



State of Ohio Environmental Protection Agency

**RE: PERMIT TO INSTALL
FRANKLIN COUNTY**

CERTIFIED MAIL

Street Address:

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

Mailing Address:
Lazarus Gov.
Center

Application No: 01-7847

DATE: May 19, 1999

Atlas Industrial Contractors, Inc
Peter Taub
5275 Sinclair Road
Columbus, OH 43229

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 Director's 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
DAPC, CDO



**Permit To Install
Terms and
Conditions**

**Issue Date: May 19, 1999
Effective Date: May 19, 1999**

PERMIT TO INSTALL 01-7847

Application Number: 01-7847
APS Premise Number: 0125042240
Permit Fee: **\$400.00**
Name of Facility: Atlas Industrial Contractors, Inc
Person to Contact: Peter Taub
Address: 5275 Sinclair Road
Columbus, OH 43229

Location of proposed air contaminant source(s) [emissions unit(s)]:
**5275 Sinclair Road
Columbus, OHIO**

Description of proposed emissions unit(s):
PAINT SPRAY BOOTH #1 AND PAINT SPRAY BOOTH #2.

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

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

Part I - GENERAL TERMS AND CONDITIONS

A. Permit to Install General Terms and Conditions

1. Compliance Requirements

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

2. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

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

3. Records Retention Requirements

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

4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon

the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

5. Scheduled Maintenance/Malfunction Reporting

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

6. Permit Transfers

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

7. Air Pollution Nuisance

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

8. Termination of Permit to Install

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

9. Construction of New Sources(s)

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

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

10. Public Disclosure

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

11. Applicability

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

12. Best Available Technology

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

13. Source Operation and Operating Permit Requirements After Completion of

Atlas Industrial Contractors, Inc
PTI Application: 01-7847
May 19, 1999

Facility ID: 0125042240

Construction

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

14. Construction Compliance Certification

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

15. Fees

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

B. Permit to Install Summary of Allowable Emissions

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

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

<u>Pollutant</u>	<u>Tons Per Year</u>
VOC	25.24
Total HAPs	17.39

PART II: SPECIAL TERMS AND CONDITIONS

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>
Paint Spray Booth No.1	OAC rule 3745-31-05	<p>Volatile organic compound emissions from application of coating and cleanup materials in this emissions unit shall not exceed 16.81 pounds per hour, and 12.62 tons per year, respectively.</p> <p>Total HAP emissions from K001 and K002 shall not exceed 24.9 tons per rolling 12-month period.</p> <p>Individual HAP emissions from K001 and K002 shall not exceed 9.9 tons per rolling 12-month period.</p>
	OAC rule 3745-21-09(U)(1)(d)	<p>See Operational Restrictions B.1 through B.4 below.</p> <p>The daily volume-weighted average VOC content of coatings used in this emissions unit shall not exceed 3.5 pounds of VOC per gallon of coating, excluding water and exempt solvents.</p> <p>See Additional Terms and</p>

8

Atlas I
PTI A1
May 19, 1999

Emissions Unit ID: **K001**

Conditions.

2. Additional Terms and Conditions

2.a None.

B. Operational Restrictions

1. The maximum annual coating usage for emissions unit K001 shall not exceed 6,000 gallons per year, based upon a rolling, 12-month summation of the monthly coating usage figures.

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

<u>Month</u>	<u>Maximum Allowable Cumulative Coating Usage (gallons) K001</u>
1-1	750
1-2	1,500
1-3	2,250
1-4	2,750
1-5	3,250
1-6	3,750
1-7	4,250
1-8	4,750
1-9	5,250
1-10	5,500
1-11	5,750
1-12	6,000

After the first twelve 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 coating usage figures.

2. The maximum annual solvent (cleanup and thinning) usage for emissions unit K001 shall not exceed 600 gallons per year, based upon a rolling, 12-month summation of the monthly cleanup solvent usage figures.

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

<u>Month</u>	<u>Maximum Allowable Cumulative Solvent Usage (gallons) K001</u>
1-1	50
1-2	100

10

Atlas I
PTI A1
May 19, 1999

Emissions Unit ID: **K001**

1-3	150
1-4	200
1-5	250
1-6	300

1-7	350
1-8	400
1-9	450
1-10	500
1-11	550
1-12	600

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

3. The permittee shall keep the paint booth doors closed at all times when surface coatings are applied in this emissions unit.
4. This emissions unit shall be operated and maintained in accordance with the manufacturer's recommendations. Spray booth exhaust filters shall be maintained (changed or cleaned) regularly per manufacturer's recommendation in order to maintain the highest effective level of particulate emissions control. Maintenance of exhaust filters (cleaning and/or changing of filter elements) shall be recorded in an operations log maintained at this facility.

C. Monitoring and/or Record keeping Requirements

1. The permittee shall collect and record the following information each day for the coating line K001:
 - a. the name and identification number of each coating, as applied;
 - b. the VOC content of each coating (excluding water and exempt solvents), as applied; and,
 - c. the daily volume-weighted average VOC content of all coatings, as applied, calculated in accordance with the equation specified in paragraph (B)(9) of OAC rule 3745-21-10 for $C_{VOC,2}$.
2. The permittee shall maintain monthly records of the following information:
 - a. the coating usage for each month; and,
 - b. beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the coating usage figures.

Atlas Industrial Contractors, Inc

PTI Application: **01 7817**

May 1

Facility ID: **0125042240**

Emissions Unit ID: **K001**

Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative coating usage for each calendar month.

3. The permittee shall collect and record the following information each month for the purpose of determining annual VOC and HAP emissions from the coating line K001:

- a. the name and identification of each cleanup and thinner solvent employed;
- b. the total volume, in gallons, of each cleanup and thinner solvent employed; and,
- c. beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the cleanup and thinner solvent usage figures.

Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative cleanup and thinner solvent usage for each calendar month.

- d. the individual HAP content of each coating material, thinner and cleanup solvent, in pounds per gallon;
 - e. the individual and total HAP emissions from all coating materials, thinner and cleanup solvents employed, in pounds or tons; and,
 - f. the rolling, 12-month summations of the data required in item 3.e above.
4. The permittee shall collect and record the following information for each change where the air toxic modeling was required pursuant to the Air Toxic Policy:
- a. background data that describes the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.); and,
 - b. a copy of the resulting computer model runs that show the results of the application of the Air Toxic Policy for the change.

D. Reporting Requirements

1. The permittee shall notify the Ohio EPA Central District Office in writing of any daily record showing that the daily volume-weighted average VOC content exceeds the applicable limitation. The notification shall include a copy of such record and shall be sent to the Ohio EPA Central District Office within 45 days after the exceedance occurs.
2. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month coating usage limitation and, for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum

allowable cumulative coating usage limitation. These reports shall be sent to the Ohio EPA Central District Office within 45 days after the exceedance occurs.

3. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month cleanup and thinner solvent usage limitation and, for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum allowable cumulative cleanup and thinner solvent usage limitation. These reports shall be sent to the Ohio EPA Central District Office within 45 days after the exceedance occurs.

4. The permittee shall also submit annual reports which specify the total VOC emissions, and the individual and total HAP emissions from this emissions unit during the previous calendar year (i.e., January through December). These reports shall be submitted by January 31 of each year.

E. Testing Requirements

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

- a. Emissions Limitation:

The daily volume-weighted average VOC content of coatings used in this emissions unit shall not exceed 3.5 lbs VOC per gallon, excluding water and exempt solvents.

Applicable Compliance Method:

USEPA Method 24 shall be used to determine the VOC contents for all coatings. If, pursuant to section 4.3 of Method 24, 40CFR 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.

- b. Emissions Limitation:

Volatile organic compound emissions from application of coating and cleanup materials in this emissions unit shall not exceed 16.81 pounds per hour.

Applicable Compliance Method:

Compliance with the hourly VOC emissions limitation shall be demonstrated by multiplying the maximum hourly coating and cleanup solvent material usage, and the maximum VOC content of the coatings and cleanup solvents used.

$$\text{Hourly VOC Emissions} = [\{ \text{Hourly Coating Usage (gal/hr)} \times \text{Coating VOC Content (lbs VOC/gal)} \} + \{ \text{Hourly Cleanup Solvent Usage (gal/hr)} \times \text{Cleanup Solvent VOC Content (lbs VOC/gal)} \}]$$

$$\text{Hourly VOC Emissions} = [\{ 3.0 \text{ gal/hr} \times 5.0 \text{ lbs VOC/gal} \} + \{ 0.25 \text{ gal/hr} \times 7.25$$

Atlas Industrial Contractors, Inc

PTI Application: **01 7817**

May 1

Facility ID: **0125042240**

Emissions Unit ID: **K001**

lbs VOC/gal}]

Hourly VOC Emissions = 16.81 lbs VOC/gal

This limitation represents the maximum hourly potential to emit, therefore no record keeping is necessary to show compliance with this limitation.

c. Emissions Limitation:

Volatile organic compound emissions from application of coating and cleanup materials in this emissions unit shall not exceed 12.62 tons VOC per year.

Applicable Compliance Method:

Compliance with the annual VOC emissions limitation shall be demonstrated from annual coating and cleanup solvent usage records, and the VOC content of the coatings and cleanup solvents used.

$$\text{Annual VOC Emissions} = [\{\text{Annual Coating Usage (gal/yr)} \times \text{Coating VOC Content (lbs VOC/gal)}\} + \{\text{Annual Cleanup Solvent Usage (gal/yr)} \times \text{Cleanup Solvent VOC Content (lbs VOC/gal)}\} \times 1 \text{ ton} / 2,000 \text{ pounds}]$$

$$\text{Maximum Annual VOC Emissions} = \Sigma[\{\text{Qca} \times \text{Vc} + \text{Qsa} \times \text{Vs}\} / 2,000]_i, \text{ in tons VOC per year}$$

where,

Qch = Quantity of each coating used annually, in gallons per year

Qsh = Quantity of each solvent used annually, in gallons per year

Vs = VOC content of each coating, in pounds VOC per gallon

Vs = VOC content of each solvent, in pounds VOC per gallon

i = individual coating or cleanup solvent

F. Miscellaneous Requirements

1. This permit allows the use of materials (typically coatings and cleanup materials) specified by the permittee in the permit to install application for this emissions unit. To fulfill the best available technology requirements of (OAC) rule 3745-31-05 and to ensure compliance with OAC rule 3745-15-07 (Air Pollution Nuisances Prohibited), the emission limitation(s) specified in this permit was (were) established using the Ohio EPA's "Air Toxic Policy" and is (are) based on both the materials used and the design parameters of the emissions unit's exhaust system, as specified in the application. The Ohio EPA's "Air Toxic Policy" was applied for each pollutant using the SCREEN 3.0 model and comparing the predicted 1-hour maximum ground-level concentration to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for each pollutant:
 - a. Pollutant: Xylene

TLV (ug/m3): 435

Maximum Hourly Emission Rate (lbs/hr): 6.60 lbs/hr

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 3,637

MAGLC (ug/m3): 10,357

- b. Pollutant: Stoddard Solvent

TLV (ug/m3): 525

Maximum Hourly Emission Rate (lbs/hr): 1.41 lbs/hr

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 777

MAGLC (ug/m3): 12,500

- c. Pollutant: Trimethyl benzene

TLV (ug/m3): 125

Maximum Hourly Emission Rate (lbs/hr): 1.75 lbs/hr

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 963.8

MAGLC (ug/m3): 2,976

- d. Pollutant: 2-Heptanone

TLV (ug/m3): 235

Maximum Hourly Emission Rate (lbs/hr): 3.50 lbs/hr

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 1,928

MAGLC (ug/m3): 5,595

OAC Chapter 3745-31 requires the permittee to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by the OAC rule

Atlas Industrial Contractors, Inc

PTI Application: **01 7817**

May 1

Facility ID: **0125042240**

Emissions Unit ID: **K001**

3745-31-01. The permittee is hereby advised that the following changes to the process may be determined to be a "modification":

- a. changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value specified in the above table;
- b. changes to the emissions unit or its exhaust parameters (e.g., increased emission rate [not including an increase in an "allowable" emission limitation specified in the terms and conditions of this permit], reduced exhaust gas flow rate, and decreased stack height);

- c. changes in the composition of the materials used, or use of new materials, that would result in the emission of an air contaminant not previously permitted; and,
- d. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant that has a listed TLV.

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

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

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

PART II: SPECIAL TERMS AND CONDITIONS [Continued]

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>
Paint Spray Booth No.2	OAC rule 3745-31-05	Volatile organic compound emissions from application of coating and cleanup materials in this emissions unit shall not exceed 16.81 pounds per hour, and 12.62 tons per year, respectively.
		Total HAP emissions from K001 and K002 shall not exceed 24.9 tons per rolling 12-month period.
		Individual HAP emissions from K001 and K002 shall not exceed 9.9 tons per rolling 12-month period.
	OAC rule 3745-21-09(U)(1)(d)	See Operational Restrictions B.1 through B.4 below.
		The daily volume-weighted average VOC content of coatings used in this emissions unit shall not exceed 3.5 pounds of VOC per gallon of coating, excluding water and exempt solvents.

22

Atlas I
PTI A1
May 19, 1999

Emissions Unit ID: **K002**

See Additional Terms and
Conditions.

2. Additional Terms and Conditions

2.a None.

B. Operational Restrictions

1. The maximum annual coating usage for emissions unit K001 shall not exceed 6,000 gallons per year, based upon a rolling, 12-month summation of the monthly coating usage figures.

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

<u>Month</u>	<u>Maximum Allowable Cumulative Coating Usage (gallons) K001</u>
1-1	750
1-2	1,500
1-3	2,250
1-4	2,750
1-5	3,250
1-6	3,750
1-7	4,250
1-8	4,750
1-9	5,250
1-10	5,500
1-11	5,750
1-12	6,000

After the first twelve 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 coating usage figures.

2. The maximum annual solvent (cleanup and thinning) usage for emissions unit K001 shall not exceed 600 gallons per year, based upon a rolling, 12-month summation of the monthly cleanup solvent usage figures.

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

<u>Month</u>	<u>Maximum Allowable Cumulative Solvent Usage (gallons) K001</u>
1-1	50
1-2	100

Atlas Industrial Contractors, Inc

PTI Application: **01 7817**

May 1

Facility ID: **0125042240**

Emissions Unit ID: **K002**

1-3	150
1-4	200
1-5	250
1-6	300

1-7	350
1-8	400
1-9	450
1-10	500
1-11	550
1-12	600

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

3. The permittee shall keep the paint booth doors closed at all times when surface coatings are applied in this emissions unit.
4. This emissions unit shall be operated and maintained in accordance with the manufacturer's recommendations. Spray booth exhaust filters shall be maintained (changed or cleaned) regularly per manufacturer's recommendation in order to maintain the highest effective level of particulate emissions control. Maintenance of exhaust filters (cleaning and/or changing of filter elements) shall be recorded in an operations log maintained at this facility.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information each day for the coating line K001:
 - a. the name and identification number of each coating, as applied;
 - b. the VOC content of each coating (excluding water and exempt solvents), as applied; and,
 - c. the daily volume-weighted average VOC content of all coatings, as applied, calculated in accordance with the equation specified in paragraph (B)(9) of OAC rule 3745-21-10 for $C_{VOC,2}$.
2. The permittee shall maintain monthly records of the following information:
 - a. the coating usage for each month; and,
 - b. beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the coating usage

figures.

Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative coating usage for each calendar month.

3. The permittee shall collect and record the following information each month for the purpose of determining annual VOC and HAP emissions from the coating line K001:

- a. the name and identification of each cleanup and thinner solvent employed;
- b. the total volume, in gallons, of each cleanup and thinner solvent employed;
- c. beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling, 12-month summation of the cleanup and thinner solvent usage figures.

Also, during the first 12 calendar months of operation following the issuance of this permit, the permittee shall record the cumulative cleanup and thinner solvent usage for each calendar month.

- d. the individual HAP content of each coating material, thinner and cleanup solvent, in pounds per gallon;
 - e. the individual and total HAP emissions from all coating materials, thinner and cleanup solvents employed, in pounds or tons; and,
 - f. the rolling, 12-month summations of the data required in item 3.e above.
4. The permittee shall collect and record the following information for each change where the air toxic modeling was required pursuant to the Air Toxic Policy:
 - a. background data that describes the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.); and,
 - b. a copy of the resulting computer model runs that show the results of the application of the Air Toxic Policy for the change.

D. Reporting Requirements

1. The permittee shall notify the Ohio EPA Central District Office in writing of any daily record showing that the daily volume-weighted average VOC content exceeds the applicable limitation. The notification shall include a copy of such record and shall be sent to the Ohio EPA Central District Office within 45 days after the exceedance occurs.
2. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month coating usage limitation and, for the first 12 calendar months of

Atlas Industrial Contractors, Inc

PTI Application: **01 7817**

May 1

Facility ID: **0125042240**

Emissions Unit ID: **K002**

operation following the issuance of this permit, all exceedances of the maximum allowable cumulative coating usage limitation. These reports shall be sent to the Ohio EPA Central District Office within 45 days after the exceedance occurs.

3. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month cleanup and thinner solvent usage limitation and, for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum allowable cumulative cleanup and thinner solvent usage limitation. These reports shall be sent to the Ohio EPA Central District Office within 45 days after the exceedance occurs.

4. The permittee shall also submit annual reports which specify the total VOC emissions, and the individual and total HAP emissions from this emissions unit during the previous calendar year (i.e., January through December). These reports shall be submitted by January 31 of each year.

E. Testing Requirements

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

- a. Emissions Limitation:

The daily volume-weighted average VOC content of coatings used in this emissions unit shall not exceed 3.5 lbs VOC per gallon, excluding water and exempt solvents.

Applicable Compliance Method:

USEPA Method 24 shall be used to determine the VOC contents for all coatings. If, pursuant to section 4.3 of Method 24, 40CFR 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.

- b. Emissions Limitation:

Volatile organic compound emissions from application of coating and cleanup materials in this emissions unit shall not exceed 16.81 pounds per hour.

Applicable Compliance Method:

Compliance with the hourly VOC emissions limitation shall be demonstrated by multiplying the maximum hourly coating and cleanup solvent material usage, and the maximum VOC content of the coatings and cleanup solvents used.

$$\text{Hourly VOC Emissions} = [\{ \text{Hourly Coating Usage (gal/hr)} \times \text{Coating VOC Content (lbs VOC/gal)} \} + \{ \text{Hourly Cleanup Solvent Usage (gal/hr)} \times \text{Cleanup Solvent VOC Content (lbs VOC/gal)} \}]$$

$$\text{Hourly VOC Emissions} = [\{ 3.0 \text{ gal/hr} \times 5.0 \text{ lbs VOC/gal} \} + \{ 0.25 \text{ gal/hr} \times 7.25$$

30

Atlas I
PTI A1
May 19, 1999

Emissions Unit ID: **K002**

lbs VOC/gal}]

Hourly VOC Emissions = 16.81 lbs VOC/gal

This limitation represents the maximum hourly potential to emit, therefore no record keeping is necessary to show compliance with this limitation.

c. Emissions Limitation:

Volatile organic compound emissions from application of coating and cleanup materials in this emissions unit shall not exceed 12.62 tons VOC per year.

Applicable Compliance Method:

Compliance with the annual VOC emissions limitation shall be demonstrated from annual coating and cleanup solvent usage records, and the VOC content of the coatings and cleanup solvents used.

$$\text{Annual VOC Emissions} = \left[\left\{ \text{Annual Coating Usage (gal/yr)} \times \text{Coating VOC Content (lbs VOC/gal)} \right\} + \left\{ \text{Annual Cleanup Solvent Usage (gal/yr)} \times \text{Cleanup Solvent VOC Content (lbs VOC/gal)} \right\} \times 1 \text{ ton} / 2,000 \text{ pounds} \right]$$

$$\text{Maximum Annual VOC Emissions} = \sum [\{Q_{ca} \times V_c + Q_{sa} \times V_s\} / 2,000]_i, \text{ in tons VOC per year}$$

where,

Q_{ch} = Quantity of each coating used annually, in gallons per year

Q_{sh} = Quantity of each solvent used annually, in gallons per year

V_s = VOC content of each coating, in pounds VOC per gallon

V_s = VOC content of each solvent, in pounds VOC per gallon

i = individual coating or cleanup solvent

F. Miscellaneous Requirements

1. This permit allows the use of materials (typically coatings and cleanup materials) specified by the permittee in the permit to install application for this emissions unit. To fulfill the best available technology requirements of (OAC) rule 3745-31-05 and to ensure compliance with OAC rule 3745-15-07 (Air Pollution Nuisances Prohibited), the emission limitation(s) specified in this permit was (were) established using the Ohio EPA's "Air Toxic Policy" and is (are) based on both the materials used and the design parameters of the emissions unit's exhaust system, as specified in the application. The Ohio EPA's "Air Toxic Policy" was applied for each pollutant using the SCREEN 3.0 model and comparing the predicted 1-hour maximum ground-level concentration to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for each pollutant:

Atlas Industrial Contractors, Inc

PTI Application: 01 7017

May 1

Facility ID: 0125042240

Emissions Unit ID: K002

- a. Pollutant: Xylene
TLV (ug/m3): 435
Maximum Hourly Emission Rate (lbs/hr): 6.60 lbs/hr
Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 3,637
MAGLC (ug/m3): 10,357
- b. Pollutant: Stoddard Solvent
TLV (ug/m3): 525
Maximum Hourly Emission Rate (lbs/hr): 1.41 lbs/hr
Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 777
MAGLC (ug/m3): 12,500
- c. Pollutant: Trimethyl benzene
TLV (ug/m3): 125
Maximum Hourly Emission Rate (lbs/hr): 1.75 lbs/hr
Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 963.8
MAGLC (ug/m3): 2,976
- d. Pollutant: 2-Heptanone
TLV (ug/m3): 235
Maximum Hourly Emission Rate (lbs/hr): 3.50 lbs/hr
Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 1,928
MAGLC (ug/m3): 5,595

OAC Chapter 3745-31 requires the permittee to apply for and obtain a new or modified permit to

install prior to making a "modification" as defined by the OAC rule 3745-31-01. The permittee is hereby advised that the following changes to the process may be determined to be a "modification":

- a. changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value specified in the above table;
- b. changes to the emissions unit or its exhaust parameters (e.g., increased emission rate [not including an increase in an "allowable" emission limitation specified in the terms and conditions of this permit], reduced exhaust gas flow rate, and decreased stack height);
- c. changes in the composition of the materials used, or use of new materials, that would result in the emission of an air contaminant not previously permitted; and,
- d. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant that has a listed TLV.

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

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

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