



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL
WARREN COUNTY**

CERTIFIED MAIL

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: 14-05210

DATE: 9/19/2002

Waytek Corporation
Ram Mukkamala
400 Shotwell Drive
Franklin, OH 450050000

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,

Michael W. Ahern, Supervisor
Field Operations and Permit Section
Division of Air Pollution Control

cc: USEPA

HCDES



**Permit To Install
Terms and Conditions**

**Issue Date: 9/19/2002
Effective Date: 9/19/2002**

FINAL PERMIT TO INSTALL 14-05210

Application Number: 14-05210
APS Premise Number: 1483040431
Permit Fee: **\$1600**
Name of Facility: Waytek Corporation
Person to Contact: Ram Mukkamala
Address: 400 Shotwell Drive
Franklin, OH 450050000

Location of proposed air contaminant source(s) [emissions unit(s)]:
**400 Shotwell Drive
Franklin, Ohio**

Description of proposed emissions unit(s):
Installation of four paper, film and foil coater/laminators.

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 Record keeping Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or record keeping 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 record keeping 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

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Environmental Protection Agency if the proposed sources cannot meet the requirements of this permit or cannot meet applicable standards.

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

10. Public Disclosure

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

11. Applicability

This Permit to Install is applicable only to the emissions unit(s) identified in the Permit to Install. Separate 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.

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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	22.51

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>
K001 - Blue Coater - 38 inch Mayer Rod continuous web coater with infrared electric oven	OAC rule 3745-31-05(A)(3)	111.4 lbs VOC/day The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-09(F). The maximum annual VOC emissions from emissions units K001, K002, and K003 combined shall not exceed 15.21 TPY.
	OAC rule 3745-21-09(F)	2.9 lbs VOC/gallon of coating, excluding water and exempt solvents (based on a daily volume weighted average).

2. Additional Terms and Conditions

- 2.a Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with the daily volume weighted average VOC content limit, compliance with the daily VOC emissions limit, compliance with the annual combined VOC emissions limit (K001 through K003), and compliance with the Ohio EPA Air Toxics Policy.

- 2.b** The daily VOC emission limitation outlined in section A.1. is based upon the emissions unit's Potential to Emit (PTE). Therefore, no daily records are required to demonstrate compliance with the VOC emissions limit.

B. Operational Restrictions

None

C. Monitoring and/or Record keeping Requirements

1. The permittee shall collect and record the following information on a daily basis:
 - a. The name and identification number of each coating, as applied;
 - b. The VOC content, excluding water and exempt solvents, in pounds per gallon of coating for each coating, as applied;
 - c. The number of gallons, excluding water and exempt solvents, of each coating, employed; and
 - d. The daily volume-weighted average VOC content, as applied, for all coatings. The daily volume weighted average shall be calculated by multiplying the VOC content in line (b) by the usage amount contained in line (c) for all coatings employed during that day. The summation of these values should then be divided by the total gallons of coatings employed during that day.

2. The permittee shall collect and record the following information on a monthly basis:
 - a. The name and identification number of each coating and cleanup material, as applied;
 - b. The VOC content, excluding water and exempt solvents, in pounds per gallon for each coating and cleanup material as applied;
 - c. The number of gallons, excluding water and exempt solvents, of each coating and cleanup material, employed; and
 - d. the actual VOC emissions (E_d) from emissions units K001, K002 and K003 combined, calculated in accordance with the following equation:

$$E_d = V_1C_1 + V_2C_2 + \dots + V_nC_n$$

where:

- E_d = actual pounds of VOC emissions for the month from emissions units K001, K002 and K003.
- C = VOC content of each coating and/or cleanup material employed in emissions units K001, K002 and K003 in pounds of VOC per gallon of coating or cleanup material, excluding water and exempt solvents.
- V = volume of each coating and/or cleanup material employed for the month in emissions units K001, K002 and K003 in gallons, excluding water and exempt solvents.
- 1,2 = subscript denoting a specific coating or cleanup material employed.
- n = total number of surface coatings and/or cleanup materials employed in emissions units K001, K002 and K003.

3. The permit to install for the merged emissions from emissions units K001 - K003, 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 the emissions units 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).

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

Pollutant: triethylamine

TLV ($\mu\text{g}/\text{m}^3$): 4138.6

Maximum Hourly Emission Rate (lbs/hr): 1.13 (K001 - K003 combined)

Predicted 1-Hour Maximum Ground-Level Concentration ($\mu\text{g}/\text{m}^3$): 86.76 (K001 - K003 combined)

MAGLC ($\mu\text{g}/\text{m}^3$): 98.5

Emissions Unit ID: **K001**

Physical changes to or in the method of operation of the emissions units after 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 units or their exhaust parameters (e.g., increased/decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).
4. 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 units 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 units still satisfy 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 notify the Hamilton County Department of Environmental Services (HCDES) in writing of any daily record showing that the daily volume-weighted average VOC content exceeds the applicable limitation in term A.1. The notification shall include a copy of such record and shall be sent to the HCDES within 45 days after the exceedance occurs.
2. The permittee shall submit annual reports which specify the total VOC emissions from this emissions unit and emissions units K001, K002 and K003, combined for the previous calendar year. The reports shall be sent to the Hamilton County Department of Environmental Services by January 31 of each year.

E. Testing Requirements

1. Emissions Limitation

111.4 lbs VOC/day

Compliance with the daily VOC emissions limitation in section A.1. shall be demonstrated by multiplying the actual total daily coating usage (gallons/day, as applied) by the actual daily volume-weighted average VOC content (lbs. VOC/gallon, as applied) to yield daily emissions in lbs. VOC/day.

2. Emissions Limitation

15.21 TPY VOC; K001, K002 and K003 combined

Compliance with the annual combined VOC emissions limitation for emissions units K001, K002 and K003 shall be demonstrated by the summation of the actual monthly emissions from section C.2.d for each emissions unit and multiplying that summation by 1 ton/2000 lbs.

3. USEPA methods 24 and 24A shall be used to determine the VOC content for (a) coatings and (b) flexographic and rotogravure printing lines and related coatings, respectively. If, pursuant to section 4.3 of Method 24, 40 CFR Part 60, Appendix A, an owner or operator determines that Method 24 or 24A cannot be used for a particular coating or ink, the permittee shall so notify the

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Facility ID: 1483040431

Emissions Unit ID: **K001**

Administrator of the USEPA and shall use formulation data for that coating or ink to demonstrate compliance until the USEPA provides alternative analytical procedures or alternative precision statements for Method 24 or 24A.

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>
K002 - Tan Coater - 42 inch Mayer Rod continuous web coater with infrared electric oven	OAC rule 3745-31-05(A)(3)	123.2 lbs VOC/day The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-09(F). The maximum annual VOC emissions from emissions units K001, K002, and K003 combined shall not exceed 15.21 TPY.
	OAC rule 3745-21-09(F)	2.9 lbs VOC/gallon of coating, excluding water and exempt solvents (based on a daily volume weighted average).

2. Additional Terms and Conditions

- 2.a Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with the daily volume weighted average VOC content limit, compliance with the daily VOC emissions limit, compliance with the annual combined VOC emissions limit (K001 through K003), and compliance with the Ohio EPA Air Toxics Policy.

- 2.b** The daily VOC emission limitation outlined in section A.1. is based upon the emissions unit's Potential to Emit (PTE). Therefore, no daily records are required to demonstrate compliance with the VOC emissions limit.

B. Operational Restrictions

None

C. Monitoring and/or Record keeping Requirements

1. The permittee shall collect and record the following information on a daily basis:
 - a. The name and identification number of each coating, as applied;
 - b. The VOC content, excluding water and exempt solvents, in pounds per gallon of coating for each coating, as applied;
 - c. The number of gallons, excluding water and exempt solvents, of each coating, employed; and
 - d. The daily volume-weighted average VOC content, as applied, for all coatings. The daily volume weighted average shall be calculated by multiplying the VOC content in line (b) by the usage amount contained in line (c) for all coatings employed during that day. The summation of these values should then be divided by the total gallons of coatings employed during that day.
2. The permittee shall collect and record the following information on a monthly basis:
 - a. The name and identification number of each coating and cleanup material, as applied;
 - b. The VOC content, excluding water and exempt solvents, in pounds per gallon for each coating and cleanup material as applied;
 - c. The number of gallons, excluding water and exempt solvents, of each coating and cleanup material, employed; and
 - d. The actual VOC emissions (E_d) from emissions units K001, K002 and K003 combined, calculated in accordance with the following equation:

$$E_d = V_1C_1 + V_2C_2 + \dots + V_nC_n$$

where:

- Ed = actual pounds of VOC emissions for the month from emissions units K001, K002 and K003.
- C = VOC content of each coating and/or cleanup material employed in emissions units K001, K002 and K003 in pounds of VOC per gallon of coating or cleanup material, excluding water and exempt solvents.
- V = volume of each coating and/or cleanup material employed for the month in emissions units K001, K002 and K003 in gallons, excluding water and exempt solvents.
- 1,2 = subscript denoting a specific coating or cleanup material employed.
- n = total number of surface coatings and/or cleanup materials employed in emissions units K001, K002 and K003.

3. The permit to install for the merged emissions from emissions units K001 - K003, 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 the emissions units 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).

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

Pollutant: triethylamine

TLV (ug/m³): 4138.6

Maximum Hourly Emission Rate (lbs/hr): 1.13 (K001 - K003 combined)

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m³): 86.76 (K001 - K003 combined)

MAGLC (ug/m³): 98.5

Physical changes to or in the method of operation of the emissions units after 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 units or their exhaust parameters (e.g., increased/decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).
4. 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 units 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 units still satisfy 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 notify the Hamilton County Department of Environmental Services (HCDES) in writing of any daily record showing that the daily volume-weighted average VOC content exceeds the applicable limitation in term A.1. The notification shall include a copy of such record and shall be sent to the HCDES within 45 days after the exceedance occurs.
2. The permittee shall submit annual reports which specify the total VOC emissions from this emissions unit and emissions units K001, K002 and K003, combined for the previous calendar year. The reports shall be sent to the Hamilton County Department of Environmental Services by January 31 of each year.

E. Testing Requirements

1. Emissions Limitation

111.4 lbs VOC/day

Compliance with the daily VOC emissions limitation in section A.1. shall be demonstrated by multiplying the actual total daily coating usage (gallons/day, as applied) by the actual daily volume-weighted average VOC content (lbs. VOC/gallon, as applied) to yield daily emissions in lbs. VOC/day.

2. Emissions Limitation

15.21 TPY VOC; K001, K002 and K003 combined

Compliance with the annual combined VOC emissions limitation for emissions units K001, K002 and K003 shall be demonstrated by the summation of the actual monthly emissions from section C.2.d for each emissions unit and multiplying that summation by 1 ton/2000 lbs.

3. USEPA methods 24 and 24A shall be used to determine the VOC content for (a) coatings and (b) flexographic and rotogravure printing lines and related coatings, respectively. If, pursuant to section 4.3 of Method 24, 40 CFR Part 60, Appendix A, an owner or operator determines that Method 24 or 24A cannot be used for a particular coating or ink, the permittee shall so notify the Administrator of the USEPA and shall use formulation data for that coating or ink to demonstrate compliance until the USEPA provides alternative analytical procedures or alternative precision statements for Method 24 or 24A.

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Wayte

PTI A

Issued: 9/19/2002

Emissions Unit ID: **K002**

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>
K003 - Green Coater - 57 inch Mayer Rod continuous web coater with gas fired flashoff oven	OAC rule 3745-31-05(A)(3)	166.3 lbs VOC/day The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-09(F). The maximum annual VOC emissions from emissions units K001, K002, and K003 combined shall not exceed 15.21 TPY.
	OAC rule 3745-21-09(F)	2.9 lbs VOC/gallon of coating, excluding water and exempt solvents (based on a daily volume weighted average).

2. Additional Terms and Conditions

- 2.a Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with the daily volume weighted average VOC content limit, compliance with the daily VOC emissions limit, compliance with the annual combined VOC emissions limit (K001 through K003), and compliance with the Ohio EPA Air Toxics Policy.

- 2.b** The daily VOC emission limitation outlined in section A.1. is based upon the emissions unit's Potential to Emit (PTE). Therefore, no daily records are required to demonstrate compliance with the VOC emissions limit.

B. Operational Restrictions

None

C. Monitoring and/or Record keeping Requirements

1. The permittee shall collect and record the following information on a daily basis:
 - a. The name and identification number of each coating, as applied;
 - b. The VOC content, excluding water and exempt solvents, in pounds per gallon of coating for each coating, as applied;
 - c. The number of gallons, excluding water and exempt solvents, of each coating, employed; and
 - d. The daily volume-weighted average VOC content, as applied, for all coatings. The daily volume weighted average shall be calculated by multiplying the VOC content in line (b) by the usage amount contained in line (c) for all coatings employed during that day. The summation of these values should then be divided by the total gallons of coatings employed during that day.

2. The permittee shall collect and record the following information on a monthly basis:
 - a. The name and identification number of each coating and cleanup material, as applied;
 - b. The VOC content, excluding water and exempt solvents, in pounds per gallon for each coating and cleanup material as applied;
 - c. The number of gallons, excluding water and exempt solvents, of each coating and cleanup material, employed; and
 - d. The actual VOC emissions (E_d) from emissions units K001, K002 and K003 combined, calculated in accordance with the following equation:

$$E_d = V_1C_1 + V_2C_2 + \dots + V_nC_n$$

where:

- Ed = actual pounds of VOC emissions for the month from emissions units K001, K002 and K003.
- C = VOC content of each coating and/or cleanup material employed in emissions units K001, K002 and K003 in pounds of VOC per gallon of coating or cleanup material, excluding water and exempt solvents.
- V = volume of each coating and/or cleanup material employed for the month in emissions units K001, K002 and K003 in gallons, excluding water and exempt solvents.
- 1,2 = subscript denoting a specific coating or cleanup material employed.
- n = total number of surface coatings and/or cleanup materials employed in emissions units K001, K002 and K003.

3. The permit to install for the merged emissions from emissions units K001 - K003, 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 the emissions units 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).

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

Pollutant: triethylamine

TLV (ug/m³): 4138.6

Maximum Hourly Emission Rate (lbs/hr): 1.13 (K001 - K003 combined)

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m³): 86.76 (K001 - K003 combined)

MAGLC (ug/m³): 98.5

Physical changes to or in the method of operation of the emissions units after 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 units or their exhaust parameters (e.g., increased/decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).
4. 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 units 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 units still satisfy 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 notify the Hamilton County Department of Environmental Services (HCDES) in writing of any daily record showing that the daily volume-weighted average VOC content exceeds the applicable limitation in term A.1. The notification shall include a copy of such record and shall be sent to the HCDES within 45 days after the exceedance occurs.
2. The permittee shall submit annual reports which specify the total VOC emissions from this emissions unit and emissions units K001, K002 and K003, combined for the previous calendar year. The reports shall be sent to the Hamilton County Department of Environmental Services by January 31 of each year.

E. Testing Requirements

1. Emissions Limitation

111.4 lbs VOC/day

Compliance with the daily VOC emissions limitation in section A.1. shall be demonstrated by multiplying the actual total daily coating usage (gallons/day, as applied) by the actual daily volume-weighted average VOC content (lbs. VOC/gallon, as applied) to yield daily emissions in lbs. VOC/day.

2. Emissions Limitation

15.21 TPY VOC; K001, K002 and K003 combined

Compliance with the annual combined VOC emissions limitation for emissions units K001, K002 and K003 shall be demonstrated by the summation of the actual monthly emissions from section C.2.d for each emissions unit and multiplying that summation by 1 ton/2000 lbs.

3. USEPA methods 24 and 24A shall be used to determine the VOC content for (a) coatings and (b) flexographic and rotogravure printing lines and related coatings, respectively. If, pursuant to section 4.3 of Method 24, 40 CFR Part 60, Appendix A, an owner or operator determines that Method 24 or 24A cannot be used for a particular coating or ink, the permittee shall so notify the Administrator of the USEPA and shall use formulation data for that coating or ink to demonstrate compliance until the USEPA provides alternative analytical procedures or alternative precision statements for Method 24 or 24A.

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PTI A

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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>
R001 - Bi-laminate coater - 72 inch J/W Tips continuous web coater with immersion grid baking oven	OAC rule 3745-31-05(A)(3)	8 lbs/hr OC, for all coatings and/or cleanup materials.
		40 lbs/day OC, for all coatings and/or cleanup materials.
		7.3 TPY OC
	OAC Rule 3745-21-07(G)(3)	The emissions limitations specified by this rule are less stringent than the emissions limitations established pursuant to OAC rule 3745-31-05(A)(3).
	OAC Rule 3745-21-07(G)(1)	Exempt

2. Additional Terms and Conditions

- 2.a Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by compliance with the hourly, daily and annual OC emissions limits.

B. Operational Restrictions

None

C. Monitoring and/or Record keeping 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 and cleanup material employed;
 - b. The number of gallons of each coating and cleanup material employed;
 - c. The organic compound content of each coating and cleanup material, in pounds per gallon;
 - d. The total organic compound emission rate for all coatings and cleanup materials, in pounds per day, i.e the summation of the emissions from each coating and cleanup material [(b) x (c)];
 - e. The total number of hours the emissions unit was in operation; and
 - f. The average hourly organic compound emission rate for all coatings and cleanup materials, i.e., (d)/(e), in pounds per hour (average).
2. The permittee shall record the total organic compound emissions rate for all coatings and cleanup materials, in tons per year, i.e., the summation of the emissions from each day, recorded in section C.1.d.

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 and cleanup materials exceeded 8 pounds per hour, and the actual average hourly organic compound emissions for each such day ; and
 - b. An identification of each day during which the organic compound emissions from the coatings and cleanup materials exceeded 40 pounds per day, and the actual organic compound emissions for each such day.

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 quarter. The reports shall be sent to the Hamilton County Department of Environmental Services. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter.

2. The permittee shall submit annual reports which specify the total organic compound emissions from this emissions unit for the previous calendar year. The report shall be submitted by January 31 of each year to the Hamilton County Department of Environmental Services.

E. Testing Requirements

1. Emissions Limitation

8 lbs/hr OC, 40 lbs/day OC

Compliance with the hourly and daily OC emissions limitation in section A.1. shall be demonstrated by the record keeping requirement in section C.1.

2. Emissions Limitation

7.3 TPY OC

Compliance with the annual OC emissions limitation in section A.1. shall be demonstrated by the record keeping requirement in section C.2.

3. 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.

F. Miscellaneous Requirements

1. Modeling to demonstrate compliance with the Ohio EPA's "Air Toxic Policy" was not necessary because the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. 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 OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any pollutant that has a listed TLV to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

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Emissions Unit ID: **R001**

2. This emissions unit is exempt from the requirements of OAC rule 3745-21-09(F) since the coating is applied by a spray.