



State of Ohio Environmental Protection Agency

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**RE: FINAL PERMIT TO INSTALL MODIFICATION**

**CERTIFIED MAIL**

**FAIRFIELD COUNTY**

**Application No: 01-08964**

**Fac ID: 0123010078**

**DATE: 6/21/2005**

Anchor Hocking CG Operating Company  
Robert Ryder  
1115 West Fifth Avenue  
Lancaster, OH 43130

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

Enclosed Please find a modification to the Ohio EPA Permit To Install referenced above which will modify the terms and conditions.

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  
309 South Fourth Street, Room 222  
Columbus, Ohio 43215

Sincerely,

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

cc: USEPA

CDO



FINAL ADMINISTRATIVE MODIFICATION OF PERMIT TO INSTALL 01-08964

Application Number: 01-08964  
Facility ID: 0123010078  
Permit Fee: **\$1400**  
Name of Facility: Anchor Hocking CG Operating Company  
Person to Contact: Robert Ryder  
Address: 1115 West Fifth Avenue  
Lancaster, OH 43130

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**1115 West Fifth Avenue  
Lancaster, Ohio**

Description of proposed emissions unit(s):  
**Manual spray booth 1 and 2, auto spray booth 1, 2, and 3 and decorating lehr 1 and 2.**

The above named entity is hereby granted a modification to the permit to install described above pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this modification 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 source(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 included in the application, the above described source(s) of pollutants will be granted the necessary operating permits.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

## Part I - GENERAL TERMS AND CONDITIONS

### A. State and Federally Enforceable Permit To Install General Terms and Conditions

#### 1. Monitoring and Related Recordkeeping and Reporting Requirements

- a. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:
  - i. The date, place (as defined in the permit), and time of sampling or measurements.
  - ii. The date(s) analyses were performed.
  - iii. The company or entity that performed the analyses.
  - iv. The analytical techniques or methods used.
  - v. The results of such analyses.
  - vi. The operating conditions existing at the time of sampling or measurement.
- b. 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.
- c. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:
  - i. Reports of any required monitoring and/or recordkeeping of federally enforceable information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
  - ii. Quarterly written reports of (i) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be made to the appropriate Ohio EPA District Office or local air agency. The written 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. See B.9 below if no deviations occurred during the quarter.

- iii. Written reports, which identify any deviations from the federally enforceable monitoring, recordkeeping, and reporting requirements contained in this permit shall be submitted to the appropriate Ohio EPA District Office or local air agency every six months, i.e., by January 31 and July 31 of each year for the previous six calendar months. If no deviations occurred during a six-month period, the permittee shall submit a semi-annual report, which states that no deviations occurred during that period.
- iv. Each written report shall be signed by a responsible official certifying that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.

## **2. 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, i.e., upset, 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. (The definition of an upset condition shall be the same as that used in OAC rule 3745-15-06(B)(1) for a malfunction.) The verbal and written reports shall be submitted pursuant to 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 emission unit(s) that is (are) served by such control system(s).

## **3. Risk Management Plans**

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Clean Air Act, as amended, 42 U.S.C. 7401 et seq. ("Act"), the permittee shall comply with the requirement to register such a plan.

## **4. Title IV Provisions**

If the permittee is subject to the requirements of 40 CFR Part 72 concerning acid rain, the permittee shall ensure that any affected emissions unit complies with those requirements. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.

## **5. Severability Clause**

A determination that any term or condition of this permit is invalid shall not invalidate the force or effect of any other term or condition thereof, except to the extent that any other term or

condition depends in whole or in part for its operation or implementation upon the term or condition declared invalid.

## **6. General Requirements**

- a. The permittee must comply with all terms and conditions of this permit. Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and reissuance, or modification, or for denial of a permit renewal application.
- b. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.
- c. This permit may be modified, reopened, revoked, or revoked and reissued, for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.
- d. This permit does not convey any property rights of any sort, or any exclusive privilege.
- e. 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 request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

## **7. 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.

## **8. Federal and State Enforceability**

Only those terms and conditions designated in this permit as federally enforceable, that are required under the Act, or any of its applicable requirements, including relevant provisions designed to limit the potential to emit of a source, are enforceable by the Administrator of the U.S. EPA, the State, and citizens under the Act. All other terms and conditions of this permit shall not be federally enforceable and shall be enforceable under State law only.

## **9. Compliance Requirements**

- a. Any document (including reports) required to be submitted and required by a federally applicable requirement in this permit shall include a certification by a responsible official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.
- b. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:
  - i. At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.
  - ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with ORC section 3704.08.
  - iii. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
  - iv. As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.
- c. The permittee shall submit progress reports to the appropriate Ohio EPA District Office or local air agency concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually, or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:
  - i. Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
  - ii. An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

## **10. Permit To Operate Application**

- a. If the permittee is required to apply for a Title V permit pursuant to OAC Chapter 3745-77, the permittee shall submit a complete Title V permit application or a complete Title V permit modification application within twelve (12) months after commencing operation of the emissions units covered by this permit. However, if the proposed new or

modified source(s) would be prohibited by the terms and conditions of an existing Title V permit, a Title V permit modification must be obtained before the operation of such new or modified source(s) pursuant to OAC rule 3745-77-04(D) and OAC rule 3745-77-08(C)(3)(d).

- b. If the permittee is required to apply for permit(s) pursuant to OAC Chapter 3745-35, the source(s) identified in this Permit To Install is (are) permitted to operate for a period of up to one year from the date the source(s) commenced operation. 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 ninety (90) days after commencing operation of the source(s) covered by this permit.

**11. 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.

**12. 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.

**B. State Only Enforceable Permit To Install General Terms and Conditions**

**1. Compliance Requirements**

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

**2. Reporting Requirements**

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping of state-only enforceable 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 state-only required 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. 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.

**4. 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.

**5. 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 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.

**6. 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.

**7. 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).

**8. Construction Compliance Certification**

If applicable, the applicant shall provide Ohio EPA with a written certification (see enclosed form if applicable) 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.

**9. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations (See Section A of This Permit)**

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.

**C. 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>
PE	13.5
OC	9.0
NOx	2.8
CO	2.4
SO <sub>2</sub>	0.02

**Part II - FACILITY SPECIFIC TERMS AND CONDITIONS**

**A. State and Federally Enforceable Permit To Install Facility Specific Terms and Conditions**

None

**B. State Only Enforceable Permit To Install Facility Specific Terms and Conditions**

None

**Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. State and Federally Enforceable Section**

**I. 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 - Manual spray booth No.1. The terms of this permit supercede those identified in PTI No. 01-08943 issued February 24, 2005.	OAC rule 3745-31-05(A)(3)	Emissions shall not exceed:  0.97 lb/hr of organic compounds (OC); and  0.096 lb/hr and 0.42 ton/year of particulate emissions (PE) from the baghouse stack serving this emissions unit.  See Section A.I.2.a and A.I.2.b below.  The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-05(C) and 3745-17-07(A)(1).
	OAC rule 3745-31-05(C) (synthetic minor to avoid NSR)	Emissions shall not exceed, as a 12-month rolling summation:  0.225 tons of OC from coating material usage.  See Sections A.II.1 and A.II.2 below.
	OAC rule 3745-17-07(A)(1)	Visible PE from any stack shall not exceed 20% opacity, as a six-minute average, except as provided by rule.
	OAC rule 3745-17-11(B)(1)	The hourly PE limitation established by this rule is less stringent than that established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-21-07(G)(2)	See Section A.I.2.c below.

**2. Additional Terms and Conditions**

**2.a** The hourly OC emission limitation and the hourly and annual PE emission limitations were established to reflect the potential to emit for this emissions unit after control. The emissions from this emissions unit is controlled with a fabric filter and baghouse. Therefore, no additional monitoring, recordkeeping and/or reporting other than the parametric monitoring of the baghouse is necessary to ensure compliance with these limits.

**2.b** Water shall be the only cleanup material used in this emissions unit.

**2.c** To avoid the emission limitations/control requirements contained in OAC rule 3745-21-07(G)(2), no photochemically reactive materials (i.e., as raw materials or cleanup materials) shall be employed in this emissions unit.

Note: The definition of "photochemically reactive material" is based upon OAC rule 3745-21-01(C)(5).

**II. Operational Restrictions**

1. The maximum annual mass coating usage for this emissions unit shall not exceed 1,500 pounds applied based upon a rolling, 12-month summation of the mass coating usage figures.

To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the mass coating usage levels specified in the following table:

<u>Month(s)</u>	<u>Maximum Allowable Cumulative Mass Coating Usage</u>
1	125
1-2	250
1-3	375
1-4	500
1-5	625
1-6	750
1-7	875
1-8	1,000
1-9	1,125
1-10	1,250
1-11	1,375
1-12	1,500

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual mass coating usage limitation shall be based upon a rolling, 12-month summation of the mass coating usage figures.

2. The maximum coating content shall not exceed 0.3 pound OC per pound of coating.
3. The pressure drop across the baghouse shall be maintained within the range of 1-4 inches of water while the emissions unit is in operation.
4. The operation of the control equipment outside the range specified above may or may not indicate a mass emission and/or visible emission violation. If required by the Ohio EPA and/or U.S. EPA, compliance with the mass emission limitation and visible emission limitations shall be determined by performing concurrent mass emission tests and visible emissions readings, using USEPA-approved methods and procedures. The results of any required emission tests and visible emission readings shall be used in determining whether or not the operation of the control equipment outside the range specified above is indicative of a possible violation of the mass emission limitation and/or visible emission limitations.

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

1. The permittee shall collect and record the following information each month for emissions unit K003:
  - a. the name and identification of each coating material, as applied;
  - b. whether or not each coating material employed in this emissions unit is a photochemically reactive material;
  - c. the OC content for each coating material in pounds of OC per pound of coating material;
  - d. the number of pounds applied, of each coating material;
  - e. the rolling, 12-month summation of the mass coating usage, in pounds;
  - f. the total OC emissions rate for all coating materials, in pounds per month  $\odot$  x d); and
  - g. the total OC emissions rate for all coating materials, in pounds, per rolling, 12-month summation  $\odot$  x e).
2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any visible emission incident; and
  - e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

If the daily checks show no visible emissions for 30 consecutive operating days, the required frequency of visible emissions checks may be reduced to weekly (once per week, when the emissions unit is in operation). If a subsequent check indicates visible emissions, the frequency of emissions checks shall revert to daily until such time as there are 30 consecutive operating days of no visible emissions.

3. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s), with any modifications deemed necessary by the permittee. The permittee shall record the pressure drop across the baghouse on a daily basis when the emissions unit is operating.

#### **IV. Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports which identify all exceedances of the following:
  - a. the OC content limit for coating materials; and
  - b. the rolling, 12-month mass coating usage limitation and/or for the first 12 calendar months of operation following issuance of this permit, the maximum allowable cumulative mass coating usage levels;
  - c. the rolling, 12-month OC emission limitation for K003; and
  - d. use of photochemically reactive materials.
2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions. These reports shall be submitted to Ohio EPA, Central District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.
3. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse was outside the range specified above.
4. The quarterly deviation (excursion) reports shall be submitted to the Ohio EPA Central District Office by January 31, April 30, July 31 and October 31 of each year and shall cover the previous

calendar quarter. If no deviations occurred during a calendar quarter, the permittee shall submit a report which states that no deviations occurred during the calendar quarter.

**V. Testing Requirements**

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

a. Emissions Limitation:  
0.97 lb of OC / hr.

Applicable Compliance Method:

Compliance has been demonstrated by multiplying the maximum hourly coating usage rate of 3.224 lbs paint used / hr by the maximum OC content of 0.3 lbs/lb of paint.

b. Emission Limitation:  
OC emissions from coatings shall not exceed 0.225 tons, as a 12-month rolling summation.

Applicable Compliance Method:

Compliance shall be based upon the record keeping requirements as specified in Section A.III.

c. Emissions Limitation:  
0.3 pounds of OC per gallon of coating, excluding water and exempt solvents.

Applicable Compliance Method:

Compliance with the OC content of the coatings applied in this emissions unit shall be determined through monthly record keeping, as specified in Section A.III. Formulation data from the coating manufacturer and/or, if required, USEPA Method 24 (or an alternative approved method) shall be used to determine the volatile organic compound content of the coatings, to be used in the calculation of emissions.

d. Emission Limitations:  
PE shall not exceed 0.096 lb of PE / hr.

Applicable Compliance Method:

Compliance with the hourly particulate emissions limit shall be determined by adding the filtered emissions and the fugitive emissions from the paint booth. To determine the actual worst case particulate emissions rate, the following equation may be used:

$$E = (M)(1-TE)(CapE)(1-CE) + (F)$$

E = particulate emissions rate -

M = maximum coating solids usage rate - 3.22 lbs PE / hr

TE = transfer efficiency\* - 25%

CapE = capture efficiency of control equipment - 98%

CE = control efficiency of control equipment - 98%

F = fugitive emissions not captured by control equipment - 0.0339 lb PE / hr

$$E = (3.22 \text{ lbs PE / hour})(1 - 0.25)(0.98)(1 - 0.98) + (0.048 \text{ lb PE / hr})$$

$$E = 0.096 \text{ lb PE / hr}$$

\* Transfer efficiency is the ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used.

If required, the permittee shall demonstrate compliance with this emission limitation through emissions tests performed in accordance with 40 CFR, Part 60, Appendix A, Methods 1 through 5, and the procedures specified in OAC rule 3745-17-03(B)(10).

- e. Emission Limitations:  
PE shall not exceed 0.42 ton/year.

Applicable Compliance Method:

The annual emission limitation was established by multiplying the hourly limitation by 8,760 hours/year and then dividing by 2,000 pounds/ton. Compliance with the annual emission limitation may be assumed as long as compliance with the hourly emission limitation is maintained.

- f. Emission Limitations:  
Visible PE from any stack shall not exceed 20% opacity, as a six-minute average, except as provided by rule.

Applicable Compliance Method:

If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A. Method 9 and the procedures are specified in OAC rule 3745-17-03(B)(1).

2. USEPA Method 24 shall be used to determine the OC contents for the coatings and cleanup materials. If an owner or operator determines that Method 24, 40 CFR Part 60, Appendix A cannot be used for a particular coating or cleanup material, the permittee shall so notify the Administrator of the USEPA and shall use formulation data for that coating to demonstrate compliance until the USEPA provides alternative analytical procedures or alternative precision statements for Method 24.

**VI. Miscellaneous Requirements**

None

**B. State Only Enforceable Section**

**I. 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 - Manual spray booth No.1. The terms of this permit supercede those identified in PTI No. 01-08943 issued February 24, 2005.	None	None

2. **Additional Terms and Conditions**

- 2.a None

**II. Operational Restrictions**

None

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

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

Pursuant to Engineering Guide #69, modeling to demonstrate compliance with the Ohio EPA’s Air Toxic Policy was not necessary since 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

**Anchor Hocking CG Operating Company**

**PTI Application: 01-08964**

**Modification Issued: 6/21/2005**

**Facility ID: 0123010078**

**Emissions Unit ID: K003**

would result in an increase in emissions of any pollutant that has a listed TLV to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

**Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. State and Federally Enforceable Section**

**I. 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>
K004 - Manual spray booth No.2. The terms of this permit supercede those identified in PTI No. 01-08943 issued February 24, 2005.	OAC rule 3745-31-05(A)(3)	Emissions shall not exceed:  0.97 lb/hr of organic compounds (OC); and  0.096 lb/hr and 0.42 ton/year of particulate emissions (PE) from the baghouse stack serving this emissions unit.  See Section A.I.2.a and A.I.2.b below.  The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-05(C) and 3745-17-07(A)(1).
	OAC rule 3745-31-05(C) (synthetic minor to avoid NSR)	Emissions shall not exceed, as a 12-month rolling summation:  0.225 tons of OC from coating material usage.  See Sections A.II.1 and A.II.2 below.
	OAC rule 3745-17-07(A)(1)	Visible PE from any stack shall not exceed 20% opacity, as a six-minute average, except as provided by rule.
	OAC rule 3745-17-11(B)(1)	The hourly PE limitation established by this rule is less stringent than that established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-21-07(G)(2)	See Section A.I.2.c below.

**2. Additional Terms and Conditions**

**2.a** The hourly OC emission limitation and the hourly and annual PE emission limitations were established to reflect the potential to emit for this emissions unit after control. The emissions from this emissions unit is controlled with a fabric filter and baghouse. Therefore, no additional monitoring, recordkeeping and/or reporting other than the parametric monitoring of the baghouse is necessary to ensure compliance with these limits.

**2.b** Water shall be the only cleanup material used in this emissions unit.

**2.c** To avoid the emission limitations/control requirements contained in OAC rule 3745-21-07(G)(2), no photochemically reactive materials (i.e., as raw materials or cleanup materials) shall be employed in this emissions unit.

Note: The definition of "photochemically reactive material" is based upon OAC rule 3745-21-01(C)(5).

**II. Operational Restrictions**

1. The maximum annual mass coating usage for this emissions unit shall not exceed 1,500 pounds applied based upon a rolling, 12-month summation of the mass coating usage figures.

To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the mass coating usage levels specified in the following table:

<u>Month(s)</u>	<u>Maximum Allowable Cumulative Mass Coating Usage</u>
1	125
1-2	250
1-3	375
1-4	500
1-5	625
1-6	750
1-7	875
1-8	1,000
1-9	1,125
1-10	1,250
1-11	1,375
1-12	1,500

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual coating usage limitation shall be based upon a rolling, 12-month summation of the mass coating usage figures.

2. The maximum coating content shall not exceed 0.3 pound OC per pound of coating.
3. The pressure drop across the baghouse shall be maintained within the range of 1-4 inches of water while the emissions unit is in operation.
4. The operation of the control equipment outside the range specified above may or may not indicate a mass emission and/or visible emission violation. If required by the Ohio EPA and/or U.S. EPA, compliance with the mass emission limitation and visible emission limitations shall be determined by performing concurrent mass emission tests and visible emissions readings, using USEPA-approved methods and procedures. The results of any required emission tests and visible emission readings shall be used in determining whether or not the operation of the control equipment outside the range specified above is indicative of a possible violation of the mass emission limitation and/or visible emission limitations.

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

1. The permittee shall collect and record the following information each month for emissions unit K004:
  - a. the name and identification of each coating material, as applied;
  - b. whether or not each coating material employed in this emissions unit is a photochemically reactive material;
  - c. the OC content for each coating material in pounds of OC per pound of coating material;
  - d. the number of pounds applied, of each coating material;
  - e. the rolling, 12-month summation of the mass coating usage, in pounds;
  - f. the total OC emissions rate for all coating materials, in pounds per month  $\text{© x d}$ ; and
  - g. the total OC emissions rate for all coating materials, in pounds, per rolling, 12-month summation  $\text{© x e}$ .
2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any visible emission incident; and
  - e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

If the daily checks show no visible emissions for 30 consecutive operating days, the required frequency of visible emissions checks may be reduced to weekly (once per week, when the emissions unit is in operation). If a subsequent check indicates visible emissions, the frequency of emissions checks shall revert to daily until such time as there are 30 consecutive operating days of no visible emissions.

3. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s), with any modifications deemed necessary by the permittee. The permittee shall record the pressure drop across the baghouse on a daily basis when the emissions unit is operating.

#### **IV. Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports which identify all exceedances of the following:
  - a. the OC content limit for coating materials; and
  - b. the rolling, 12-month mass coating usage limitation and/or for the first 12 calendar months of operation following issuance of this permit, the maximum allowable cumulative mass coating usage levels;
  - c. the rolling, 12-month OC emission limitation for K004; and
  - d. use of photochemically reactive materials.
2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions. These reports shall be submitted to Ohio EPA, Central District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.
3. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse was outside the range specified above.
4. The quarterly deviation (excursion) reports shall be submitted to the Ohio EPA Central District Office by January 31, April 30, July 31 and October 31 of each year and shall cover the previous

calendar quarter. If no deviations occurred during a calendar quarter, the permittee shall submit a report which states that no deviations occurred during the calendar quarter.

**V. Testing Requirements**

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

a. Emissions Limitation:  
0.97 lb of OC / hr.

Applicable Compliance Method:

Compliance has been demonstrated by multiplying the maximum hourly coating usage rate of 3.224 lbs paint used / hr by the maximum OC content of 0.3 lbs/lb of paint.

b. Emission Limitation:  
OC emissions from coatings shall not exceed 0.225 tons, as a 12-month rolling summation.

Applicable Compliance Method:

Compliance shall be based upon the record keeping requirements as specified in Section A.III.

c. Emissions Limitation:  
0.3 pounds of OC per gallon of coating, excluding water and exempt solvents.

Applicable Compliance Method:

Compliance with the OC content of the coatings applied in this emissions unit shall be determined through monthly record keeping, as specified in Section A.III. Formulation data from the coating manufacturer and/or, if required, USEPA Method 24 (or an alternative approved method) shall be used to determine the volatile organic compound content of the coatings, to be used in the calculation of emissions.

d. Emission Limitations:  
PE shall not exceed 0.07 lb of PE / hr.

Applicable Compliance Method:

Compliance with the hourly particulate emissions limit shall be determined by adding the filtered emissions and the fugitive emissions from the paint booth. To determine the actual worst case particulate emissions rate, the following equation may be used:

$$E = (M)(1-TE)(CapE)(1-CE) + (F)$$

E = particulate emissions rate -

M = maximum coating solids usage rate - 3.22 lbs PE / hr

TE = transfer efficiency\* - 25%

CapE = capture efficiency of control equipment - 98%

CE = control efficiency of control equipment - 98%

F = fugitive emissions not captured by control equipment - 0.0339 lb PE / hr

$$E = (3.22 \text{ lbs PE / hour})(1 - 0.25)(0.98)(1 - 0.98) + (0.048 \text{ lb PE / hr})$$

$$E = 0.096 \text{ lb PE / hr}$$

\* Transfer efficiency is the ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used.

If required, the permittee shall demonstrate compliance with this emission limitation through emissions tests performed in accordance with 40 CFR, Part 60, Appendix A, Methods 1 through 5, and the procedures specified in OAC rule 3745-17-03(B)(10).

- e. Emission Limitations:  
PE shall not exceed 0.42 ton/year.

Applicable Compliance Method:

The annual emission limitation was established by multiplying the hourly limitation by 8,760 hours/year and then dividing by 2,000 pounds/ton. Compliance with the annual emission limitation may be assumed as long as compliance with the hourly emission limitation is maintained.

- f. Emission Limitations:  
Visible PE from any stack shall not exceed 20% opacity, as a six-minute average, except as provided by rule.

Applicable Compliance Method:

If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A. Method 9 and the procedures are specified in OAC rule 3745-17-03(B)(1).

2. USEPA Method 24 shall be used to determine the OC contents for the coatings and cleanup materials. If an owner or operator determines that Method 24, 40 CFR Part 60, Appendix A cannot be used for a particular coating or cleanup material, the permittee shall so notify the Administrator of the USEPA and shall use formulation data for that coating to demonstrate compliance until the USEPA provides alternative analytical procedures or alternative precision statements for Method 24.

**VI. Miscellaneous Requirements**

None

**B. State Only Enforceable Section**

**I. 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>
K004 - Manual spray booth No.2. The terms of this permit supercede those identified in PTI No. 01-08943 issued February 24, 2005.	None	None

2. **Additional Terms and Conditions**

- 2.a None

**II. Operational Restrictions**

None

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

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

Pursuant to Engineering Guide #69, modeling to demonstrate compliance with the Ohio EPA’s Air Toxic Policy was not necessary since 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

**Anchor Hocking CG Operating Company**

**PTI Application: 01-08964**

**Modification Issued: 6/21/2005**

**Facility ID: 0123010078**

**Emissions Unit ID: K004**

would result in an increase in emissions of any pollutant that has a listed TLV to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

**Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. State and Federally Enforceable Section**

**I. 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>
K005 - Auto spray booth No.1. The terms of this permit supercede those identified in PTI No. 01-08943 issued February 24, 2005.	OAC rule 3745-31-05(A)(3)	Emissions shall not exceed:  9.7 lbs/hr of organic compounds (OC); and  0.96 lb/hr and 4.2 tons/year of particulate emissions (PE) from the baghouse stack serving this emissions unit.  See Sections A.I.2.a and A.I.2.b below.  The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-05(C) and 3745-17-07(A)(1).
	OAC rule 3745-31-05(C) (synthetic minor to avoid NSR)	Emissions shall not exceed, as a 12-month rolling summation:  2.85 tons of OC from coating material usage.  See Sections A.II.1 and A.II.2 below.
	OAC rule 3745-17-07(A)(1)	Visible PE from any stack shall not exceed 20% opacity, as a six-minute average, except as provided by rule.
	OAC rule 3745-17-11(B)(1)	The hourly PE limitation established by this rule is less stringent than that established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-21-07(G)(2)	See Section A.I.2.c below.

**2. Additional Terms and Conditions**

**2.a** The hourly OC emission limitation and the hourly and annual PE emission limitations were established to reflect the potential to emit for this emissions unit after control. The emissions from this emissions unit is controlled with a fabric filter and baghouse. Therefore, no additional monitoring, recordkeeping and/or reporting other than the parametric monitoring of the baghouse is necessary to ensure compliance with these limits.

**2.b** Water shall be the only cleanup material used in this emissions unit.

**2.c** To avoid the emission limitations/control requirements contained in OAC rule 3745-21-07(G)(2), no photochemically reactive materials (i.e., as raw materials or cleanup materials) shall be employed in this emissions unit.

Note: The definition of "photochemically reactive material" is based upon OAC rule 3745-21-01(C)(5).

**II. Operational Restrictions**

1. The maximum annual mass coating usage for this emissions unit shall not exceed 19,000 pounds applied based upon a rolling, 12-month summation of the OC - containing coating usage figures.

To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the mass coating usage levels specified in the following table:

<u>Month(s)</u>	<u>Maximum Allowable Cumulative Mass Coating Usage</u>
1	1,600
1-2	3,200
1-3	4,800
1-4	6,400
1-5	8,000
1-6	9,600
1-7	11,200
1-8	12,800
1-9	14,400
1-10	16,000
1-11	17,600
1-12	19,000

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual mass coating usage limitation shall be based upon a rolling, 12-month summation of the mass coating usage figures.

2. The maximum coating content shall not exceed 0.3 pound OC per pound of coating.
3. The pressure drop across the baghouse shall be maintained within the range of 1-4 inches of water while the emissions unit is in operation.
4. The operation of the control equipment outside the range specified above may or may not indicate a mass emission and/or visible emission violation. If required by the Ohio EPA and/or U.S. EPA, compliance with the mass emission limitation and visible emission limitations shall be determined by performing concurrent mass emission tests and visible emissions readings, using USEPA-approved methods and procedures. The results of any required emission tests and visible emission readings shall be used in determining whether or not the operation of the control equipment outside the range specified above is indicative of a possible violation of the mass emission limitation and/or visible emission limitations.

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

1. The permittee shall collect and record the following information each month for emissions unit K005:
  - a. the name and identification of each coating material, as applied;
  - b. whether or not each coating material employed in this emissions unit is a photochemically reactive material;
  - c. the OC content for each coating material in pounds of OC per pound of coating material;
  - d. the number of pounds applied, of each coating material;
  - e. the rolling, 12-month summation of the mass coating usage, in pounds;
  - f. the total OC emissions rate for all coating materials, in pounds per month  $\odot$  x d); and
  - g. the total OC emissions rate for all coating materials, in pounds per rolling, 12-month summation  $\odot$  x e).
2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any visible emission incident; and
  - e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

If the daily checks show no visible emissions for 30 consecutive operating days, the required frequency of visible emissions checks may be reduced to weekly (once per week, when the emissions unit is in operation). If a subsequent check indicates visible emissions, the frequency of emissions checks shall revert to daily until such time as there are 30 consecutive operating days of no visible emissions.

3. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s), with any modifications deemed necessary by the permittee. The permittee shall record the pressure drop across the baghouse on a daily basis when the emissions unit is operating.

#### **IV. Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports which identify all exceedances of the following:
  - a. the OC content limit for coating materials; and
  - b. the rolling, 12-month mass coating usage limitation and/or for the first 12 calendar months of operation following issuance of this permit, the maximum allowable cumulative mass coating usage levels for K005;
  - c. the rolling, 12-month VOC emission limitation for K005; and
  - d. use of photochemically reactive materials.
2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions. These reports shall be submitted to Ohio EPA, Central District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.
3. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse was outside the range specified above.
4. The quarterly deviation (excursion) reports shall be submitted to the Ohio EPA Central District Office by January 31, April 30, July 31 and October 31 of each year and shall cover the previous

calendar quarter. If no deviations occurred during a calendar quarter, the permittee shall submit a report which states that no deviations occurred during the calendar quarter.

**V. Testing Requirements**

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

a. Emissions Limitation:  
9.7 lbs/hr of organic compounds (OC).

Applicable Compliance Method:  
Compliance has been demonstrated by multiplying the maximum hourly coating usage rate of 32.24 lbs paint used / hr by the maximum OC content of 0.3 lbs/lb of paint.

b. Emission Limitation:  
OC emissions from coatings shall not exceed 2.85 tons, as a 12-month rolling summation.

Applicable Compliance Method:  
Compliance shall be based upon the record keeping requirements as specified in Section A.III.

c. Emissions Limitation:  
0.3 pounds of OC per gallon of coating, excluding water and exempt solvents.

Applicable Compliance Method:  
Compliance with the OC content of the coatings applied in this emissions unit shall be determined through monthly record keeping, as specified in Section A.III. Formulation data from the coating manufacturer and/or, if required, USEPA Method 24 (or an alternative approved method) shall be used to determine the volatile organic compound content of the coatings, to be used in the calculation of emissions.

d. Emission Limitations:  
PE shall not exceed 0.96 lb of PE / hr.

Applicable Compliance Method:  
Compliance with the hourly particulate emissions limit shall be determined by adding the filtered emissions and the fugitive emissions from the paint booth. To determine the actual worst case particulate emissions rate, the following equation may be used:

$$E = (M)(1-TE)(CapE)(1-CE) + (F)$$

E = particulate emissions rate -

M = maximum coating solids usage rate - 32.24 lbs PE / hr

TE = transfer efficiency\* - 25%

CapE = capture efficiency of control equipment - 98%

CE = control efficiency of control equipment - 98%

F = fugitive emissions not captured by control equipment - 0.484 lb PE / hr

$$E = (32.24 \text{ lbs PE / hour})(1 - 0.25)(0.98)(1 - 0.98) + (0.484 \text{ lb PE / hr})$$

$$E = 0.957 \text{ lb PE / hr}$$

\* Transfer efficiency is the ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used.

If required, the permittee shall demonstrate compliance with this emission limitation through emissions tests performed in accordance with 40 CFR, Part 60, Appendix A, Methods 1 through 5, and the procedures specified in OAC rule 3745-17-03(B)(10).

- e. Emission Limitations:  
PE shall not exceed 4.2 tons/year.

Applicable Compliance Method:

The annual emission limitation was established by multiplying the hourly limitation by 8,760 hours/year and then dividing by 2,000 pounds/ton. Compliance with the annual emission limitation may be assumed as long as compliance with the hourly emission limitation is maintained.

- f. Emission Limitations:  
Visible PE from any stack shall not exceed 20% opacity, as a six-minute average, except as provided by rule.

Applicable Compliance Method:

If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A. Method 9 and the procedures are specified in OAC rule 3745-17-03(B)(1).

**VI. Miscellaneous Requirements**

None

**B. State Only Enforceable Section**

**I. 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>
K005 - Auto spray booth No.1. The terms of this permit supercede those identified in PTI No. 01-08943 issued February 24, 2005.	None	None

2. **Additional Terms and Conditions**

- 2.a None

**II. Operational Restrictions**

None

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

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

Pursuant to Engineering Guide #69, modeling to demonstrate compliance with the Ohio EPA’s Air Toxic Policy was not necessary since 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

**Anchor Hocking CG Operating Company**

**PTI Application: 01-08964**

**Modification Issued: 6/21/2005**

**Facility ID: 0123010078**

**Emissions Unit ID: K005**

would result in an increase in emissions of any pollutant that has a listed TLV to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

**Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. State and Federally Enforceable Section**

**I. 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>
K006 - Auto Spray Booth No.2. The terms of this permit supercede those identified in PTI No. 01-08943 issued February 24, 2005.	OAC rule 3745-31-05(A)(3)	Emissions shall not exceed:  9.7 lbs/hr of organic compounds (OC); and  0.96 lb/hr and 4.2 tons/year of particulate emissions (PE) from the baghouse stack serving this emissions unit.  See Sections A.I.2.a and A.I.2.b below.  The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-05(C) and 3745-17-07(A)(1).
	OAC rule 3745-31-05(C) (synthetic minor to avoid NSR)	Emissions shall not exceed, as a 12-month rolling summation:  2.85 tons of OC from coating material usage.  See Sections A.II.1 and A.II.2 below.
	OAC rule 3745-17-07(A)(1)	Visible PE from any stack shall not exceed 20% opacity, as a six-minute average, except as provided by rule.
	OAC rule 3745-17-11(B)(1)	The hourly PE limitation established by this rule is less stringent than that established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-21-07(G)(2)	See Section A.I.2.c below.

**2. Additional Terms and Conditions**

**2.a** The hourly OC emission limitation and the hourly and annual PE emission limitations were established to reflect the potential to emit for this emissions unit after control. The emissions from this emissions unit is controlled with a fabric filter and baghouse. Therefore, no additional monitoring, recordkeeping and/or reporting other than the parametric monitoring of the baghouse is necessary to ensure compliance with these limits.

**2.b** Water shall be the only cleanup material used in this emissions unit.

**2.c** To avoid the emission limitations/control requirements contained in OAC rule 3745-21-07(G)(2), no photochemically reactive materials (i.e., as raw materials or cleanup materials) shall be employed in this emissions unit.

Note: The definition of "photochemically reactive material" is based upon OAC rule 3745-21-01(C)(5).

**II. Operational Restrictions**

1. The maximum annual mass coating usage for this emissions unit shall not exceed 19,000 pounds applied based upon a rolling, 12-month summation of the OC - containing coating usage figures.

To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the mass coating usage levels specified in the following table:

<u>Month(s)</u>	<u>Maximum Allowable Cumulative Mass Coating Usage</u>
1	1,600
1-2	3,200
1-3	4,800
1-4	6,400
1-5	8,000
1-6	9,600
1-7	11,200
1-8	12,800
1-9	14,400
1-10	16,000
1-11	17,600
1-12	19,000

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual mass coating usage limitation shall be based upon a rolling, 12-month summation of the mass coating usage figures.

2. The maximum coating content shall not exceed 0.3 pound OC per pound of coating, excluding water and exempt solvents.
3. The pressure drop across the baghouse shall be maintained within the range of 1-4 inches of water while the emissions unit is in operation.
4. The operation of the control equipment outside the range specified above may or may not indicate a mass emission and/or visible emission violation. If required by the Ohio EPA and/or U.S. EPA, compliance with the mass emission limitation and visible emission limitations shall be determined by performing concurrent mass emission tests and visible emissions readings, using USEPA-approved methods and procedures. The results of any required emission tests and visible emission readings shall be used in determining whether or not the operation of the control equipment outside the range specified above is indicative of a possible violation of the mass emission limitation and/or visible emission limitations.

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

1. The permittee shall collect and record the following information each month for emissions unit K006:
  - a. the name and identification of each coating material, as applied;
  - b. whether or not each coating material employed in this emissions unit is a photochemically reactive material;
  - c. the OC content for each coating material in pounds of OC per pound of coating material;
  - d. the number of pounds applied, of each coating material;
  - e. the rolling, 12-month summation of the mass coating usage, in pounds;
  - f. the total OC emissions rate for all coating materials, in pounds per month (c x d); and
  - g. the total OC emissions rate for all coating materials, in pounds per rolling, 12-month summation (c x e).
2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any visible emission incident; and
  - e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

If the daily checks show no visible emissions for 30 consecutive operating days, the required frequency of visible emissions checks may be reduced to weekly (once per week, when the emissions unit is in operation). If a subsequent check indicates visible emissions, the frequency of emissions checks shall revert to daily until such time as there are 30 consecutive operating days of no visible emissions.

3. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s), with any modifications deemed necessary by the permittee. The permittee shall record the pressure drop across the baghouse on a daily basis when the emissions unit is operating.

#### **IV. Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports which identify all exceedances of the following:
  - a. the OC content limit for coating materials; and
  - b. the rolling, 12-month mass coating usage limitation and/or for the first 12 calendar months of operation following issuance of this permit, the maximum allowable cumulative mass coating usage levels for K006;
  - c. the rolling, 12-month VOC emission limitation for K006; and
  - d. use of photochemically reactive materials.
2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions. These reports shall be submitted to Ohio EPA, Central District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.
3. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse was outside the range specified above.
4. The quarterly deviation (excursion) reports shall be submitted to the Ohio EPA Central District Office by January 31, April 30, July 31 and October 31 of each year and shall cover the previous

calendar quarter. If no deviations occurred during a calendar quarter, the permittee shall submit a report which states that no deviations occurred during the calendar quarter.

**V. Testing Requirements**

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

a. Emissions Limitation:  
9.7 lbs/hr of organic compounds (OC).

Applicable Compliance Method:  
Compliance has been demonstrated by multiplying the maximum hourly coating usage rate of 32.24 lbs paint used / hr by the maximum OC content of 0.3 lbs/lb of paint.

b. Emission Limitation:  
OC emissions from coatings shall not exceed 2.85 tons, as a 12-month rolling summation.

Applicable Compliance Method:  
Compliance shall be based upon the record keeping requirements as specified in Section A.III.

c. Emissions Limitation:  
0.3 pounds of VOC per gallon of coating, excluding water and exempt solvents.

Applicable Compliance Method:  
Compliance with the OC content of the coatings applied in this emissions unit shall be determined through monthly record keeping, as specified in Section A.III. Formulation data from the coating manufacturer and/or, if required, USEPA Method 24 (or an alternative approved method) shall be used to determine the volatile organic compound content of the coatings, to be used in the calculation of emissions.

d. Emission Limitations:  
PE shall not exceed 0.96 lb of PE / hr.

Applicable Compliance Method:  
Compliance with the hourly particulate emissions limit shall be determined by adding the filtered emissions and the fugitive emissions from the paint booth. To determine the actual worst case particulate emissions rate, the following equation may be used:

$$E = (M)(1-TE)(CapE)(1-CE) + (F)$$

E = particulate emissions rate -

M = maximum coating solids usage rate - 32.24 lbs PE / hr

TE = transfer efficiency\* - 25%

CapE = capture efficiency of control equipment - 98%

CE = control efficiency of control equipment - 98%

F = fugitive emissions not captured by control equipment - 0.484 lb PE / hr

$$E = (32.24 \text{ lbs PE / hour})(1 - 0.25)(0.98)(1 - 0.98) + (0.484 \text{ lb PE / hr})$$

$$E = 0.957 \text{ lb PE / hr}$$

\* Transfer efficiency is the ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used.

If required, the permittee shall demonstrate compliance with this emission limitation through emissions tests performed in accordance with 40 CFR, Part 60, Appendix A, Methods 1 through 5, and the procedures specified in OAC rule 3745-17-03(B)(10).

- e. Emission Limitations:  
PE shall not exceed 4.2 tons/year.

Applicable Compliance Method:

The annual emission limitation was established by multiplying the hourly limitation by 8,760 hours/year and then dividing by 2,000 pounds/ton. Compliance with the annual emission limitation may be assumed as long as compliance with the hourly emission limitation is maintained.

- f. Emission Limitations:  
Visible PE from any stack shall not exceed 20% opacity, as a six-minute average, except as provided by rule.

Applicable Compliance Method:

If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A. Method 9 and the procedures are specified in OAC rule 3745-17-03(B)(1).

**VI. Miscellaneous Requirements**

None

**B. State Only Enforceable Section**

**I. 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>
K006 - Auto Spray Booth No.2. The terms of this permit supercede those identified in PTI No. 01-08943 issued February 24, 2005.	None	None

2. **Additional Terms and Conditions**

- 2.a None

**II. Operational Restrictions**

None

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

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

Pursuant to Engineering Guide #69, modeling to demonstrate compliance with the Ohio EPA’s Air Toxic Policy was not necessary since 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

**Anchor Hocking CG Operating Company**

**PTI Application: 01-08964**

**Modification Issued: 6/21/2005**

**Facility ID: 0123010078**

**Emissions Unit ID: K006**

would result in an increase in emissions of any pollutant that has a listed TLV to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

**Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. State and Federally Enforceable Section**

**I. 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>
K007 - Auto Spray Booth No. 3. The terms of this permit supercede those identified in PTI No. 01-08943 issued February 24, 2005.	OAC rule 3745-31-05(A)(3)	Emissions shall not exceed:  9.7 lbs/hr of organic compounds (OC); and  0.96 lb/hr and 4.2 tons/year of particulate emissions (PE) from the baghouse stack serving this emissions unit.  See Sections A.I.2.a and A.I.2.b below.  The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-05(C) and 3745-17-07(A)(1).
	OAC rule 3745-31-05(C) (synthetic minor to avoid NSR)	Emissions shall not exceed, as a 12-month rolling summation:  2.85 tons of OC from coating material usage.  See Sections A.II.1 and A.II.2 below.
	OAC rule 3745-17-07(A)(1)	Visible PE from any stack shall not exceed 20% opacity, as a six-minute average, except as provided by rule.
	OAC rule 3745-17-11(B)(1)	The hourly PE limitation established by this rule is less stringent than that established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-21-07(G)(2)	See Section A.I.2.c below.

**2. Additional Terms and Conditions**

**2.a** The hourly OC emission limitation and the hourly and annual PE emission limitations were established to reflect the potential to emit for this emissions unit after control. The emissions from this emissions unit is controlled with a fabric filter and baghouse. Therefore, no additional monitoring, recordkeeping and/or reporting other than the parametric monitoring of the baghouse is necessary to ensure compliance with these limits.

**2.b** Water shall be the only cleanup material used in this emissions unit.

**2.c** To avoid the emission limitations/control requirements contained in OAC rule 3745-21-07(G)(2), no photochemically reactive materials (i.e., as raw materials or cleanup materials) shall be employed in this emissions unit.

Note: The definition of "photochemically reactive material" is based upon OAC rule 3745-21-01(C)(5).

**II. Operational Restrictions**

1. The maximum annual mass coating usage for this emissions unit shall not exceed 19,000 pounds applied based upon a rolling, 12-month summation of the **OC - containing** coating usage figures.

To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the mass coating usage levels specified in the following table:

<u>Month(s)</u>	<u>Maximum Allowable Cumulative Mass Coating Usage</u>
1	1,600
1-2	3,200
1-3	4,800
1-4	6,400
1-5	8,000
1-6	9,600
1-7	11,200
1-8	12,800
1-9	14,400
1-10	16,000
1-11	17,600
1-12	19,000

After the first 12 calendar months of operation following the issuance of this permit, compliance with the annual mass coating usage limitation shall be based upon a rolling, 12-month summation of the mass coating usage figures.

2. The maximum coating content shall not exceed 0.3 pound OC per pound of coating.
3. The pressure drop across the baghouse shall be maintained within the range of 1-4 inches of water while the emissions unit is in operation.
4. The operation of the control equipment outside the range specified above may or may not indicate a mass emission and/or visible emission violation. If required by the Ohio EPA and/or U.S. EPA, compliance with the mass emission limitation and visible emission limitations shall be determined by performing concurrent mass emission tests and visible emissions readings, using USEPA-approved methods and procedures. The results of any required emission tests and visible emission readings shall be used in determining whether or not the operation of the control equipment outside the range specified above is indicative of a possible violation of the mass emission limitation and/or visible emission limitations.

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

1. The permittee shall collect and record the following information each month for emissions unit K007:
  - a. the name and identification of each coating material, as applied;
  - b. whether or not each coating material employed in this emissions unit is a photochemically reactive material;
  - c. the OC content for each coating material in pounds of OC per pound of coating material;
  - d. the number of pounds applied, of each coating material;
  - e. the rolling, 12-month summation of the mass coating usage, in pounds;
  - f. the total OC emissions rate for all coating materials, in pounds per month  $\text{©} \times \text{d}$ ); and
  - g. the total OC emissions rate for all coating materials, in pounds, per rolling, 12-month summation  $\text{c} \times \text{e}$ ).
2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any visible emission incident; and
  - e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

If the daily checks show no visible emissions for 30 consecutive operating days, the required frequency of visible emissions checks may be reduced to weekly (once per week, when the emissions unit is in operation). If a subsequent check indicates visible emissions, the frequency of emissions checks shall revert to daily until such time as there are 30 consecutive operating days of no visible emissions.

3. The permittee shall properly operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s), with any modifications deemed necessary by the permittee. The permittee shall record the pressure drop across the baghouse on a daily basis when the emissions unit is operating.

#### **IV. Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports which identify all exceedances of the following:
  - a. the OC content limit for coating materials; and
  - b. the rolling, 12-month mass coating usage limitation and/or for the first 12 calendar months of operation following issuance of this permit, the maximum allowable cumulative mass coating usage levels for K007;
  - c. the rolling, 12-month VOC emission limitation for K007; and
  - d. use of photochemically reactive materials.
2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions. These reports shall be submitted to Ohio EPA, Central District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.
3. The permittee shall submit quarterly pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse was outside the range specified above.
4. The quarterly deviation (excursion) reports shall be submitted to the Ohio EPA Central District Office by January 31, April 30, July 31 and October 31 of each year and shall cover the previous

calendar quarter. If no deviations occurred during a calendar quarter, the permittee shall submit a report which states that no deviations occurred during the calendar quarter.

**V. Testing Requirements**

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

a. Emissions Limitation:  
9.7 lbs/hr of organic compounds (OC).

Applicable Compliance Method:  
Compliance has been demonstrated by multiplying the maximum hourly coating usage rate of 32.24 lbs paint used / hr by the maximum OC content of 0.3 lbs/lb of paint.

b. Emission Limitation:  
OC emissions from coatings shall not exceed 2.85 tons, as a 12-month rolling summation.

Applicable Compliance Method:  
Compliance shall be based upon the record keeping requirements as specified in Section A.III.

c. Emissions Limitation:  
0.3 pounds of OC per gallon of coating, excluding water and exempt solvents.

Applicable Compliance Method:  
Compliance with the OC content of the coatings applied in this emissions unit shall be determined through monthly record keeping, as specified in Section A.III. Formulation data from the coating manufacturer and/or, if required, USEPA Method 24 (or an alternative approved method) shall be used to determine the volatile organic compound content of the coatings, to be used in the calculation of emissions.

d. Emission Limitations:  
PE shall not exceed 0.96 lb of PE / hr.

Applicable Compliance Method:  
Compliance with the hourly particulate emissions limit shall be determined by adding the filtered emissions and the fugitive emissions from the paint booth. To determine the actual worst case particulate emissions rate, the following equation may be used:

$$E = (M)(1-TE)(CapE)(1-CE) + (F)$$

E = particulate emissions rate -

M = maximum coating solids usage rate - 32.24 lbs PE / hr

TE = transfer efficiency\* - 25%

CapE = capture efficiency of control equipment - 98%

CE = control efficiency of control equipment - 98%

F = fugitive emissions not captured by control equipment - 0.484 lb PE / hr

$$E = (32.24 \text{ lbs PE / hour})(1 - 0.25)(0.98)(1 - 0.98) + (0.484 \text{ lb PE / hr})$$

$$E = 0.957 \text{ lb PE / hr}$$

\* Transfer efficiency is the ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used.

If required, the permittee shall demonstrate compliance with this emission limitation through emissions tests performed in accordance with 40 CFR, Part 60, Appendix A, Methods 1 through 5, and the procedures specified in OAC rule 3745-17-03(B)(10).

- e. Emission Limitations:  
PE shall not exceed 4.2 tons/year.

Applicable Compliance Method:

The annual emission limitation was established by multiplying the hourly limitation by 8,760 hours/year and then dividing by 2,000 pounds/ton. Compliance with the annual emission limitation may be assumed as long as compliance with the hourly emission limitation is maintained.

- f. Emission Limitations:  
Visible PE from any stack shall not exceed 20% opacity, as a six-minute average, except as provided by rule.

Applicable Compliance Method:

If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A. Method 9 and the procedures are specified in OAC rule 3745-17-03(B)(1).

**VI. Miscellaneous Requirements**

None

**B. State Only Enforceable Section**

**I. 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>
K007 - Auto Spray Booth No. 3. The terms of this permit supercede those identified in PTI No. 01-08943 issued February 24, 2005.	None	None

2. **Additional Terms and Conditions**

- 2.a None

**II. Operational Restrictions**

None

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

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

Pursuant to Engineering Guide #69, modeling to demonstrate compliance with the Ohio EPA’s Air Toxic Policy was not necessary since 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

**Anchor Hocking CG Operating Company**

**PTI Application: 01-08964**

**Modification Issued: 6/21/2005**

**Facility ID: 0123010078**

**Emissions Unit ID: K007**

would result in an increase in emissions of any pollutant that has a listed TLV to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

**Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. State and Federally Enforceable Section**

**I. 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>
P012 - Decorating Lehr No.1. The terms of this permit supercede those identified in PTI No. 01-08943 issued February 24, 2005.	OAC rule 3745-31-05(A)(3)	Emissions shall not exceed:  0.03 lbs/hr and 0.1 ton/yr of PE;  0.32 lbs/hr and 1.4 ton/yr of NOx;  0.27 lbs/hr and 1.2 ton/yr of CO;  0.02 lbs/hr and 0.08 ton/yr of VOC;  0.002 lbs/hr and 0.01 ton/yr of SO <sub>2</sub> .
	OAC 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity as a six minute average.
	OAC rule 3745-17-11(B)	The emission limitation specified in this rule is less stringent than the emissions limitations established pursuant to OAC rule 3745-31-05(A)(3).

**2. Additional Terms and Conditions**

- 2.a Emission limitations were established to reflect the hourly and annual potential to emit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with these limits.

**II. Operational Restrictions**

1. The permittee shall burn only natural gas in this emissions unit.

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

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any visible emission incident; and
  - e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

If the daily checks show no visible emissions for 30 consecutive operating days, the required frequency of visible emissions checks may be reduced to weekly (once per week, when the emissions unit is in operation). If a subsequent check indicates visible emissions, the frequency of emissions checks shall revert to daily until such time as there are 30 consecutive operating days of no visible emissions.

### **IV. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted to the Ohio EPA, Central District Office within 30 days after the deviation occurs.
2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions. These reports shall be submitted to Ohio EPA, Central District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

**V. Testing Requirements**

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

- a. Emission Limitations:  
0.03 lbs/hr and 0.1 ton/yr of PE.

Applicable Compliance Method:

Compliance with the hourly particulate emissions limit shall be determined by multiplying the maximum hourly heat rate (3.245 mmBTU/hr) by 1 mmscf/1020 mmBTU by the AP-42 emissions factor (7.6 lbs PE/mmscf, AP-42, Chapter 1.4, July 1998).

Compliance with the annual particulate emissions limit shall be determined by multiplying the maximum hourly emissions (in lbs/hr) by 8760 hours per year and dividing by 2000 lbs/ton.

- b. Emissions Limitation:  
0.32 lbs/hr and 1.4 ton/yr of NO<sub>x</sub>.

Applicable Compliance Method:

Compliance with the hourly NO<sub>x</sub> limit shall be determined by multiplying the maximum hourly heat rate (3.245 mmBTU/hr) by 1 mmscf/1020 mmBTU by the AP-42 emissions factor (100 lbs NO<sub>x</sub>/mmscf, AP-42, Chapter 1.4, July 1998).

Compliance with the annual NO<sub>x</sub> limit shall be determined by multiplying the maximum hourly emissions (in lbs/hr) by 8760 hours per year and dividing by 2000 lbs/ton.

- c. Emissions Limitation:  
0.27 lbs/hr and 1.2 ton/yr of CO.

Applicable Compliance Method:

Compliance with the hourly CO limit shall be determined by multiplying the maximum hourly heat rate (3.245 mmBTU/hr) by 1 mmscf/1020 mmBTU by the AP-42 emissions factor (84 lbs CO/mmscf, AP-42, Chapter 1.4, July 1998).

Compliance with the annual CO limit shall be determined by multiplying the maximum hourly emissions (in lbs/hr) by 8760 hours per year and dividing by 2000 lbs/ton.

- d. Emissions Limitation:  
0.02 lbs/hr and 0.08 ton/yr of VOC.

Applicable Compliance Method:

Compliance with the hourly VOC limit shall be determined by multiplying the maximum hourly heat rate (3.245 mmBTU/hr) by 1 mmscf/1020 mmBTU by the AP-42 emissions factor (5.5 lbs VOC/mmscf, AP-42, Chapter 1.4, July 1998).

Compliance with the annual VOC limit shall be determined by multiplying the maximum hourly emissions (in lbs/hr) by 8760 hours per year and dividing by 2000 lbs/ton.

- e. Emissions Limitation:  
0.002 lbs/hr and 0.01 ton/yr of SO<sub>2</sub>.

Applicable Compliance Method:

Compliance with the hourly SO<sub>2</sub> limit shall be determined by multiplying the maximum hourly heat rate (3.245 mmBTU/hr) by 1 mmscf/1020 mmBTU by the AP-42 emissions factor (0.6 lbs SO<sub>2</sub>/mmscf, AP-42, Chapter 1.4, July 1998).

Compliance with the annual SO<sub>2</sub> limit shall be determined by multiplying the maximum hourly emissions (in lbs/hr) by 8760 hours per year and dividing by 2000 lbs/ton.

- f. Emissions Limitation:  
Visible PE from any stack shall not exceed 20% opacity, as a six-minute average, except as provided by rule.

Applicable Compliance Method:

If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A. Method 9 and the procedures are specified in OAC rule 3745-17-03(B)(1).

**VI. Miscellaneous Requirements**

None

**B. State Only Enforceable Section**

**I. 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>
P012 - Decorating Lehr No.1. The terms of this permit supercede those identified in PTI No. 01-08943 issued February 24, 2005.	OAC rule 3745-31-05(A)(3)	None

2. **Additional Terms and Conditions**

- 2.a None

**II. Operational Restrictions**

None

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

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

**Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. State and Federally Enforceable Section**

**I. 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>
P013 - Decorating Lehr No.2. The terms of this permit supercede those identified in PTI No. 01-08943 issued February 24, 2005.	OAC rule 3745-31-05(A)(3)	Emissions shall not exceed:  0.03 lbs/hr and 0.1 ton/yr of PE;  0.32 lbs/hr and 1.4 ton/yr of NOx;  0.27 lbs/hr and 1.2 ton/yr of CO;  0.02 lbs/hr and 0.08 ton/yr of VOC;  0.002 lbs/hr and 0.01 ton/yr of SO <sub>2</sub> .
	OAC 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity as a six minute average.
	OAC rule 3745-17-11(B)	The emission limitation specified in this rule is less stringent than the emissions limitations established pursuant to OAC rule 3745-31-05(A)(3).

**2. Additional Terms and Conditions**

- 2.a Emission limitations were established to reflect the hourly and annual potential to emit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with these limits.

**II. Operational Restrictions**

1. The permittee shall burn only natural gas in this emissions unit.

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

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any visible emission incident; and
  - e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

If the daily checks show no visible emissions for 30 consecutive operating days, the required frequency of visible emissions checks may be reduced to weekly (once per week, when the emissions unit is in operation). If a subsequent check indicates visible emissions, the frequency of emissions checks shall revert to daily until such time as there are 30 consecutive operating days of no visible emissions.

#### **IV. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted to the Ohio EPA, Central District Office within 30 days after the deviation occurs.
2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions. These reports shall be submitted to Ohio EPA, Central District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

**V. Testing Requirements**

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

- a. Emission Limitations:  
0.03 lbs/hr and 0.1 ton/yr of PE.

Applicable Compliance Method:

Compliance with the hourly particulate emissions limit shall be determined by multiplying the maximum hourly heat rate (3.245 mmBTU/hr) by 1 mmscf/1020 mmBTU by the AP-42 emissions factor (7.6 lbs PE/mmscf, AP-42, Chapter 1.4, July 1998).

Compliance with the annual particulate emissions limit shall be determined by multiplying the maximum hourly emissions (in lbs/hr) by 8760 hours per year and dividing by 2000 lbs/ton.

- b. Emissions Limitation:  
0.32 lbs/hr and 1.4 ton/yr of NO<sub>x</sub>.

Applicable Compliance Method:

Compliance with the hourly NO<sub>x</sub> limit shall be determined by multiplying the maximum hourly heat rate (3.245 mmBTU/hr) by 1 mmscf/1020 mmBTU by the AP-42 emissions factor (100 lbs NO<sub>x</sub>/mmscf, AP-42, Chapter 1.4, July 1998).

Compliance with the annual NO<sub>x</sub> limit shall be determined by multiplying the maximum hourly emissions (in lbs/hr) by 8760 hours per year and dividing by 2000 lbs/ton.

- c. Emissions Limitation:  
0.27 lbs/hr and 1.2 ton/yr of CO.

Applicable Compliance Method:

Compliance with the hourly CO limit shall be determined by multiplying the maximum hourly heat rate (3.245 mmBTU/hr) by 1 mmscf/1020 mmBTU by the AP-42 emissions factor (84 lbs CO/mmscf, AP-42, Chapter 1.4, July 1998).

Compliance with the annual CO limit shall be determined by multiplying the maximum hourly emissions (in lbs/hr) by 8760 hours per year and dividing by 2000 lbs/ton.

- d. Emissions Limitation:  
0.02 lbs/hr and 0.08 ton/yr of VOC.

Applicable Compliance Method:

Compliance with the hourly VOC limit shall be determined by multiplying the maximum hourly heat rate (3.245 mmBTU/hr) by 1 mmscf/1020 mmBTU by the AP-42 emissions factor (5.5 lbs VOC/mmscf, AP-42, Chapter 1.4, July 1998).

Compliance with the annual VOC limit shall be determined by multiplying the maximum hourly emissions (in lbs/hr) by 8760 hours per year and dividing by 2000 lbs/ton.

- e. Emissions Limitation:  
0.002 lbs/hr and 0.01 ton/yr of SO<sub>2</sub>.

Applicable Compliance Method:

Compliance with the hourly SO<sub>2</sub> limit shall be determined by multiplying the maximum hourly heat rate (3.245 mmBTU/hr) by 1 mmscf/1020 mmBTU by the AP-42 emissions factor (0.6 lbs SO<sub>2</sub>/mmscf, AP-42, Chapter 1.4, July 1998).

Compliance with the annual SO<sub>2</sub> limit shall be determined by multiplying the maximum hourly emissions (in lbs/hr) by 8760 hours per year and dividing by 2000 lbs/ton.

- f. Emissions Limitation:  
Visible PE from any stack shall not exceed 20% opacity, as a six-minute average, except as provided by rule.

Applicable Compliance Method:

If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A. Method 9 and the procedures are specified in OAC rule 3745-17-03(B)(1).

**VI. Miscellaneous Requirements**

None

**B. State Only Enforceable Section**

**I. 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>
P013 - Decorating Lehr No.2. The terms of this permit supercede those identified in PTI No. 01-08943 issued February 24, 2005.	None	None

2. **Additional Terms and Conditions**

- 2.a None

**II. Operational Restrictions**

None

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

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None