



State of Ohio Environmental Protection Agency

Street Address:

Lazarus Gov. Center  
122 S. Front Street  
Columbus, OH 43215

TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov. Center  
P.O. Box 1049  
Columbus, OH 43216-1049

**RE: FINAL PERMIT TO INSTALL  
GEAUGA COUNTY  
Application No: 02-13185**

**CERTIFIED MAIL**

X	TOXIC REVIEW
	PSD
X	SYNTHETIC MINOR
	CEMS
	MACT
	NSPS
	NESHAPS
	NETTING
	MAJOR NON-ATTAINMENT
	MODELING SUBMITTED
	GASOLINE DISPENSING FACILITY

**DATE: February 24, 2000**

*NO ROLLING LIMITS*

Kraftmaid Cabinetry, Inc.  
Bennett Wetzel  
PO Box 1055  
Middlefield, OH 44062

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, buy 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

**RECEIVED**

**MAR - 2 2000**

**OHIO EPA NEDO**

cc: USEPA  
DAPC, NEDO



Permit To Install  
Terms and Conditions

Issue Date: February 24, 2000  
Effective Date: February 24, 2000

**FINAL PERMIT TO INSTALL 02-13185**

Application Number: 02-13185

APS Premise Number: 0228000213

Permit Fee: **\$2400**

Name of Facility: Kraftmaid Cabinetry, Inc.

Person to Contact: Bennett Wetzel

Address: PO Box 1055  
Middlefield, OH 44062

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**15535 South State Avenue  
Middlefield, Ohio**

Description of proposed emissions unit(s):  
**6 WATER-BASED WOOD KITCHEN CABINETS FINISHING OPERATIONS.**

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.

**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	49.8
HAP (each)	9.5
HAPS (all)	24.5

**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>
UV Stain Roll Coating Line	OAC rule 3745-21-07 (G)	Use of only non-photochemically reactive materials as defined in OAC 3745-21-01 (C)(5)
	OAC rule 3745-31-05 (A)(3)	83.5 pounds VOC per day and 15.2 tons per year from coating line
	OAC rule 3745-35-07 (B)	1367 pounds VOC per month and 7.9 tons VOC per year from clean-up, touch-up, and support materials facility-wide
		facility-wide limit of 9.9 tons of individual HAP as a rolling 12-month summation
		facility-wide limit of 24.5 tons of combined HAPs as a rolling 12-month summation

**2. Additional Terms and Conditions**

2.a None.

**B. Operational Restrictions**

1. This facility has sufficient records to demonstrate compliance with the synthetic minor restriction for the past 12 months.

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

1. The permittee shall collect and record the following information for each day for the coating operation:

- a. The company identification for each coating employed;
  - b. The number of gallons of each coating employed;
  - c. A determination if the coating is photochemically reactive;
  - d. The organic compound content of each coating, in pounds per gallon; and,
  - e. The total organic compound emission rate for all coatings, in pounds per day.
2. The permittee shall collect and record the following information for clean-up, touch-up, and support material use monthly on a facility-wide basis:
- a. The company identification for each organic material employed;
  - b. The number of gallons of each organic material employed;
  - c. A determination if the organic material is photochemically reactive;
  - d. The organic compound content of each organic material, in pounds per gallon; and,
  - e. The total organic compound emission rate for all organic material, in pounds.
3. The permittee shall collect and record the following information for each change where the air toxic modeling was required pursuant to the Air Toxic Policy:
- a. background data that describes the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.); and,
  - b. a copy of the resulting computer model runs that show the results of the application of the Air Toxic Policy for the change.
4. The permittee shall collect and record the following information each month to determine HAP emissions:
- a. The name and identification number of each coating, as applied;
  - b. The individual Hazardous Air Pollutant (HAP)<sup>1</sup> content for each HAP of each coating in pounds of individual HAP per gallon of coating, as applied;
  - c. The total combined Hazardous Air Pollutant (HAP) content for each HAP of each coating in pounds of combined HAPs per gallon of coating, as applied (sum all the individual HAP contents from b);



notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA Northeast District Office).

4. The permittee shall submit deviation (excursion) reports which include an identification of each day during which photochemically reactive organic compounds were employed, and the actual organic compound emissions for each such day. The report shall be submitted within 15 days of the end of the calendar quarter to the Northeast District Office of the Ohio Environmental Protection Agency. If no deviations occurred during any calendar quarter, a report to that effect shall be sent.

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

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

- a. **EMISSION LIMITATION:**

The use of only non-photochemically reactive organic compounds

83.5 lbs VOC per day and 15.2 TPY from the coating line

1367 pounds VOC per month and 7.9 tons VOC per year from clean-up, touch-up, and support materials facility-wide

9.9 TPY any individual HAP emissions

24.5 TPY combined HAPs emissions

**APPLICABLE COMPLIANCE METHOD:**

OAC rule 3745-21-10 (B). Formulation data or USEPA Methods 24 and 24A shall be used to determine the VOC contents for coatings and HAPs. Compliance shall be determined by the record keeping detailed above.

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

1. This permit supersedes Permit to Install Number 02-4426, effective June 5, 1991, for this emissions unit.
2. This permit allows the use of materials (typically coatings and cleanup materials) specified by the permittee in the permit to install application for this emissions unit. The emission limitation(s) specified in this permit was (were) established using the Ohio EPA's "Air Toxic Policy" and is (are) based on both the materials used and the design parameters of the emissions unit's exhaust system, as specified in the application. The Ohio EPA's "Air Toxic Policy" was applied as though all permitted VOC emissions were the pollutant with the most restrictive MAGLC and using the SCREEN 3.0 model and comparing the predicted 1-hour maximum ground-level concentration to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of this modeling:

Pollutant: Butanol

TLV (ug/m3): C 152,000

Maximum Hourly Emission Rate (lbs/hr): 22.87

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 24

MAGLC (ug/m3): 2,667

OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by the OAC rule 3745-31-01. The permittee is hereby advised that the following changes to the process may be determined to be a "modification":

- 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 specified in the above table;
- b. changes to the emissions unit or its exhaust parameters (e.g., increased emission rate [not including an increase in an "allowable" emission limitation specified in the terms and conditions of this permit], reduced exhaust gas flow rate, and decreased stack height);
- c. changes in the composition of the materials used, or use of new materials, that would result in the emission of an air contaminant not previously permitted; and,
- d. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant that has a listed TLV.

The Ohio EPA will not consider any of the above-mentioned as a "modification" requiring a permit to install, if the following conditions are met:

- a. the change is not otherwise considered a "modification" under OAC Chapter 3745-31;
- b. the permittee can continue to comply with the allowable emission limitations specified in its permit to install; and,
- c. prior to the change, the applicant conducts an evaluation pursuant to the Air Toxic Policy, determines that the changed emissions unit still satisfies the Air Toxic Policy, and the permittee maintains documentation that identifies the change and the results of the application of the Air Toxic Policy for the change.

For any change to the emissions unit or its method of operation that either would require an increase in the emission limitation(s) established by this permit or would otherwise be considered a

"modification" as defined in OAC rule 3745-31-01, the permittee shall obtain a final permit to install prior to the change.

3. The Terms and Conditions in this permit are Federally Enforceable, with the noted exception of line items C.3. and F.2. Both of these line items are specific solely to OEPA's Air Toxics Policy.

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

**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>
UV Topcoat Roller Coater	OAC rule 3745-21-07 (G)	Use of only non-photochemically reactive materials as defined in OAC 3745-21-01 (C)(5)
	OAC rule 3745-31-05 (A)(3)	5.0 pounds VOC per day and 0.9 tons per year from the coater  1367 pounds VOC per month and 7.9 tons VOC per year from clean-up, touch-up, and support materials facility-wide
	OAC rule 3745-35-07 (B)	facility-wide limit of 9.9 tons of individual HAP as a rolling 12-month summation  facility-wide limit of 24.5 tons of combined HAPs as a rolling 12-month summation

2. **Additional Terms and Conditions**

- 2.a None

**B. Operational Restrictions**

1. This facility is already maintaining sufficient records to demonstrate compliance with the HAP restrictions listed above.

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

1. The permittee shall collect and record the following information for each day for the coating operation:

- a. The company identification for each coating employed;
  - b. The number of gallons of each coating employed;
  - c. A determination if the coating is photochemically reactive;
  - d. The organic compound content of each coating, in pounds per gallon; and,
  - e. The total organic compound emission rate for all coatings, in pounds per day.
2. The permittee shall collect and record the following information for clean-up, touch-up, and support material use monthly on a facility-wide basis:
- a. The company identification for each organic material employed;
  - b. The number of gallons of each organic material employed;
  - c. A determination if the organic material is photochemically reactive;
  - d. The organic compound content of each organic material, in pounds per gallon; and,
  - e. The total organic compound emission rate for all organic material, in pounds.
3. The permittee shall collect and record the following information for each change where the air toxic modeling was required pursuant to the Air Toxic Policy:
- a. background data that describes the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.); and,
  - b. a copy of the resulting computer model runs that show the results of the application of the Air Toxic Policy for the change.
4. The permittee shall collect and record the following information each month to determine HAP emissions:
- a. The name and identification number of each coating, as applied;
  - b. The individual Hazardous Air Pollutant (HAP)<sup>1</sup> content for each HAP of each coating in pounds of individual HAP per gallon of coating, as applied;
  - c. The total combined Hazardous Air Pollutant (HAP) content for each HAP 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 emissions from each HAP from all coatings and cleanup materials employed, in pounds or tons per month and pounds or tons per rolling 12 month period (for each HAP the sum of (b) times (d) for each coating and the sum of (f) times (h) for each cleanup material; and,
- j. The total combined Hazardous Air Pollutant (HAP) emissions from all coatings and cleanup materials employed, in pounds or tons per month and pound or tons per rolling 12 month period (the sum of (c) times (d) for each coating plus the sum of (g) times (h) for each cleanup material).

<sup>1</sup>A listing of the Hazardous Air Pollutants (HAPs) can be found in Section 112 (b) of the Clean Air Act or can be obtained by contacting the Ohio EPA Northeast District Office contact. Material Safety Data Sheets typically include a listing of the solvents contained in the coatings or cleanup materials. This information does not have to be kept on a line-by-line basis. [Note: The coating information must be for the coatings as employed, including any thinning solvents added at the emissions unit.]

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

1. The permittee shall submit deviation (excursion) reports which include an identification of each day during which the total organic compound emissions exceeded 83.5 pounds per day, and the actual organic compound emissions for each such day. The report shall be submitted within 15 days of the end of the calendar quarter to the Northeast District Office of the Ohio Environmental Protection Agency. If no deviations occurred during any calendar quarter, a report to that effect shall be sent.
2. The permittee shall submit deviation (excursion) reports which include an identification of each month during which the total organic compound emissions from cleanup, touch-up, and support materials exceeded 1367 pounds facility-wide, and the actual organic compound emissions for each such month. The report shall be submitted within 15 days of the end of the calendar quarter to the Northeast District Office of the Ohio Environmental Protection Agency. If no deviations occurred during any calendar quarter, a report to that effect shall be sent.

3. The permittee shall notify the Director (the Ohio EPA Northeast District Office) in writing of any record showing an excursion of the individual or combined HAP emissions limitations. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA Northeast District Office).
4. The permittee shall submit deviation (excursion) reports which include an identification of each day during which photochemically reactive organic compounds were employed, and the actual organic compound emissions for each such day. The report shall be submitted within 15 days of the end of the calendar quarter to the Northeast District Office of the Ohio Environmental Protection Agency. If no deviations occurred during any calendar quarter, a report to that effect shall be sent.

**E. Testing Requirements**

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

a. **EMISSION LIMITATION:**

The use of only non-photochemically reactive organic compounds  
5.0 pounds VOC per day and 0.9 tons per year from the coater  
1367 pounds VOC per month and 7.9 tons VOC per year from clean-up, touch-up, and support materials facility-wide  
9.9 TPY any individual HAP emissions  
24.5 TPY combined HAPs emissions

**APPLICABLE COMPLIANCE METHOD:**

OAC rule 3745-21-10 (B). Formulation data or USEPA Methods 24 and 24A shall be used to determine the VOC contents for coatings and HAPs. Compliance shall be determined by the record keeping detailed above.

**F. Miscellaneous Requirements**

1. This permit supersedes Permit to Install Number 02-4426, effective June 5, 1991, for this emissions unit.
2. This permit allows the use of materials (typically coatings and cleanup materials) specified by the permittee in the permit to install application for this emissions unit. The emission limitation(s) specified in this permit was (were) established using the Ohio EPA's "Air Toxic Policy" and is (are) based on both the materials used and the design parameters of the emissions unit's exhaust system, as specified in the

application. The Ohio EPA's "Air Toxic Policy" was applied as though all permitted VOC emissions were the pollutant with the most restrictive MAGLC and using the SCREEN 3.0 model and comparing the predicted 1-hour maximum ground-level concentration to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of this modeling:

Pollutant: Butanol

TLV (ug/m3): C 152,000

Maximum Hourly Emission Rate (lbs/hr): 22.87

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 24

MAGLC (ug/m3): 2,667

OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by the OAC rule 3745-31-01. The permittee is hereby advised that the following changes to the process may be determined to be a "modification":

- 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 specified in the above table;
- b. changes to the emissions unit or its exhaust parameters (e.g., increased emission rate [not including an increase in an "allowable" emission limitation specified in the terms and conditions of this permit], reduced exhaust gas flow rate, and decreased stack height);
- c. changes in the composition of the materials used, or use of new materials, that would result in the emission of an air contaminant not previously permitted; and,
- d. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant that has a listed TLV.

The Ohio EPA will not consider any of the above-mentioned as a "modification" requiring a permit to install, if the following conditions are met:

- a. the change is not otherwise considered a "modification" under OAC Chapter 3745-31;
- b. the permittee can continue to comply with the allowable emission limitations specified in its permit to install; and,

- c. prior to the change, the applicant conducts an evaluation pursuant to the Air Toxic Policy, determines that the changed emissions unit still satisfies the Air Toxic Policy, and the permittee maintains documentation that identifies the change and the results of the application of the Air Toxic Policy for the change.

For any change to the emissions unit or its method of operation that either would require an increase in the emission limitation(s) established by this permit or would otherwise be considered a "modification" as defined in OAC rule 3745-31-01, the permittee shall obtain a final permit to install prior to the change.

3. The Terms and Conditions in this permit are Federally Enforceable, with the noted exception of line items C.3. and F.2. Both of these line items are specific solely to OEPA's Air Toxics Policy.

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

**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>
UV Toner Moulding Finish Line Spray Coater	OAC rule 3745-21-07 (G)	Use of only non-photochemically reactive materials as defined in OAC 3745-21-01 (C)(5)
	OAC rule 3745-31-05 (A)(3)	74.8 pounds VOC per day and 13.5 tons per year from the coating line
		1367 pounds VOC per month and 7.9 tons VOC per year from clean-up, touch-up, and support materials facility-wide
	OAC rule 3745-35-07 (B)	facility-wide limit of 9.9 tons of individual HAP as a rolling 12-month summation
		facility-wide limit of 24.5 tons of combined HAPs as a rolling 12-month summation

**2. Additional Terms and Conditions**

2.a None.

**B. Operational Restrictions**

1. This facility is already maintaining sufficient records to demonstrate compliance with the HAP restrictions listed above.

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

1. The permittee shall collect and record the following information for each day for the coating operation:



- 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 emissions from each HAP from all coatings and cleanup materials employed, in pounds or tons per month and pounds or tons per rolling 12 month period (for each HAP the sum of (b) times (d) for each coating and the sum of (f) times (h) for each cleanup material; and,
- j. The total combined Hazardous Air Pollutant (HAP) emissions from all coatings and cleanup materials employed, in pounds or tons per month and pound or tons per rolling 12 month period (the sum of (c) times (d) for each coating plus the sum of (g) times (h) for each cleanup material).

A listing of the Hazardous Air Pollutants (HAPs) can be found in Section 112 (b) of the Clean Air Act or can be obtained by contacting the Ohio EPA Northeast District Office contact. Material Safety Data Sheets typically include a listing of the solvents contained in the coatings or cleanup materials. This information does not have to be kept on a line-by-line basis. [Note: The coating information must be for the coatings as employed, including any thinning solvents added at the emissions unit.]

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

1. The permittee shall submit deviation (excursion) reports which include an identification of each day during which the total organic compound emissions exceeded 83.5 pounds per day, and the actual organic compound emissions for each such day. The report shall be submitted within 15 days of the end of the calendar quarter to the Northeast District Office of the Ohio Environmental Protection Agency. If no deviations occurred during any calendar quarter, a report to that effect shall be sent.
2. The permittee shall submit deviation (excursion) reports which include an identification of each month during which the total organic compound emissions from cleanup, touch-up, and support materials exceeded 1367 pounds facility-wide, and the actual organic compound emissions for each such month. The report shall be submitted within 15 days of the end of the calendar quarter to the Northeast District Office of the Ohio Environmental Protection Agency. If no deviations occurred during any calendar quarter, a report to that effect shall be sent.

The permittee shall notify the Director (the Ohio EPA Northeast District Office) in writing of any record showing an excursion of the individual or combined HAP emissions limitations. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA Northeast District Office).

3. The permittee shall submit deviation (excursion) reports which include an identification of each day during which photochemically reactive organic compounds were employed, and the actual organic compound emissions for each such day. The report shall be submitted within 15 days of the end of the calendar quarter to the Northeast District Office of the Ohio Environmental Protection Agency. If no deviations occurred during any calendar quarter, a report to that effect shall be sent.

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

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

- a. **EMISSION LIMITATION:**

The use of only non-photochemically reactive organic compounds  
74.8 pounds VOC per day and 13.5 tons per year from the coating line  
1367 pounds VOC per month and 7.9 tons VOC per year from clean-up, touch-up, and support materials facility-wide  
9.9 TPY any individual HAP emissions  
24.5 TPY combined HAPs emissions

**APPLICABLE COMPLIANCE METHOD:**

OAC rule 3745-21-10 (B). Formulation data or USEPA Methods 24 and 24A shall be used to determine the VOC contents for coatings and HAPs. Compliance shall be determined by the record keeping detailed above.

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

1. This permit supersedes Permit to Install Number 02-4426, effective June 5, 1991, for this emissions unit.
2. This permit allows the use of materials (typically coatings and cleanup materials) specified by the permittee in the permit to install application for this emissions unit. The emission limitation(s) specified in this permit was (were) established using the Ohio EPA's "Air Toxic Policy" and is (are) based on both the materials used and the design parameters of the emissions unit's exhaust system, as specified in the application. The Ohio EPA's "Air Toxic Policy" was applied as though all permitted VOC emissions were the pollutant with the most restrictive MAGLC and using the SCREEN 3.0 model and comparing the predicted 1-hour maximum ground-level concentration to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of this modeling:

Pollutant: Butanol

TLV (ug/m3): C 152,000

Maximum Hourly Emission Rate (lbs/hr): 22.87

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 24

MAGLC (ug/m3): 2,667

OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by the OAC rule 3745-31-01. The permittee is hereby advised that the following changes to the process may be determined to be a "modification":

- 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 specified in the above table;
- b. changes to the emissions unit or its exhaust parameters (e.g., increased emission rate [not including an increase in an "allowable" emission limitation specified in the terms and conditions of this permit], reduced exhaust gas flow rate, and decreased stack height);
- c. changes in the composition of the materials used, or use of new materials, that would result in the emission of an air contaminant not previously permitted; and,
- d. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant that has a listed TLV.

The Ohio EPA will not consider any of the above-mentioned as a "modification" requiring a permit to install, if the following conditions are met:

- a. the change is not otherwise considered a "modification" under OAC Chapter 3745-31;
- b. the permittee can continue to comply with the allowable emission limitations specified in its permit to install; and,
- c. prior to the change, the applicant conducts an evaluation pursuant to the Air Toxic Policy, determines that the changed emissions unit still satisfies the Air Toxic Policy, and the permittee maintains documentation that identifies the change and the results of the application of the Air Toxic Policy for the change.

For any change to the emissions unit or its method of operation that either would require an increase in the emission limitation(s) established by this permit or would otherwise be considered a

"modification" as defined in OAC rule 3745-31-01, the permittee shall obtain a final permit to install prior to the change.

3. The Terms and Conditions in this permit are Federally Enforceable, with the noted exception of line items C.3. and F.2. Both of these line items are specific solely to OEPA's Air Toxics Policy.

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

**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>
UV Moulding Finish Line Spray Coater	OAC rule 3745-21-07 (G)	Use of only non-photochemically reactive materials as defined in OAC 3745-21-01 (C)(5)
	OAC rule 3745-31-05 (A)(3)	13.0 pounds VOC per day and 2.3 tons per year from the spray coater
		1367 pounds VOC per month and 7.9 tons VOC per year from clean-up, touch-up, and support materials facility-wide
	OAC rule 3745-35-07 (B)	facility-wide limit of 9.9 tons of individual HAP as a rolling 12-month summation
		facility-wide limit of 24.5 tons of combined HAPs as a rolling 12-month summation

2. **Additional Terms and Conditions**

- 2.a None.

**B. Operational Restrictions**

1. This facility is already maintaining sufficient records to demonstrate compliance with the HAP restrictions listed above.

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

1. The permittee shall collect and record the following information for each day for the coating operation:



- 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 emissions from each HAP from all coatings and cleanup materials employed, in pounds or tons per month and pounds or tons per rolling 12 month period (for each HAP the sum of (b) times (d) for each coating and the sum of (f) times (h) for each cleanup material; and,
- j. The total combined Hazardous Air Pollutant (HAP) emissions from all coatings and cleanup materials employed, in pounds or tons per month and pound or tons per rolling 12 month period (the sum of (c) times (d) for each coating plus the sum of (g) times (h) for each cleanup material).

A listing of the Hazardous Air Pollutants (HAPs) can be found in Section 112 (b) of the Clean Air Act or can be obtained by contacting the Ohio EPA Northeast District Office contact. Material Safety Data Sheets typically include a listing of the solvents contained in the coatings or cleanup materials. This information does not have to be kept on a line-by-line basis. [Note: The coating information must be for the coatings as employed, including any thinning solvents added at the emissions unit.]

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

- 1. The permittee shall submit deviation (excursion) reports which include an identification of each day during which the total organic compound emissions exceeded 83.5 pounds per day, and the actual organic compound emissions for each such day. The report shall be submitted within 15 days of the end of the calendar quarter to the Northeast District Office of the Ohio Environmental Protection Agency. If no deviations occurred during any calendar quarter, a report to that effect shall be sent.
- 2. The permittee shall submit deviation (excursion) reports which include an identification of each month during which the total organic compound emissions from cleanup, touch-up, and support materials exceeded 1367 pounds facility-wide, and the actual organic compound emissions for each such month. The report shall be submitted within 15 days of the end of the calendar quarter to the Northeast District Office of the Ohio Environmental Protection Agency. If no deviations occurred during any calendar quarter, a report to that effect shall be sent.

3. The permittee shall notify the Director (the Ohio EPA Northeast District Office) in writing of any record showing an excursion of the individual or combined HAP emissions limitations. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA Northeast District Office).
4. The permittee shall submit deviation (excursion) reports which include an identification of each day during which photochemically reactive organic compounds were employed, and the actual organic compound emissions for each such day. The report shall be submitted within 15 days of the end of the calendar quarter to the Northeast District Office of the Ohio Environmental Protection Agency. If no deviations occurred during any calendar quarter, a report to that effect shall be sent.

**E. Testing Requirements**

1. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):
  - a. **EMISSION LIMITATION:**  
The use of only non-photochemically reactive organic compounds  
13.0 pounds VOC per day and 2.3 tons per year from the coater  
1367 pounds VOC per month and 7.9 tons VOC per year from clean-up, touch-up, and support materials facility-wide  
9.9 TPY any individual HAP emissions  
24.5 TPY combined HAPs emissions

**APPLICABLE COMPLIANCE METHOD:**

OAC rule 3745-21-10 (B). Formulation data or USEPA Methods 24 and 24A shall be used to determine the VOC contents for coatings and HAPs. Compliance shall be determined by the record keeping detailed above.

**F. Miscellaneous Requirements**

1. This permit supersedes Permit to Install Number 02-4426, effective June 5, 1991, for this emissions unit.
2. This permit allows the use of materials (typically coatings and cleanup materials) specified by the permittee in the permit to install application for this emissions unit. The emission limitation(s) specified in this permit was (were) established using the Ohio EPA's "Air Toxic Policy" and is (are) based on both the materials used and the design parameters of the emissions unit's exhaust system, as specified in the application. The Ohio EPA's "Air Toxic Policy" was applied as though all permitted VOC emissions were the pollutant with the most restrictive MAGLC and using the SCREEN 3.0 model and comparing the predicted 1-hour maximum ground-level concentration to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of this modeling:

Pollutant: Butanol

TLV (ug/m3): C 152,000

Maximum Hourly Emission Rate (lbs/hr): 22.87

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 24

MAGLC (ug/m3): 2,667

OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by the OAC rule 3745-31-01. The permittee is hereby advised that the following changes to the process may be determined to be a "modification":

- 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 specified in the above table;
- b. changes to the emissions unit or its exhaust parameters (e.g., increased emission rate [not including an increase in an "allowable" emission limitation specified in the terms and conditions of this permit], reduced exhaust gas flow rate, and decreased stack height);
- c. changes in the composition of the materials used, or use of new materials, that would result in the emission of an air contaminant not previously permitted; and,
- d. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant that has a listed TLV.

The Ohio EPA will not consider any of the above-mentioned as a "modification" requiring a permit to install, if the following conditions are met:

- a. the change is not otherwise considered a "modification" under OAC Chapter 3745-31;
- b. the permittee can continue to comply with the allowable emission limitations specified in its permit to install; and,
- c. prior to the change, the applicant conducts an evaluation pursuant to the Air Toxic Policy, determines that the changed emissions unit still satisfies the Air Toxic Policy, and the permittee maintains documentation that identifies the change and the results of the application of the Air Toxic Policy for the change.

For any change to the emissions unit or its method of operation that either would require an increase in the emission limitation(s) established by this permit or would otherwise be considered a

"modification" as defined in OAC rule 3745-31-01, the permittee shall obtain a final permit to install prior to the change.

3. The Terms and Conditions in this permit are Federally Enforceable, with the noted exception of line items C.3. and F.2. Both of these line items are specific solely to OEPA's Air Toxics Policy.

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

**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>
UV Moulding Topcoat Spray Coater	OAC rule 3745-21-07 (G)	Use of only non-photochemically reactive materials as defined in OAC 3745-21-01 (C)(5)
	OAC rule 3745-31-05 (A)(3)	52.5 pounds VOC per day and 9.5 tons per year from the spray coater
	OAC rule 3745-35-07 (B)	1367 pounds VOC per month and 7.9 tons VOC per year from clean-up, touch-up, and support materials facility-wide
		facility-wide limit of 9.9 tons of individual HAP as a rolling 12-month summation
		facility-wide limit of 24.5 tons of combined HAPs as a rolling 12-month summation

2. **Additional Terms and Conditions**

2.a None.

**B. Operational Restrictions**

1. This facility is already maintaining sufficient records to demonstrate compliance with the HAP restrictions listed above.

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

1. The permittee shall collect and record the following information for each day for the coating operation:
  - a. The company identification for each coating employed;
  - b. The number of gallons of each coating employed;
  - c. A determination if the coating is photochemically reactive;
  - d. The organic compound content of each coating, in pounds per gallon; and,
  - e. The total organic compound emission rate for all coatings, in pounds per day.
  
2. The permittee shall collect and record the following information for clean-up, touch-up, and support material use monthly on a facility-wide basis:
  - a. The company identification for each organic material employed;
  - b. The number of gallons of each organic material employed;
  - c. A determination if the organic material is photochemically reactive;
  - d. The organic compound content of each organic material, in pounds per gallon; and,
  - e. The total organic compound emission rate for all organic material, in pounds.
  
3. The permittee shall collect and record the following information for each change where the air toxic modeling was required pursuant to the Air Toxic Policy:
  - a. background data that describes the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.); and,
  - b. a copy of the resulting computer model runs that show the results of the application of the Air Toxic Policy for the change.
  
4. The permittee shall collect and record the following information each month to determine HAP emissions:
  - a. The name and identification number of each coating, as applied;
  - b. The individual Hazardous Air Pollutant (HAP)<sup>1</sup> content for each HAP of each coating in pounds of individual HAP per gallon of coating, as applied;

- c. The total combined Hazardous Air Pollutant (HAP) content for each HAP 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 emissions from each HAP from all coatings and cleanup materials employed, in pounds or tons per month and pounds or tons per rolling 12 month period (for each HAP the sum of (b) times (d) for each coating and the sum of (f) times (h) for each cleanup material; and,
- j. The total combined Hazardous Air Pollutant (HAP) emissions from all coatings and cleanup materials employed, in pounds or tons per month and pound or tons per rolling 12 month period (the sum of (c) times (d) for each coating plus the sum of (g) times (h) for each cleanup material).

A listing of the Hazardous Air Pollutants (HAPs) can be found in Section 112 (b) of the Clean Air Act or can be obtained by contacting the Ohio EPA Northeast District Office contact. Material Safety Data Sheets typically include a listing of the solvents contained in the coatings or cleanup materials. This information does not have to be kept on a line-by-line basis. [Note: The coating information must be for the coatings as employed, including any thinning solvents added at the emissions unit.]

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

1. The permittee shall submit deviation (excursion) reports which include an identification of each day during which the total organic compound emissions exceeded 83.5 pounds per day, and the actual organic compound emissions for each such day. The report shall be submitted within 15 days of the end of the calendar quarter to the Northeast District Office of the Ohio Environmental Protection Agency. If no deviations occurred during any calendar quarter, a report to that effect shall be sent.

2. The permittee shall submit deviation (excursion) reports which include an identification of each month during which the total organic compound emissions from cleanup, touch-up, and support materials exceeded 1367 pounds facility-wide, and the actual organic compound emissions for each such month. The report shall be submitted within 15 days of the end of the calendar quarter to the Northeast District Office of the Ohio Environmental Protection Agency. If no deviations occurred during any calendar quarter, a report to that effect shall be sent.
3. The permittee shall notify the Director (the Ohio EPA Northeast District Office) in writing of any record showing an excursion of the individual or combined HAP emissions limitations. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA Northeast District Office).
4. The permittee shall submit deviation (excursion) reports which include an identification of each day during which photochemically reactive organic compounds were employed, and the actual organic compound emissions for each such day. The report shall be submitted within 15 days of the end of the calendar quarter to the Northeast District Office of the Ohio Environmental Protection Agency. If no deviations occurred during any calendar quarter, a report to that effect shall be sent.

**E. Testing Requirements**

1. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):
  - a. **EMISSION LIMITATION:**  
The use of only non-photochemically reactive organic compounds  
52.5 pounds VOC per day and 9.5 tons per year from the coater  
1367 pounds VOC per month and 7.9 tons VOC per year from clean-up, touch-up, and support materials facility-wide  
9.9 TPY any individual HAP emissions  
24.5 TPY combined HAPs emissions

**APPLICABLE COMPLIANCE METHOD:**

OAC rule 3745-21-10 (B). Formulation data or USEPA Methods 24 and 24A shall be used to determine the VOC contents for coatings and HAPs. Compliance shall be determined by the record keeping detailed above.

**F. Miscellaneous Requirements**

1. This permit allows the use of materials (typically coatings and cleanup materials) specified by the permittee in the permit to install application for this emissions unit. The emission limitation(s) specified in this permit was (were) established using the Ohio EPA's "Air Toxic Policy" and is (are) based on both the materials used and the design parameters of the emissions unit's exhaust system, as specified in the application. The Ohio EPA's "Air Toxic Policy" was applied as though all permitted VOC emissions were the pollutant with the most restrictive MAGLC and using the

SCREEN 3.0 model and comparing the predicted 1-hour maximum ground-level concentration to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of this modeling:

Pollutant: Butanol

TLV (ug/m3): C 152,000

Maximum Hourly Emission Rate (lbs/hr): 22.87

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 24

MAGLC (ug/m3): 2,667

OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by the OAC rule 3745-31-01. The permittee is hereby advised that the following changes to the process may be determined to be a "modification":

- 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 specified in the above table;
- b. changes to the emissions unit or its exhaust parameters (e.g., increased emission rate [not including an increase in an "allowable" emission limitation specified in the terms and conditions of this permit], reduced exhaust gas flow rate, and decreased stack height);
- c. changes in the composition of the materials used, or use of new materials, that would result in the emission of an air contaminant not previously permitted; and,
- d. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant that has a listed TLV.

The Ohio EPA will not consider any of the above-mentioned as a "modification" requiring a permit to install, if the following conditions are met:

- a. the change is not otherwise considered a "modification" under OAC Chapter 3745-31;
- b. the permittee can continue to comply with the allowable emission limitations specified in its permit to install; and,
- c. prior to the change, the applicant conducts an evaluation pursuant to the Air Toxic Policy, determines that the changed emissions unit still satisfies the Air Toxic Policy, and the

permittee maintains documentation that identifies the change and the results of the application of the Air Toxic Policy for the change.

For any change to the emissions unit or its method of operation that either would require an increase in the emission limitation(s) established by this permit or would otherwise be considered a "modification" as defined in OAC rule 3745-31-01, the permittee shall obtain a final permit to install prior to the change.

2. The Terms and Conditions in this permit are Federally Enforceable, with the noted exception of line items C.3. and F.1. Both of these line items are specific solely to OEPA's Air Toxics Policy.

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

**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>
UV Roll Coat Line No.2	OAC rule 3745-21-07 (G)	Use of only non-photochemically reactive materials as defined in OAC 3745-21-01 (C)(5)
	OAC rule 3745-31-05 (A)(3)	2.4 pounds VOC per day and 0.4 ton per year from the coating line
		1367 pounds VOC per month and 7.9 tons VOC per year from clean-up, touch-up, and support materials facility-wide
	OAC rule 3745-35-07 (B)	facility-wide limit of 9.9 tons of individual HAP as a rolling 12-month summation
		facility-wide limit of 24.5 tons of combined HAPs as a rolling 12-month summation

2. **Additional Terms and Conditions**

- 2.a None.

**B. Operational Restrictions**

1. This facility is already maintaining sufficient records to demonstrate compliance with the HAP restrictions listed above.

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

1. The permittee shall collect and record the following information for each day for the coating operation:

- a. The company identification for each coating employed;
  - b. The number of gallons of each coating employed;
  - c. A determination if the coating is photochemically reactive;
  - d. The organic compound content of each coating, in pounds per gallon; and,
  - e. The total organic compound emission rate for all coatings, in pounds per day.
2. The permittee shall collect and record the following information for clean-up, touch-up, and support material use monthly on a facility-wide basis:
- a. The company identification for each organic material employed;
  - b. The number of gallons of each organic material employed;
  - c. A determination if the organic material is photochemically reactive;
  - d. The organic compound content of each organic material, in pounds per gallon; and,
  - e. The total organic compound emission rate for all organic material, in pound.
3. The permittee shall collect and record the following information for each change where the air toxic modeling was required pursuant to the Air Toxic Policy:
- a. background data that describes the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.); and,
  - b. a copy of the resulting computer model runs that show the results of the application of the Air Toxic Policy for the change.
4. The permittee shall collect and record the following information each month to determine HAP emissions:
- a. The name and identification number of each coating, as applied;
  - b. The individual Hazardous Air Pollutant (HAP)<sup>1</sup> content for each HAP of each coating in pounds of individual HAP per gallon of coating, as applied;
  - c. The total combined Hazardous Air Pollutant (HAP) content for each HAP 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 emissions from each HAP from all coatings and cleanup materials employed, in pounds or tons per month and pounds or tons per rolling 12 month period (for each HAP the sum of (b) times (d) for each coating and the sum of (f) times (h) for each cleanup material; and,
- j. The total combined Hazardous Air Pollutant (HAP) emissions from all coatings and cleanup materials employed, in pounds or tons per month and pound or tons per rolling 12 month period (the sum of (c) times (d) for each coating plus the sum of (g) times (h) for each cleanup material).

A listing of the Hazardous Air Pollutants (HAPs) can be found in Section 112 (b) of the Clean Air Act or can be obtained by contacting the Ohio EPA Northeast District Office contact. Material Safety Data Sheets typically include a listing of the solvents contained in the coatings or cleanup materials. This information does not have to be kept on a line-by-line basis. [Note: The coating information must be for the coatings as employed, including any thinning solvents added at the emissions unit.]

**D. Reporting Requirements**

- 1. The permittee shall submit deviation (excursion) reports which include an identification of each day during which the total organic compound emissions exceeded 83.5 pounds per day, and the actual organic compound emissions for each such day. The report shall be submitted within 15 days of the end of the calendar quarter to the Northeast District Office of the Ohio Environmental Protection Agency. If no deviations occurred during any calendar quarter, a report to that effect shall be sent.
- 2. The permittee shall submit deviation (excursion) reports which include an identification of each month during which the total organic compound emissions from cleanup, touch-up, and support materials exceeded 1367 pounds facility-wide, and the actual organic compound emissions for each such month. The report shall be submitted within 15 days of the end of the calendar quarter to the Northeast District Office of the Ohio Environmental Protection Agency. If no deviations occurred during any calendar quarter, a report to that effect shall be sent.

3. The permittee shall notify the Director (the Ohio EPA Northeast District Office) in writing of any record showing an excursion of the individual or combined HAP emissions limitations. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA Northeast District Office).
4. The permittee shall submit deviation (excursion) reports which include an identification of each day during which photochemically reactive organic compounds were employed, and the actual organic compound emissions for each such day. The report shall be submitted within 15 days of the end of the calendar quarter to the Northeast District Office of the Ohio Environmental Protection Agency. If no deviations occurred during any calendar quarter, a report to that effect shall be sent.

**E. Testing Requirements**

1. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):
  - a. **EMISSION LIMITATION:**  
The use of only non-photochemically reactive organic compounds  
2.4 pounds VOC per day and 0.4 ton per year from the coating line  
1367 pounds VOC per month and 7.9 tons VOC per year from clean-up, touch-up, and support materials facility-wide  
9.9 TPY any individual HAP emissions  
24.5 TPY combined HAPs emissions  
  
**APPLICABLE COMPLIANCE METHOD:**  
OAC rule 3745-21-10 (B). Formulation data or USEPA Methods 24 and 24A shall be used to determine the VOC contents for coatings and HAPs. Compliance shall be determined by the record keeping detailed above.
2. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):

**F. Miscellaneous Requirements**

1. This permit allows the use of materials (typically coatings and cleanup materials) specified by the permittee in the permit to install application for this emissions unit. The emission limitation(s) specified in this permit was (were) established using the Ohio EPA's "Air Toxic Policy" and is (are) based on both the materials used and the design parameters of the emissions unit's exhaust system, as specified in the application. The Ohio EPA's "Air Toxic Policy" was applied as though all permitted VOC emissions were the pollutant with the most restrictive MAGLC and using the SCREEN 3.0 model and comparing the predicted 1-hour maximum ground-level concentration to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of this modeling:

Pollutant: Butanol

TLV (ug/m3): C 152,000

Maximum Hourly Emission Rate (lbs/hr): 22.87

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 24

MAGLC (ug/m3): 2,667

OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by the OAC rule 3745-31-01. The permittee is hereby advised that the following changes to the process may be determined to be a "modification":

- 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 specified in the above table;
- b. changes to the emissions unit or its exhaust parameters (e.g., increased emission rate [not including an increase in an "allowable" emission limitation specified in the terms and conditions of this permit], reduced exhaust gas flow rate, and decreased stack height);
- c. changes in the composition of the materials used, or use of new materials, that would result in the emission of an air contaminant not previously permitted; and,
- d. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant that has a listed TLV.

The Ohio EPA will not consider any of the above-mentioned as a "modification" requiring a permit to install, if the following conditions are met:

- a. the change is not otherwise considered a "modification" under OAC Chapter 3745-31;
- b. the permittee can continue to comply with the allowable emission limitations specified in its permit to install; and,

**Kraftmaid Cabinetry, Inc.**  
PTI Application: **02-13185**  
**2/24/00**

Facility ID: **0228000213**  
Emissions Unit ID: **R009**

- c. prior to the change, the applicant conducts an evaluation pursuant to the Air Toxic Policy, determines that the changed emissions unit still satisfies the Air Toxic Policy, and the permittee maintains documentation that identifies the change and the results of the application of the Air Toxic Policy for the change.

For any change to the emissions unit or its method of operation that either would require an increase in the emission limitation(s) established by this permit or would otherwise be considered a "modification" as defined in OAC rule 3745-31-01, the permittee shall obtain a final permit to install prior to the change.

2. The Terms and Conditions in this permit are Federally Enforceable, with the noted exception of line items C.3. and F.1. Both of these line items are specific solely to OEPA's Air Toxics Policy.

**RECEIVED**  
**MAR - 2 2000**  
**OHIO EPA NEDO**