the following information each month for this emissions unit:
  - a. The company identification of the ink, adhesive and cleanup material employed.
  - b. The amount, in pounds, of each ink, adhesive and cleanup material, as applied.
  - c. The VOC content of each ink, adhesive and cleanup material, as applied, in percent by

**Issued: To be entered upon final issuance**

weight.

- d. The VOC content of each ink or adhesive, in percent by volume excluding water and exempt solvent; or the VOC content of each ink or adhesive, in percent by volume of the volatile matter in the ink or adhesive.
  - e. The total VOC emissions from all inks, adhesives and cleanup materials, in pounds [summation of (b x c/100)].
3. The permittee shall maintain annual records of the following information for this emissions unit:
    - a. The total amount of ink, adhesive and cleanup material, in pounds, as applied.
    - b. The total annual VOC emissions, in TPY.

**D. Reporting Requirements**

1. The permittee shall notify the Hamilton County Department of Environmental Services in writing of any monthly record showing the use of noncomplying coatings as outlined in terms and condition B.1. and B.2. The notification shall include a copy of such record and shall be sent to the Hamilton County Department of Environmental Services within 30 days following the end of the calendar month. For each exceedance the permittee shall also identify if an exceedance of the applicable VOC emissions limit(s) occurred.
2. The permittee shall submit quarterly deviation reports which identify any exceedance of the HAP emission limitations set forth in term A.2.d. The reports shall be submitted to the Director (the Hamilton County Department of Environmental Services) by January 31, April 30, July 31 and October 31 of each year and shall cover the previous three calendar months (October through December, January through March, April through June and July through September, respectively.)

If no exceedances occurred, the permittee shall state so in the report.

3. The permittee shall submit quarterly deviation reports which identify any exceedance of the VOC emission limitation set forth in term A.2.c. The reports shall be submitted to the Director (the Hamilton County Department of Environmental Services) by January 31, April 30, July 31 and October 31 of each year and shall cover the previous three calendar months (October through December, January through March, April through June and July through September, respectively.)

If no exceedances occurred, the permittee shall state so in the report.

4. All quarterly deviation reports shall be submitted in accordance with paragraph A.1.c of the General terms and conditions of this permit.
5. The permittee shall submit annual reports to the Hamilton County Department of Environmental Services which summarize the VOC emissions from emissions unit K002 for the previous calendar year. The reports shall be submitted by January 31 of each year.

#### **E. Testing Requirements**

1. Compliance with the emissions limitations in Section A of these terms and conditions shall be determined in accordance with the following methods:

- a. Emissions Limitation:

18.13 lbs of VOC/hr.

Applicable Compliance Method:

The hourly VOC emission limitation was determined by multiplying the maximum hourly ink and adhesive usage, covering 100% of the web, by the maximum allowed percent VOC of each material [(185.1 lbs of ink/hour x 9.01% of VOC) + (29.08 lbs of adhesives/hour x 5.0% of VOC)].

- b. Emissions Limitation:

8.66 TPY of VOC.

Applicable Compliance Method:

The annual VOC emissions limitation was determined by multiplying the maximum allowable production limitations of the inks, adhesives and cleanup material by the maximum allowed percent VOC of each material [(120,000 lbs ink/year x 9.01% VOC) + (100,000 lbs adhesives/year x 5.0% VOC) + (15,000 lbs cleanup/year x 10.0% VOC)].

- c. Emissions Limitation:

**Issued: To be entered upon final issuance**

50.0 TPY of VOC combined from emissions units identified in term A.2.c.

Applicable Compliance Method:

Compliance with the VOC emission limitation in term A.2.c shall be demonstrated by the record keeping requirements specified in term C.1.

d. Emissions Limitations:

The total allowable emissions of Hazardous Air Pollutants (HAPs) from the emissions units identified in term and condition A.2.d shall not exceed 9.9 TPY for any single HAP and 24.9 TPY for any combination of HAPs.

Applicable Compliance Method:

Compliance with the HAPs emissions limitations in term A.2.d shall be demonstrated by the record keeping requirements specified in term C.1.

2. Compliance with the material usage and VOC content limitations in Section B of these terms and conditions shall be determined in accordance with the following methods:

a. Usage Limitation:

Inks: 120,000 lbs/year  
Adhesives: 100,000 lbs/year  
Cleanup material: 15,000 lbs/year

Applicable Compliance Method:

Compliance with the material usage limitations in term B.1 shall be demonstrated by the record keeping requirements specified in term C.1.

b. VOC Content Limitation:

Inks: 9.01% VOC, by weight  
Adhesives: 5.0% VOC, by weight  
Cleanup material: 10.0% VOC, by weight  
Forty (40%) percent VOC by volume of the coating, excluding water and exempt solvents; or twenty-five (25%) percent VOC by volume of the volatile matter in the coating (ink and adhesive).

**Green Bay Packaging Inc. - Cincinnati**  
**PTI Application: 14-05924**  
**Issue:**

**Facility ID: 1431320434**

**Emissions Unit ID: K002**

Applicable Compliance Method:

USEPA methods 24 and 24A shall be used to determine the VOC content for coatings. If, pursuant to Method 24, 40 CFR Part 60, an owner or operator determines that Method 24 or 24A cannot be used for a particular coating, the permittee shall so notify the Administrator of the USEPA and shall use formulation data for that coating to demonstrate compliance until the USEPA provides alternative analytical precision statements for Method 24 or 24A.

3. Compliance with the record keeping requirements of term A.2.e. shall be demonstrated by the record keeping requirements specified in term C.1.

#### **F. Miscellaneous Requirements**

1. The following terms and conditions of this permit are federally enforceable: A., B., C., D. and E.
2. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the increase in emissions due to the modification(s) to the emissions unit was less than 1 ton per year of each toxic pollutant that has a listed Threshold Limit Value (TLV), as documented in the most current version of the American Conference of Governmental Industrial Hygienists' (ACGIH's) handbook entitled "TLVs and BEIs" ("Threshold Limit Values for Chemical Substances and Physical Agents, Biological Exposure Indices").
3. The terms and conditions of this permit to install shall supersede those established in permit to install 14-04040 as issued on February 14, 1996.

Greer  
PTI A

Emissions Unit ID: **K003**

Issued: To be entered upon final issuance

**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
K003 - United Sheet-fed Flexographic Printing Press with Rotary Die Cutter	OAC rule 3745-31-05(A)(3)	<p>Volatile Organic Compound (VOC) emissions shall not exceed 13.16 lbs/hr and 6.16 tons per year (TPY).</p> <p>See terms A.2.b and B.1.</p> <p>The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(C), OAC rule 3745-21-09(Y)(1)(a) and 40 CFR Part 63 Subpart KK.</p>
	OAC rule 3745-31-05(C) (to avoid being a major stationary source for purposes of non attainment review and Title V permitting).	See terms A.2.c, A.2.d, and B.1.
	40 CFR Part 63, Subpart KK	See term A.2.e
	OAC rule 3745-21-09(Y)(1)(a)	See term B.2.

**2. Additional Terms and Conditions**

- 2.a Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the use

**Issued: To be entered upon final issuance**

of compliance coatings and usage and emission limitations.

- 2.b** The hourly emission limitation outlined are based upon the emissions unit's Potential to Emit (PTE). Therefore, no records are required to demonstrate compliance with this limit.
- 2.c** The combined annual VOC emissions from emissions units K001 (Paper coating line for corrugated shipping containers), K002 (Langston sheet-fed flexographic printing press with folder/gluer), K003 (United Sheet-fed Flexographic Printing Press with Rotary Die Cutter), K004 (Bobst post folder/gluer), P002 (Corrugator mixing tank), R002 (Langston flexographic press with folder/gluer), R004 (United rotary press with die cutter) at Green Bay Packaging, including any de minimus air contaminant sources, as defined in OAC rule 3745-15-05, and permanent exemption air contaminant sources installed subsequent to the issuance of this permit shall not exceed 50 TPY VOC. Compliance with the above limitation shall be based on a rolling, 12-month summation. The permittee has existing records to demonstrate compliance with this limitation upon permit issuance.
- 2.d** The actual emissions of Hazardous Air Pollutants (HAPs), as identified in Section 112(b) of Title III of the Clean Air Act from emissions units K001 (Paper coating line for corrugated shipping containers), K002 (Langston sheet-fed flexographic printing press with folder/gluer), K003 (United Sheet-fed Flexographic Printing Press with Rotary Die Cutter), K004 (Bobst post folder/gluer), P002 (Corrugator mixing tank), R002 (Langston flexographic press with folder/gluer), R004 (United rotary press with die cutter) and other de minimis sources, as defined in OAC rule 3745-15-05, and permanent exemption air contaminant sources installed subsequent to the issuance of this permit shall not exceed 9.9 TPY for any single HAP and 24.9 TPY for any combination of HAPs. Compliance with the above limitations shall be based on a rolling, 12-month summation. The permittee has existing records to demonstrate compliance with this limit upon permit issuance.
- 2.e** The permittee commits to and meets the criteria to be considered an area source for Hazardous Air Pollutants, and is subject only to the record keeping and reporting provisions in 40 CFR 63.829(d) and 40 CFR 63.830(b)(1).

**B. Operational Restrictions**

1. Emissions unit K002 shall not exceed the following maximum annual production rate limitations and VOC content limitations:

Emissions Unit ID: **K003**

<u>Material</u>	<u>Pounds per Year</u>	<u>% VOC by Weight</u>
Water based inks	120,000	9.01
Cleanup material	15,000	10.0

The permittee has existing records to demonstrate compliance with this limit upon permit issuance.

2. The VOC content of the coatings employed in the emissions unit K002 shall not exceed the following limitations:
  - i. Forty (40%) percent VOC by volume of the coating, excluding water and exempt solvents; or
  - ii. Twenty-five (25%) percent VOC by volume of the volatile matter in the coating.

### **C. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall collect and record the following information each month for the emissions units identified in term A.2.d:
  - a. The name and identification number for each coating and cleanup material employed.
  - b. The VOC content of the coatings and cleanup materials used in pounds per gallon, as applied.
  - c. The percent VOC by weight of each coating and cleanup material (excluding water and exempt solvents), as applied, or the percent VOC by volume of the volatile matter in the coating.
  - d. The number of gallons of each coating and cleanup material employed.
  - e. The total combined VOC emissions, in pounds or tons per month [the sum of (b) times (d) for each coating and cleanup material].
  - f. The individual Hazardous Air Pollutant (HAP) content for each HAP of each coating and cleanup material in pounds of individual HAP per gallon of material, as applied.
  - g. The total combined HAP content of each coating and cleanup material in pounds

**Issued: To be entered upon final issuance**

of combined HAPs per gallon of material, as applied [sum all the individual HAP contents from (f)].

- h. The total individual HAP usage for each HAP from all coatings and cleanup materials employed, in pounds or tons per month [for each HAP the sum of (d) times (f) for each coating and cleanup material].
- i. The total combined HAP usage from all coatings and cleanup materials employed, in pounds or tons per month [the sum of (d) times (g) for each coating and cleanup material].
- j. The updated rolling, 12-month summation of usage for each individual HAP, in pounds or tons. This shall include the information for the current month and the preceding eleven calendar months.
- k. The updated rolling, 12-month summation of usage for total combined HAPs, in pounds or tons. This shall include the information for the current month and the preceding eleven calendar months.
- l. The updated rolling, 12-month summation of the VOC emissions from the emissions units identified in term A.2.c, in tons per year. This shall include the information for the current month and the preceding eleven calendar months.

A listing of the HAPs can be found in Section 112(b) of the Clean Air Act or can be obtained by contacting your Ohio EPA field office or local air agency contact. This information does not have to be kept on a line-by-line basis. The HAP record keeping is required by 40 CFR Part 63.830(b)(1).

- 2. The permittee shall collect and record the following information each month for this emissions unit:
  - a. The company identification of the ink, adhesive and cleanup material employed.
  - b. The amount, in pounds, of each ink, adhesive and cleanup material, as applied.
  - c. The VOC content of each ink, adhesive and cleanup material, as applied, in percent by weight.
  - d. The VOC content of each ink or adhesive, in percent by volume excluding water and exempt solvent; or the VOC content of each ink or adhesive, in percent by

Emissions Unit ID: **K003**

volume of the volatile matter in the ink or adhesive.

- e. The total VOC emissions from all inks, adhesives and cleanup materials, in pounds [summation of (b x c/100)].
3. The permittee shall maintain annual records of the following information for this emissions unit:
    - a. the total amount of ink, adhesive and cleanup material, in pounds, as applied;
    - b. the total annual VOC emissions, in TPY.

#### **D. Reporting Requirements**

1. The permittee shall notify the Hamilton County Department of Environmental Services in writing of any monthly record showing the use of noncomplying coatings as outlined in terms and condition B.1. and B.2. The notification shall include a copy of such record and shall be sent to the Hamilton County Department of Environmental Services within 30 days following the end of the calendar month. For each exceedance the permittee shall also identify if an exceedance of the applicable VOC emissions limit(s) occurred.
2. The permittee shall submit quarterly deviation reports which identify any exceedance of the HAP emission limitations set forth in term A.2.d. The reports shall be submitted to the Director (the Hamilton County Department of Environmental Services) by January 31, April 30, July 31 and October 31 of each year and shall cover the previous three calendar months (October through December, January through March, April through June and July through September, respectively.)

If no exceedances occurred, the permittee shall state so in the report.

3. The permittee shall submit quarterly deviation reports which identify any exceedance of the VOC emission limitation set forth in term A.2.c. The reports shall be submitted to the Director (the Hamilton County Department of Environmental Services) by January 31, April 30, July 31 and October 31 of each year and shall cover the previous three calendar months (October through December, January through March, April through June and July through September, respectively.)

If no exceedances occurred, the permittee shall state so in the report.

4. All quarterly deviation reports shall be submitted in accordance with paragraph A.1.c of

**Issued: To be entered upon final issuance**

the General terms and conditions of this permit.

5. The permittee shall submit annual reports to the Hamilton County Department of Environmental Services which summarize the VOC emissions from emissions unit K003 for the previous calendar year. The reports shall be submitted by January 31 of each year.

**E. Testing Requirements**

1. Compliance with the emissions limitations in Section A. of these terms and conditions shall be determined in accordance with the following method(s):

- a. Emissions Limitation:

13.16 lbs of VOC/hr.

Applicable Compliance Method:

The hourly VOC emission limitation was determined by multiplying the maximum hourly ink and adhesive usage, covering 100% of the web, by the maximum allowed percent VOC of each material (146 lbs ink/hour x 9.01% of VOC).

- b. Emissions Limitation:

6.16 TPY of VOC.

**Issued: To be entered upon final issuance**

Applicable Compliance Method:

The annual VOC emission limitation was determined by multiplying the maximum allowable production limitations of the inks, adhesives and cleanup material by the maximum allowed percent VOC of each material [(120,000 lbs of ink/year x 9.01% of VOC) + (15,000 lbs of cleanup material/year x 10.0% of VOC)].

c. Emissions Limitation:

50.0 TPY of VOC combined from emissions units identified in term A.2.c.

Applicable Compliance Method:

Compliance with the VOC emission limitation in term A.2.c shall be demonstrated by the record keeping requirements specified in term C.1.

d. Emissions Limitations:

The total allowable emissions of Hazardous Air Pollutants (HAPs) from the emissions units identified in term and condition A.2.d shall not exceed 9.9 TPY for any single HAP and 24.9 TPY for any combination of HAPs.

Applicable Compliance Method:

Compliance with the HAPs emissions limitations in term A.2.d shall be demonstrated by the record keeping requirements specified in term C.1.

2. Compliance with the material usage and VOC content limitations in Section B of these terms and conditions shall be determined in accordance with the following methods:

a. Usage Limitation:

Inks: 120,000 lbs/year  
Cleanup material: 15,000 lbs/year

Applicable Compliance Method:

Compliance with the material usage limitations in term B.1 shall be demonstrated by the record keeping requirements specified in term C.1.

b. VOC Content Limitation:

**Green Bay Packaging Inc. - Cincinnati**  
**PTI Application: 14-05824**  
**Issue**

**Facility ID: 1431320434**

**Emissions Unit ID: K003**

Inks: 9.01% of VOC, by weight

Cleanup material: 10.0% of VOC, by weight

Forty (40%) percent VOC by volume of the coating, excluding water and exempt solvents; or twenty-five (25%) percent VOC by volume of the volatile matter in the coating (ink and adhesive).

Applicable Compliance Method:

USEPA methods 24 and 24A shall be used to determine the VOC content for coatings. If, pursuant to Method 24, 40 CFR Part 60, an owner or operator determines that Method 24 or 24A cannot be used for a particular coating, the permittee shall so notify the Administrator of the USEPA and shall use formulation data for that coating to demonstrate compliance until the USEPA provides alternative analytical precision statements for Method 24 or 24A.

3. Compliance with the record keeping requirements of term A.2.e shall be demonstrated by the record keeping requirements specified in term C.1.

#### **F. Miscellaneous Requirements**

1. The following terms and conditions of this permit are federally enforceable: A., B., C., D. and E.
2. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the increase in emissions due to the modification(s) to the emissions unit was less than 1 ton per year of each toxic pollutant that has a listed Threshold Limit Value (TLV), as documented in the most current version of the American Conference of Governmental Industrial Hygienists' (ACGIH's) handbook entitled "TLVs and BEIs" ("Threshold Limit Values for Chemical Substances and Physical Agents, Biological Exposure Indices").
3. The terms and conditions of this permit to install shall supersede those established in permit to install 14-04819 as issued on October 20, 1999.