



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL  
JACKSON 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: 06-06868**

**DATE:** 6/18/2002

Perfection One Collision Center  
Richard Rhoades  
225 Island Dr  
Circleville, OH 43113

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

SEDO



---

**Permit To Install  
Terms and Conditions**

**Issue Date: 6/18/2002  
Effective Date: 6/18/2002**

---

**FINAL PERMIT TO INSTALL 06-06868**

Application Number: 06-06868  
APS Premise Number: 0640010106  
Permit Fee: **\$200**  
Name of Facility: Perfection One Collision Center  
Person to Contact: Richard Rhoades  
Address: 225 Island Dr  
          Circleville, OH 43113

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**11069 Chillicothe Pike  
Jackson, Ohio**

Description of proposed emissions unit(s):  
**Heated Paint Booth.**

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

**Perfection One Collision Center**  
**PTI Application: 06-06868**  
**Issued: 6/18/2002**

**Facility ID: 0640010106**

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.

Perfection One Collision Center  
 PTI Application: 06-06868  
 Issued: 6/18/2002

Facility ID: 0640010106

#### 14. Construction Compliance Certification

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

#### 15. Fees

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

### B. Permit to Install Summary of Allowable Emissions

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

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

<u>Pollutant</u>	<u>Tons Per Year</u>
VOC	24.8
PE	2.41

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

**A. Applicable Emissions Limitations and/or Control Requirements**

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
R001 - Auto Paint Booth with 1.2 MMBtu Drying Heater	OAC rule 3745-31-05(A)(3)	VOC emissions shall not exceed 5.65 lbs/hr or 24.8 TPY See B.1 below.  Compliance with the Air Toxics Policy  Requirements of this rule also include compliance with the requirements of OAC rule 3745-17-11(B)(1) and OAC rule 3745-17-07(A).
	OAC rule 3745-21-09(U)(1)	Exempt from the emission limitation(s) in OAC rule 3745-21-09(U)(1) pursuant to OAC rule 3745-21-09(U)(2)(c).
	OAC rule 3745-17-11(B)(1) (Table 1)	Particulate emissions shall not exceed 0.551 lb/hr or 2.41 TPY
	OAC rule 3745-17-07(A)	Visible Particulate emissions shall not exceed 20% opacity as a six-minute average, except as specified by rule

**2. Additional Terms and Conditions**

**2.a** None

**B. Operational Restrictions**

1. The permittee shall use the fabric filter on the emissions unit's exhaust outlet when the emissions unit is in operation.

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

1. The permittee shall collect and record the following information each day for the coating line:
  - a. The company identification of each surface coating applied;
  - b. The total number of gallons of each surface coating employed;
  - c. The VOC content, in pounds of VOC per gallon of coating, as applied;
  - d. The total VOC emissions from all coatings and cleanup materials, in pounds per day;
  - e. The total number of hours the emissions unit was in operation;
  - f. The average hourly VOC emission rate for all coatings and cleanup materials, i.e., d/e; and
  - g. Documentation for each coating and cleanup material as to whether it is or is not a photochemically reactive material as defined by OAC rule 3745-21-01(C)(5); and
2. The permittee shall maintain records that specify the total annual VOC emissions, in TPY, i.e., the summation of the daily emissions calculated in section A.III.1.d for all days in the calendar year, divided by 2000 lbs/ton.
3. The permittee shall maintain daily records that document any time periods when the dry filtration system was not in service when the emissions unit was in operation, and coating was being applied.
4. The permit to install for this emissions unit, R001, was evaluated based on the actual materials (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. The Ohio EPA's "Review of New Sources of Air Toxic Emissions" policy ("Air Toxic Policy") was applied for each pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the

Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: toluene

TLV (mg/m<sup>3</sup>): 188.4 mg/m<sup>3</sup>

Maximum Hourly Emission Rate (lbs/hr): 2.64 lbs/hr

Predicted 1-Hour Maximum Ground-Level  
Concentration (ug/m<sup>3</sup>): 870.3 ug/m<sup>3</sup>

MAGLC (ug/m<sup>3</sup>): 4,485 ug/m<sup>3</sup>

Pollutant: Xylene

TLV (mg/m<sup>3</sup>): 434.2 mg/m<sup>3</sup>

Maximum Hourly Emission Rate (lbs/hr): 1.58 lbs/hr

Predicted 1-Hour Maximum Ground-Level  
Concentration (ug/m<sup>3</sup>): 521.5 ug/m<sup>3</sup>

MAGLC (ug/m<sup>3</sup>): 10,338 ug/m<sup>3</sup>

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 Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be still satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:

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

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

If the permittee determines that the "Air Toxic Policy" will be satisfied 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 changed emissions unit will still satisfy the "Air Toxic Policy:"
  - a. A description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);
  - b. Documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and,
  - c. Where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

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

1. The permittee shall notify the Ohio EPA Southeast District Office, in writing, of any daily record showing more than the allowable average hourly VOC limit. The notification shall include a copy of such record and shall be sent to the Ohio EPA Southeast District Office within 30 days after the exceedance occurs.
2. The permittee shall submit annual reports that specify the total VOC emissions from this emissions unit for the previous calendar year. Annual reports shall be submitted by January 31 of each year.
3. The permittee shall submit deviation (excursion) reports that identify all days when this emissions unit was in operation and the filtration system was not in service. Deviation (excursion) reports shall be submitted within 30 days of the occurrence and specify the time and duration of the event, the cause of the event, the amount of emission(s) released during the event, and the corrective actions taken. If no deviations (excursions) occurred during a calendar year, the permittee shall include with the annual report a statement which states that no deviations (excursions) occurred during the calendar year.

#### **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: VOC emissions shall not exceed 5.65 lbs/hr.

Applicable Compliance Method: Compliance with these emission limitations shall be determined based upon the records required pursuant to Section C. Formulation data or USEPA Method 24 shall be used to determine the VOC content of the coatings and cleanup materials.

- b. Emission Limitation: VOC emissions shall not exceed 24.8 tons/yr.

Applicable Compliance Method: Compliance with these emission limitations shall be determined based upon the records required pursuant to Section C. Formulation data or USEPA Method 24 shall be used to determine the VOC content of the coatings and cleanup materials.

- c. Emission Limitation: Particulate emissions shall not exceed 0.551 lb/hr.

Applicable Compliance Method: To determine the actual worst case emission rate for particulates, the following equation shall be used:

$$E = (M) * (1-TE) * (1-CE)$$

where:

E = particulate matter emission rate (lb/hr),

M = maximum coating solids usage rate (lb/hr),

TE = transfer efficiency of coating equipment (ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used, 0.65 for HVLP spray guns),

CE = control efficiency of the control equipment (90% for panel filters). If more than one piece of control equipment is used in series, the equation should be multiplied by additional (1-CE) terms for each additional piece of equipment.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10).

- d. Emission Limitation: Particulate emissions shall not exceed 2.41 TPY

Applicable Compliance Method: Compliance with the TPY PE emissions limitation shall

be determined by multiplying the pound per hour emission rate by 8760 hours per year and 0.0005 ton per pound.

- e. Emission Limitation: Visible Particulate emissions shall not exceed 20% opacity as a six-minute average, except as specified by rule.

Applicable Compliance Method: Compliance with the 20% opacity limit shall be determined using Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

- f. Compliance with the air toxics requirements have been determined by modeling the maximum total emission rate for this emissions unit to determine the predicted 1-hour maximum ground-level concentration at the fenceline. Therefore, the hourly emission rates can not be exceeded under current conditions. As required above and by OAC rule 3745-31-02, any change in the coatings used or in the operation of the emissions unit which would increase the emission rate of any individual air toxic would require a new permit to install.

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

None

**NEW SOURCE REVIEW FORM B**

PTI Number: 06-06868 Facility ID: 0640010106

FACILITY NAME Perfection One Collision Center

FACILITY DESCRIPTION Paint booth with oven. CITY/TWP Jackson

SIC CODE 7532 SCC CODE 40202501 EMISSIONS UNIT ID R001

EMISSIONS UNIT DESCRIPTION Auto Paint Booth with 1.2 MMBtu Drying Heater

DATE INSTALLED 7/2002

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

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	Attainment	0.551 or less	2.41 or less	0.551 lb/hr	2.41
PM <sub>10</sub>					
Sulfur Dioxide					
Organic Compounds	Attainment	5.65 lb/hr	24.8	5.65 lb/hr	24.8
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? NESHAP? PSD? OFFSET POLICY?

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

**Enter Determination** enclosed heated booth with fabric filtersIS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? NO

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$ not specified

**TOXIC AIR CONTAMINANTS**

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

AIR TOXICS MODELING PERFORMED\*? X YES        NOIDENTIFY THE AIR CONTAMINANTS: Xylene & Tolune . Results were well below MAGLC values.