



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL
PERRY 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: 06-07676

Fac ID: 0664000003

DATE: 1/18/2005

ITT Automotive Inc New Lex Plant
Pat Summers
2378 SR 345 NE
New Lexington, OH 43764

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
309 South Fourth Street, Room 222
Columbus, Ohio 43215

Sincerely,

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

CC: USEPA

SEDO



**Permit To Install
Terms and Conditions**

**Issue Date: 1/18/2005
Effective Date: 1/18/2005**

FINAL PERMIT TO INSTALL 06-07676

Application Number: 06-07676
Facility ID: 0664000003
Permit Fee: **\$400**
Name of Facility: ITT Automotive Inc New Lex Plant
Person to Contact: Pat Summers
Address: 2378 SR 345 NE
New Lexington, OH 43764

Location of proposed air contaminant source(s) [emissions unit(s)]:
**2378 State Route 345 NE
New Lexington, Ohio**

Description of proposed emissions unit(s):
Chapter 31 modification for PTI 06 5707 and PTI 06 4942.

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

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 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 Permit To Install for the installation or modification of any other emissions unit(s) are required for any emissions unit for which a Permit To Install is required.

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 ninety (90) days after commencing operation of the emissions unit(s) covered by this permit.

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14. Construction Compliance Certification

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

15. Fees

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

B. Permit to Install Summary of Allowable Emissions

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

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

<u>Pollutant</u>	<u>Tons Per Year</u>
VOC	32.0
HAP	5.0
PE	4.8

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>
K006 - Number 3 Inline Procoat	OAC rule 3745-31-05(A)(3)
	OAC rule 3745-21-09(B)(6)
	OAC rule 3745-17-11(A)(2)
	OAC rule 3745-17-07(A)

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Issued: 1/18/2005

Emissions Unit ID: **K006**

Applicable Emissions
Limitations/Control Measures

Particulate emissions (PE) shall not exceed 0.551 lbs/hr, 2.41 TPY.

Emissions of volatile organic compounds (VOC) from the coating operation shall not exceed 2.9 lbs/hr; 12.7 TPY.

Emissions of hazardous air pollutants (HAP) from the coating operation shall not exceed 0.22 lbs/hr; 1.0 TPY.

Emissions of VOC shall not exceed 6.6 TPY from cleanup operations for emissions units K006 and K007, combined.

Emissions of HAP shall not exceed 3.0 TPY from cleanup operations for emissions units K006 and K007, combined.

The coating line shall be located in a permanent total enclosure and the control equipment shall have an efficiency of not less than ninety per cent, by weight, for the VOC emissions vented to the control equipment.

See Section 2.a below.

Requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A).

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

See section 2.a., below.

The requirements established pursuant to this rule are equivalent to the requirements of OAC rule 3745-31-05(A)(3).

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

2. Additional Terms and Conditions

- 2.a** In lieu of complying with the pounds of VOC per gallon of solids limitations contained in paragraph (U) of OAC rule 3745-21-09, the permittee has chosen to comply with OAC rule 3745-21-09(B)(6). However, the overall control efficiency specified in OAC rule 3745-21-09(B)(6) is less stringent than the overall control efficiency which is identified as 'best available technology' as specified in OAC rule 3745-31-05(A)(3), above.

B. Operational Restrictions

None.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the thermal incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

The permittee shall collect and record the following information for each day for the control equipment:

- a. A log of operating time for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.
- b. All 3-hour blocks of time during which the average combustion temperature within the thermal incinerator, when the emissions unit was in operation, was more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated that the emissions unit was in compliance.
2. The permittee shall collect and record the following information each month for all coatings and cleanup materials employed:
- a. the name and identification;
- b. the number of gallons;

- c. the VOC content, as applied, in pounds per gallon;
- d. total HAP content, in pounds per gallon;
- e. the total uncontrolled VOC emissions from all cleanup materials employed [the sum of (b. times c.), for all cleanup materials], in tons;
- f. the calculated, controlled VOC emission rate for all cleanup materials, in tons. The controlled VOC emission rate shall be calculated using the overall control efficiency for the control equipment as determined during the most recent emission test;
- g. the updated total, year-to-date summation for total VOC emissions from all cleanup materials, in tons;
- h. the total uncontrolled VOC emissions from all coatings employed [the sum of (b. times c.), for all coatings], in tons;
- i. the calculated, controlled VOC emission rate for all coatings, in tons. The controlled VOC emission rate shall be calculated using the overall control efficiency for the control equipment as determined during the most recent emission test;
- j. the updated total, year-to-date summation for total VOC emissions from all coatings employed, in tons;
- k. the total uncontrolled HAP emissions from all cleanup materials employed [the sum of (b. times d.), for all cleanup materials], in tons;
- l. the calculated, controlled HAP emission rate for all cleanup materials, in tons. The controlled HAP emission rate shall be calculated using the overall control efficiency for the control equipment as determined during the most recent emission test;
- m. the updated total, year-to-date summation for total HAP emissions from all cleanup materials for emissions units K006 and K007, combined, in tons;
- n. the total uncontrolled HAP emissions from all coatings employed [the sum of (b. times d.), for all coatings], in tons;

(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(AAA)(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 (AAA)(1)(a)(ii)), then the permittee shall obtain a final permit to install prior to the change.

- 4. 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 submit quarterly summaries of the following records:
 - a. A log of operating time for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.
 - b. All 3-hour blocks of time during which the average combustion temperature within the thermal incinerator, when the emissions unit was in operation, was more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated that the emissions unit was in compliance.

These quarterly reports shall be submitted by April 30, July 31, October 31, and January 31, and shall cover the records for the previous calendar quarters.

2. The permittee shall submit annual reports which include the following information:
 - a. the total emissions of VOC from the coating operation, in tons;
 - b. the total emissions of HAP from the coating operation, in tons;
 - c. the total emissions of VOC from the cleanup operations for emissions units K006 and K007, combined, in tons; and
 - d. the total emissions of HAP from the cleanup operations for emissions units K006 and K007, combined, in tons.

These reports shall be submitted by January 31 of each year and shall include information for the previous calendar year.

E. Testing Requirements

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

Particulate emissions (PE) shall not exceed 0.551 lbs/hr, 2.41 TPY.

Applicable Compliance Method:

Compliance shall be demonstrated based on the maximum capacity of the spraying equipment and the conservative estimates of solids content, and transfer, capture and control efficiencies provided by the applicant, as shown in the following equation:

$$(2.83 \text{ gal/hr})(50 \% \text{ recirc.})(1.4 \text{ lb/gal solids})(1 - 0.35 \text{ xfer eff})(1 - 0.3 \text{ coating filter control eff})(1 - 0.4 \text{ oxidizer filter control eff}) = 0.54 \text{ lb/hr}$$

The annual limit was based on the hourly allowable emission rate at 8760 hr/yr:

$$(0.551 \text{ lb/hr})(8760 \text{ hr/yr})(0.0005 \text{ ton/lb}) = 2.41 \text{ TPY}$$

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b. Emission Limitation:

Emissions of VOC from the coating operation shall not exceed 2.9 lbs/hr.

Applicable Compliance Method:

Compliance shall be based upon the record keeping requirements specified in Section C.2. This limit was based on the permittee's application which showed the following maximum usage rates:

$$(2.83 \text{ gal/hr})(0.881 \text{ VOC})(9.08 \text{ lb/gal})(1 - 0.9 \text{ control eff}) = 2.3 \text{ lb/hr}$$

c. Emission Limitation:

Emissions of VOC from the coating operation shall not exceed 12.7 TPY.

Applicable Compliance Method:

Compliance shall be based upon the record keeping requirements specified in Section C.2. This limit was based on the hourly allowable emission rate at 8760 hr/yr:

$$(2.9 \text{ lb/hr})(8760 \text{ hr/yr})(0.0005 \text{ ton/lb}) = 12.7 \text{ TPY}$$

d. Emission Limitation:

Emissions of HAP from the coating operation shall not exceed 0.22 lbs/hr.

Applicable Compliance Method:

Compliance shall be based upon the record keeping requirements specified in Section C.2. This limit was based on the permittee's application which showed the following maximum usage rates:

$$(2.83 \text{ gal/hr})(0.8371 \text{ VOC})(8.57 \text{ lb/gal})(0.091 \text{ HAP/VOC})(1 - 0.9 \text{ control eff}) = 0.19 \text{ lb/hr}$$

e. Emission Limitation:

Emissions of HAP from the coating operation shall not exceed 1.0 TPY

Applicable Compliance Method:

Compliance shall be based upon the record keeping requirements specified in Section C.2. This limit was based on the hourly allowable emission rate at 8760 hr/yr:

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$$(0.22 \text{ lb/hr})(8760 \text{ hr/yr})(0.0005 \text{ ton/lb}) = 0.96 \text{ TPY}$$

f. Emission Limitation:

Emissions of VOC shall not exceed 6.6 TPY from cleanup operations for emissions units K006 and K007, combined.

Applicable Compliance Method:

Compliance shall be based upon the record keeping requirements specified in Section C.2. This limit was based on the permittee's application which showed the following maximum usage rates:

$$(3600 \text{ gal/yr})(7.33 \text{ lb/gal})(1 - 0.5 \text{ control eff})(0.0005 \text{ ton/lb}) = 6.6 \text{ TPY}$$

g. Emission Limitation:

Emissions of HAP shall not exceed 3.0 TPY from cleanup operations for emissions units K006 and K007, combined.

Applicable Compliance Method:

Compliance shall be based upon the record keeping requirements specified in Section C.2. This limit was based on the permittee's application which showed the following maximum usage rates:

$$(3600 \text{ gal/yr})(7.33 \text{ lb/gal})(0.455 \text{ HAP/VOC})(1 - 0.5 \text{ control eff})(0.0005 \text{ ton/lb}) = 3.0 \text{ TPY}$$

h. Emission Limitation:

The coating line shall be located in a permanent total enclosure and the control equipment shall have an efficiency of not less than ninety per cent, by weight, for the VOC emissions vented to the control equipment.

Applicable Compliance Method:

If required, capture and control efficiencies shall be determined according to the provisions of OAC rule 3745-21-10(C).

i. Emission Limitation:

Visible emissions shall not exceed 20% opacity as a six-minute average, except as

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specified by rule.

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Applicable Compliance Method:

If required, visible particulate emissions shall be determined according to test Method 9 as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources" as such appendix existed on July 1, 2002.

F. Miscellaneous Requirements

None.

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

A. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>
K007 - Number 1 Inline Procoat	OAC rule 3745-31-05(A)(3)
	OAC rule 3745-21-09(B)(6)
	OAC rule 3745-17-11(A)(2)
	OAC rule 3745-17-07(A)

Applicable Emissions
Limitations/Control Measures

Particulate emissions (PE) shall not exceed 0.551 lbs/hr, 2.41 TPY.

Emissions of volatile organic compounds (VOC) from the coating operation shall not exceed 2.9 lbs/hr; 12.7 TPY.

Emissions of hazardous air pollutants (HAP) from the coating operation shall not exceed 0.22 lbs/hr; 1.0 TPY.

Emissions of VOC shall not exceed 6.6 TPY from cleanup operations for emissions units K006 and K007, combined.

Emissions of HAP shall not exceed 3.0 TPY from cleanup operations for emissions units K006 and K007, combined.

The coating line shall be located in a permanent total enclosure and the control equipment shall have an efficiency of not less than ninety per cent, by weight, for the VOC emissions vented to the control equipment.

See Section 2.a below.

Requirements of this rule also include compliance with the requirements of OAC rule

3745-17-07(A).

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

See section 2.a., below.

The requirements established pursuant to this rule are equivalent to the requirements of OAC rule 3745-31-05(A)(3).

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

2. Additional Terms and Conditions

- 2.a In lieu of complying with the pounds of VOC per gallon of solids limitations contained in paragraph (U) of OAC rule 3745-21-09, the permittee has chosen to comply with OAC rule 3745-21-09(B)(6). However, the overall control efficiency specified in OAC rule 3745-21-09(B)(6) is less stringent than the overall control efficiency which is identified as 'best available technology' as specified in OAC rule 3745-31-05(A)(3), above.

B. Operational Restrictions

None.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the thermal incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

The permittee shall collect and record the following information for each day for the control equipment:

- a. A log of operating time for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.
 - b. All 3-hour blocks of time during which the average combustion temperature within the thermal incinerator, when the emissions unit was in operation, was more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated that the emissions unit was in compliance.
2. The permittee shall collect and record the following information each month for all coatings and cleanup materials employed:
- a. the name and identification;
 - b. the number of gallons;

- c. the VOC content, as applied, in pounds per gallon;
- d. total HAP content, in pounds per gallon;
- e. the total uncontrolled VOC emissions from all cleanup materials employed [the sum of (b. times c.), for all cleanup materials], in tons;
- f. the calculated, controlled VOC emission rate for all cleanup materials, in tons. The controlled VOC emission rate shall be calculated using the overall control efficiency for the control equipment as determined during the most recent emission test;
- g. the updated total, year-to-date summation for total VOC emissions from all cleanup materials, in tons;
- h. the total uncontrolled VOC emissions from all coatings employed [the sum of (b. times c.), for all coatings], in tons;
- i. the calculated, controlled VOC emission rate for all coatings, in tons. The controlled VOC emission rate shall be calculated using the overall control efficiency for the control equipment as determined during the most recent emission test;
- j. the updated total, year-to-date summation for total VOC emissions from all coatings employed, in tons;
- k. the total uncontrolled HAP emissions from all cleanup materials employed [the sum of (b. times d.), for all cleanup materials], in tons;
- l. the calculated, controlled HAP emission rate for all cleanup materials, in tons. The controlled HAP emission rate shall be calculated using the overall control efficiency for the control equipment as determined during the most recent emission test;
- m. the updated total, year-to-date summation for total HAP emissions from all cleanup materials for emissions units K006 and K007, combined, in tons;
- n. the total uncontrolled HAP emissions from all coatings employed [the sum of (b. times d.), for all coatings], in tons;

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- o. the calculated, controlled HAP emission rate for all coatings, in tons. The controlled HAP emission rate shall be calculated using the overall control efficiency for the control equipment as determined during the most recent emission test;
 - p. the updated total, year-to-date summation for total HAP emissions from all coatings employed for emissions units K006 and K007, combined, in tons.
3. 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: methyl ethyl ketone

TLV (mg/m³): 589.78

Maximum Hourly Emission Rate (lbs/hr): 5.38 (fugitive) + 0.8175 (stack)

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m³): 8577

MAGLC (ug/m³): 14,042

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(AAA)(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 (AAA)(1)(a)(ii)), then the permittee shall obtain a final permit to install prior to the change.

- 4. 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 submit quarterly summaries of the following records:
 - a. A log of operating time for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.
 - b. All 3-hour blocks of time during which the average combustion temperature within the thermal incinerator, when the emissions unit was in operation, was more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated that the emissions unit was in compliance.

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These quarterly reports shall be submitted by April 30, July 31, October 31, and January 31, and shall cover the records for the previous calendar quarters.

2. The permittee shall submit annual reports which include the following information:
 - a. the total emissions of VOC from the coating operation, in tons;
 - b. the total emissions of HAP from the coating operation, in tons;
 - c. the total emissions of VOC from the cleanup operations for emissions units K006 and K007, combined, in tons; and
 - d. the total emissions of HAP from the cleanup operations for emissions units K006 and K007, combined, in tons.

These reports shall be submitted by January 31 of each year and shall include information for the previous calendar year.

E. Testing Requirements

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

- a. Emission Limitation:

Particulate emissions (PE) shall not exceed 0.551 lbs/hr, 2.41 TPY.

Applicable Compliance Method:

Compliance shall be demonstrated based on the maximum capacity of the spraying equipment and the conservative estimates of solids content, and transfer, capture and control efficiencies provided by the applicant, as shown in the following equation:

$$(2.83 \text{ gal/hr})(50 \% \text{ recirc.})(1.4 \text{ lb/gal solids})(1 - 0.35 \text{ xfer eff})(1 - 0.3 \text{ coating filter control eff})(1 - 0.4 \text{ oxidizer filter control eff}) = 0.54 \text{ lb/hr}$$

The annual limit was based on the hourly allowable emission rate at 8760 hr/yr:

$$(0.551 \text{ lb/hr})(8760 \text{ hr/yr})(0.0005 \text{ ton/lb}) = 2.41 \text{ TPY}$$

- b. Emission Limitation:

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Emissions of VOC from the coating operation shall not exceed 2.9 lbs/hr.

Applicable Compliance Method:

Compliance shall be based upon the record keeping requirements specified in Section C.2. This limit was based on the permittee's application which showed the following maximum usage rates:

$$(2.83 \text{ gal/hr})(0.881 \text{ VOC})(9.08 \text{ lb/gal})(1 - 0.9 \text{ control eff}) = 2.3 \text{ lb/hr}$$

c. Emission Limitation:

Emissions of VOC from the coating operation shall not exceed 12.7 TPY.

Applicable Compliance Method:

Compliance shall be based upon the record keeping requirements specified in Section C.2. This limit was based on the hourly allowable emission rate at 8760 hr/yr:

$$(2.9 \text{ lb/hr})(8760 \text{ hr/yr})(0.0005 \text{ ton/lb}) = 12.7 \text{ TPY}$$

d. Emission Limitation:

Emissions of HAP from the coating operation shall not exceed 0.22 lbs/hr.

Applicable Compliance Method:

Compliance shall be based upon the record keeping requirements specified in Section C.2. This limit was based on the permittee's application which showed the following maximum usage rates:

$$(2.83 \text{ gal/hr})(0.8371 \text{ VOC})(8.57 \text{ lb/gal})(0.091 \text{ HAP/VOC})(1 - 0.9 \text{ control eff}) = 0.19 \text{ lb/hr}$$

e. Emission Limitation:

Emissions of HAP from the coating operation shall not exceed 1.0 TPY

Applicable Compliance Method:

Compliance shall be based upon the record keeping requirements specified in Section C.2. This limit was based on the hourly allowable emission rate at 8760 hr/yr:

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$$(0.22 \text{ lb/hr})(8760 \text{ hr/yr})(0.0005 \text{ ton/lb}) = 0.96 \text{ TPY}$$

f. Emission Limitation:

Emissions of VOC shall not exceed 6.6 TPY from cleanup operations for emissions units K006 and K007, combined.

Applicable Compliance Method:

Compliance shall be based upon the record keeping requirements specified in Section C.2. This limit was based on the permittee's application which showed the following maximum usage rates:

$$(3600 \text{ gal/yr})(7.33 \text{ lb/gal})(1 - 0.5 \text{ control eff})(0.0005 \text{ ton/lb}) = 6.6 \text{ TPY}$$

g. Emission Limitation:

Emissions of HAP shall not exceed 3.0 TPY from cleanup operations for emissions units K006 and K007, combined.

Applicable Compliance Method:

Compliance shall be based upon the record keeping requirements specified in Section C.2. This limit was based on the permittee's application which showed the following maximum usage rates:

$$(3600 \text{ gal/yr})(7.33 \text{ lb/gal})(0.455 \text{ HAP/VOC})(1 - 0.5 \text{ control eff})(0.0005 \text{ ton/lb}) = 3.0 \text{ TPY}$$

h. Emission Limitation:

The coating line shall be located in a permanent total enclosure and the control equipment shall have an efficiency of not less than ninety per cent, by weight, for the VOC emissions vented to the control equipment.

Applicable Compliance Method:

If required, capture and control efficiencies shall be determined according to the provisions of OAC rule 3745-21-10(C).

i. Emission Limitation:

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PTI Application: 06 07676

Issued

Facility ID: 0664000003

Emissions Unit ID: **K007**

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

Applicable Compliance Method:

If required, visible particulate emissions shall be determined according to test Method 9 as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources" as such appendix existed on July 1, 2002.

F. Miscellaneous Requirements

None.