



State of Ohio Environmental Protection Agency

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

CERTIFIED MAIL

Street Address:

122 S. Front Street

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

Mailing Address:

Lazarus Gov. Center
P.O. Box 1049

Application No: 16-02148

DATE: 8/2/2001

CLS Finishing INC
Steven Geer
PO Box 239 409 South Munroe Falls Road
Tallmadge, OH 44278

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

The Ohio EPA is urging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469.

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

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

Very truly yours,

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

cc: USEPA

ARAQMD



**Permit To Install
Terms and Conditions**

**Issue Date: 8/2/2001
Effective Date: 8/2/2001**

FINAL PERMIT TO INSTALL 16-02148

Application Number: 16-02148
APS Premise Number: 1677120066
Permit Fee: **\$400**
Name of Facility: CLS Finishing INC
Person to Contact: Steven Geer
Address: PO Box 239 409 South Munroe Falls Road
Tallmadge, OH 44278

Location of proposed air contaminant source(s) [emissions unit(s)]:
**409 South Munroe Falls Road
Tallmadge, Ohio**

Description of proposed emissions unit(s):
MODIFICATION of 2 paint spray booths, K001 & K002, to allow coating plastic as well as metal parts.

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

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

Part I - GENERAL TERMS AND CONDITIONS

A. Permit to Install General Terms and Conditions

1. Compliance Requirements

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

2. Reporting Requirements Related to Monitoring and Record keeping Requirements

The permittee shall submit required reports in the following manner:

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

3. Records Retention Requirements

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

4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized

representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

5. Scheduled Maintenance/Malfunction Reporting

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

6. Permit Transfers

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

7. Air Pollution Nuisance

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

8. Termination of Permit to Install

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

9. Construction of New Sources(s)

The proposed emissions unit(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio

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

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

10. Public Disclosure

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

11. Applicability

This Permit to Install is applicable only to the emissions unit(s) identified in the Permit to Install. Separate application must be made to the Director for the installation or modification of any other emissions unit(s).

12. Best Available Technology

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

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

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within thirty (30) days after commencing operation of the emissions unit(s) covered by this permit.

CLS Finishing INC
 PTI Application: 16-02148
 Issued: 8/2/2001

Facility ID: 1677120066

14. Construction Compliance Certification

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

15. Fees

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

B. Permit to Install Summary of Allowable Emissions

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

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

<u>Pollutant</u>	<u>Tons Per Year</u>
OCs	30.0

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

A. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
K001 - Line 1 (formerly permitted in PTI 16-1810 issued February 18, 1999) coating miscellaneous metal & plastic parts, spray booth with exhaust fan filter elements to catch paint overspray, emissions of organic compounds & volatile organic compounds (OCs & VOCs) uncontrolled, MODIFICATION per PTI 16-02148 to allow coating plastic, which was not covered under PTI 16-1810	OAC rule 3745-31-05	8.5 pounds/hour & 15.0 tons/year of OCs. The permittee shall employ exhaust fan filter elements at all times this emissions unit is in operation.
	OAC rule 3745-21-07(G)(2)	When coating miscellaneous plastic parts, the following emission limits shall apply on any day photochemically reactive materials are used: 8 pounds/hour and 40 pounds/day of OCs.
	OAC rule 3745-21-09(U)(1)(d)	[Note: photochemically reactive material is defined in OAC rule 3745-21-01(C)(5).] When coating miscellaneous metal parts, the following emission limit shall apply: 3.5 pounds of VOCs per gallon of coating, excluding water and exempt solvents, for coatings dried at temperatures not exceeding 200

degrees Fahrenheit.

2. Additional Terms and Conditions

- 2.a** The above hourly OC emission limit (regulated per OAC rule 3745-31-05) is based on the potential to emit for this emissions unit, as determined from permit application data. Therefore, no record keeping, reporting, or emissions calculations are required to demonstrate compliance with this emission limit. However, if any proposed change(s), such as with coating formulations, maximum coating application rate capacity, cleanup materials, etc., or any other change(s), increase(s) the emissions unit's potential to emit, then the permittee shall apply for and obtain either a modification to the permit to install or a new final permit to install prior to making the change(s).

B. Operational Restrictions

NONE

C. Monitoring and/or Record keeping Requirements

- 1.** The permittee shall maintain annual records of the following information for the purpose of determining OC emissions from this emissions unit each calendar year:
- a. The name and identification of each coating (as applied, per final blend formulation), cleanup material, and any other organic solvent used;
 - b. The number of gallons of each coating (as applied, per final blend formulation), cleanup material, and any other organic solvent used;
 - c. The OC content of each coating (as applied, per final blend formulation), cleanup material, and any other organic solvent used, in pounds of OCs per gallon of respective coating (as applied, per final blend formulation), cleanup material, and any other organic solvent; and
 - d. The total OC emissions from all coatings (as applied, per final blend formulations), cleanup materials, and all other organic solvents used, in tons, i.e., $d = (\text{sum of } [b \times c])/2000$, respectively, for all coatings (as applied, per final blend formulations), cleanup materials, and all other organic solvents used.

Formulation data or USEPA Method 24 shall be used to determine the OC content of each coating (as applied, per final blend formulation), cleanup material, and any other organic solvent used.

2. When coating miscellaneous plastic parts, the permittee shall collect and record the following information each day photochemically reactive materials are used in the coating line:
- a. The company identification of each coating (as applied, per final blend formulation), photochemically reactive cleanup material, and any other organic solvent used;
 - b. The number of gallons of each coating (as applied, per final blend formulation), photochemically reactive cleanup material, and any other organic solvent used;
 - c. The OC content of each coating (as applied, per final blend formulation), photochemically reactive cleanup material, and any other organic solvent used, in pounds of OCs per gallon of respective coating (as applied, per final blend formulation), photochemically reactive cleanup material, and any other organic solvent;
 - d. The total OC emissions from all coatings (as applied, per final blend formulations), photochemically reactive cleanup materials, and all other organic solvents used, in pounds of OCs, i.e., $d = \text{sum of } [b \times c]$, respectively, for all coatings (as applied, per final blend formulation), photochemically reactive cleanup materials, and all other organic solvents used;
 - e. The total actual number of hours the emissions unit was in operation; and
 - f. The average hourly OC emission rate from all coatings (as applied, per final blend formulations), photochemically reactive cleanup materials, and all other organic solvents used, i.e., $f = d/e$, in pounds per hour (average).

Formulation data or USEPA Method 24 shall be used to determine the OC content of each coating (as applied, per final blend formulation), cleanup material, and any other organic solvent used.

3. When coating miscellaneous metal parts, the permittee shall collect and record the following information each day for the line:
- a. The name and identification number of each coating, as applied, per final blend formulation; and
 - b. The VOC content of each coating (excluding water and exempt solvents), as applied, per final blend formulation, in pounds of VOCs per gallon of coating.

USEPA Method 24 shall be used to determine the VOC content of each coating (as applied, per

final blend formulation) used.

4. The permit to install for K001 was evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxics Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: methyl n-amyl ketone CAS 110-43-0

TLV (ug/m3): 233,000

Maximum Average Hourly Emission Rate (lbs/hr): 8.5

Predicted 1-Hour Maximum Ground-Level Concentration at 212 m (ug/m3): 341

MAGLC (ug/m3): 5548

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

- a. Changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;
- b. Changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
- c. Physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the "Air Toxics Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-

Emissions Unit ID: **K001**

01(VV)(1)(a)(ii), and a modification of the existing permit to install will not be required. If the change(s) is (are) defined as a modification under other provisions of the modification definition (other than (VV)(1)(a)(ii)), then the permittee shall obtain a final permit to install prior to the change.

5. The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the emissions unit, if changed as outlined above, will still satisfy the "Air Toxics Policy":
 - a. A description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
 - b. Documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxics Policy"; and
 - c. Where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxics Policy" for the change.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify each calendar year during which the yearly OC emissions from this emissions unit exceeded 15.0 tons. The yearly OC emissions exceedance report shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 of each year.
2. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. For the days during which a photochemically reactive material was employed, an identification of each day during which the average hourly OC emissions from the coatings (as applied, per final blend formulations), photochemically reactive cleanup materials, and all other organic solvents exceeded 8 pounds per hour, and the actual average hourly OC emissions for each such day; and
 - b. For the days during which a photochemically reactive material was employed, an

identification of each day during which the OC emissions from the coatings (as applied, per final blend formulations), photochemically reactive cleanup materials, and all other organic solvents exceeded 40 pounds per day, and the actual OC emissions for each such day.

3. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any daily record showing the use of noncomplying coatings. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days following the end of the calendar month.
4. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition 2 of this permit.

E. Testing Requirements

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

- a. Emission Limitation: 8.5 pounds/hour of OCs

Applicable Compliance Method: the above hourly OC emission limit is based on the potential to emit, as demonstrated below.

$$E_h = (C_1)(C_{1c}) + (S_1)(S_{1c})(F);$$

Where:

E_h = 8.5 pounds/hour of OCs [hourly potential to emit OCs];

C_{1c} = 3.23 pounds of OCs/gallon of coating [highest OC content coating];

C_1 = 2 gallons/hour [potential coating application rate];

S_{1c} = 6.76 pounds of OCs/gallon of cleanup solvent [OC content of cleanup solvent];

S_1 = 600 gallons/year [maximum proposed cleanup solvent usage];

F = 1 year/2008 hours [adjusts yearly to maximum average hourly cleanup solvent use];

- b. Emission Limitation: 15.0 tons/year of OCs

Applicable Compliance Method: Compliance shall be demonstrated by the record keeping requirements of section C.1 above.

Emissions Unit ID: **K001**

- c. Emission Limitation: 8 pounds/hour and 40 pounds/day of OCs on any day photochemically reactive materials are used.

Applicable Compliance Method: Compliance shall be demonstrated by the record keeping requirements of section C.2 above.

- d. Emission Limitation: 3.5 pounds of VOCs per gallon of coating, excluding water and exempt solvents, for coatings dried at temperatures not exceeding 200 degrees Fahrenheit

Applicable Compliance Method: Compliance shall be based upon the record keeping requirements specified in section C.3 above. In accordance with OAC rule 3745-21-04(B)(5), USEPA Method 24 shall be used to determine the VOC contents of the coatings. If, pursuant to section 4.3 of Method 24, 40 CFR Part 60, Appendix A, an owner or operator determines that Method 24 cannot be used for a particular coating, the permittee shall so notify the Administrator of the USEPA and shall use formulation data for that coating to demonstrate compliance until the USEPA provides alternative analytical procedures or alternative precision statements for Method 24.

F. Miscellaneous Requirements

1. Permit to install (PTI) 16-02148 supersedes all of the requirements of PTI 16-1810 issued February 18, 1999 for K001 & K002.

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

A. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
K002 - Line 2 (formerly permitted in PTI 16-1810 issued February 18, 1999) coating miscellaneous metal & plastic parts, spray booth with exhaust fan filter elements to catch paint overspray, emissions of organic compounds & volatile organic compounds (OCs & VOCs) uncontrolled, MODIFICATION per PTI 16-02148 to allow coating plastic, which was not covered under PTI 16-1810	OAC rule 3745-31-05	8.5 pounds/hour & 15.0 tons/year of OCs. The permittee shall employ exhaust fan filter elements at all times this emissions unit is in operation.
	OAC rule 3745-21-07(G)(2)	When coating miscellaneous plastic parts, the following emission limits shall apply on any day photochemically reactive materials are used: 8 pounds/hour and 40 pounds/day of OCs. [Note: photochemically reactive material is defined in OAC rule 3745-21-01(C)(5).]
	OAC rule 3745-21-09(U)(1)(d)	When coating miscellaneous metal parts, the following emission limit shall apply: 3.5 pounds of VOCs per gallon of coating, excluding water and exempt solvents, for coatings dried at temperatures not exceeding 200 degrees Fahrenheit.

2. Additional Terms and Conditions

- 2.a** The above hourly OC emission limit (regulated per OAC rule 3745-31-05) is based on the potential to emit for this emissions unit, as determined from permit application data. Therefore, no record keeping, reporting, or emissions calculations are required to demonstrate compliance with this emission limit. However, if any proposed change(s), such as with coating formulations, maximum coating application rate capacity, cleanup materials, etc., or any other change(s), increase(s) the emissions unit's potential to emit, then the permittee shall apply for and obtain either a modification to the permit to install or a new final permit to install prior to making the change(s).

B. Operational Restrictions

NONE

C. Monitoring and/or Record keeping Requirements

- 1.** The permittee shall maintain annual records of the following information for the purpose of determining OC emissions from this emissions unit each calendar year:
- a. The name and identification of each coating (as applied, per final blend formulation), cleanup material, and any other organic solvent used;
 - b. The number of gallons of each coating (as applied, per final blend formulation), cleanup material, and any other organic solvent used;
 - c. The OC content of each coating (as applied, per final blend formulation), cleanup material, and any other organic solvent used, in pounds of OCs per gallon of respective coating (as applied, per final blend formulation), cleanup material, and any other organic solvent; and
 - d. The total OC emissions from all coatings (as applied, per final blend formulations), cleanup materials, and all other organic solvents used, in tons, i.e., $d = (\text{sum of } [b \times c])/2000$, respectively, for all coatings (as applied, per final blend formulations), cleanup materials, and all other organic solvents used.

Emissions Unit ID: **K002**

Formulation data or USEPA Method 24 shall be used to determine the OC content of each coating (as applied, per final blend formulation), cleanup material, and any other organic solvent used.

2. When coating miscellaneous plastic parts, the permittee shall collect and record the following information each day photochemically reactive materials are used in the coating line:
 - a. The company identification of each coating (as applied, per final blend formulation), photochemically reactive cleanup material, and any other organic solvent used;
 - b. The number of gallons of each coating (as applied, per final blend formulation), photochemically reactive cleanup material, and any other organic solvent used;
 - c. The OC content of each coating (as applied, per final blend formulation), photochemically reactive cleanup material, and any other organic solvent used, in pounds of OCs per gallon of respective coating (as applied, per final blend formulation), photochemically reactive cleanup material, and any other organic solvent;
 - d. The total OC emissions from all coatings (as applied, per final blend formulations), photochemically reactive cleanup materials, and all other organic solvents used, in pounds of OCs, i.e., $d = \text{sum of } [b \times c]$, respectively, for all coatings (as applied, per final blend formulation), photochemically reactive cleanup materials, and all other organic solvents used;
 - e. The total actual number of hours the emissions unit was in operation; and
 - f. The average hourly OC emission rate from all coatings (as applied, per final blend formulations), photochemically reactive cleanup materials, and all other organic solvents used, i.e., $f = d/e$, in pounds per hour (average).

Formulation data or USEPA Method 24 shall be used to determine the OC content of each coating (as applied, per final blend formulation), cleanup material, and any other organic solvent used.

3. When coating miscellaneous metal parts, the permittee shall collect and record the following information each day for the line:
 - a. The name and identification number of each coating, as applied, per final blend formulation; and
 - b. The VOC content of each coating (excluding water and exempt solvents), as applied, per

final blend formulation, in pounds of VOCs per gallon of coating.

USEPA Method 24 shall be used to determine the VOC content of each coating (as applied, per final blend formulation) used.

4. The permit to install for K002 was evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxics Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level

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

Pollutant: methyl n-amyl ketone CAS 110-43-0

TLV (ug/m3): 233,000

Maximum Average Hourly Emission Rate (lbs/hr): 8.5

Predicted 1-Hour Maximum Ground-Level Concentration at 227 m (ug/m3): 298

MAGLC (ug/m3): 5548

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

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

Emissions Unit ID: **K002**

- b. Changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and
- c. Physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

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

- 5. The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the emissions unit, if changed as outlined above, will still satisfy the "Air Toxics Policy":
 - a. A description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
 - b. Documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxics Policy"; and
 - c. Where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxics Policy" for the change.

D. Reporting Requirements

- 1. The permittee shall submit deviation (excursion) reports which identify each calendar year during which the yearly OC emissions from this emissions unit exceeded 15.0 tons. The yearly OC emissions exceedance report shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 of each year.
- 2. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. For the days during which a photochemically reactive material was employed, an identification of each day during which the average hourly OC emissions from the coatings (as applied, per final blend formulations), photochemically reactive cleanup materials, and

all other organic solvents exceeded 8 pounds per hour, and the actual average hourly OC emissions for each such day; and

- b. For the days during which a photochemically reactive material was employed, an identification of each day during which the OC emissions from the coatings (as applied, per final blend formulations), photochemically reactive cleanup materials, and all other organic solvents exceeded 40 pounds per day, and the actual OC emissions for each such day.
3. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any daily record showing the use of noncomplying coatings. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days following the end of the calendar month.
 4. The deviation reports shall be submitted in accordance with the requirements specified in Part I - General Term and Condition 2 of this permit.

E. Testing Requirements

1. Compliance with the emission limitations in section A.1 of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation: 8.5 pounds/hour of OCs

Applicable Compliance Method: the above hourly OC emission limit is based on the potential to emit, as demonstrated below.

$$E_h = (C_1)(C_{1c}) + (S_1)(S_{1c})(F);$$

Where:

E_h = 8.5 pounds/hour of OCs [hourly potential to emit OCs];
 C_{1c} = 3.23 pounds of OCs/gallon of coating [highest OC content coating];
 C_1 = 2 gallons/hour [potential coating application rate];

Emissions Unit ID: **K002**

S1c = 6.76 pounds of OCs/gallon of cleanup solvent [OC content of cleanup solvent];
S1 = 600 gallons/year [maximum proposed cleanup solvent usage];
F = 1 year/2008 hours [adjusts yearly to maximum average hourly cleanup solvent use];

- b. Emission Limitation: 15.0 tons/year of OCs

Applicable Compliance Method: Compliance shall be demonstrated by the record keeping requirements of section C.1 above.

- c. Emission Limitation: 8 pounds/hour and 40 pounds/day of OCs on any day photochemically reactive materials are used.

Applicable Compliance Method: Compliance shall be demonstrated by the record keeping requirements of section C.2 above.

- d. Emission Limitation: 3.5 pounds of VOCs per gallon of coating, excluding water and exempt solvents, for coatings dried at temperatures not exceeding 200 degrees Fahrenheit

Applicable Compliance Method: Compliance shall be based upon the record keeping requirements specified in section C.3 above. In accordance with OAC rule 3745-21-04(B)(5), USEPA Method 24 shall be used to determine the VOC contents of the coatings. If, pursuant to section 4.3 of Method 24, 40 CFR Part 60, Appendix A, an owner or operator determines that Method 24 cannot be used for a particular coating, the permittee shall so notify the Administrator of the USEPA and shall use formulation data for that coating to demonstrate compliance until the USEPA provides alternative analytical procedures or alternative precision statements for Method 24.

F. Miscellaneous Requirements

1. Permit to install (PTI) 16-02148 supersedes all of the requirements of PTI 16-1810 issued February 18, 1999 for K001 & K002.