



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL MODIFICATION
UNION COUNTY**

CERTIFIED MAIL

Street Address:

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

Mailing Address:

Lazarus Gov.
Center

Application No: 01-08167

DATE: 10/23/2001

Honda of America Manufacturing, Inc.
Cory Sander
24000 Honda Parkway
Marysville, OH 430409190

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

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

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

Very truly yours,

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

CC: USEPA

CDO



**Permit To Install
Terms and Conditions**

**Issue Date: 10/23/2001
Effective Date: 10/23/2001**

FINAL ADMINISTRATIVE MODIFICATION OF PERMIT TO INSTALL 01-08167

Application Number: 01-08167
APS Premise Number: 0180000130
Permit Fee: **\$400**
Name of Facility: Honda of America Manufacturing, Inc.
Person to Contact: Cory Sander
Address: 24000 Honda Parkway
Marysville, OH 430409190

Location of proposed air contaminant source(s) [emissions unit(s)]:
**24000 Honda Pkwy
Marysville, Ohio**

Description of proposed emissions unit(s):
Motorcycle powder coating, Line 2.

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

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

Part I - GENERAL TERMS AND CONDITIONS**A. State and Federally Enforceable Permit To Install General Terms and Conditions****1. Monitoring and Related Recordkeeping and Reporting Requirements**

- a. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:
 - i. The date, place (as defined in the permit), and time of sampling or measurements.
 - ii. The date(s) analyses were performed.
 - iii. The company or entity that performed the analyses.
 - iv. The analytical techniques or methods used.
 - v. The results of such analyses.
 - vi. The operating conditions existing at the time of sampling or measurement.
- b. Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.
- c. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:
 - i. Reports of any required monitoring and/or recordkeeping of federally enforceable information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
 - ii. Quarterly written reports of (i) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be made to the appropriate Ohio EPA District Office or local air agency. The written reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous

calendar quarters. See B.10 below if no deviations occurred during the quarter.

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

2. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction, i.e., upset, of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. (The definition of an upset condition shall be the same as that used in OAC rule 3745-15-06(B)(1) for a malfunction.) The verbal and written reports shall be submitted pursuant to OAC rule 3745-15-06.

Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emission unit(s) that is (are) served by such control system(s).

3. Risk Management Plans

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

4. Title IV Provisions

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

5. Severability Clause

A determination that any term or condition of this permit is invalid shall not invalidate the force or effect of any other term or condition thereof, except to the extent that any other term or condition depends in whole or in part for its operation or implementation upon the term or condition

declared invalid.

6. General Requirements

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

7. Fees

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

8. Federal and State Enforceability

Only those terms and conditions designated in this permit as federally enforceable, that are

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

9. Compliance Requirements

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

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

- a. If the permittee is required to apply for a Title V permit pursuant to OAC Chapter 3745-77, the permittee shall submit a complete Title V permit application or a complete Title V permit modification application within twelve (12) months after commencing operation of the emissions units covered by this permit. However, if the proposed new or modified source(s) would be prohibited by the terms and conditions of an existing Title V permit, a Title V permit modification must be obtained before the operation of such new or modified source(s) pursuant to OAC rule 3745-77-04(D) and OAC rule 3745-77-08(C)(3)(d).
- b. If the permittee is required to apply for permit(s) pursuant to OAC Chapter 3745-35, the source(s) identified in this Permit To Install is (are) permitted to operate for a period of up to one year from the date the source(s) commenced operation. Permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within thirty (30) days after commencing operation of the source(s) covered by this permit.

11. Best Available Technology

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

Honda of America Manufacturing, Inc.
PTI Application: **01-08167**
Modification Issued: 10/23/2001

Facility ID: **0180000130**

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

1. Compliance Requirements

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

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

3. Permit Transfers

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

4. 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.

Honda of America Manufacturing, Inc.

Facility ID: 0180000130

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5. 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.

6. 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.

7. 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.

8. 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).

9. 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.

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

If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters.

C. Permit To Install Summary of Allowable Emissions

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

Honda of America Manufacturing, Inc.

Facility ID: 0180000130

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

<u>Pollutant</u>	<u>Tons Per Year</u>
OC	118.01
PM	13.87
SO ₂	0.09
NO _x	14.31
CO	12.02

Honda of America Manufacturing, Inc.

Facility ID: **0180000130**

PTI Application: **01-08167**

Modification Issued: 10/23/2001

Part II - FACILITY SPECIFIC TERMS AND CONDITIONS

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

None

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

None

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

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P307 - POPA Paint Effluent System, existing system (Modification)	OAC rule 3745-31-05(A)(3)	The organic compound (OC) content of OC-containing water treatment materials, used in the POPA paint effluent systems, shall not exceed 2.64 lb/gal as a monthly volume-weighted average. The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D).
	OAC rule 3745-21-07(G)	Exempt from the limitations in 3745-21-07(G)(2) by using only non-photochemically reactive materials or material exempt under 3745-21-07(G)(9), see Section A.I.2.b below.
	OAC rule 3745-31-05(D)	Organic compound emissions from the POPA paint effluent systems, emission units P307 and P340, shall not exceed 10.22 tons per rolling 12 months; and see Section A.I.2.a below.

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2. Additional Terms and Conditions

2.a To ensure federal enforceability during the first 12 months of this permit, the calculated OC emissions from the addition of OC containing materials to the two POPA paint effluent systems together (emission units P307 and P340) shall not exceed the calculated emissions, through each month, as defined in the following table:.

<u>Month</u>	<u>OC Emissions (lbs)</u>
1	1,703
1-2	3,407
1-3	5,110
1-4	6,813
1-5	8,517
1-6	10,220
1-7	11,923
1-8	13,626
1-9	15,330
1-10	17,033
1-11	18,736
1-12	20,440

2.b This emissions unit shall use only non-photochemically reactive materials, as defined in OAC rule 3745-21-01(C)(5), or materials exempt per OAC 3745-21-07(G)(9).

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain monthly records of the following information for P307 and P340:
 - a. the company identification for each material added to the paint effluent systems, for the purpose of paint overspray flocculation and removal, algae/bacterial control, and water treatment;
 - b. the number of gallons of each OC-containing material added to the paint effluent systems;
 - c. the OC content of each OC-containing material added to the paint effluent systems, in

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pounds per gallon;

- d. the monthly volume-weighted average OC content of all OC-containing materials added to the paint effluent systems, calculated as specified in Section A.V.2; and
 - e. the total OC emissions from all OC-containing materials added to the POPA paint effluent systems, in tons per rolling 12-month period.
2. The company identification of each OC-containing material added to the paint effluent system and documentation to show each to be non-photochemically reactive.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify any calculated exceedance of the rolling, 12-month OC emissions from the OC-containing materials added the POPA paint effluent systems. These reports shall be submitted quarterly, as required in the General Terms and Conditions, Part I, Section A.1.c.ii.
2. The permittee shall submit deviation (excursion) reports which identify any record showing the addition of a photochemically reactive material or material not exempt under 3745-21-07(G)(9) to the POPA paint effluent systems. These reports shall be submitted quarterly, as required in the General Terms and Conditions, Part I, Section A.1.c.ii.
3. The permittee shall notify the Ohio EPA Central District Office, in writing, of any monthly record showing that the monthly volume-weighted average OC content of OC-containing materials, used in the POPA paint effluent systems, exceeded 2.64 pound of OC per gallon. These reports shall be submitted quarterly, as required in the General Terms and Conditions, Part I, Section A.1.c.ii.
4. The permittee shall submit annual reports which specify the total emissions of organic compounds from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.

V. Testing Requirements

1. Emission Limitation

10.22 tons OC/rolling 12 months from both POPA paint effluent systems

Applicable Compliance Method

Compliance with this limit shall be determined through maintaining monthly records of the name of materials added to the paint effluent systems, the amount of each organic material added, and the OC content of each material. Formulation data from the manufacturer or USEPA Method 24 shall be used to determine the OC content of each material. Emissions shall be calculated as follows:

Maximum OC emissions = \sum OC content of each material (lbs/gal) X the amount of each material used each month (gal), plus the same calculation of emissions from the previous 11 months.

For the first 12 calendar months of operation after the issuance of this permit, compliance shall be demonstrated by documenting emissions do not exceed the levels contained in the table in Section A.I.2.a of the Additional Terms & Conditions.

2. Emission Limitation

2.64 lb VOC/gallon of material, added to the POPA paint effluent systems as a monthly volume-weighted average

Applicable Compliance Method

Compliance with this volume-weighted average limit shall be determined through monthly recordkeeping, as specified in Section A.III.1. Formulation data from each material's manufacturer or USEPA Method 24 shall be used to determine the organic compound content of the materials, to be used in the calculation of emissions. The monthly volume-weighted average shall be calculated for each month's usage as follows:

mo. volume weighted average = the summation of all materials i through z, calculated as: [(lbs OC/gal of material i) x (gal of material i/gal of all OC containing materials)] + ... + [(lbs OC/gal of material z) x (gal of material z/gal of all OC containing materials)]

VI. Miscellaneous Requirements

None

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B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P307 - POPA Paint Effluent System, existing system Modification)		Compliance with Ohio Air Toxic Policy

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

- 1. The permit to install for this emissions unit P307 was evaluated based on the actual 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 only pollutant exceeding 1 ton per year:

Pollutant: Petroleum distillate

TLV: VM & P Naphtha 1,370 mg/m³; Stoddard solvent 573 mg/m³; Gasoline 890mg/m³

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Honda of America Manufacturing, Inc.

PTI Application: **01 00167**

Modif

Facility ID: **0180000130**

Emissions Unit ID: **P307**

Maximum Hourly Emission Rate: 2.41 lbs/hr

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Predicted 1-Hour Maximum Ground-Level Concentration: 0.086 mg/m³

MAGLC: 13.63 mg/m³ for Stoddard solvent

2. 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 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.
3. 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,

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Honda

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Emissions Unit ID: **P307**

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.

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

This Permit to Install (01-08167) supercedes and replaces PTI #01-6645 issued 12/8/99.

Modification Issued: 10/23/2001

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

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P340 - POPA Paint Effluent System, new system (Modification)	OAC rule 3745-31-05(A)(3)	The organic compound (OC) content of OC-containing water treatment materials, used in the POPA paint effluent systems, shall not exceed 2.64 lb/gal as a monthly volume-weighted average. The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D).
	OAC rule 3745-21-07(G)	Exempt from the limitations in 3745-21-07(G)(2) by using only non-photochemically reactive materials or material exempt under 3745-21-07(G)(9), see Section A.I.2.b below.
	OAC rule 3745-31-05(D)	Organic compound emissions from the POPA paint effluent systems, emission units P307 and P340, shall not exceed 10.22 tons per rolling 12 months; and see Section A.I.2.a below.

2. Additional Terms and Conditions

- 2.a To ensure federal enforceability during the first 12 months of this permit, the calculated OC emissions from the addition of OC containing materials to the two POPA

Emissions Unit ID: P340

paint effluent systems together (emission units P307 and P340) shall not exceed the calculated emissions, through each month, as defined in the following table:

<u>Month</u>	<u>OC Emissions (lbs)</u>
1	1,703
1-2	3,407
1-3	5,110
1-4	6,813
1-5	8,517
1-6	10,220
1-7	11,923
1-8	13,626
1-9	15,330
1-10	17,033
1-11	18,736
1-12	20,440

2.b This emissions unit shall use only non-photochemically reactive materials, as defined in OAC rule 3745-21-01(C)(5), or materials exempt per OAC 3745-21-07(G)(9).

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain monthly records of the following information for P307 and P340:
 - a. the company identification for each material added to the paint effluent systems, for the purpose of paint overspray flocculation and removal, algae/bacterial control, and water treatment;
 - b. the number of gallons of each OC-containing material added to the paint effluent systems;
 - c. the OC content of each OC-containing material added to the paint effluent systems, in pounds per gallon; and
 - d. the monthly volume-weighted average OC content of all OC-containing materials added to the paint effluent systems, calculated as specified in Section A.V.2; and
 - e. the total OC emissions from all OC-containing materials added to the POPA paint effluent systems, in tons per rolling 12-month period.

2. The company identification of each OC-containing material added to the paint effluent system and documentation to show each to be non-photochemically reactive.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify any calculated exceedance of the rolling 12-month OC emissions from the OC-containing materials added the POPA paint effluent systems. These reports shall be submitted quarterly, as required in the General Terms and Conditions, Part I, Section A.1.c.ii.
2. The permittee shall submit deviation (excursion) reports which identify any record showing the addition of a photochemically reactive material or material not exempt under 3745-21-07(G)(9) to the POPA paint effluent systems. These reports shall be submitted quarterly, as required in the General Terms and Conditions, Part I, Section A.1.c.ii.
3. The permittee shall notify the Ohio EPA Central District Office, in writing, of any monthly record showing that the monthly, volume-weighted average OC content of OC-containing materials, used in the POPA paint effluent systems, exceeded 2.64 pound of OC per gallon. These reports shall be submitted quarterly, as required in the General Terms and Conditions, Part I, Section A.1.c.ii.
4. The permittee shall submit annual reports which specify the total emissions of organic compounds from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.

V. Testing Requirements

1. Emission Limitation

10.22 tons OC/rolling 12 months from both POPA paint effluent systems

Applicable Compliance Method

Compliance with this limit shall be determined through maintaining monthly records of the name of materials added to the paint effluent systems, the amount of each organic material added, and the OC content of each material. Formulation data from the manufacturer or USEPA Method 24

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shall be used to determine the OC content of each material. Emissions shall be calculated as follows:

Maximum OC emissions = \sum OC content of each material (lbs/gal) X the amount of each material used each month (gal), plus the same calculation of emissions from the previous 11 months.

For the first 12 calendar months of operation after the issuance of this permit, compliance shall be demonstrated by documenting emissions do not exceed the levels contained in the table in Section A.I.2.a of the Additional Terms & Conditions.

2. Emission Limitation

2.64 lb VOC/gallon of material, added to the POPA paint effluent systems as a monthly volume-weighted average

Applicable Compliance Method

Compliance with this volume-weighted average limit shall be determined through monthly recordkeeping, as specified in Section A.III.1. Formulation data from each material's manufacturer or USEPA Method 24 shall be used to determine the organic compound content of the materials, to be used in the calculation of emissions. The monthly volume-weighted average shall be calculated for each month's usage as follows:

mo. volume weighted average = the summation of all materials i through z, calculated as: [(lbs OC/gal of material i) x (gal of material i/gal of all OC containing materials)] + ... + [(lbs OC/gal of material z) x (gal of material z/gal of all OC containing materials)]

VI. Miscellaneous Requirements

None

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Emissions Unit ID: P340

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P340 - POPA Paint Effluent System, new system (Modification)		Compliance with Ohio Air Toxic Policy

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

- 1. The permit to install for this emissions unit P340 was evaluated based on the actual 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 only pollutant exceeding 1 ton per year:

Pollutant: Petroleum distillate

TLV: VM & P Naphtha 1,370 mg/m³; Stoddard solvent 573 mg/m³; Gasoline 890mg/m³

Maximum Hourly Emission Rate: 1.62 lbs/hr

Predicted 1-Hour Maximum Ground-Level Concentration: 0.083 mg/m³

MAGLC: 13.63 mg/m³ for Stoddard solvent

2. 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 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.

3. 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.

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

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

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>
R200 - Primer Booth for POPA plastic parts coating lines, with infrared oven, natural gas oven, and/or dehumidification system (Modification)	<p>OAC rule 3745-31-05(A)(3)</p> <p>OAC rule 3745-21-07(G)</p> <p>OAC rule 3745-31-05(D)</p> <p>OAC rule 3745-17-07(A)(1)</p>

OAC rule 3745-17-11(B)(1)

Applicable Emissions
Limitations/Control Measures

Organic compound emissions from the application and drying of POPA coatings in the primer booth shall not exceed 17.44 lbs/hr.

Particulate emissions (PE) from the overspray of POPA coatings shall not exceed 13.6 tons per year from emission units R200, R201, R202, R203, and R204.

The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1), 3745-17-11(B)(1), and 3745-31-05(D).

Emissions from all natural gas usage for the POPA plastic parts coating lines, including all drying ovens, air supply units, the concentrator(s), and the RTO for emissions units R200, R201, R202, R203, and R204 shall not exceed:

- 3.86 lbs NO_x/hr;
- 14.31 tons NO_x/yr;
- 3.25 lbs CO/hr;
- 12.02 tons CO/yr;
- 0.07 lb filterable PE/hr;
- 0.27 ton filterable PE/yr;
- 0.21 lb OC/hr;
- 0.79 ton OC/yr;
- 0.02 lb SO₂/hr;
- 0.09 ton SO₂/yr

Exempt from the limitations in

3745-21-07(G)(2) by using only non-photochemically reactive materials or material exempt under 3745-21-07(G)(9), see Section A.I.2.a below.

Organic compound emissions from the application and drying of coatings, and from the cleanup, and purge materials usage shall not exceed 107 tons per rolling 12 months from the POPA coating operations, including emission units R200, R201, R202, R203, and R204, and see Section A.I.2.b below.

Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.

Particulate emissions from overspray in R200 shall not exceed 0.557 lb/hr.

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Facility ID: **0180000130**

Emissions Unit ID: R200

2. Additional Terms and Conditions

- 2.a** This emissions unit shall use only non-photochemically reactive materials, as defined in OAC rule 3745-21-01(C)(5), or materials exempt per OAC 3745-21-07(G)(9).
- 2.b** To ensure federal enforceability during the first 12 calendar months of operation, following the issuance of this permit, the POPA coating operations, R200, R201, R202, R203, and R204 together, shall not exceed the monthly emission limitations defined in the following table:

<u>Month</u>	<u>Rolling 12-Month OC Emission Calculations</u>
1	17,833 lbs.
1-2	35,666 lbs.
1-3	53,500 lbs.
1-4	71,333 lbs.
1-5	89,166 lbs.
1-6	107,000 lbs.
1-7	124,833 lbs.
1-8	142,666 lbs.
1-9	160,500 lbs.
1-10	178,332 lbs.
1-11	196,166 lbs.
1-12	214,000 lbs.

II. Operational Restrictions

1. The permittee shall operate the downdraft air system whenever this emissions unit is in operation.
2. The POPA coating operations shall be limited to a production limit of 630,998 plastic part sets per rolling 12 months (set consists of two plastic parts).

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information for each month for the POPA coating operations (R200, R201, R202, R203, and R204):
 - a. the company identification for each coating, coating component, and cleanup/purge material employed, as packaged;
 - b. the number of gallons of each coating, coating component, and cleanup/purge material employed;
 - c. the organic compound content of each coating, coating component, and cleanup/purge material, in pounds per gallon;
 - d. the total organic compound emissions for all coatings, coating components, and cleanup/purge materials, prior to any credit for recovered materials, in pounds or tons per month;

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- e. if a credit for recovered materials is used, the total OC/VOC emissions from recovered materials to be credited against the total OC/VOC emissions from all coatings, purge and cleanup materials employed, in pounds or tons (from Section A.III.2.e below);
 - f. if a credit for recovered materials is used, the adjusted total OC/VOC emissions from all coatings, purge and cleanup materials employed, in pounds or tons (i.e., (d) - (e));
 - g. the rolling 12-month total OC emissions from the coatings, coating components, and cleanup materials employed in the POPA coating operations, including emissions units R200, R201, R202, R203, and R204; and
 - h. The total number of plastic part sets produced in the POPA coating operations (set consists of two plastic parts).
2. If a credit for recovered materials is used in Section A.III.1 above, the permittee shall maintain the following records for the recovered materials and the recovery tank(s) serving emissions units R200, R201, R202, R203, and R204:
 - a. the date the material is removed from the POPA recovery tank(s);
 - b. the date the materials from the POPA recovery tank(s) were shipped off site;
 - c. the number of gallons of materials from the POPA recovery tank(s) shipped off site;
 - d. the OC/VOC content of the materials from the POPA recovery tank(s), in pounds per gallon; and
 - e. the total OC/VOC emissions from recovered materials to be credited against the total OC/VOC emissions from all coatings and purge and cleanup materials employed, in pounds or tons.
 3. The permittee shall maintain records that document any time periods when the downdraft air system was not in service when the emissions unit was in operation.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify any record showing the application of a photochemically reactive material or material not exempt under 3745-21-07(G)(9) in this emission unit. These reports shall be submitted quarterly, as required in the General Terms

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and Conditions, Part I, Section A.1.c.ii.

2. The permittee shall notify the Ohio EPA Central District Office in writing of any record showing that the downdraft air system was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Central District Office within 30 days after the event occurs.
3. The permittee shall submit annual reports which specify the total emissions of particulates and organic compounds from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.
4. The permittee shall submit deviation reports which identify any record of an exceedance of the 12-month rolling OC emission limitation and/or production limitation on parts coated. These reports shall be submitted quarterly, as required in the General Terms and Conditions, Part I, Section A.1.c.ii.

V. Testing Requirements

1. Compliance with the emission limitations contained in this permit shall be determined in accordance with the following methods:

Emission Limitation

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

Applicable Compliance Method

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

2. Emission Limitation

107 tons of VOC per rolling 12 months from the POPA coating operations

Applicable Compliance Method

Compliance with this rolling 12-month facility OC limit shall be determined through the permit requirements and recordkeeping contained in the terms of each individual emissions unit included

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Emissions Unit ID: R200

in this limit. Formulation data or USEPA Method 24 shall be used to determine the organic compound content of coatings, reducing solvents, cleanup and purge materials. The emissions, contributed to this limit by this emissions unit, shall be calculated by adding the monthly emissions, derived from emission calculations from all coatings and materials applied and cleanup material/purge used each month, in this emissions unit. The OC emissions credit shall be calculated using the OC test result(s) of each shipment along with the amount of recovered material each composite sample represents. Twelve-month rolling emissions shall be calculated by adding the current monthly emission calculations from the emissions unit to the previous 11 month's emission calculations. To ensure federal enforceability during the first 12 calendar months of operation, following the issuance of this permit, the POPA coating operations, R200, R201, R202, R203, and R204 together, shall not exceed the emission limitations defined in the table contained in Section A.I.2.b.

3. Emission Limitation

17.44 lbs of OC per hour

Applicable Compliance Method

Compliance with the hourly OC emission limit shall be determined through monthly recordkeeping of the coating, purge and cleaning material usage, the organic compound content of each material used, and documentation of the maximum coating OC content and maximum usage in any hour. Formulation data from the manufacturer or US EPA Method 24 shall be used to determine the organic compound content of the coatings, purge, and cleaning materials to be used in the calculation of emissions. Potential hourly emissions shall be calculated by multiplying the maximum OC content of any coating, purge, and cleanup materials used (lbs OC/gallon of material) times each materials' maximum usage in any hour (gallons/hr). Worst case calculations shall be documented as follows:

$$\text{OC emissions/hr} = (1.2 \text{ lbs OC/gal of primer coating}) \times (9.95 \text{ gal/hr}) = 11.94 \text{ lbs OC/hr}$$

$$\text{OC emissions/hr} = (6.082 \text{ lbs OC/gal of repair primer}) \times (0.905 \text{ gal/hr}) = 5.50 \text{ lbs OC/hr}$$

Total: 17.44 lbs OC/hr

4. Emission Limitations from all natural gas usage for the POPA plastic parts coating lines, including all drying ovens, air supply units, the concentrator(s), and the RTO for emissions units R200, R201, R202, R203, and R204:

3.86 lbs NO_x/hr;14.31 tons NO_x/yr;

3.25 lbs CO/hr;

12.02 tons CO/yr;

0.07 lb filterable PE/hr;

0.27 ton filterable PE/yr;

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0.21 lb OC/hr;
0.79 ton OC/yr;
0.02 lb SO₂/hr;
0.09 ton SO₂/yr

Applicable Compliance Method

These limits represent the maximum capacity of the burners of all the drying ovens, the air supply units, the concentrator(s), and the RTO for the POPA operations. These emission limitations were determined by multiplying the maximum natural gas usage from all these burners (38,635 ft³/hr) by the emission factors for each pollutant (lbs of pollutant/MM ft³) found in "Compilation of Air Pollutant Emission Factors", the 7/98 edition of AP-42, Tables 1.4-1, and 1.4-2. The RTO burners shall be fueled by the organic compounds, for which they were installed to control; and it is estimated that it shall require no more than 50 hours of natural gas fuel to begin combustion. Other than the RTO burners, the remaining hourly natural gas usage was multiplied by 8760 hours per year and divided by 2000 pounds per ton, to obtain the potential emissions of the burners. Since these limits reflect the potential emissions of the burners, no additional compliance determination is required.

5. Emissions Limit

0.557 lb particulate emissions/hr from overspray in the primer booth;
13.6 tons particulate emissions/yr, from overspray from the combined plastic parts coating operations, emission units R200, R201, R202, R203, and R204.

Compliance Method

Compliance with the hourly limit shall be based on meeting the requirements for the downdraft air system found in Sections A.II.1, A.III.3, and A.IV.2 of Part III. If required, compliance shall be determined through testing, performed in accordance with 40 CFR Part 60, Appendix A, Method 5.

Compliance with the annual limit shall be based on meeting the requirements for the downdraft air systems specified under Sections A. II. (Operational Restrictions), A.III (Monitoring/Recordkeeping), and A.IV. (Reporting) of Part III for emissions units R200, R201, R202, R203, and R204, and submitting annual reports or Fee Emission Reports with the calculated emissions of particulate matter, derived from material usage records, at the end of each year.

VI. Miscellaneous Requirements

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PTI Application: **01 00167**

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Facility ID: **0180000130**

Emissions Unit ID: R200

None

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B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
R200 - Primer Booth for POPA plastic parts coating lines, with infrared oven, natural gas oven, and/or dehumidification system (Modification)		Compliance with Ohio Air Toxic Policy

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

1. The permit to install for this emissions unit was evaluated based on the actual 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:

Pollutant: Cyclohexanone

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TLV: 96 mg/m³ (skin)

Maximum Hourly Emission Rate: 51.2 lbs/hr

Predicted 1-Hour Maximum Ground-Level Concentration: 1.19 mg/m³

MAGLC: 2.29 mg/m³

2. 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 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.

3. 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:"

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- 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.

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Emissions Unit ID: R200

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

This Permit to Install (01-08167) replaces the requirements for the operations of emissions unit R301 in the PTI numbered 01-0999 issued 2/8/89, upon the startup of these coating operations.

	<u>Applicable Emissions Limitations/Control Measures</u>	
OAC rule 3745-17-11(B)(1)	<p>Organic compound emissions from the application and drying of POPA coatings in basecoat booth A shall not exceed 11.21 lbs/hr.</p> <p>Particulate emissions (PE) from the overspray of POPA coatings shall not exceed 13.6 tons per year from emission units R200, R201, R202, R203, and R204.</p> <p>The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1), 3745-17-11(B)(1), and 3745-31-05(D).</p> <p>Emissions from all natural gas usage for the POPA plastic parts coating lines, including all drying ovens, air supply units, the concentrator(s), and the RTO for emissions units R200, R201, R202, R203, and R204 shall not exceed:</p> <p>3.86 lbs NO_x/hr; 14.31 tons NO_x/yr; 3.25 lbs CO/hr; 12.02 tons CO/yr; 0.07 lb filterable PE/hr; 0.27 ton filterable PE/yr; 0.21 lb OC/hr; 0.79 ton OC/yr; 0.02 lb SO₂/hr; 0.09 ton SO₂/yr</p>	<p>Exempt from the limitations in 3745-21-07(G)(2) by using only non-photochemically reactive materials or material exempt under 3745-21-07(G)(9), see Section A.I.2.a below.</p> <p>Organic compound emissions from the application and drying of coatings, and from the cleanup, and purge materials usage shall not exceed 107 tons per rolling 12 months from the POPA coating operations, including emission units R200, R201, R202, R203, and R204, and see Section A.I.2.b below.</p> <p>Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.</p> <p>Particulate emissions from overspray in R201 shall not exceed 0.724 lb/hr.</p>

Modif

Emissions Unit ID: R201

2. Additional Terms and Conditions

- 2.a** This emissions unit shall use only non-photochemically reactive materials, as defined in OAC rule 3745-21-01(C)(5), or materials exempt per OAC 3745-21-07(G)(9).
- 2.b** To ensure federal enforceability during the first 12 calendar months of operation, following the issuance of this permit, the POPA coating operations, R200, R201, R202, R203, and R204 together, shall not exceed the monthly emission limitations defined in the following table:

<u>Month</u>	<u>Rolling 12-Month OC Emission Calculations</u>
1	17,833 lbs.
1-2	35,666 lbs.
1-3	53,500 lbs.
1-4	71,333 lbs.
1-5	89,166 lbs.
1-6	107,000 lbs.
1-7	124,833 lbs.
1-8	142,666 lbs.
1-9	160,500 lbs.
1-10	178,332 lbs.
1-11	196,166 lbs.
1-12	214,000 lbs.

II. Operational Restrictions

- 1. The OC emissions from this emissions unit shall be collected by a concentrator and vented to a regenerative thermal oxidizer (RTO), which together shall reduce OC emissions from these coating operations by an estimated 82% (this number shall be finalized through emission testing). The actual OC reductions, determined from the testing requirements in Section A.V.6, shall be used to calculate emissions and demonstrate compliance with the limits contained in this permit.
- 2. The POPA coating operations shall be limited to a production limit of 630,998 plastic part sets per rolling 12 months (set consists of two plastic parts).
- 3. The average combustion temperature within the RTO, for any 3-hour block of time when the emissions unit is in operation, shall not be more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance, or below 1200 degrees Fahrenheit until such time of testing.
- 4. The permittee shall operate the downdraft air system whenever this emissions unit is in operation.

III. Monitoring and/or Recordkeeping Requirements

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1. The permittee shall collect and record the following information for each month for the coating operations:
 - a. the company identification for each coating, coating component, and cleanup material employed, as packaged;
 - b. the number of gallons of each coating, coating component, and cleanup material employed;
 - c. the organic compound content of each coating, coating component, and cleanup material, in pounds per gallon;
 - d. the total organic compound emissions for all coatings, coating components, and cleanup materials, prior to control and any recovery credit, in pounds or tons per month;
 - e. if a credit for recovered materials is used, the total OC/VOC emissions from recovered materials to be credited against the total OC/VOC emissions from all coatings, purge and cleanup materials employed, in pounds or tons (from Section A.III.2.e below);
 - f. if a credit for recovered materials is used, the adjusted total OC/VOC emissions from all coatings, purge and cleanup materials employed, in pounds or tons (i.e., (d) - (e));
 - g. the controlled net OC emissions from all coatings, coating components, and cleanup/purge materials employed, in pounds or tons per month (until control efficiencies are established in testing, as per Section A.V.6, overall control shall be estimated at 82%);
 - h. the rolling 12-month total OC emissions from the coatings, coating components, and cleanup materials employed in the POPA coating operations, including emissions units R200, R201, R202, R203, and R204; and
 - i. The total number of plastic part sets produced in the POPA coating operations (set consists of two plastic parts).
2. If a credit for recovered materials is used in Section A.III.1 above, the permittee shall maintain the following records for the recovered materials and the recovery tank(s) serving emissions units R200, R201, R202, R203, and R204:
 - a. the date the material is removed from the POPA recovery tank(s);

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- b. the date the materials from the POPA recovery tank(s) were shipped off site;
 - c. the number of gallons of materials from the POPA recovery tank(s) shipped off site;
 - d. the OC/VOC content of the materials from the POPA recovery tank(s), in pounds per gallon; and
 - e. the total OC/VOC emissions from recovered materials to be credited against the total OC/VOC emissions from all coatings and purge and cleanup materials employed, in pounds or tons.
3. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the RTO when the emissions unit is in operation. 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.
 4. The permittee shall collect and record the following information each day for the control equipment:
 - a. for the RTO and concentrator, a log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation; and
 - b. all 3-hour blocks of time during which the average combustion temperatures within the RTO, 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, or below 1200 degrees Fahrenheit until such time of testing.
 5. The permittee shall maintain records that document any time periods when the downdraft air system was not in service when the emissions unit was in operation.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify any record showing the application of a photochemically reactive material or material not exempt under 3745-21-07(G)(9) in this emission unit. These reports shall be submitted quarterly, as required in the General Terms and Conditions, Part I, Section A.1.c.ii.
2. The permittee shall submit deviation (excursion) reports which identify all 3-hour blocks of time during which the average combustion temperature within the RTO does not comply with the temperature limitation specified above. These reports shall be submitted quarterly, as required in the General Terms and Conditions, Part I, Section A.1.c.ii.

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3. The permittee shall notify the Ohio EPA Central District Office in writing of any record showing that the downdraft air system was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Central District Office within 30 days after the event occurs.
4. The permittee shall submit annual reports which specify the total emissions of particulates and organic compounds from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.
5. The permittee shall submit deviation reports which identify any record of an exceedance of the 12-month, rolling OC emission limitation and/or production limitation on parts coated. These reports shall be submitted quarterly, as required in the General Terms and Conditions, Part I, Section A.1.c.ii.

V. Testing Requirements

1. Compliance with the emission limitations contained in this permit shall be determined in accordance with the following methods:

Emission Limitation

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

Applicable Compliance Method

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

2. Emission Limitation

107 tons of VOC per rolling 12-months from the POPA coating operations

Applicable Compliance Method

Compliance with this rolling 12-month facility OC limit shall be determined through the permit requirements and recordkeeping contained in the terms of each individual emissions unit included in this limit. Formulation data or USEPA Method 24 shall be used to determine the organic compound content of coatings, reducing solvents, cleanup and purge materials. The emissions, contributed to this limit by this emissions unit, shall be calculated by adding the monthly emissions, derived from emission calculations from all coatings and materials applied and cleanup material/purge used each month, in this emissions unit. The OC emissions credit shall be calculated using the OC test result(s) of each shipment along with the amount of recovered material each composite sample represents. Until mass balance calculations and testing has been conducted as required in Section A.V.6, the facility shall assume 82% control of the estimated emissions from this emissions unit, and after testing shall use the most recent emission testing results for capture and destruction efficiencies to calculate emissions. Twelve-month rolling emissions shall be calculated by adding the current monthly emission calculations from the emissions unit to the previous 11 month's emission calculations. To ensure federal enforceability during the first 12 calendar months of operation, following the issuance of this permit, the POPA coating operations, R200, R201, R202, R203, and R204 together, shall not exceed the emission limitations defined in the table contained in Section A.I.2.b.

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3. Emission Limitation

11.21 lbs of OC per hour

Applicable Compliance Method

Until testing is completed, compliance with the hourly OC emission limit shall be determined through monthly recordkeeping of the coating, purge and cleaning material usage, the organic compound content of each material used, and documentation of the maximum coating OC content and maximum usage in any hour. Formulation data from the manufacturer or US EPA Method 24 shall be used to determine the organic compound content of the coatings, purge, and cleaning materials to be used in the calculation of emissions. Potential hourly emissions shall be calculated by multiplying the maximum OC content of any coating, purge, and cleanup materials used (lbs OC/gallon of material) times each materials' maximum usage in any hour (gallons/hr). Until mass balance calculations and testing has been conducted as required in Section A.V.6, the facility shall assume 82% control of the estimated emissions from this emissions unit, and *after testing* shall use the most recent emission testing results for capture and destruction efficiencies to calculate emissions. Worst case calculations shall be documented as follows:

$$\text{Uncontrolled OC emissions/hr} = (4.8 \text{ lbs OC/gal of coating}) \times (14.54 \text{ gal/hr}) = 69.79 \text{ lbs OC/hr}$$

From RTO:

$$\text{OC emissions/hr} = (69.79 \text{ lbs OC/hr}) \times (93\% \text{ concentrator capture efficiency} + 2\% \text{ to oven}) \times (93\% \text{ concentrator removal efficiency}) \times (100\% - 95\% \text{ RTO control efficiency}) = 3.08 \text{ lbs OC/hr}$$

From Concentrator:

$$\text{OC emissions/hr} = [(69.79 \text{ lbs OC/hr}) \times (93\% \text{ concentrator capture efficiency}) \times (100\% - 93\% \text{ concentrator removal efficiency})] + [(69.79 \text{ lbs OC/hr}) \times (2\% \text{ to oven}) \times (100\% - 93\% \text{ concentrator removal efficiency})] = 4.64 \text{ lbs OC/hr}$$

From miscellaneous losses:

$$\text{OC emissions/hr} = (69.79 \text{ lbs OC/hr}) \times (5\% \text{ lost}) = 3.49 \text{ lbs OC/hr}$$

Total: 11.21 lbs OC/hr

These calculations may be adjusted after testing has been conducted, if capture and control efficiencies are measured to be different from those assumed above.

4. Emission Limitations from all natural gas usage for the POPA plastic parts coating lines, including all drying ovens, air supply units, the concentrator(s), and the RTO for emissions units R200, R201, R202, R203, and R204:

3.86 lbs NO_x/hr;

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14.31 tons NO_x/yr;
 3.25 lbs CO/hr;
 12.02 tons CO/yr;
 0.07 lb filterable PE/hr;
 0.27 ton filterable PE/yr;
 0.21 lb OC/hr;
 0.79 ton OC/yr;
 0.02 lb SO₂/hr;
 0.09 ton SO₂/yr

Applicable Compliance Method

These limits represent the maximum capacity of the burners of all the drying ovens, the air supply units, the concentrator(s), and the RTO for the POPA operations. These emission limitations were determined by multiplying the maximum natural gas usage from all these burners (38,635 ft³/hr) by the emission factors for each pollutant (lbs of pollutant/MM ft³) found in "Compilation of Air Pollutant Emission Factors", the 7/98 edition of AP-42, Tables 1.4-1, and 1.4-2. The RTO burners shall be fueled by the organic compounds, for which they were installed to control; and it is estimated that they shall require no more than 50 hours of natural gas fuel to begin combustion. Other than the RTO burners, the remaining hourly natural gas usage was multiplied by 8760 hours per year and divided by 2000 pounds per ton, to obtain the potential emissions of the burners. Since these limits reflect the potential emissions of the burners, no additional compliance determination is required.

5. Emissions Limit

0.724 lb particulate emissions/hr from overspray in the basecoat booth A;
 13.6 tons particulate emissions/yr, from overspray from the combined plastic parts coating operations, emission units R200, R201, R202, R203, and R204

Compliance Method

Compliance with the hourly limit shall be based on meeting the requirements for the downdraft air system found in Sections A.II.1, A.III.3, and A.IV.2 of Part III. If required, compliance shall be determined through testing, performed in accordance with 40 CFR Part 60, Appendix A, Method 5.

Compliance with the annual limit shall be based on meeting the requirements for the downdraft air systems specified under Sections A. II. (Operational Restrictions), A.III (Monitoring/Recordkeeping), and A.IV. (Reporting) of Part III for emissions units R200, R201, R202, R203, and R204, and submitting annual reports or Fee Emission Reports with the calculated emissions of particulate matter, derived from material usage records, at the end of each year.

6. Emission Limitation

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11.21 lbs of OC/hr

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The permittee shall conduct, or have conducted, emission testing and develop a mass balance demonstration of organic compound emissions for this emissions unit in accordance with the following requirements:

- a. the emission testing shall be conducted within 6 months after project completion and mass production startup;
- b. the emission testing shall be conducted to demonstrate compliance with the hourly emission limit, through a mass balance demonstration, and to document the overall reduction of OC emissions from the coating operations, after actual control and capture efficiencies are measured;
- c. the following test methods shall be employed to demonstrate compliance with the allowable mass emission rate(s): Method 1 for sample and velocity traverses; Method 2 for velocity and volumetric flow rates; Method 24 for the OC content of the coating; Methods 25 or 25A for destruction efficiency after the RTO; Methods 18, 25 or 25A for the OC concentration in the effluent gas leaving the concentrator; and Methods 204A through F for the capture efficiency of the concentrator. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA; or, any Method of testing may be required/requested by the Administrator; and,
- d. the test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA Central District Office.
- e. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA Central District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA Central District Office's refusal to accept the results of the emission test(s).
- f. Personnel from the Ohio EPA Central District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

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g. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA Central District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA Central District Office.

VI. Miscellaneous Requirements

None

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B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
R201 - Basecoat Booth A for POPA plastic parts coating line; with natural gas air supply, concentrator, and RTO control (Modification)		Compliance with Ohio Air Toxic Policy

2. Additional Terms and Conditions

- 2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

1. The permit to install for this emissions unit was evaluated based on the actual 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:

Pollutant: Cyclohexanone

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TLV: 96 mg/m³ (skin)

Maximum Hourly Emission Rate: 51.2 lbs/hr

Predicted 1-Hour Maximum Ground-Level Concentration: 1.19 mg/m³

MAGLC: 2.29 mg/m³

2. 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 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.

3. 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:"

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- 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.

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IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

	<u>Applicable Emissions Limitations/Control Measures</u>	
OAC rule 3745-17-11(B)(1)	<p>Organic compound emissions from the application and drying of POPA coatings in clearcoat booth A shall not exceed 5.67 lbs/hr.</p> <p>Particulate emissions (PE) from the overspray of POPA coatings shall not exceed 13.6 tons per year from emission units R200, R201, R202, R203, and R204.</p> <p>The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1), 3745-17-11(B)(1), and 3745-31-05(D).</p> <p>Emissions from all natural gas usage for the POPA plastic parts coating lines, including all drying ovens, air supply units, the concentrator(s), and the RTO for emissions units R200, R201, R202, R203, and R204 shall not exceed:</p> <p>3.86 lbs NO_x/hr; 14.31 tons NO_x/yr; 3.25 lbs CO/hr; 12.02 tons CO/yr; 0.07 lb filterable PE/hr; 0.27 ton filterable PE/yr; 0.21 lb OC/hr; 0.79 ton OC/yr; 0.02 lb SO₂/hr; 0.09 ton SO₂/yr</p>	<p>Exempt from the limitations in 3745-21-07(G)(2) by using only non-photochemically reactive materials or material exempt under 3745-21-07(G)(9), see Section A.I.2.a below.</p> <p>Organic compound emissions from the application and drying of coatings, and from the cleanup, and purge materials usage shall not exceed 107 tons per rolling 12 months from the POPA coating operations, including emission units R200, R201, R202, R203, and R204, and see Section A.I.2.b below.</p> <p>Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.</p> <p>Particulate emissions from overspray in R202 shall not exceed 0.551 lb/hr.</p>

Modification Issued: 10/23/2001**2. Additional Terms and Conditions**

- 2.a** This emissions unit shall use only non-photochemically reactive materials, as defined in OAC rule 3745-21-01(C)(5), or materials exempt per OAC 3745-21-07(G)(9).
- 2.b** To ensure federal enforceability during the first 12 calendar months of operation, following the issuance of this permit, the POPA coating operations, R200, R201, R202, R203, and R204 together, shall not exceed the monthly emission limitations defined in the following table:

<u>Month</u>	<u>Rolling 12-Month OC Emission Calculations</u>
1	17,833 lbs.
1-2	35,666 lbs.
1-3	53,500 lbs.
1-4	71,333 lbs.
1-5	89,166 lbs.
1-6	107,000 lbs.
1-7	124,833 lbs.
1-8	142,666 lbs.
1-9	160,500 lbs.
1-10	178,332 lbs.
1-11	196,166 lbs.
1-12	214,000 lbs.

II. Operational Restrictions

- The OC emissions from this emissions unit shall be collected by a concentrator and vented to a regenerative thermal oxidizer (RTO), which together shall reduce OC emissions from these coating operations by an estimated 82% (this number shall be finalized through emission testing). The actual OC reductions, determined from the testing requirements in Section A.V.6, shall be used to calculate emissions and demonstrate compliance with the limits contained in this permit.
- The POPA coating operations shall be limited to a production limit of 630,998 plastic part sets per rolling 12 months (set consists of two plastic parts).
- The average combustion temperature within the RTO, for any 3-hour block of time when the emissions unit is in operation, shall not be more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in

compliance, or below 1200 degrees Fahrenheit until such time of testing.

4. The permittee shall operate the downdraft air system whenever this emissions unit is in operation.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information for each month for the coating operations:
 - a. the company identification for each coating, coating component, and cleanup material employed, as packaged;
 - b. the number of gallons of each coating, coating component, and cleanup material employed;
 - c. the organic compound content of each coating, coating component, and cleanup material, in pounds per gallon;
 - d. the total organic compound emissions for all coatings, coating components, and cleanup materials, prior to control and any recovery credit, in pounds or tons per month;
 - e. if a credit for recovered materials is used, the total OC/VOC emissions from recovered materials to be credited against the total OC/VOC emissions from all coatings, purge and cleanup materials employed, in pounds or tons (from Section A.III.2.e below);
 - f. if a credit for recovered materials is used, the adjusted total OC/VOC emissions from all coatings, purge and cleanup materials employed, in pounds or tons (i.e., (d) - (e));
 - g. the controlled net OC emissions from all coatings, coating components, and cleanup/purge materials employed, in pounds or tons per month (until control efficiencies are established in testing, as per Section A.V.6, overall control shall be estimated at 82%);
 - h. the rolling 12-month total OC emissions from the coatings, coating components, and cleanup materials employed in the POPA coating operations, including emissions units R200, R201, R202, R203, and R204; and
 - i. The total number of plastic part sets produced in the POPA coating operations (set consists of two plastic parts).
2. If a credit for recovered materials is used in Section A.III.1 above, the permittee shall maintain the following records for the recovered materials and the recovery tank(s) serving emissions units R200, R201, R202, R203, and R204:
 - a. the date the material is removed from the POPA recovery tank(s);

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- b. the date the materials from the POPA recovery tank(s) were shipped off site;
 - c. the number of gallons of materials from the POPA recovery tank(s) shipped off site;
 - d. the OC/VOC content of the materials from the POPA recovery tank(s), in pounds per gallon; and
 - e. the total OC/VOC emissions from recovered materials to be credited against the total OC/VOC emissions from all coatings and purge and cleanup materials employed, in pounds or tons.
3. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the RTO when the emissions unit is in operation. 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.
4. The permittee shall collect and record the following information each day for the control equipment:
 - a. for the RTO and concentrator, a log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation; and,
 - b. all 3-hour blocks of time during which the average combustion temperatures within the RTO , 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, or below 1200 degrees Fahrenheit until such time of testing.
5. The permittee shall maintain records that document any time periods when the downdraft air system was not in service when the emissions unit was in operation.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify any record showing the application of a photochemically reactive material or material not exempt under 3745-21-07(G)(9) in this emission unit. These reports shall be submitted quarterly, as required in the General Terms and Conditions, Part I, Section A.1.c.ii.

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2. The permittee shall submit deviation (excursion) reports which identify all 3-hour blocks of time during which the average combustion temperature within the RTO does not comply with the temperature limitation specified above. These reports shall be submitted quarterly, as required in the General Terms and Conditions, Part I, Section A.1.c.ii.
3. The permittee shall notify the Ohio EPA Central District Office in writing of any record showing that the downdraft air system was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Central District Office within 30 days after the event occurs.
4. The permittee shall submit annual reports which specify the total emissions of particulates and organic compounds from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.
5. The permittee shall submit deviation reports which identify any record of an exceedance of the 12-month rolling OC emission limitation and/or production limitation on parts coated. These reports shall be submitted quarterly, as required in the General Terms and Conditions, Part I, Section A.1.c.ii.

V. Testing Requirements

1. Compliance with the emission limitations contained in this permit shall be determined in accordance with the following methods:

Emission Limitation

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

Applicable Compliance Method

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

2. Emission Limitation

107 tons of VOC per rolling 12-months from the POPA coating operations

Applicable Compliance Method

Compliance with this rolling 12-month facility OC limit shall be determined through the permit requirements and recordkeeping contained in the terms of each individual emissions unit included in this limit. Formulation data or USEPA Method 24 shall be used to determine the organic compound content of coatings, reducing solvents, cleanup and purge materials. The emissions, contributed to this limit by this emissions unit, shall be calculated by adding the monthly emissions, derived from emission calculations from all coatings and materials applied and cleanup material/purge used each month, in this emissions unit. The OC emissions credit shall be calculated using the OC test result(s) of each shipment along with the amount of recovered material each composite sample represents. Until mass balance calculations and testing has been conducted as required in Section A.V.6, the facility shall assume 82% control of the estimated emissions from this emissions unit, and after testing shall use the most recent emission testing results for capture and destruction efficiencies to calculate emissions. Twelve-month rolling emissions shall be calculated by adding the current monthly emission calculations from the emissions unit to the previous 11 month's emission calculations. To ensure federal enforceability during the first 12 calendar months of operation, following the issuance of this permit, the POPA coating operations, R200, R201, R202, R203, and R204 together, shall not exceed the emission limitations defined in the table contained in Section A.I.2.b.

3. Emission Limitation

5.67 lbs of OC per hour

Applicable Compliance Method

Until testing is completed, compliance with the hourly OC emission limit shall be determined through monthly recordkeeping of the coating, purge and cleaning material usage, the organic compound content of each material used, and documentation of the maximum coating OC content and maximum usage in any hour. Formulation data from the manufacturer or US EPA Method 24 shall be used to determine the organic compound content of the coatings, purge, and cleaning materials to be used in the calculation of emissions. Potential hourly emissions shall be calculated by multiplying the maximum OC content of any coating, purge, and cleanup materials used (lbs OC/gallon of material) times each materials' maximum usage in any hour (gallons/hr). Until mass balance calculations and testing has been conducted as required in Section A.V.6, the facility shall assume 82% control of the estimated emissions from this emissions unit, and after testing shall use the most recent emission testing results for capture and destruction efficiencies to calculate emissions. Worst case calculations shall be documented as follows:

Uncontrolled OC emissions/hr = (4.099 lbs OC/gal of coating) x (8.61 gal/hr) = 35.29 lbs OC/hr

From RTO:

OC emissions/hr = (35.29 lbs OC/hr) x (93% concentrator capture efficiency + 2% to oven) x (93% concentrator removal efficiency) x (100% - 95% RTO control efficiency) = 1.56 lbs OC/hr

From Concentrator:

OC emissions/hr = [(35.29 lbs OC/hr) x (93% concentrator capture efficiency) x (100% - 93% concentrator removal efficiency)] + [(35.29 lbs OC/hr) x (2% to oven) x (100% - 93% concentrator removal efficiency)] = 2.35 lbs OC/hr

From miscellaneous losses:

OC emissions/hr = (35.29 lbs OC/hr) x (5% lost) = 1.76 lbs OC/hr

Total: 5.67 lbs OC/hr

These calculations may be adjusted after testing has been conducted, if capture and control efficiencies are measured to be different from those assumed above.

4. Emission Limitations from all natural gas usage for the POPA plastic parts coating lines, including all drying ovens, air supply units, the concentrator(s), and the RTO for emissions units R200, R201, R202, R203, and R204:

3.86 lbs NOx/hr;

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Emissions Unit ID: R202

14.31 tons NO_x/yr;
 3.25 lbs CO/hr;
 12.02 tons CO/yr;
 0.07 lb filterable PE/hr;
 0.27 ton filterable PE/yr;
 0.21 lb OC/hr;
 0.79 ton OC/yr;
 0.02 lb SO₂/hr;
 0.09 ton SO₂/yr

Applicable Compliance Method

These limits represent the maximum capacity of the burners of all the drying ovens, the air supply units, the concentrator(s), and the RTO for the POPA operations. These emission limitations were determined by multiplying the maximum natural gas usage from all these burners (38,635 ft³/hr) by the emission factors for each pollutant (lbs of pollutant/MM ft³) found in "Compilation of Air Pollutant Emission Factors", the 7/98 edition of AP-42, Tables 1.4-1, and 1.4-2. The RTO burners shall be fueled by the organic compounds, for which they were installed to control; and it is estimated that they shall require no more than 50 hours of natural gas fuel to begin combustion. Other than the RTO burners, the remaining hourly natural gas usage was multiplied by 8760 hours per year and divided by 2000 pounds per ton, to obtain the potential emissions of the burners. Since these limits reflect the potential emissions of the burners, no additional compliance determination is required.

5. Emissions Limit

0.551 lb particulate emissions/hr from overspray in the clearcoat booth A;
 13.6 tons particulate emissions/yr, from overspray from the combined plastic parts coating operations, emission units R200, R201, R202, R203, and R204

Compliance Method

Compliance with the hourly limit shall be based on meeting the requirements for the downdraft air system found in Sections A.II.1, A.III.3, and A.IV.2 of Part III. If required, compliance shall be determined through testing, performed in accordance with 40 CFR Part 60, Appendix A, Method 5.

Compliance with the annual limit shall be based on meeting the requirements for the downdraft air systems specified under Sections A. II. (Operational Restrictions), A.III (Monitoring/Recordkeeping), and A.IV. (Reporting) of Part III for emissions units R200, R201, R202, R203, and R204, and submitting annual reports or Fee Emission Reports with the calculated emissions of particulate matter, derived from material usage records, at the end of each year.

6. Emission Limitation

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Facility ID: **0180000130**

Emissions Unit ID: R202

5.67 lbs of OC/hr

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The permittee shall conduct, or have conducted, emission testing and develop a mass balance demonstration of organic compound emissions for this emissions unit in accordance with the following requirements:

- a. the emission testing shall be conducted within 6 months after project completion and mass production startup;
- b. the emission testing shall be conducted to demonstrate compliance with the hourly emission limit, through a mass balance demonstration, and to document the overall reduction of OC emissions from the coating operations, after actual control and capture efficiencies are measured;
- c. the following test methods shall be employed to demonstrate compliance with the allowable mass emission rate(s): Method 1 for sample and velocity traverses; Method 2 for velocity and volumetric flow rates; Method 24 for the OC content of the coating; Methods 25 or 25A for destruction efficiency after the RTO; Methods 18, 25 or 25A for the OC concentration in the effluent gas leaving the concentrator; and Methods 204A through F for the capture efficiency of the concentrator. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA; or, any Method of testing may be required/requested by the Administrator; and,
- d. the test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA Central District Office.
- e. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA Central District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA Central District Office's refusal to accept the results of the emission test(s).
- f. Personnel from the Ohio EPA Central District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

Modification Issued: 10/23/2001

g. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA Central District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA Central District Office.

VI. Miscellaneous Requirements

None

Modification Issued: 10/23/2001

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
R202 - Clearcoat Booth A for POPA plastic parts coating line; with natural gas oven and/or infrared oven, concentrator, and RTO control (Modification)		Compliance with Ohio Air Toxic Policy

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

1. The permit to install for this emissions unit was evaluated based on the actual 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:

Pollutant: Cyclohexanone

TLV: 96 mg/m³ (skin)

Maximum Hourly Emission Rate: 51.2 lbs/hr

Predicted 1-Hour Maximum Ground-Level Concentration: 1.19 mg/m³

MAGLC: 2.29 mg/m³

2. 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 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.
3. 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,

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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.

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IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

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

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>
R203 - Basecoat Booth B for POPA plastic parts coating line; with natural gas air supply, concentrator, and RTO control (Modification)	OAC rule 3745-31-05(A)(3)
	OAC rule 3745-21-07(G)
	OAC rule 3745-31-05(D)

	<u>Applicable Emissions Limitations/Control Measures</u>	
OAC rule 3745-17-07(A)(1)	Organic compound emissions from the application and drying of POPA coatings in basecoat booth shall not exceed 11.21 lbs/hr.	Exempt from the limitations in 3745-21-07(G)(2) by using only non-photochemically reactive materials or material exempt under 3745-21-07(G)(9), see Section A.I.2.a below.
OAC rule 3745-17-11(B)(1)	Particulate emissions (PE) from the overspray of POPA coatings shall not exceed 13.6 tons per year from emission units R200, R201, R202, R203, and R204.	Organic compound emissions from the application and drying of coatings, and from the cleanup, and purge materials usage shall not exceed 107 tons per rolling 12 months from the POPA coating operations, including emission units R200, R201, R202, R203, and R204, and see Section A.I.2.b below.
	The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1), 3745-17-11(B)(1), and 3745-31-05(D).	Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.
	Emissions from all natural gas usage for the POPA plastic parts coating lines, including all drying ovens, air supply units, the concentrator(s), and the RTO for emissions units R200, R201, R202, R203, and R204 shall not exceed:	Particulate emissions from overspray in R203 shall not exceed 0.724 lb/hr.
	3.86 lbs NO _x /hr; 14.31 tons NO _x /yr; 3.25 lbs CO/hr; 12.02 tons CO/yr; 0.07 lb filterable PE/hr; 0.27 ton filterable PE/yr; 0.21 lb OC/hr; 0.79 ton OC/yr; 0.02 lb SO ₂ /hr; 0.09 ton SO ₂ /yr	

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Emissions Unit ID: R203

2. Additional Terms and Conditions

- 2.a** This emissions unit shall use only non-photochemically reactive materials, as defined in OAC rule 3745-21-01(C)(5), or materials exempt per OAC 3745-21-07(G)(9).
- 2.b** To ensure federal enforceability during the first 12 calendar months of operation, following the issuance of this permit, the POPA coating operations, R200, R201, R202, R203, and R204 together, shall not exceed the monthly emission limitations defined in the following table:

<u>Month</u>	<u>Rolling 12-Month OC Emission Calculations</u>
1	17,833 lbs.
1-2	35,666 lbs.
1-3	53,500 lbs.
1-4	71,333 lbs.
1-5	89,166 lbs.
1-6	107,000 lbs.
1-7	124,833 lbs.
1-8	142,666 lbs.
1-9	160,500 lbs.
1-10	178,332 lbs.
1-11	196,166 lbs.
1-12	214,000 lbs.

II. Operational Restrictions

- The OC emissions from this emissions unit shall be collected by a concentrator and vented to a regenerative thermal oxidizer (RTO), which together shall reduce OC emissions from these coating operations by an estimated 82% (this number shall be finalized through emission testing). The actual OC reductions, determined from the testing requirements in Section A.V.6, shall be used to calculate emissions and demonstrate compliance with the limits contained in this permit.
- The POPA coating operations shall be limited to a production limit of 630,998 plastic part sets per rolling 12 months (set consists of two plastic parts).
- The average combustion temperature within the RTO, for any 3-hour block of time when the emissions unit is in operation, shall not be more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance, or below 1200 degrees Fahrenheit until such time of testing.
- The permittee shall operate the downdraft air system whenever this emissions unit is in operation.

III. Monitoring and/or Recordkeeping Requirements

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1. The permittee shall collect and record the following information for each month for the coating operations:
 - a. the company identification for each coating, coating component, and cleanup material employed, as packaged;
 - b. the number of gallons of each coating, coating component, and cleanup material employed;
 - c. the organic compound content of each coating, coating component, and cleanup material, in pounds per gallon;
 - d. the total organic compound emissions for all coatings, coating components, and cleanup materials, prior to control and any recovery credit, in pounds or tons per month;
 - e. if a credit for recovered materials is used, the total OC/VOC emissions from recovered materials to be credited against the total OC/VOC emissions from all coatings, purge and cleanup materials employed, in pounds or tons (from Section A.III.2.e below);
 - f. if a credit for recovered materials is used, the adjusted total OC/VOC emissions from all coatings, purge and cleanup materials employed, in pounds or tons (i.e., (d) - (e));
 - g. the controlled net OC emissions from all coatings, coating components, and cleanup/purge materials employed, in pounds or tons per month (until control efficiencies are established in testing, as per Section A.V.6, overall control shall be estimated at 82%);
 - h. the rolling, 12-month total OC emissions from the coatings, coating components, and cleanup materials employed in the POPA coating operations, including emissions units R200, R201, R202, R203, and R204; and
 - i. The total number of plastic part sets produced in the POPA coating operations (set consists of two plastic parts).
2. If a credit for recovered materials is used in Section A.III.1 above, the permittee shall maintain the following records for the recovered materials and the recovery tank(s) serving emissions units R200, R201, R202, R203, and R204:
 - a. the date the material is removed from the POPA recovery tank(s);

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- b. the date the materials from the POPA recovery tank(s) were shipped off site;
 - c. the number of gallons of materials from the POPA recovery tank(s) shipped off site;
 - d. the OC/VOC content of the materials from the POPA recovery tank(s), in pounds per gallon; and
 - e. the total OC/VOC emissions from recovered materials to be credited against the total OC/VOC emissions from all coatings and purge and cleanup materials employed, in pounds or tons.
3. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the RTO when the emissions unit is in operation. 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.
 4. The permittee shall collect and record the following information each day for the control equipment:
 - a. for the RTO and concentrator, a log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation; and
 - b. all 3-hour blocks of time during which the average combustion temperatures within the RTO, 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, or below 1200 degrees Fahrenheit until such time of testing.
 5. The permittee shall maintain records that document any time periods when the downdraft air system was not in service when the emissions unit was in operation.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify any record showing the application of a photochemically reactive material or material not exempt under 3745-21-07(G)(9) in this emission unit. These reports shall be submitted quarterly, as required in the General Terms and Conditions, Part I, Section A.1.c.ii.
2. The permittee shall submit deviation (excursion) reports which identify all 3-hour blocks of time during which the average combustion temperature within the RTO does not comply with the temperature limitation specified above. These reports shall be submitted quarterly, as required in the General Terms and Conditions, Part I, Section A.1.c.ii.

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3. The permittee shall notify the Ohio EPA Central District Office in writing of any record showing that the downdraft air system was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Central District Office within 30 days after the event occurs.
4. The permittee shall submit annual reports which specify the total emissions of particulates and organic compounds from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.
5. The permittee shall submit deviation reports which identify any record of an exceedance of the 12-month rolling OC emission limitation and/or production limitation on parts coated. These reports shall be submitted quarterly, as required in the General Terms and Conditions, Part I, Section A.1.c.ii.

V. Testing Requirements

1. Compliance with the emission limitations contained in this permit shall be determined in accordance with the following methods:

Emission Limitation

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

Applicable Compliance Method

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

2. Emission Limitation

107 tons of VOC per rolling 12-months from the POPA coating operations

Applicable Compliance Method

Compliance with this rolling 12-month facility OC limit shall be determined through the permit requirements and recordkeeping contained in the terms of each individual emissions unit included in this limit. Formulation data or USEPA Method 24 shall be used to determine the organic compound content of coatings, reducing solvents, cleanup and purge materials. The emissions, contributed to this limit by this emissions unit, shall be calculated by adding the monthly emissions, derived from emission calculations from all coatings and materials applied and cleanup material/purge used each month, in this emissions unit. The OC emissions credit shall be calculated using the OC test result(s) of each shipment along with the amount of recovered material each composite sample represents. Until mass balance calculations and testing has been conducted as required in Section A.V.6, the facility shall assume 82% control of the estimated emissions from this emissions unit, and after testing shall use the most recent emission testing results for capture and destruction efficiencies to calculate emissions. Twelve-month rolling emissions shall be calculated by adding the current monthly emission calculations from the emissions unit to the previous 11 month's emission calculations. To ensure federal enforceability during the first 12 calendar months of operation, following the issuance of this permit, the POPA coating operations, R200, R201, R202, R203, and R204 together, shall not exceed the emission limitations defined in the table contained in Section A.I.2.b.

3. Emission Limitation

11.21 lbs of OC per hour

Applicable Compliance Method

Until testing is completed, compliance with the hourly OC emission limit shall be determined through monthly recordkeeping of the coating, purge and cleaning material usage, the organic compound content of each material used, and documentation of the maximum coating OC content and maximum usage in any hour. Formulation data from the manufacturer or US EPA Method 24 shall be used to determine the organic compound content of the coatings, purge, and cleaning materials to be used in the calculation of emissions. Potential hourly emissions shall be calculated by multiplying the maximum OC content of any coating, purge, and cleanup materials used (lbs OC/gallon of material) times each materials' maximum usage in any hour (gallons/hr). Until mass balance calculations and testing has been conducted as required in Section A.V.6, the facility shall assume 82% control of the estimated emissions from this emissions unit, and *after testing* shall use the most recent emission testing results for capture and destruction efficiencies to calculate emissions. Worst case calculations shall be documented as follows:

$$\text{Uncontrolled OC emissions/hr} = (4.8 \text{ lbs OC/gal of coating}) \times (14.54 \text{ gal/hr}) = 69.79 \text{ lbs OC/hr}$$

From RTO:

$$\text{OC emissions/hr} = (69.79 \text{ lbs OC/hr}) \times (93\% \text{ concentrator capture efficiency} + 2\% \text{ to oven}) \times (93\% \text{ concentrator removal efficiency}) \times (100\% - 95\% \text{ RTO control efficiency}) = 3.08 \text{ lbs OC/hr}$$

From Concentrator:

$$\text{OC emissions/hr} = [(69.79 \text{ lbs OC/hr}) \times (93\% \text{ concentrator capture efficiency}) \times (100\% - 93\% \text{ concentrator removal efficiency})] + [(69.79 \text{ lbs OC/hr}) \times (2\% \text{ to oven}) \times (100\% - 93\% \text{ concentrator removal efficiency})] = 4.64 \text{ lbs OC/hr}$$

From miscellaneous losses:

$$\text{OC emissions/hr} = (69.79 \text{ lbs OC/hr}) \times (5\% \text{ lost}) = 3.49 \text{ lbs OC/hr}$$

Total: 11.21 lbs OC/hr

These calculations may be adjusted after testing has been conducted, if capture and control efficiencies are measured to be different from those assumed above.

4. Emission Limitations from all natural gas usage for the POPA plastic parts coating lines, including all drying ovens, air supply units, the concentrator(s), and the RTO for emissions units R200, R201, R202, R203, and R204:

3.86 lbs NO_x/hr;

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Emissions Unit ID: R203

14.31 tons NO_x/yr;
 3.25 lbs CO/hr;
 12.02 tons CO/yr;
 0.07 lb filterable PE/hr;
 0.27 ton filterable PE/yr;
 0.21 lb OC/hr;
 0.79 ton OC/yr;
 0.02 lb SO₂/hr;
 0.09 ton SO₂/yr

Applicable Compliance Method

These limits represent the maximum capacity of the burners of all the drying ovens, the air supply units, the concentrator(s), and the RTO for the POPA operations. These emission limitations were determined by multiplying the maximum natural gas usage from all these burners (38,635 ft³/hr) by the emission factors for each pollutant (lbs of pollutant/MM ft³) found in "Compilation of Air Pollutant Emission Factors", the 7/98 edition of AP-42, Tables 1.4-1, and 1.4-2. The RTO burners shall be fueled by the organic compounds, for which they were installed to control; and it is estimated that they shall require no more than 50 hours of natural gas fuel to begin combustion. Other than the RTO burners, the remaining hourly natural gas usage was multiplied by 8760 hours per year and divided by 2000 pounds per ton, to obtain the potential emissions of the burners. Since these limits reflect the potential emissions of the burners, no additional compliance determination is required.

5. Emissions Limit

0.724 lb particulate emissions/hr from overspray in the basecoat booth B;
 13.6 tons particulate emissions/yr, from overspray from the combined plastic parts coating operations, emission units R200, R201, R202, R203, and R204

Compliance Method

Compliance with the hourly limit shall be based on meeting the requirements for the downdraft air system found in Sections A.II.1, A.III.3, and A.IV.2 of Part III. If required, compliance shall be determined through testing, performed in accordance with 40 CFR Part 60, Appendix A, Method 5.

Compliance with the annual limit shall be based on meeting the requirements for the downdraft air systems specified under Sections A. II. (Operational Restrictions), A.III (Monitoring/Recordkeeping), and A.IV. (Reporting) of Part III for emissions units R200, R201, R202, R203, and R204, and submitting annual reports or Fee Emission Reports with the calculated emissions of particulate matter, derived from material usage records, at the end of each year.

6. Emission Limitation

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Emissions Unit ID: R203

11.21 lbs of OC/hr

Modification Issued: 10/23/2001Compliance Method

The permittee shall conduct, or have conducted, emission testing and develop a mass balance demonstration of organic compound emissions for this emissions unit in accordance with the following requirements:

- a. the emission testing shall be conducted within 6 months after project completion and mass production startup;
- b. the emission testing shall be conducted to demonstrate compliance with the hourly emission limit, through a mass balance demonstration, and to document the overall reduction of OC emissions from the coating operations, after actual control and capture efficiencies are measured;
- c. the following test methods shall be employed to demonstrate compliance with the allowable mass emission rate(s): Method 1 for sample and velocity traverses; Method 2 for velocity and volumetric flow rates; Method 24 for the OC content of the coating; Methods 25 or 25A for destruction efficiency after the RTO; Methods 18, 25 or 25A for the OC concentration in the effluent gas leaving the concentrator; and Methods 204A through F for the capture efficiency of the concentrator. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA; or, any Method of testing may be required/requested by the Administrator; and,
- d. the test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA Central District Office.
- e. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA Central District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA Central District Office's refusal to accept the results of the emission test(s).
- f. Personnel from the Ohio EPA Central District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

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g. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA Central District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA Central District Office.

VI. Miscellaneous Requirements

None

Modification Issued: 10/23/2001

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
R203 - Basecoat Booth B for POPA plastic parts coating line; with natural gas air supply, concentrator, and RTO control (Modification)		Compliance with Ohio Air Toxic Policy

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

1. The permit to install for this emissions unit was evaluated based on the actual 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:

Pollutant: Cyclohexanone

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TLV: 96 mg/m³ (skin)

Maximum Hourly Emission Rate: 51.2 lbs/hr

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Predicted 1-Hour Maximum Ground-Level Concentration: 1.19 mg/m³

MAGLC: 2.29 mg/m³

2. 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 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.

3. 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,

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- 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.

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IV Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

This Permit to Install (01-08167) replaces the requirements for the operations of emissions units R302 and P303 in the PTI numbered 01-0999 issued 2/8/89, upon the startup of these coating operations.

	<u>Applicable Emissions Limitations/Control Measures</u>	
OAC rule 3745-17-11(B)(1)	<p>Organic compound emissions from the application and drying of POPA coatings in clearcoat booth B shall not exceed 5.67 lbs/hr.</p> <p>Particulate emissions (PE) from the overspray of POPA coatings shall not exceed 13.6 tons per year from emission units R200, R201, R202, R203, and R204.</p> <p>The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1), 3745-17-11(B)(1), and 3745-31-05(D).</p> <p>Emissions from all natural gas usage for the POPA plastic parts coating lines, including all drying ovens, air supply units, the concentrator(s), and the RTO for emissions units R200, R201, R202, R203, and R204 shall not exceed:</p> <p>3.86 lbs NO_x/hr; 14.31 tons NO_x/yr; 3.25 lbs CO/hr; 12.02 tons CO/yr; 0.07 lb filterable PE/hr; 0.27 ton filterable PE/yr; 0.21 lb OC/hr; 0.79 ton OC/yr; 0.02 lb SO₂/hr; 0.09 ton SO₂/yr</p>	<p>Exempt from the limitations in 3745-21-07(G)(2) by using only non-photochemically reactive materials or material exempt under 3745-21-07(G)(9), see Section A.I.2.a below.</p> <p>Organic compound emissions from the application and drying of coatings, and from the cleanup, and purge materials usage shall not exceed 107 tons per rolling 12 months from the POPA coating operations, including emission units R200, R201, R202, R203, and R204, and see Section A.I.2.b below.</p> <p>Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.</p> <p>Particulate emissions from overspray in R204 shall not exceed 0.551 lb/hour. .</p>

2. Additional Terms and Conditions

- 2.a** This emissions unit shall use only non-photochemically reactive materials, as defined in OAC rule 3745-21-01(C)(5), or materials exempt per OAC 3745-21-07(G)(9).
- 2.b** To ensure federal enforceability during the first 12 calendar months of operation, following the issuance of this permit, the POPA coating operations, R200, R201, R202, R203, and R204 together, shall not exceed the monthly emission limitations defined in the following table:

<u>Month</u>	<u>Rolling 12-Month OC Emission Calculations</u>
1	17,833 lbs.
1-2	35,666 lbs.
1-3	53,500 lbs.
1-4	71,333 lbs.
1-5	89,166 lbs.
1-6	107,000 lbs.
1-7	124,833 lbs.
1-8	142,666 lbs.
1-9	160,500 lbs.
1-10	178,332 lbs.
1-11	196,166 lbs.
1-12	214,000 lbs.

II. Operational Restrictions

- The OC emissions from this emissions unit shall be collected by a concentrator and vented to a regenerative thermal oxidizer (RTO), which together shall reduce OC emissions from these coating operations by an estimated 82% (this number shall be finalized through emission testing). The actual OC reductions, determined from the testing requirements in Section A.V.6, shall be used to calculate emissions and demonstrate compliance with the limits contained in this permit.
- The POPA coating operations shall be limited to a production limit of 630,998 plastic part sets per rolling 12 months (set consists of two plastic parts).
- The average combustion temperature within the RTO, for any 3-hour block of time when the emissions unit is in operation, shall not be more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance, or below 1200 degrees Fahrenheit until such time of testing.
- The permittee shall operate the downdraft air system whenever this emissions unit is in operation.

Modification Issued: 10/23/2001

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect and record the following information for each month for the coating operations:
 - a. the company identification for each coating, coating component, and cleanup material employed, as packaged;
 - b. the number of gallons of each coating, coating component, and cleanup material employed;
 - c. the organic compound content of each coating, coating component, and cleanup material, in pounds per gallon;
 - d. the total organic compound emissions for all coatings, coating components, and cleanup materials, prior to control and any recovery credit, in pounds or tons per month;
 - e. if a credit for recovered materials is used, the total OC/VOC emissions from recovered materials to be credited against the total OC/VOC emissions from all coatings, purge and cleanup materials employed, in pounds or tons (from Section A.III.2.e below);
 - f. if a credit for recovered materials is used, the adjusted total OC/VOC emissions from all coatings, purge and cleanup materials employed, in pounds or tons (i.e., (d) - (e));
 - g. the controlled net OC emissions from all coatings, coating components, and cleanup/purge materials employed, in pounds or tons per month (until control efficiencies are established in testing, as per Section A.V.6, overall control shall be estimated at 82%);
 - h. the rolling 12-month total OC emissions from the coatings, coating components, and cleanup materials employed in the POPA coating operations, including emissions units R200, R201, R202, R203, and R204; and
 - i. The total number of plastic part sets produced in the POPA coating operations (set consists of two plastic parts).
2. If a credit for recovered materials is used in Section A.III.1 above, the permittee shall maintain the following records for the recovered materials and the recovery tank(s) serving emissions units R200, R201, R202, R203, and R204:
 - a. the date the material is removed from the POPA recovery tank(s);

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Emissions Unit ID: R204

- b. the date the materials from the POPA recovery tank(s) were shipped off site;
 - c. the number of gallons of materials from the POPA recovery tank(s) shipped off site;
 - d. the OC/VOC content of the materials from the POPA recovery tank(s), in pounds per gallon; and
 - e. the total OC/VOC emissions from recovered materials to be credited against the total OC/VOC emissions from all coatings and purge and cleanup materials employed, in pounds or tons.
3. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the RTO when the emissions unit is in operation. 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.
 4. The permittee shall collect and record the following information each day for the control equipment:
 - a. for the RTO and concentrator, a log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation; and,
 - b. all 3-hour blocks of time during which the average combustion temperatures within the RTO , 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, or below 1200 degrees Fahrenheit until such time of testing.
 5. The permittee shall maintain records that document any time periods when the downdraft air system was not in service when the emissions unit was in operation.

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify any record showing the application of a photochemically reactive material or material not exempt under 3745-21-07(G)(9) in this emission unit. These reports shall be submitted quarterly, as required in the General Terms and Conditions, Part I, Section A.1.c.ii.
2. The permittee shall submit deviation (excursion) reports which identify all 3-hour blocks of time during which the average combustion temperature within the RTO does not comply with the

Modif

Emissions Unit ID: R204

temperature limitation specified above. These reports shall be submitted quarterly, as required in the General Terms and Conditions, Part I, Section A.1.c.ii.

3. The permittee shall notify the Ohio EPA Central District Office in writing of any record showing that the downdraft air system was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Central District Office within 30 days after the event occurs.
4. The permittee shall submit annual reports which specify the total emissions of particulates and organic compounds from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.
5. The permittee shall submit deviation reports which identify any record of an exceedance of the 12-month rolling OC emission limitation and/or production limitation on parts coated. These reports shall be submitted quarterly, as required in the General Terms and Conditions, Part I, Section A.1.c.ii.

V. Testing Requirements

1. Compliance with the emission limitations contained in this permit shall be determined in accordance with the following methods:

Emission Limitation

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

Applicable Compliance Method

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

2. Emission Limitation

107 tons of VOC per rolling 12-months from the POPA coating operations

Applicable Compliance Method

Compliance with this rolling 12-month facility OC limit shall be determined through the permit requirements and recordkeeping contained in the terms of each individual emissions unit included in this limit. Formulation data or USEPA Method 24 shall be used to determine the organic compound content of coatings, reducing solvents, cleanup and purge materials. The emissions, contributed to this limit by this emissions unit, shall be calculated by adding the monthly emissions, derived from emission calculations from all coatings and materials applied and cleanup material/purge used each month, in this emissions unit. The OC emissions credit shall be calculated using the OC test result(s) of each shipment along with the amount of recovered material each composite sample represents. Until mass balance calculations and testing has been conducted as required in Section A.V.6, the facility shall assume 82% control of the estimated emissions from this emissions unit, and after testing shall use the most recent emission testing results for capture and destruction efficiencies to calculate emissions. Twelve-month rolling emissions shall be calculated by adding the current monthly emission calculations from the emissions unit to the previous 11 month's emission calculations. To ensure federal enforceability during the first 12 calendar months of operation, following the issuance of this permit, the POPA coating operations, R200, R201, R202, R203, and R204 together, shall not exceed the emission limitations defined in the table contained in Section A.I.2.b.

3. Emission Limitation

5.67 lbs of OC per hour

Applicable Compliance Method

Until testing is completed, compliance with the hourly OC emission limit shall be determined through monthly recordkeeping of the coating, purge and cleaning material usage, the organic compound content of each material used, and documentation of the maximum coating OC content and maximum usage in any hour. Formulation data from the manufacturer or US EPA Method 24 shall be used to determine the organic compound content of the coatings, purge, and cleaning materials to be used in the calculation of emissions. Potential hourly emissions shall be calculated by multiplying the maximum OC content of any coating, purge, and cleanup materials used (lbs OC/gallon of material) times each materials' maximum usage in any hour (gallons/hr). Until mass balance calculations and testing has been conducted as required in Section A.V.6, the facility shall assume 82% control of the estimated emissions from this emissions unit, and after testing shall use the most recent emission testing results for capture and destruction efficiencies to calculate emissions. Worst case calculations shall be documented as follows:

$$\text{Uncontrolled OC emissions/hr} = (4.099 \text{ lbs OC/gal of coating}) \times (8.61 \text{ gal/hr}) = 35.29 \text{ lbs OC/hr}$$

From RTO:

$$\text{OC emissions/hr} = (35.29 \text{ lbs OC/hr}) \times (93\% \text{ concentrator capture efficiency} + 2\% \text{ to oven}) \times (93\% \text{ concentrator removal efficiency}) \times (100\% - 95\% \text{ RTO control efficiency}) = 1.56 \text{ lbs OC/hr}$$

From Concentrator:

$$\text{OC emissions/hr} = [(35.29 \text{ lbs OC/hr}) \times (93\% \text{ concentrator capture efficiency}) \times (100\% - 93\% \text{ concentrator removal efficiency})] + [(35.29 \text{ lbs OC/hr}) \times (2\% \text{ to oven}) \times (100\% - 93\% \text{ concentrator removal efficiency})] = 2.35 \text{ lbs OC/hr}$$

From miscellaneous losses:

$$\text{OC emissions/hr} = (35.29 \text{ lbs OC/hr}) \times (5\% \text{ lost}) = 1.76 \text{ lbs OC/hr}$$

Total: 5.67 lbs OC/hr

These calculations may be adjusted after testing has been conducted, if capture and control efficiencies are measured to be different from those assumed above.

4. Emission Limitations from all natural gas usage for the POPA plastic parts coating lines, including all drying ovens, air supply units, the concentrator(s), and the RTO for emissions units R200, R201, R202, R203, and R204:

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3.86 lbs NO_x/hr;
14.31 tons NO_x/yr;
3.25 lbs CO/hr;
12.02 tons CO/yr;
0.07 lb filterable PE/hr;
0.27 ton filterable PE/yr;
0.21 lb OC/hr;
0.79 ton OC/yr;
0.02 lb SO₂/hr;
0.09 ton SO₂/yr

Applicable Compliance Method

These limits represent the maximum capacity of the burners of all the drying ovens, the air supply units, the concentrator(s), and the RTO for the POPA operations. These emission limitations were determined by multiplying the maximum natural gas usage from all these burners (38,635 ft³/hr) by the emission factors for each pollutant (lbs of pollutant/MM ft³) found in "Compilation of Air Pollutant Emission Factors", the 7/98 edition of AP-42, Tables 1.4-1, and 1.4-2. The RTO burners shall be fueled by the organic compounds, for which they were installed to control; and it is estimated that they shall require no more than 50 hours of natural gas fuel to begin combustion. Other than the RTO burners, the remaining hourly natural gas usage was multiplied by 8760 hours per year and divided by 2000 pounds per ton, to obtain the potential emissions of the burners. Since these limits reflect the potential emissions of the burners, no additional compliance determination is required.

5. Emissions Limit

0.551 lb particulate emissions/hr from overspray in the clearcoat booth B;
13.6 tons particulate emissions/yr, from overspray from the combined plastic parts coating operations, emission units R200, R201, R202, R203, and R204

Compliance Method

Compliance with the hourly limit shall be based on meeting the requirements for the downdraft air system found in Sections A.II.1, A.III.3, and A.IV.2 of Part III. If required, compliance shall be determined through testing, performed in accordance with 40 CFR Part 60, Appendix A, Method 5.

Compliance with the annual limit shall be based on meeting the requirements for the downdraft air systems specified under Sections A. II. (Operational Restrictions), A.III (Monitoring/

Emissions Unit ID: R204

Recordkeeping), and A.IV. (Reporting) of Part III for emissions units R200, R201, R202, R203, and R204, and submitting annual reports or Fee Emission Reports with the calculated emissions of particulate matter, derived from material usage records, at the end of each year.

6. Emission Limitation

5.67 lbs of OC/hr

Compliance Method

The permittee shall conduct, or have conducted, emission testing and develop a mass balance demonstration of organic compound emissions for this emissions unit in accordance with the following requirements:

- a. the emission testing shall be conducted within 6 months after project completion and mass production startup;
- b. the emission testing shall be conducted to demonstrate compliance with the hourly emission limit, through a mass balance demonstration, and to document the overall reduction of OC emissions from the coating operations, after actual control and capture efficiencies are measured;
- c. the following test methods shall be employed to demonstrate compliance with the allowable mass emission rate(s): Method 1 for sample and velocity traverses; Method 2 for velocity and volumetric flow rates; Method 24 for the OC content of the coating; Methods 25 or 25A for destruction efficiency after the RTO; Methods 18, 25 or 25A for the OC concentration in the effluent gas leaving the concentrator; and Methods 204A through F for the capture efficiency of the concentrator. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA; or, any Method of testing may be required/requested by the Administrator; and,
- d. the test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA Central District Office.
- e. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA Central District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA Central District Office's refusal to accept the results of the emission test(s).
- f. Personnel from the Ohio EPA Central District Office shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

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g. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA Central District Office within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA Central District Office.

VI. Miscellaneous Requirements

None

Modification Issued: 10/23/2001

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
R204 - Clearcoat Booth B for POPA plastic parts coating line; with natural gas oven and/or infrared oven, concentrator, and RTO control (Modification)		Compliance with Ohio Air Toxic Policy

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

- 1. The permit to install for this emissions unit was evaluated based on the actual 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:

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Emissions Unit ID: R204

Pollutant: Cyclohexanone

TLV: 96 mg/m³ (skin)

Maximum Hourly Emission Rate: 51.2 lbs/hr

Predicted 1-Hour Maximum Ground-Level Concentration: 1.19 mg/m³MAGLC: 2.29 mg/m³

2. 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 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.

2. 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

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Modification Issued: 10/23/2001

Emissions Unit ID: R204

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.

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Emissions Unit ID: R204

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

This Permit to Install (01-08167) replaces the requirements for the operations of emissions unit R303 in the PTI numbered 01-0999 issued 2/8/89, upon the startup of these coating operations.

NEW SOURCE REVIEW FORM B

PTI Number: 01-08167 Facility ID: 0180000130

FACILITY NAME Honda of America Mfg Inc

FACILITY DESCRIPTION Auto manufacturer ~~Plastic parts coating line~~ CITY/TWP Marysville

SIC CODE 3711 SCC CODE 4-02-016-05 EMISSIONS UNIT ID P307

EMISSIONS UNIT DESCRIPTION POPA Paint Effluent System, existing system

DATE INSTALLED 1985 & 9/00 modification

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					
PM ₁₀					
Sulfur Dioxide					
Organic Compounds	Attainment	3.06	6.12	3.06	6.12
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

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? yes

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$

TOXIC AIR CONTAMINANTS:

Ohio EPA's air toxics policy applies to containinants for which the American Conference of Governmental

AIR TOXICS MODELING PERFORMED*? X YES NO

NEW SOURCE REVIEW FORM B

PTI Number: 01-08167

Facility ID: 0180000130

FACILITY NAME Honda of America Mfg Inc

FACILITY DESCRIPTION Auto manufacturer ~~Plastic parts coating line~~ CITY/TWP Marysville

**IDENTIFY THE AIR
CONTAMINANTS:**

petroleum distillate

NEW

PTI#

FAC#

Emissions Unit ID: R204

FACILITY DESCRIPTION Auto manufacturer ~~Plastic parts coating line~~

CITY/TWP Marysville

SIC CODE 3711

SCC CODE 4-02-016-05

EMISSIONS UNIT ID P340

EMISSIONS UNIT DESCRIPTION POPA Paint Effluent System, new system

DATE INSTALLED 9/00

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					
PM ₁₀					
Sulfur Dioxide					
Organic Compounds	Attainment	2.05	4.10	2.05	4.10
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

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? Yes

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$

TOXIC AIR CONTAMINANTS

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

NEW SOURCE REVIEW FORM B

PTI Number: 01-08167

Facility ID: 0180000130

FACILITY NAME Honda of America Mfg. Inc.

FACI _____

Emissions Unit ID: R204 _____

AIR TOXICS MODELING PERFORMED*? X YES NO

**IDENTIFY THE AIR
CONTAMINANTS:**

petroleum distillate

NEW

PTI#

FAC#

Emissions Unit ID: R204

FACILITY DESCRIPTION Auto manufacturer ~~Plastic parts coating line~~

CITY/TWP Marysville

SIC CODE 3711

SCC CODE 2-02-016-21

EMISSIONS UNIT ID R200

EMISSIONS UNIT DESCRIPTION Primer Booth for POPA plastic parts coating lines, with infrared or natural gas oven

DATE INSTALLED 9/00

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	0.557 & 0.073 from NG all EUs	13.6 & 0.272 from NG all EUs	0.557 & 0.073 from NG all EUs	13.6 & 0.272 from NG all EUs
PM ₁₀					
Sulfur Dioxide	Attainment	0.023 from NG all EUs	0.086 from NG all EUs	0.023 from NG all EUs	0.086 from NG all EUs
Organic Compounds	Attainment	17.44 & 0.212 from NG all EUs	32.8 & 0.787 from NG all EUs	17.44 & 0.212 from NG all EUs	32.8 & 0.787 from NG all EUs
Nitrogen Oxides	Attainment	3.864 from NG all EUs	14.309 from NG all EUs	3.864 from NG all EUs	14.309 from NG all EUs
Carbon Monoxide	Attainment	3.245 from NG all EUs	12.020 from NG all EUs	3.245 from NG all EUs	12.020 from NG all EUs
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

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FACI

FACILITY DESCRIPTION Auto manufacturer ~~Plastic parts coating line~~

Emissions Unit ID: R204
CITY/TWP Marysville

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? yes

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$

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 NO

IDENTIFY THE AIR CONTAMINANTS: Cyclohexanone, Methyl Amyl Ketone and see list

NEW SOURCE REVIEW FORM B

PTI Number: 01-08167 Facility ID: 0180000130

FACILITY NAME: Honda of America Mfg, Inc

FACI

Emissions Unit ID: R204

SIC CODE: 3711

SCC CODE: 2-02-016-23

EMISSIONS UNIT ID: R201

EMISSIONS UNIT DESCRIPTION: Basecoat Booth A for POPA plastic parts coating line; with natural gas air supply; and booth with concentrator, and RTO control

DATE INSTALLED: 9/00

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	0.723	13.6 from all booths	0.723	13.6 from all booths
PM ₁₀					
Sulfur Dioxide					
Organic Compounds	Attainment	11.21	23.1 & 14.4 facility POPA cleanup(all booths)	11.21	23.1 & 14.4 facility POPA cleanup (all booths)
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

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? yes

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$2,900,000 concentrators & RTO

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 NO

NEW

PTI T

FACI

FACILITY DESCRIPTION

Auto manufacturer ~~Plastic parts coating~~
~~line~~

Emissions Unit ID: R204
CITY/TWP Marysville

**IDENTIFY THE AIR
CONTAMINANTS:**

Cyclohexanone, Methyl Amyl Ketone **and see list**

NEW

PTI#

FAC#

Emissions Unit ID: R204

FACILITY DESCRIPTION Auto manufacturer ~~Plastic parts coating line~~

CITY/TWP Marysville

SIC CODE 3711

SCC CODE 4-02-016-25

EMISSIONS UNIT ID R202

EMISSIONS UNIT DESCRIPTION Clearcoat Booth A for POPA plastic parts coating line; with natural gas oven; and booth with concentrator, and RTO control

DATE INSTALLED 9/00

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	13.6 from all booths	0.551	13.6 from all booths
PM ₁₀					
Sulfur Dioxide					
Organic Compounds	Attainment	5.67	9.23	5.67	9.23
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

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? yes

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$2,900,000 concentrators & RTO

TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of

NEW SOURCE REVIEW FORM B

PTI Number: 01-08167

Facility ID: 0180000130

FACILITY NAME: Honda of America Mfg, Inc.

FACI

Emissions Unit ID: R204

Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*? X YES NO

**IDENTIFY THE AIR
CONTAMINANTS:**

Cyclohexanone, Methyl Amyl Ketone **and see list**

NEW

PTI#

FAC#

Emissions Unit ID: R204

FACILITY DESCRIPTION Auto manufacturer ~~Plastic parts coating line~~

CITY/TWP Marysville

SIC CODE 3711

SCC CODE 4-02-016-23

EMISSIONS UNIT ID R203

EMISSIONS UNIT DESCRIPTION Basecoat Booth B for POPA plastic parts coating line; with natural gas air supply; and booth with concentrator, and RTO control

DATE INSTALLED 9/00

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	0.723	13.6 from all booths	0.723	13.6 from all booths
PM ₁₀					
Sulfur Dioxide					
Organic Compounds	Attainment	11.21	18.28	11.21	18.28
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

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? yes

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$2,900,000 concentrators & RTO

TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of

NEW

PTI T

FACI

FACILITY DESCRIPTION Auto manufacturer ~~Plastic parts coating line~~ Emissions Unit ID: R204 CITY/TWP Marysville

Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*? X YES NO

**IDENTIFY THE AIR
CONTAMINANTS:**

Cyclohexanone, Methyl Amyl Ketone **and see list**

1 NEW SOURCE REVIEW FORM B

PTI Number: 01-08167 Facility ID: 0180000130

FACILITY NAME: Honda of America Mfg, Inc

FACI

Emissions Unit ID: R204

SIC CODE: 3711 SCC CODE: 4-02-016-25 EMISSIONS UNIT ID: R204

EMISSIONS UNIT DESCRIPTION: Clearcoat Booth B for POPA plastic parts coating line; with natural gas oven; and booth with concentrator and RTO control

DATE INSTALLED: 9/00

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	13.6 from all booths	0.551	13.6 from all booths
PM ₁₀					
Sulfur Dioxide					
Organic Compounds	Attainment	5.67	9.23	5.67	9.23
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

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? yes

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$2,900,000 concentrators & RTO

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 NO

IDENTIFY THE AIR CONTAMINANTS: Cyclohexanone, Methyl Amyl Ketone and see list