



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL CERTIFIED MAIL  
BUTLER COUNTY**

Street Address:

122 S. Front Street

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

Mailing Address:

Lazarus Gov. Center  
P.O. Box 1049

**Application No: 14-05024**

**DATE: 11/16/2000**

Conestoga Wood Specialties  
Jeff Huser  
2620 Bobmeyer Rd  
Hamilton, OH 45015-1306

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

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.

You are hereby notified that this action by the Director is final and may be appealed to the Ohio Environmental Review Appeals Commission pursuant to Chapter 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. It must be filed within thirty (30) days after the notice of the Directors action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission  
236 East Town Street, Room 300  
Columbus, Ohio 43215

Very truly yours,

Thomas G. Rigo, Manager  
Field Operations and Permit Section  
Division of Air Pollution Control

CC: USEPA

HCDES



**Permit To Install**

STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

**FINAL PERMIT TO INSTALL 14-05024**

Application Number: 14-05024  
APS Premise Number: 1409040857  
Permit Fee: **\$400**  
Name of Facility: Conestoga Wood Specialties  
Person to Contact: Jeff Huser  
Address: 2620 Bobmeyer Rd  
Hamilton, OH 45015-1306

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**2620 Bobmeyer Rd**  
**Hamilton, Ohio**

Description of proposed emissions unit(s):  
**2 - paint spray booths for wood products.**

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

## **Part I - GENERAL TERMS AND CONDITIONS**

### **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 Related to Monitoring and Recordkeeping 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, 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 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 are inadequate 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 prove to be inadequate 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 application must be made to the Director for the installation or modification of any other emissions unit(s).

**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**

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 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 thirty (30) days after commencing operation of the emissions unit(s) covered by this permit.

**Conestoga Wood Specialties**  
**PTI Application: 14-05024**  
**Issued: 11/16/2000**

**Facility ID: 1409040857**

**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>
OC	17.0
formaldehyde	0.12

**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>
R004 - Paint spray booth for wood products	OAC rule 3745-31-05(A)(3)	7.3 TPY OC excluding cleanup materials  1.2 TPY OC for cleanup materials  6.5 lb. OC/day for cleanup materials  0.05 lbs. formaldehyde/hour  0.06 TPY formaldehyde  See T&C A.2.2.b, A.2.2.c, A.2.2.d, A.2.2.e., and B.1 - B.4.  The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-07(G)(2).
	OAC rule 3745-21-07(G)(2)	8 lbs. OC/hr and 40 lbs. OC/day excluding cleanup material emissions

**2. Additional Terms and Conditions**

- 2.a** Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the use of air-assisted airless spray guns, coating and cleanup material usage limitations, emissions limitations, OC content limitations, and compliance with Ohio EPA Air Toxics Policy.
- 2.b** The total allowable usage of Hazardous Air Pollutants (HAPs), as identified in Section 112(b) of Title III of the Clean Air Act, from this facility 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 the rolling, 12-month summation limit.
- \* This assumes the HAPs emitted are the same as the amount of HAPs used since all HAPs used evaporate.
- 2.c** The maximum OC content of the cleanup material employed in this emissions unit shall not exceed 6.53 pounds per gallon.
- 2.d** The maximum OC content of the coating materials, as applied, employed in this emissions unit shall not exceed 4.4 pounds per gallon.
- 2.e** The maximum formaldehyde content of the coating materials, as applied, employed in this emissions unit shall not exceed 0.4 percent, by weight.

## **B. Operational Restrictions**

1. The permittee shall not employ photochemically reactive cleanup material, as defined in OAC rule 3745-21-01(C)(5), in emissions unit R004.
2. The maximum coating usages for this emissions unit shall not exceed 9.1 gallons per day and 3318.2 gallons per year.
3. The maximum usages for coatings containing formaldehyde shall not exceed 1.3 gallons per hour, This limit is based on the use of the Ohio EPA Air Toxics Policy and emission unit modeling.
4. The maximum amount of cleanup material evaporated in emissions unit R004 shall not exceed 1.0 gallon per day and 365 gallons per year.

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

1. The permittee shall collect and record the following information each day for this emissions unit:

- a. The company identification for each coating and cleanup material employed.
- b. Documentation on whether or not each coating and cleanup material is a photochemically reactive material.
- c. Documentation on the amount, by weight, of formaldehyde in each coating and cleanup material.
- d. The number of gallons of each coating and cleanup material employed.
- e. The OC content of each coating and cleanup material, in pounds per gallon, as-applied.
- f. The organic compound emission rate for each coating and cleanup material, in pounds per day (d x e).
- g. The total organic compound emission rate for all coatings and cleanup material, in pounds per day.
- h. The total number of hours the spray gun was in operation.
- i. The average hourly organic compound emission rate for all coatings, i.e., (g)/(h), in pounds per hour (average).
- j. The hourly gallon usage rate when employing any formaldehyde containing coating.

The coating information must be for the coatings **as applied**, including any thinning solvents added at the emissions unit.

2. The permittee shall collect and record the following information each month for the entire facility:
  - a. the name and identification number of each coating, employed;
  - b. the individual Hazardous Air Pollutant (HAP) content for each HAP of each coating in pounds of individual HAP per gallon of coating, as applied;
  - c. the total combined HAP content of each coating in pounds of combined HAPs per gallon of coating, as applied [sum all the individual HAP contents from (b)];
  - d. the number of gallons of each coating employed;

Emissions Unit ID: R004

- e. the name and identification of each cleanup material employed;
  - f. the individual HAP content for each HAP of each cleanup material, in pounds of individual HAP per gallon of cleanup material, as applied;
  - g. the total combined HAP content of each cleanup material, in pounds of combined HAPs per gallon of cleanup material, as applied [sum all the individual HAP contents from (f)];
  - h. the number of gallons of each cleanup material employed;
  - i. 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 (b) times (d) for each coating plus the sum of (f) times (h) for each cleanup material];
  - j. the total combined HAP usage from all coatings and cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) for each coating plus the sum of (g) times (h) for each cleanup material];
  - k. the updated rolling, 12-month summation of usage for each individual HAP emissions\*\*, in pounds or tons. This shall include the information for the current month and the preceding eleven calendar months; and
  - l. the updated rolling, 12-month summation of usage for total combined HAP emissions\*\*, in pounds or tons. 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 Hamilton County Department of Environmental Services contact. This information does not have to be kept on a individual emissions unit basis.
- \*\* This assumes the HAP(s) emitted are the same as the amounts of HAP(s) used since all HAP(s) used evaporated.
3. The permit to install for this emissions unit R004 was evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Ground-Level Concentration (MAGLC). Emissions units R004 and R005 were

modeled as two co-located sources.

The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: diacetone alcohol

TLV ( $\mu\text{g}/\text{m}^3$ ): 237,500

Maximum Hourly Emission Rate (lbs/hr): 1.28

Predicted 1-Hour Maximum Ground-Level Concentration ( $\mu\text{g}/\text{m}^3$ ): 117.2

MAGLC ( $\mu\text{g}/\text{m}^3$ ): 5655

Pollutant: formaldehyde

TLV ( $\mu\text{g}/\text{m}^3$ ): 370

Maximum Hourly Emission Rate (lbs/hr): 0.05

Predicted 1-Hour Maximum Ground-Level Concentration ( $\mu\text{g}/\text{m}^3$ ): 8.8

MAGLC ( $\mu\text{g}/\text{m}^3$ ): 8.8

Physical changes to or in the method of operation of the emissions unit after it's installation or modification could affect the parameters used to determine whether or not the "Air Toxics Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in the "Air Toxic Policy" include the following:

- a. changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;
- b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the

application and modeled: and

- c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the "Air Toxic Policy" will be satisfied with the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is(are) defined as a modification under other provisions of the modification definition [other than (VV)(1)(a)(ii)], then the permittee shall obtain a final permit to install prior to the change.

The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will satisfy the Air Toxic Policy:"

- a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
- b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
- c. when the computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

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

1. The permittee shall submit deviation (excursion) reports which include the following information:
  - a. An identification of each day during which the average hourly organic compound emissions from the coatings exceeded 8 pounds per hour, and the actual average hourly organic compound emissions for each such day.
  - b. An identification of each day during which the organic compound emissions from the coatings exceeded 40 pounds per day, and the actual organic compound emissions for each such day.
  - c. An identification of each hour during which the formaldehyde emissions from the coatings exceeded 0.05 pounds per hour or the formaldehyde coating usage rate exceeded 1.3 gallons per hour.
2. The permittee shall submit deviation (excursion) reports which include the following information:

- a. An identification of any cleanup material containing photochemically reactive material [as defined in OAC rule 3745-21-01(C)(5)] which was employed in this emissions unit. This report shall identify the cause for the use of the photochemically reactive material(s) in the cleanup material and the estimated total quantity of material(s) emitted each such day.
  - b. Any exceedances of the coating and cleanup material usage limitations .
  - c. Any exceedances of the OC content limitations for all coatings and cleanup materials.
3. The permittee shall notify the Hamilton County Department of Environmental Services of any exceedance of the HAP emissions limitations set forth in this permit. The permittee shall submit annual reports which identify all exceedances of these limitations, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year. If no exceedances occurred during the reporting period then a report is required stating so.
  4. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

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

1. Formulation data or USEPA method 24 (for coatings) or 24A (for flexographic and rotogravure printing inks and related coatings) shall be used to determine the OC contents of the inks and coatings.
2. Compliance with the emission limitations outlined in this permit shall be demonstrated by the emission factors, control efficiencies (if applicable) and the operational parameters as submitted in the PTI application 14-05024 submitted 9/29/00.
3. Compliance with the usage limits cited in term B.2 - B.4 shall be demonstrated by the record keeping in terms C.1.
4. Compliance with the OC content limits cited in term A.2.c. and A.2.d. shall be demonstrated by the record keeping in term C.1.
5. Compliance with the HAP emissions limits cited in term A.2.b shall be demonstrated by the record keeping in term C.2.
6. Compliance with the formaldehyde limit cited in term A.2.e. shall be demonstrated by the recordkeeping in term C.1.

**Conestoga Wood Specialties**  
**PTI Application: 14-05024**  
**Issued**

**Facility ID: 1409040857**

Emissions Unit ID: **R004**

**F. Miscellaneous Requirements**

None

**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>
R005 - Paint spray booth for wood products	OAC rule 3745-31-05(A)(3)	7.3 TPY OC excluding cleanup materials  1.2 TPY OC for cleanup materials  6.5 lb. OC/day for cleanup materials  0.05 lbs. formaldehyde/hour  0.06 TPY formaldehyde  See T&C A.2.2.b, A.2.2.c, A.2.2.d and B.1 - B.4.  The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-07(G)(2). 8 lbs. OC/hr and 40 lbs. OC/day excluding cleanup material emissions
	OAC rule 3745-21-07(G)(2)	

**2. Additional Terms and Conditions**

- 2.a Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by the use of air-assisted airless spray guns, coating and cleanup material usage limitations, emissions

limitations, OC content limitations, and compliance with Ohio EPA Air Toxics Policy.

- 2.b** The total allowable usage of Hazardous Air Pollutants (HAPs), as identified in Section 112(b) of Title III of the Clean Air Act, from this facility 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 the rolling, 12-month summation limit.

\* This assumes the HAPs emitted are the same as the amount of HAPs used since all HAPs used evaporate.

- 2.c** The maximum OC content of the cleanup material employed in this emissions unit shall not exceed 6.53 pounds per gallon.
- 2.d** The maximum OC content of the coating materials, as applied, employed in this emissions unit, shall not exceed 4.4 pounds per gallon.
- 2.e** The maximum formaldehyde content of the coating materials, as applied, employed in this emissions unit shall not exceed 0.4 percent, by weight.

## **B. Operational Restrictions**

1. The permittee shall not employ photochemically reactive cleanup material, as defined in OAC rule 3745-21-01(C)(5), in emissions unit R005.
2. The maximum coating usages for this emissions unit shall not exceed 9.1 gallons per day and 3318.2 gallons per year.
3. The maximum usages for coatings containing formaldehyde shall not exceed 1.3 gallons per hour. This limit is based on the use of the Ohio EPA Air Toxics Policy and emission unit modeling.
4. The maximum amount of cleanup material evaporated in emissions unit R005 shall not exceed 1.0 gallon per day and 365 gallons per year.

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

1. The permittee shall collect and record the following information each day for this emissions unit :
  - a. The company identification for each coating and cleanup material employed.

- b. Documentation on whether or not each coating and cleanup material is a photochemically reactive material.
- c. Documentation on the amount, by weight, of formaldehyde in each coating and cleanup material.
- d. The number of gallons of each coating and cleanup material employed.
- e. The OC content of each coating and cleanup material, in pounds per gallon, as-applied.
- f. The organic compound emission rate for each coating and cleanup material, in pounds per day (d x e).
- g. The total organic compound emission rate for all coatings and cleanup material, in pounds per day.
- h. The total number of hours the spray gun was in operation.
- i. The average hourly organic compound emission rate for all coatings, i.e., (g)/(h), in pounds per hour (average).
- j. The hourly gallon usage rate when employing any formaldehyde containing coating.

The coating information must be for the coatings **as applied**, including any thinning solvents added at the emissions unit.

- 2. The permittee shall collect and record the following information each month for the entire facility:
  - a. the name and identification number of each coating, employed;
  - b. the individual Hazardous Air Pollutant (HAP) content for each HAP of each coating in pounds of individual HAP per gallon of coating, as applied;
  - c. the total combined HAP content of each coating in pounds of combined HAPs per gallon of coating, as applied [sum all the individual HAP contents from (b)];
  - d. the number of gallons of each coating employed;
  - e. the name and identification of each cleanup material employed;

- f. the individual HAP content for each HAP of each cleanup material, in pounds of individual HAP per gallon of cleanup material, as applied;
- g. the total combined HAP content of each cleanup material, in pounds of combined HAPs per gallon of cleanup material, as applied [sum all the individual HAP contents from (f)];
- h. the number of gallons of each cleanup material employed;
- i. 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 (b) times (d) for each coating plus the sum of (f) times (h) for each cleanup material];
- j. the total combined HAP usage from all coatings and cleanup materials employed, in pounds or tons per month [the sum of (c) times (d) for each coating plus the sum of (g) times (h) for each cleanup material] ;
- k. the updated rolling, 12-month summation of usage for each individual HAP emissions\*\*, in pounds or tons. This shall include the information for the current month and the preceding eleven calendar months; and
- l. the updated rolling, 12-month summation of usage for total combined HAP emissions\*\*, in pounds or tons. 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 Hamilton County Department of Environmental Services contact. This information does not have to be kept on a individual emissions unit basis.

\*\* This assumes the HAP(s) emitted are the same as the amounts of HAP(s) used since all HAP(s) used evaporated.

- 3. The permit to install for this emissions unit R005 was evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Ground-Level Concentration (MAGLC). Emissions units R004 and R005 were modeled as two co-located sources.

The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: diacetone alcohol

TLV ( $\mu\text{g}/\text{m}^3$ ): 237,500

Maximum Hourly Emission Rate (lbs/hr): 1.28

Predicted 1-Hour Maximum Ground-Level Concentration ( $\mu\text{g}/\text{m}^3$ ): 117.2

MAGLC ( $\mu\text{g}/\text{m}^3$ ): 5655

Pollutant: formaldehyde

TLV ( $\mu\text{g}/\text{m}^3$ ): 370

Maximum Hourly Emission Rate (lbs/hr): 0.05

Predicted 1-Hour Maximum Ground-Level Concentration ( $\mu\text{g}/\text{m}^3$ ): 8.8

MAGLC ( $\mu\text{g}/\text{m}^3$ ): 8.8

Physical changes to or in the method of operation of the emissions unit after it's installation or modification could affect the parameters used to determine whether or not the "Air Toxics Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in the "Air Toxic Policy" include the following:

- a. changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;
- b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled: and

- c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the "Air Toxic Policy" will be satisfied with the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is(are) defined as a modification under other provisions of the modification definition [other than (VV)(1)(a)(ii)], then the permittee shall obtain a final permit to install prior to the change.

The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will satisfy the Air Toxic Policy:"

- a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
- b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
- c. when the computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

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

1. The permittee shall submit deviation (excursion) reports which include the following information:
  - a. An identification of each day during which the average hourly organic compound emissions from the coatings exceeded 8 pounds per hour, and the actual average hourly organic compound emissions for each such day.
  - b. An identification of each day during which the organic compound emissions from the coatings exceeded 40 pounds per day, and the actual organic compound emissions for each such day.
  - c. An identification of each hour during which the formaldehyde emissions from the coatings exceeded 0.05 pounds per hour or the formaldehyde coating usage rate exceeded 1.3 gallons per hour.
2. The permittee shall submit deviation (excursion) reports which include the following information:

- a. An identification of any cleanup material containing photochemically reactive material [as defined in OAC rule 3745-21-01(C)(5)] which was employed in this emissions unit. This report shall identify the cause for the use of the photochemically reactive material(s) in the cleanup material and the estimated total quantity of material(s) emitted each such day.
  - b. Any exceedances of the coating and cleanup material usage limitations .
  - c. Any exceedances of the OC content limitations for all coatings and cleanup materials.
3. The permittee shall notify the Hamilton County Department of Environmental Services of any exceedance of the HAP emissions limitations set forth in this permit. The permittee shall submit annual reports which identify all exceedances of these limitations, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year. If no exceedances occurred during the reporting period then a report is required stating so.
  4. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

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

1. Formulation data or USEPA method 24 (for coatings) or 24A (for flexographic and rotogravure printing inks and related coatings) shall be used to determine the OC contents of the inks and coatings.
2. Compliance with the emission limitations outlined in this permit shall be demonstrated by the emission factors, control efficiencies (if applicable) and the operational parameters as submitted in the PTI application 14-05024 submitted 9/29/00.
3. Compliance with the usage limits cited in term B.2 - B.4 shall be demonstrated by the record keeping in terms C.1.
4. Compliance with the OC content limits cited in term A.2.c. and A.2.d. shall be demonstrated by the record keeping in term C.1.
5. Compliance with the HAP emissions limits cited in term A.2.b shall be demonstrated by the record keeping in term C.2.
6. Compliance with the formaldehyde limit cited in term A.2.e. shall be demonstrated by the recordkeeping in term C.1.

**Conestoga Wood Specialties**  
**PTI Application: 14-05024**  
**Issued**

**Facility ID: 1409040857**

Emissions Unit ID: **R005**

**F. Miscellaneous Requirements**

None

**NEW SOURCE REVIEW FORM B**

PTI Number: 14-05024 Facility ID: 1409040857

FACILITY NAME Conestoga Wood Specialties

FACILITY DESCRIPTION 2 - naint sprav booths for wood products CITY/TWP Hamilton

Emissions Unit ID: **R005**

SIC CODE 2434 SCC CODE 3-07-020-99 EMISSIONS UNIT ID R004

EMISSIONS UNIT DESCRIPTION Paint spray booth for wood products

DATE INSTALLED Not begun

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	attainment				
PM <sub>10</sub>	attainment				
Sulfur Dioxide	attainment				
Organic Compounds	attainment	8.0 lbs./hr	8.5	8.0 lbs./hr	8.5
Nitrogen Oxides	attainment				
Carbon Monoxide	attainment				
Lead	attainment				
Other: Air Toxics	formaldehyde	0.05 lbs/hr	0.06	0.05 lbs./hr	0.06

APPLICABLE FEDERAL RULES:

NSPS? NESHAP? PSD? OFFSET POLICY?

**WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?**

**Enter Determination** The use of air-assisted airless spray guns, coating and cleanup material usage limitations, emissions limitations, OC content limitations, and compliance with Ohio EPA Air Toxics Policy.

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? Yes

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$ \_\_\_\_\_

**TOXIC AIR CONTAMINANTS**

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED\*? X YES        NO

IDENTIFY THE AIR CONTAMINANTS: diacetone alcohol, formaldehyde



**NEW SOURCE REVIEW FORM B**

PTI Number: 14-05024

Facility ID: 1409040857

FACILITY NAME Conestoga Wood Specialties

FACILITY DESCRIPTION 2 - naint sprav booths for wood products CITY/TWP Hamilton

Emissions Unit ID: **R005**

**Ohio EPA Permit to Install Information Form** Please describe below any documentation which is being submitted with this recommendation (must be sent the same day). Electronic items should be submitted with the e-mail transmitting the PTI terms, and in software that CO can utilize. If mailing any hard copy, this section must be printed as a cover page. All items must be clearly labeled indicating the PTI name and number. Submit **hard copy items to Pam McGraner**, AQM&P, DAPC, Central Office, and electronic files to [airpti@epa.state.oh.us](mailto:airpti@epa.state.oh.us)

Please fill out the following. If the checkbox does not work, replace it with an 'X'

	<u>Electronic</u>	<u>Additional information File Name Convention (your PTI # plus this letter)</u>	<u>Hard Copy</u>	<u>None</u>
<u>Calculations (required)</u>	<input type="checkbox"/>	0000000c.wpd	<input checked="" type="checkbox"/>	
<u>Modeling form/results</u>	<input type="checkbox"/>	0000000s.wpd	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>PTI Application (complete or partial)*</u>	<input type="checkbox"/>	0000000a.wpd	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<u>BAT Study</u>	<input type="checkbox"/>	0000000b.wpd	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<u>Other/misc.</u>	<input type="checkbox"/>	0000000t.wpd	<input type="checkbox"/>	<input checked="" type="checkbox"/>

\* Mandatory for netting, PSD, nonattainment NSR, 112(g), 21-07(G)(9)(g) and 21-09(U)(2)(f) - 2 complete copies.

Please complete (see comment bubble to the left for additional instructions):

**NSR Discussion**

Conestoga Wood Specialties  
2620 Bobmeyer Road  
Hamilton, OH 45015  
PN: 1409040857

**PERMIT REVIEW NARRATIVE**

**PTI 14-05024**

Conestoga Wood Specialties (formerly Solidoor) manufactures wood cabinet doors. This Permit to Install(PTI) is for two, spray coating booths  emissions units R004 and R005. The coating booths employ air-assisted airless spray guns and are followed by a batch drying oven. With the addition of these two booths, the permittee will have a total of five spray paint booths.

The applicable regulations are:

OAC rule 3745-31-05(A)(3) which requires the use of BAT,  
OAC rule 3745-21-07(G)(2) which limits OC emissions to 8 pounds per hour and 40 pounds per day, and  
OAC rule 3745-15-07, which prohibits air pollution nuisances.

Through a previous synthetic minor PTI, 14-4151, Conestoga Wood Specialties requested federally enforceable limits in order to opt out of Title V permitting and the proposed 40 CFR 63 Subpart JJ regulations. HAPs recordkeeping and reporting for the facility was required through this synthetic minor PTI. Total emissions for the two booths will be

**NEW SOURCE REVIEW FORM B**

PTI Number: 14-05024

Facility ID: 1409040857

FACILITY NAME Conestoga Wood Specialties

FACILITY DESCRIPTION 2 - naint sprav booths for wood products CITY/TWP Hamilton

Emissions Unit ID: **R005**

limited to 17.0 TPY OC including cleanup.

Calculations were based on Material Safety Data Sheets (MSDSs) supplied by the applicant for coating and cleanup materials that will be used in the spray booths. The coatings contain photochemically reactive material (PRM) and are subject to OAC rule 3745-21-07 (G)(2). The cleanup materials do not contain PRM, so permit usage and emission limits are based on the usage information provided by Conestoga.

BAT is satisfied by the use of air-assisted airless spray guns and emission, usage, and OC content limitations and compliance with the air toxics policy. One coating used by the permittee contains 0.4 percent, by weight, formaldehyde. In order to comply with air toxics modeling, usage of this coating will be limited to 1.3 gallons per hour.

The permit fee for R004 and R005 is \$ 200 per booth based on a PWR less than 1000 pounds/hour. Total fee is \$400.00.

Barbara Kerdolff  
October 26, 2000

Please complete for these type permits (For PSD/NSR Permit, place mouse over this text):

Synthetic Minor Determination and/or  Netting Determination  
Permit To Install ENTER PTI NUMBER HERE

- A. Source Description
- B. Facility Emissions and Attainment Status
- C. Source Emissions
- D. Conclusion

PLEASE PROVIDE ADDITIONAL NOTES OR COMMENTS AS NECESSARY:

NONE

Please complete:

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

<u>Pollutant</u>	<u>Tons Per Year</u>
------------------	----------------------

**2** NEW SC

PTI Num

FACILITY

Emissions Unit ID: **R005** \_\_\_\_\_

<u>FACILITY DESCRIPTION</u>	<u>CITY/TWP</u>
2 - paint spray booths for wood products	Hamilton
OC	17.0
formaldehyde	0.12