



State of Ohio Environmental Protection Agency

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

**CERTIFIED MAIL**

Street Address:

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

Mailing Address:

Lazarus Gov.  
Center

**Application No: 02-17027**

**DATE: 2/12/2004**

General Motors Corp. Lordstown Assembly  
Gerald King  
P.O. Box 1406 2300 Halock-Young Road  
Warren, OH 44481-1406

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  
309 South Fourth Street, Room 222  
Columbus, Ohio 43215

Sincerely,

*Michael W. Ahern*

Michael W. Ahern, Supervisor  
Field Operations and Permit Section  
Division of Air Pollution Control

CC: USEPA

NEDO



Permit To Install  
Terms and Conditions

Issue Date: 2/12/2004  
Effective Date: 2/12/2004

**FINAL ADMINISTRATIVE MODIFICATION OF PERMIT TO INSTALL 02-17027**

Application Number: 02-17027  
APS Premise Number: 0278000199  
Permit Fee: **\$800**  
Name of Facility: General Motors Corp. Lordstown Assembly  
Person to Contact: Gerald King  
Address: P.O. Box 1406 2300 Hallock-Young Road  
Warren, OH 44481-1406

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**2300 Hallock-Young Road**  
**Warren, Ohio**

Description of proposed emissions unit(s):  
**GM has decided to install 4, 50 mmBtu nat. gas fired boiler, rather than 3, 80 mmBtu boilers as is original PTI application. Also some typos in permit are being corrected.**

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.9 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. Permit To Operate Application**

- 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 ninety (90) 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.

**12. 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.

**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**

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. 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.

#### **5. 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.

#### **6. 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.

#### **7. Applicability**

This Permit To Install is applicable only to the emissions unit(s) identified in the Permit To Install. Separate Permit To Install for the installation or modification of any other emissions unit(s) are required for any emissions unit for which a Permit To Install is required.

#### 8. 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.

#### 9. 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.

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

<u>Pollutant</u>	<u>Tons Per Year</u>
VOC	1472.4
NOx	177.5
PE	48.5
CO	153.8
SO2	0.6

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General Motors Corp. Lordstown Assembly

PTI Application: **02-17027**

**Modification Issued: 2/12/2004**

Facility ID: **0278000199**

**Part II - FACILITY SPECIFIC TERMS AND CONDITIONS**

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

This permit to install shall cover a new paint shop with its associated emissions units ( including existing final repair and deadener) and new natural gas fired hot water boilers. They will replace the existing paint shop and the existing power house boilers. The permittee shall permanently shutdown the existing paint shop with its associated emissions units once full production has been achieved in the new paint shop or within one year of starting salable production units in the new paint shop. The permittee shall permanently shutdown the boilers in the existing power house once full operation of the new hot water boilers has been achieved or within one year of completion of construction of the new hot water boilers . These shut downs are required for the purpose of netting out the new emissions units from the Prevention of Significant Deterioration regulations. In order to verify that the VOC emissions do not exceed the emissions described in the netting table below, the average daily vehicle body painting rate of the plant-wide coating operations shall not exceed 87 vehicle bodies per hour. The permittee shall keep sufficient records to demonstrate that this requirement is being met during the transition period.

The permittee shall notify the Ohio EPA upon starting production in the new paint shop and upon completion of construction of the new hot water boilers.

Pollutant	PTI Allowable TPY	Existing Source Emissions To Be Shutdown TPY	Net Change TPY	PSD Significant Emission Rates TPY
VOC	1472.4	1753.31	-280.91	40
NOx	177.5	151.87	25.63	40
PE	48.5	55.87	-7.37	15
CO	153.8	91.13	62.67	100
SO2	0.6	0.65	-0.05	40

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

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

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Facility ID: **0278000199**

Pollutant: butanol

TLV (mg/m<sup>3</sup>): 303

Maximum Hourly Emission Rate (g/sec): 9.63

Predicted 1-Hour Maximum Ground-Level  
Concentration (ug/m<sup>3</sup>): 1512.2

MAGLC (ug/m<sup>3</sup>): 1837.3

Pollutant: methyl(n-amyl) ketone

TLV (mg/m<sup>3</sup>): 233

Maximum Hourly Emission Rate (g/sec): 0.46

Predicted 1-Hour Maximum Ground-Level  
Concentration (ug/m<sup>3</sup>): 350.0

MAGLC (ug/m<sup>3</sup>): 7075.75

Pollutant: isobutyl alcohol

TLV (mg/m<sup>3</sup>): 713

Maximum Hourly Emission Rate (g/sec): 2.08

Predicted 1-Hour Maximum Ground-Level  
Concentration (ug/m<sup>3</sup>): 136.78

MAGLC (ug/m<sup>3</sup>): 4593.03

Pollutant: glycerol

TLV (mg/m<sup>3</sup>): 10

Maximum Hourly Emission Rate (g/sec): 0.34

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Facility ID: **0278000199**

Predicted 1-Hour Maximum Ground-Level  
Concentration (ug/m3): 8.74

MAGLC (ug/m3): 303.03

Pollutant: methoxypropanol

TLV (mg/m3): 5

Maximum Hourly Emission Rate (g/sec): 2.92

Predicted 1-Hour Maximum Ground-Level  
Concentration (ug/m3): 302.86

MAGLC (ug/m3): 11169.39

Pollutant: dipropylene glycol monomethyl ether

TLV (mg/m3): 606

Maximum Hourly Emission Rate (g/sec): 15.38

Predicted 1-Hour Maximum Ground-Level  
Concentration (ug/m3): 487.05

MAGLC (ug/m3): 18363.63

Pollutant: 2-butoxy ethanol

TLV (mg/m3): 121

Maximum Hourly Emission Rate (g/sec): 2.11

Predicted 1-Hour Maximum Ground-Level  
Concentration (ug/m3): 77.02

MAGLC (ug/m3): 2929.09

Pollutant: n-butyl acetate

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General

PTI A<sub>1</sub>

**Modification Issued: 2/12/2004**

Emissions Unit ID: B006

TLV (mg/m<sup>3</sup>): 713

Maximum Hourly Emission Rate (g/sec): 3.48

Predicted 1-Hour Maximum Ground-Level  
Concentration (ug/m<sup>3</sup>): 551.96

MAGLC (ug/m<sup>3</sup>): 21595.15

Pollutant: amyl acetate/pentyl acetate

TLV (mg/m<sup>3</sup>): 532

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General Motors Corp. Lordstown Assembly

PTI Application: **02-17027**

**Modification Issued: 2/12/2004**

Facility ID: **0278000199**

**Modification Issued: 2/12/2004**

Maximum Hourly Emission Rate (g/sec): 0.94

Predicted 1-Hour Maximum Ground-Level  
Concentration (ug/m3): 171.42

MAGLC (ug/m3): 8068.48

Pollutant: isopropyl alcohol

TLV (mg/m3): 983

Maximum Hourly Emission Rate (g/sec): 10.06

Predicted 1-Hour Maximum Ground-Level  
Concentration (ug/m3): 493.37

MAGLC (ug/m3): 29790

Pollutant: stoddard solvent

TLV (mg/m3): 525

Maximum Hourly Emission Rate (g/sec): 1.79

Predicted 1-Hour Maximum Ground-Level  
Concentration (ug/m3): 207.28

MAGLC (ug/m3): 17351.15

Pollutant: diisobutyl ketone

TLV (mg/m3): 145

Maximum Hourly Emission Rate (g/sec): 0.06

Predicted 1-Hour Maximum Ground-Level  
Concentration (ug/m3): 43.76

MAGLC (ug/m3): 4406.96

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General

PTI A<sub>1</sub>

**Modification Issued: 2/12/2004**

Emissions Unit ID: B006

Pollutant: methyl propyl ketone

TLV (mg/m<sup>3</sup>): 705

Maximum Hourly Emission Rate (g/sec): 6.73

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General Motors Corp. Lordstown Assembly  
PTI Application: **02-17027**  
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Facility ID: **0278000199**

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General

PTI A<sub>1</sub>

**Modification Issued: 2/12/2004**

Emissions Unit ID: B006

Predicted 1-Hour Maximum Ground-Level  
Concentration (ug/m<sup>3</sup>): 172.55

MAGLC (ug/m<sup>3</sup>): 21359.70

Pollutant: acetone

TLV (mg/m<sup>3</sup>): 1780

Maximum Hourly Emission Rate (g/sec): 1.21

Predicted 1-Hour Maximum Ground-Level  
Concentration (ug/m<sup>3</sup>): 225.07

MAGLC (ug/m<sup>3</sup>): 35973.33

Pollutant: isobutyl acetate

TLV (mg/m<sup>3</sup>): 713

Maximum Hourly Emission Rate (g/sec): 0.96

Predicted 1-Hour Maximum Ground-Level  
Concentration (ug/m<sup>3</sup>): 124.70

MAGLC (ug/m<sup>3</sup>): 21595.15

Pollutant: diacetone alcohol

TLV (mg/m<sup>3</sup>): 238

Maximum Hourly Emission Rate (g/sec): 0.24

Predicted 1-Hour Maximum Ground-Level  
Concentration (ug/m<sup>3</sup>): 31.17

MAGLC (ug/m<sup>3</sup>): 7198.48

Pollutant: ethanol

General Motors Corp. Lordstown Assembly

Facility ID: 0278000199

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TLV (mg/m<sup>3</sup>): 1880

Maximum Hourly Emission Rate (g/sec): 0.17

Predicted 1-Hour Maximum Ground-Level  
Concentration (ug/m<sup>3</sup>): 131.26

MAGLC (ug/m<sup>3</sup>): 57098.48

Pollutant: ethyl acetate

TLV (mg/m<sup>3</sup>): 1440

Maximum Hourly Emission Rate (g/sec): 0.24

Predicted 1-Hour Maximum Ground-Level  
Concentration (ug/m<sup>3</sup>): 31.17

MAGLC (ug/m<sup>3</sup>): 43676.06

Pollutant: heptane

TLV (mg/m<sup>3</sup>): 1640

Maximum Hourly Emission Rate (g/sec): 0.05

Predicted 1-Hour Maximum Ground-Level  
Concentration (ug/m<sup>3</sup>): 35.00

MAGLC (ug/m<sup>3</sup>): 49674.54

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

- a. changes in the composition of the materials used (typically for coatings or cleanup materials), or

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- 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.).

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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.

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.

**Modif**

Emissions Unit ID: B006

**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>	40 CFR Part 60, Subpart Dc
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B006 - natural gas fired boiler 50 mmBtu/hr	OAC rule 3745-31-05(A)(3)	
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Administrative Modification  
of PTI 02-17027 issued  
2/13/2003

OAC rule 3745-17-07(A)(1)

OAC rule 3745-17-10

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Applicable Emissions  
Limitations/Control  
Measures

stringent than the emission limitation  
established pursuant to OAC rule  
3745-31-05(A)(3).

Particulate emissions (PE)  
shall not exceed 0.38  
pound per hour and 1.7  
tons/year.

see A.I.2.a and A.II.1

Nitrogen oxides (NO<sub>x</sub>)  
emissions shall not exceed  
2.5 pounds per hour and  
10.95 tons/year.

Carbon monoxide (CO)  
emissions shall not exceed  
4.2 pounds per hour and  
18.4 tons/year.

Organic compound (OC)  
emissions shall not exceed  
0.28 pound per hour and  
1.23 tons/year.

The requirements of this rule  
also include compliance with  
the requirements of OAC  
rules 3745-17-07 (A)(1) and  
40 CFR Part 60, Subpart Dc.

Except as specified by rule,  
visible particulate emissions  
from the exhaust stack  
serving this emissions unit  
shall not exceed twenty (20)  
percent opacity, as a six-  
minute average.

The emission limitation  
specified by this rule is less

**Modification Issued: 2/12/2004****2. Additional Terms and Conditions**

- 2.a** As long as only natural gas is burned, this emissions unit is not subject to the emission limits listed in 40 CFR Part 60, Subpart Dc.

**II. Operational Restrictions**

1. The permittee shall burn only natural gas in this emissions unit.

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

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

**IV. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 45 days after the deviation occurs.

**V. Testing Requirements**

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

- a. Emission Limitation :  
2.5 lbs/hr and 10.95 tons/yr NO<sub>x</sub>

Applicable Compliance Method:

Hourly compliance shall be based on a one time calculation by using emission factors supplied by the manufacturer for natural gas combustion and the maximum capacity of the gas burners.

$$E(\text{NO}_x) = 50 \text{ mmBtu/hr} \times 0.05 \text{ lb NO}_x/\text{MMBTU} (\text{mfg. emission factor}) = 2.5 \text{ lbs/hr}$$

Annual emissions are determined by multiplying the hourly emission by 8760 hrs/yr and dividing by 2000 lbs/ton.

If required pursuant to OAC 3745-15-04, the permittee shall demonstrate compliance with

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the hourly NO<sub>x</sub> emission limit of this permit by means of physical testing of the effluent from this emissions unit in accordance with testing procedures listed in 40 CFR Part 60, "Standards of Performance for New Stationary Sources", Appendix A, Method 7 or 7E.

- b. Emission Limitation:  
4.2 lbs/hr and 18.4 tons/yr CO

Applicable Compliance Method:

Hourly compliance shall be based on a one time calculation by using emission factors from AP-42, Section 1.4 (7/1998) for natural gas combustion and the maximum capacity of the gas burners.

$$E(\text{CO}) = 50 \text{ mmBtu/hr} \times 0.084 \text{ lb CO/mmBtu (AP-42)} = 4.2 \text{ lbs/hr.}$$

Annual emissions are determined by multiplying the hourly emission by 8760 hrs/yr and dividing by 2000 lbs/ton.

If required pursuant to OAC 3745-15-04, the permittee shall demonstrate compliance with the hourly CO emission limit of this permit by means of physical testing of the effluent from this emissions unit in accordance with testing procedures listed in 40 CFR Part 60, "Standards of Performance for New Stationary Sources", Appendix A, Method 10.

- c. Emission Limitation:  
0.38 lb/hr and 1.7 tons/yr PE

Applicable Compliance Method:

Hourly compliance shall be based on a one time calculation by using emission factors from AP-42, Section 1.4 (7/1998) for natural gas combustion and the maximum capacity of the gas burners.

$$E(\text{PE}) = 50 \text{ mmBtu/hr} \times 0.0076 \text{ lb PE/mmBtu(AP-42)} = 0.38 \text{ lb/hr.}$$

Annual emissions are determined by multiplying the hourly emission by 8760 hrs/yr and dividing by 2000 lbs/ton.

If required pursuant to OAC 3745-15-04, the permittee shall demonstrate compliance with the hourly particulate emission limit of this permit by means of physical testing of the effluent from this emissions unit in accordance with testing procedures listed in 40 CFR Part 60, "Standards of Performance for New Stationary Sources", Appendix A, Method 5,

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PTI Application: **02-17027**

**Modif**

Facility ID: **0278000199**

Emissions Unit ID: B006

and in OAC 3745-17-03(B).

- d. Emission Limitation:  
0.28 lb/hr and 1.23 tons/yr OC

Applicable Compliance Method:

Hourly compliance shall be based on a one time calculation by using emission factors from AP-42, Section 1.4 (7/1998) for natural gas combustion and the maximum capacity of the gas burners.

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$$E(\text{OC}) = 50 \text{ mmBtu/hr} \times 0.0055 \text{ lb OC /mmBtu (AP-42)} = 0.28 \text{ lb/hr.}$$

Annual emissions are determined by multiplying the hourly emission by 8760 hrs/yr and dividing by 2000 lbs/ton.

If required pursuant to OAC 3745-15-04, the permittee shall demonstrate compliance with the hourly OC emission limit of this permit by means of physical testing of the effluent from this emissions unit in accordance with testing procedures listed in 40 CFR Part 60, "Standards of Performance for New Stationary Sources", Appendix A, Method 25 or 25A.

- e. Emission Limitation:  
Twenty (20) percent opacity, as a six-minute average.

Applicable Compliance Method:

Compliance shall be determined by visible emission evaluations performed in accordance with OAC Rule 3745-17-03(B)(3) using the methods and procedures specified in U.S.EPA Reference Method 9.

**VI. Miscellaneous Requirements**

None

**Modification Issued: 2/12/2004**

**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>
B006 - natural gas fired boiler 50 mmBtu/hr	None	None

**2. Additional Terms and Conditions**

2.a None

**II. Operational Restrictions**

None

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

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

Modification Issued: 2/12/2004

**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>	
B007 - natural gas fired boiler 50 mmBtu/hr	OAC rule 3745-31-05(A)(3)	OAC rule 3745-17-10
Administrative Modification of PTI 02-17027 issued 2/13/2003	OAC rule 3745-17-07(A)(1)	40 CFR Part 60, Subpart Dc

**Modif**

Emissions Unit ID: B007

Applicable Emissions  
Limitations/Control  
Measures

Particulate emissions (PE)  
shall not exceed 0.38  
pound per hour and 1.7  
tons/year.

Nitrogen oxides (NO<sub>x</sub>)  
emissions shall not exceed  
2.5 pounds per hour and  
10.95 tons/year.

Carbon monoxide (CO)  
emissions shall not exceed  
4.2 pounds per hour and  
18.4 tons/year.

Organic compound (OC)  
emissions shall not exceed  
0.28 pound per hour and  
1.23 tons/year.

The requirements of this rule  
also include compliance with  
the requirements of OAC  
rules 3745-17-07 (A)(1) and  
40 CFR Part 60, Subpart Dc.

Except as specified by rule,  
visible particulate emissions  
from the exhaust stack  
serving this emissions unit  
shall not exceed twenty (20)  
percent opacity, as a six-  
minute average.

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

see A.I.2.a and A.II.1

**Modification Issued: 2/12/2004**

**2. Additional Terms and Conditions**

- 2.a** As long as only natural gas is burned, this emissions unit is not subject to the emission limits listed in 40 CFR Part 60, Subpart Dc.

**II. Operational Restrictions**

1. The permittee shall burn only natural gas in this emissions unit.

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

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

**IV. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 45 days after the deviation occurs.

**V. Testing Requirements**

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

- a. Emission Limitation :  
2.5 lbs/hr and 10.95 tons/yr NO<sub>x</sub>

Applicable Compliance Method:

Hourly compliance shall be based on a one time calculation by using emission factors supplied by the manufacturer for natural gas combustion and the maximum capacity of the gas burners.

$$E(\text{NO}_x) = 50 \text{ mmBtu/hr} \times 0.05 \text{ lb NO}_x/\text{MMBTU} (\text{mfg. emission factor}) = 2.5 \text{ lbs/hr}$$

Annual emissions are determined by multiplying the hourly emission by 8760 hrs/yr and dividing by 2000 lbs/ton.

If required pursuant to OAC 3745-15-04, the permittee shall demonstrate compliance with the hourly NO<sub>x</sub> emission limit of this permit by means of physical testing of the

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effluent from this emissions unit in accordance with testing procedures listed in 40 CFR Part 60, "Standards of Performance for New Stationary Sources", Appendix A, Method 7 or 7E.

- b. Emission Limitation:  
4.2 lbs/hr and 18.4 tons/yr CO

Applicable Compliance Method:

Hourly compliance shall be based on a one time calculation by using emission factors from AP-42, Section 1.4 (7/1998) for natural gas combustion and the maximum capacity of the gas burners.

$$E(\text{CO}) = 50 \text{ mmBtu/hr} \times 0.084 \text{ lb CO/mmBtu (AP-42)} = 4.2 \text{ lbs/hr.}$$

Annual emissions are determined by multiplying the hourly emission by 8760 hrs/yr and dividing by 2000 lbs/ton.

If required pursuant to OAC 3745-15-04, the permittee shall demonstrate compliance with the hourly CO emission limit of this permit by means of physical testing of the effluent from this emissions unit in accordance with testing procedures listed in 40 CFR Part 60, "Standards of Performance for New Stationary Sources", Appendix A, Method 10.

- c. Emission Limitation:  
0.38 lb/hr and 1.7 tons/yr PE

Applicable Compliance Method:

Hourly compliance shall be based on a one time calculation by using emission factors from AP-42, Section 1.4 (7/1998) for natural gas combustion and the maximum capacity of the gas burners.

$$E(\text{PE}) = 50 \text{ mmBtu/hr} \times 0.0076 \text{ lb PE/mmBtu(AP-42)} = 0.38 \text{ lb/hr.}$$

Annual emissions are determined by multiplying the hourly emission by 8760 hrs/yr and dividing by 2000 lbs/ton.

If required pursuant to OAC 3745-15-04, the permittee shall demonstrate compliance with the hourly particulate emission limit of this permit by means of physical testing of the effluent from this emissions unit in accordance with testing procedures listed in 40 CFR Part 60, "Standards of Performance for New Stationary Sources", Appendix A, Method 5, and in OAC 3745-17-03(B).

General Motors Corp. Lordstown Assembly

PTI Application: **02 17027**

**Modif**

Facility ID: **0278000199**

Emissions Unit ID: B007

- d. Emission Limitation:  
0.28 lb/hr and 1.23 tons/yr OC

Applicable Compliance Method:

Hourly compliance shall be based on a one time calculation by using emission factors from AP-42, Section 1.4 (7/1998) for natural gas combustion and the maximum capacity of the gas burners.

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$$E(\text{OC}) = 50 \text{ mmBtu/hr} \times 0.0055 \text{ lb OC /mmBtu (AP-42)} = 0.28 \text{ lb/hr.}$$

Annual emissions are determined by multiplying the hourly emission by 8760 hrs/yr and dividing by 2000 lbs/ton.

If required pursuant to OAC 3745-15-04, the permittee shall demonstrate compliance with the hourly OC emission limit of this permit by means of physical testing of the effluent from this emissions unit in accordance with testing procedures listed in 40 CFR Part 60, "Standards of Performance for New Stationary Sources", Appendix A, Method 25 or 25A.

- e. Emission Limitation:  
Twenty (20) percent opacity, as a six-minute average.

Applicable Compliance Method:

Compliance shall be determined by visible emission evaluations performed in accordance with OAC Rule 3745-17-03(B)(3) using the methods and procedures specified in U.S.EPA Reference Method 9.

**VI. Miscellaneous Requirements**

None

**Modification Issued: 2/12/2004**

**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>
B007 - natural gas fired boiler 50 mmBtu/hr	None	None

**2. Additional Terms and Conditions**

2.a None

**II. Operational Restrictions**

None

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

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

Modification Issued: 2/12/2004

**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>	
B008 - natural gas fired boiler 50 mmBtu/hr	OAC rule 3745-31-05(A)(3)	OAC rule 3745-17-10
Administrative Modification of PTI 02-17027 issued 2/13/2003	OAC rule 3745-17-07(A)(1)	40 CFR Part 60, Subpart Dc

**Modif**

Emissions Unit ID: B008

Applicable Emissions  
Limitations/Control  
Measures

Particulate emissions (PE)  
shall not exceed 0.38  
pound per hour and 1.7  
tons/year.

Nitrogen oxides (NO<sub>x</sub>)  
emissions shall not exceed  
2.5 pounds per hour and  
10.95 tons/year.

Carbon monoxide (CO)  
emissions shall not exceed  
4.2 pounds per hour and  
18.4 tons/year.

Organic compound (OC)  
emissions shall not exceed  
0.28 pound per hour and  
1.23 tons/year.

The requirements of this rule  
also include compliance with  
the requirements of OAC  
rules 3745-17-07 (A)(1) and  
40 CFR Part 60, Subpart Dc.

Except as specified by rule,  
visible particulate emissions  
from the exhaust stack  
serving this emissions unit  
shall not exceed twenty (20)  
percent opacity, as a six-  
minute average.

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

see A.I.2.a and A.II.1

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**2. Additional Terms and Conditions**

- 2.a** As long as only natural gas is burned, this emissions unit is not subject to the emission limits listed in 40 CFR Part 60, Subpart Dc.

**II. Operational Restrictions**

1. The permittee shall burn only natural gas in this emissions unit.

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

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

**IV. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 45 days after the deviation occurs.

**V. Testing Requirements**

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

- a. Emission Limitation :  
2.5 lbs/hr and 10.95 tons/yr NO<sub>x</sub>

Applicable Compliance Method:

Hourly compliance shall be based on a one time calculation by using emission factors supplied by the manufacturer for natural gas combustion and the maximum capacity of the gas burners.

$$E(\text{NO}_x) = 50 \text{ mmBtu/hr} \times 0.05 \text{ lb NO}_x/\text{MMBTU} (\text{mfg. emission factor}) = 2.5 \text{ lbs/hr}$$

Annual emissions are determined by multiplying the hourly emission by 8760 hrs/yr and dividing by 2000 lbs/ton.

If required pursuant to OAC 3745-15-04, the permittee shall demonstrate compliance with the hourly NO<sub>x</sub> emission limit of this permit by means of physical testing of the

**Modification Issued: 2/12/2004**

effluent from this emissions unit in accordance with testing procedures listed in 40 CFR Part 60, "Standards of Performance for New Stationary Sources", Appendix A, Method 7 or 7E.

- b. Emission Limitation:  
4.2 lbs/hr and 18.4 tons/yr CO

Applicable Compliance Method:

Hourly compliance shall be based on a one time calculation by using emission factors from AP-42, Section 1.4 (7/1998) for natural gas combustion and the maximum capacity of the gas burners.

$$E(\text{CO}) = 50 \text{ mmBtu/hr} \times 0.084 \text{ lb CO/mmBtu (AP-42)} = 4.2 \text{ lbs/hr.}$$

Annual emissions are determined by multiplying the hourly emission by 8760 hrs/yr and dividing by 2000 lbs/ton.

If required pursuant to OAC 3745-15-04, the permittee shall demonstrate compliance with the hourly CO emission limit of this permit by means of physical testing of the effluent from this emissions unit in accordance with testing procedures listed in 40 CFR Part 60, "Standards of Performance for New Stationary Sources", Appendix A, Method 10.

- c. Emission Limitation:  
0.38 lb/hr and 1.7 tons/yr PE

Applicable Compliance Method:

Hourly compliance shall be based on a one time calculation by using emission factors from AP-42, Section 1.4 (7/1998) for natural gas combustion and the maximum capacity of the gas burners.

$$E(\text{PE}) = 50 \text{ mmBtu/hr} \times 0.0076 \text{ lb PE/mmBtu(AP-42)} = 0.38 \text{ lb/hr.}$$

Annual emissions are determined by multiplying the hourly emission by 8760 hrs/yr and dividing by 2000 lbs/ton.

If required pursuant to OAC 3745-15-04, the permittee shall demonstrate compliance with the hourly particulate emission limit of this permit by means of physical testing of the effluent from this emissions unit in accordance with testing procedures listed in 40 CFR Part 60, "Standards of Performance for New Stationary Sources", Appendix A, Method 5, and in OAC 3745-17-03(B).

General Motors Corp. Lordstown Assembly

PTI Application: **02 17027**

**Modif**

Facility ID: **0278000199**

Emissions Unit ID: B008

- d. Emission Limitation:  
0.28 lb/hr and 1.23 tons/yr OC

Applicable Compliance Method:

Hourly compliance shall be based on a one time calculation by using emission factors from AP-42, Section 1.4 (7/1998) for natural gas combustion and the maximum capacity of the gas burners.

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$$E(\text{OC}) = 50 \text{ mmBtu/hr} \times 0.0055 \text{ lb OC /mmBtu (AP-42)} = 0.28 \text{ lb/hr.}$$

Annual emissions are determined by multiplying the hourly emission by 8760 hrs/yr and dividing by 2000 lbs/ton.

If required pursuant to OAC 3745-15-04, the permittee shall demonstrate compliance with the hourly OC emission limit of this permit by means of physical testing of the effluent from this emissions unit in accordance with testing procedures listed in 40 CFR Part 60, "Standards of Performance for New Stationary Sources", Appendix A, Method 25 or 25A.

- e. Emission Limitation:  
Twenty (20) percent opacity, as a six-minute average.

Applicable Compliance Method:

Compliance shall be determined by visible emission evaluations performed in accordance with OAC Rule 3745-17-03(B)(3) using the methods and procedures specified in U.S.EPA Reference Method 9.

**VI. Miscellaneous Requirements**

None

**Modification Issued: 2/12/2004**

**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>
B008 - natural gas fired boiler 50 mmBtu/hr	None	None

**2. Additional Terms and Conditions**

**2.a** None

**II. Operational Restrictions**

None

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

None

**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>	
B009 - natural gas fired boiler 50 mmBtu/hr	OAC rule 3745-31-05(A)(3)	OAC rule 3745-17-10
Administrative Modification of PTI 02-17027 issued 2/13/2003	OAC rule 3745-17-07(A)(1)	40 CFR Part 60, Subpart Dc

**Modification Issued: 2/12/2004**

Applicable Emissions  
Limitations/Control  
Measures

limitation established pursuant to  
OAC rule 3745-31-05(A)(3).

see A.I.2.a and A.II.1

Particulate emissions (PE)  
shall not exceed 0.38 pound  
per hour and 1.7 tons/year.

Nitrogen oxides (NO<sub>x</sub>)  
emissions shall not exceed  
2.5 pounds per hour and  
10.95 tons/year.

Carbon monoxide (CO)  
emissions shall not exceed  
4.2 pounds per hour and  
18.4 tons/year.

Organic compound (OC)  
emissions shall not exceed  
0.28 pound per hour and  
1.23 tons/year.

The requirements of this rule  
also include compliance with  
the requirements of OAC  
rules 3745-17-07 (A)(1) and  
40 CFR Part 60, Subpart Dc.

Except as specified by rule,  
visible particulate emissions  
from the exhaust stack  
serving this emissions unit  
shall not exceed twenty (20)  
percent opacity, as a six-  
minute average.

The emission limitation  
specified by this rule is less  
stringent than the emission

**Modif**

Emissions Unit ID: B009

**2. Additional Terms and Conditions**

- 2.a** As long as only natural gas is burned, this emissions unit is not subject to the emission limits listed in 40 CFR Part 60, Subpart Dc.

**II. Operational Restrictions**

1. The permittee shall burn only natural gas in this emissions unit.

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

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

**IV. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 45 days after the deviation occurs.

**V. Testing Requirements**

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

- a. Emission Limitation :  
2.5 lbs/hr and 10.95 tons/yr NO<sub>x</sub>

Applicable Compliance Method:

Hourly compliance shall be based on a one time calculation by using emission factors supplied by the manufacturer for natural gas combustion and the maximum capacity of the gas burners.

$$E(\text{NO}_x) = 50 \text{ mmBtu/hr} \times 0.05 \text{ lb NO}_x/\text{MMBTU} (\text{mfg. emission factor}) = 2.5 \text{ lbs/hr}$$

Annual emissions are determined by multiplying the hourly emission by 8760 hrs/yr and dividing by 2000 lbs/ton.

If required pursuant to OAC 3745-15-04, the permittee shall demonstrate compliance with the hourly NO<sub>x</sub> emission limit of this permit by means of physical testing of the effluent from this emissions unit in accordance with testing procedures listed in 40 CFR Part 60, "Standards of Performance for New Stationary Sources", Appendix A, Method 7 or 7E.

- b. Emission Limitation:  
4.2 lbs/hr and 18.4 tons/yr CO

**Modification Issued: 2/12/2004**

## Applicable Compliance Method:

Hourly compliance shall be based on a one time calculation by using emission factors from AP-42, Section 1.4 (7/1998) for natural gas combustion and the maximum capacity of the gas burners.

$$E(\text{CO}) = 50 \text{ mmBtu/hr} \times 0.084 \text{ lb CO/mmBtu (AP-42)} = 4.2 \text{ lbs/hr.}$$

Annual emissions are determined by multiplying the hourly emission by 8760 hrs/yr and dividing by 2000 lbs/ton.

If required pursuant to OAC 3745-15-04, the permittee shall demonstrate compliance with the hourly CO emission limit of this permit by means of physical testing of the effluent from this emissions unit in accordance with testing procedures listed in 40 CFR Part 60, "Standards of Performance for New Stationary Sources", Appendix A, Method 10.

- c. Emission Limitation:  
0.38 lb/hr and 1.7 tons/yr PE

## Applicable Compliance Method:

Hourly compliance shall be based on a one time calculation by using emission factors from AP-42, Section 1.4 (7/1998) for natural gas combustion and the maximum capacity of the gas burners.

$$E(\text{PE}) = 50 \text{ mmBtu/hr} \times 0.0076 \text{ lb PE/mmBtu(AP-42)} = 0.38 \text{ lb/hr.}$$

Annual emissions are determined by multiplying the hourly emission by 8760 hrs/yr and dividing by 2000 lbs/ton.

If required pursuant to OAC 3745-15-04, the permittee shall demonstrate compliance with the hourly particulate emission limit of this permit by means of physical testing of the effluent from this emissions unit in accordance with testing procedures listed in 40 CFR Part 60, "Standards of Performance for New Stationary Sources", Appendix A, Method 5, and in OAC 3745-17-03(B).

- d. Emission Limitation:  
0.28 lb/hr and 1.23tons/yr OC

## Applicable Compliance Method:

Hourly compliance shall be based on a one time calculation by using emission factors from

**Modif**

Emissions Unit ID: B009

AP-42, Section 1.4 (7/1998) for natural gas combustion and the maximum capacity of the gas burners.

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$$E(\text{OC}) = 50 \text{ mmBtu/hr} \times 0.0055 \text{ lb OC /mmBtu (AP-42)} = 0.28 \text{ lb/hr.}$$

Annual emissions are determined by multiplying the hourly emission by 8760 hrs/yr and dividing by 2000 lbs/ton.

If required pursuant to OAC 3745-15-04, the permittee shall demonstrate compliance with the hourly OC emission limit of this permit by means of physical testing of the effluent from this emissions unit in accordance with testing procedures listed in 40 CFR Part 60, "Standards of Performance for New Stationary Sources", Appendix A, Method 25 or 25A.

- e. Emission Limitation:  
Twenty (20) percent opacity, as a six-minute average.

Applicable Compliance Method:

Compliance shall be determined by visible emission evaluations performed in accordance with OAC Rule 3745-17-03(B)(3) using the methods and procedures specified in U.S.EPA Reference Method 9.

**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>
B009 - natural gas fired boiler 50 mmBtu/hr	None	None

**2. Additional Terms and Conditions**

**2.a** None

**II. Operational Restrictions**

None

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

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

Modification Issued: 2/12/2004

**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>
K025 - Top Coat Process, basecoat and clearcoat	OAC rule 3745-31-05(A)(3)
Administrative modification of PTI #02-17027 issued 2/13/2003	OAC rule 3745-31-05(C)
	OAC rule 3745-17-07(A)
	OAC rule 3745-21-09(C)(1)(c)

	<u>Applicable Emissions Limitations/Control Measures</u>	
40 CFR, Part 60, Subpart MM	Overall Top Coat Process: 6.07 lbs of VOC per gallon of solids applied.	see A.I.2.a, b, c, d and II.1  Annual Topcoat emissions shall not exceed: 941.0 tons of VOC per rolling 12-month summation.
OAC rule 3745-17-11(B)	7174.2 lbs of VOC per day based on a daily average for each calendar month	27.4 tons of Particulate emissions (PE) per rolling 12-month summation.  Visible PE shall not exceed 20% opacity, as a six-minute average, except as provided by rule.
OAC rule 3745-31-28	Volatile Organic Compounds (VOC): 326.1 lbs per hour see A.I.2.f	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	Particulate emissions (PE): 9.5 lbs per hour	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	The emissions from the main thermal oxidizer exhaust stack shall not exceed the following:	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-28 and 3745-31-05.
	Nitrogen oxides emissions (NO <sub>x</sub> ): 3.1 pounds per hour. see A.I.2.g	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	Carbon Monoxide emissions (CO): 1.9 pounds per hour see A.I.2.g	see A.I.2.e
	The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07 (A)(1), OAC rule 3745-31-05(C), OAC rule 3745-31-28, and 40 CFR Part 60, Subpart MM.	

**2. Additional Terms and Conditions**

- 2.a** The Top Coat Process consists a waterborne basecoat area with a heated flash off and a solvent borne clearcoat area followed by a curing oven. The heated flash and curing ovens shall be controlled by a thermal oxidizer. The clearcoat booth shall be partially controlled by a VOC concentrator. The desorption of the concentrator uses the same thermal oxidizer as the heated flash and ovens.
- 2.b** The thermal oxidizer, associated with the basecoat flash off oven, the clearcoat VOC concentrator, and the top coat curing oven shall operate at a minimum VOC destruction efficiency of 95 percent, by weight.
- 2.c** The VOC concentrator shall operate at a minimum VOC removal efficiency of 90 percent, by weight.
- 2.d** The overall VOC capture efficiency for the clearcoat booth(s) operation shall be equal to or greater than 85 percent, by weight.
- 2.e** In accordance with 40 CFR, Part 63, Subpart B, sections 63.40 through 63.44 and the Clean Air Act Section 112(g), the permittee shall not cause to be discharged into the atmosphere more than 0.5 lb of Hazardous Air Pollutant (HAP) per gallons of coating solids applied on a monthly average basis, from the combination of the Top Coat Process (K025) and the Primer Surfacer System (K026).
- 2.f** The hourly limitation is based on the emissions unit's potential to emit after applying the capture and control efficiencies specified above. Therefore, no hourly record keeping and deviation reporting are required to demonstrate compliance with this limitation.
- 2.g** The hourly limitation is based on the emissions unit's potential to emit. Therefore, no hourly record keeping and deviation reporting are required to demonstrate compliance with this limitation. The annual NO<sub>x</sub> and CO emissions for this emissions unit are accounted for in the terms for P025.

**II. Operational Restrictions**

1. The average combustion temperature within the thermal oxidizer, 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.
2. The permittee shall operate the water wash filtration systems whenever this emissions unit is in operation.
3. The permittee shall operate a VOC concentrator when this emissions unit is in operation. This VOC concentrator shall have the following:

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- a. An initial stationary layer of carbon;
  - b. A rotating absorbent carbon wheel;
  - c. An operating desorption fan; and
  - d. A standard desorption temperature range between 200 and 260 degrees Fahrenheit, a specific range may be established during the initial performance testing.
4. The maximum annual production rate off of the final assembly line shall not exceed 502,755 jobs (completed autos), based upon a rolling, 12-month summation.

To ensure enforceability during the first 12 calendar months of operation following the issuance of the permit to install, the permittee shall not exceed the levels specified in the following table:

Month(s)	Maximum Allowable Cumulative Production Rate in Jobs
1	41900
1 - 2	83800
1 - 3	125700
1 - 4	167600
1 - 5	209500
1 - 6	251400
1 - 7	293300
1 - 8	335200
1 - 9	377100
1 - 10	419000
1 - 11	460900
1 - 12	502755

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

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

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(The temperature recorder for the thermal oxidizer shall record the temperature data not less than once during each 15-minute period of operation of the thermal oxidizer.)

2. The permittee shall collect and record the following information for each day for the coating line and control equipment:
  - a. A log of operating time for the capture system, oxidizers, monitoring equipment and the associated emissions units, pursuant to OAC rule 3745-21-09(B)(4)(b)(I).
  - b. All 3-hour blocks of time during which the average combustion temperature within the thermal oxidizer, 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, pursuant to OAC rule 3745-21-09(B)(4)(b)(ii).
3. Pursuant to OAC rule 3745-21-09(C)(4), the permittee shall maintain records for the top coat process that will enable the permittee to calculate the VOC emission rate in order to demonstrate compliance with the emissions limitation identified in part A.I.1 above for the topcoat process in accordance with the U.S. EPA's " Protocol for Determining the Daily Volatile Organic Compound Emission Rate of Automobiles and Light-Duty Truck Topcoat Operations" (EPA-450/3-88-028, Dec.1988) and any subsequent revisions thereof. The permittee shall calculate the VOC emission rates for the topcoat operation in pounds of VOC per gallon of solids applied and in pounds of VOC per day, using the overall capture and control efficiency for the control equipment, as determined during the most recent emission test that demonstrated that the emissions unit was in compliance.
4. Pursuant to OAC rule 3745-21-09(C)(4), the permittee shall maintain records for the top coat process and primer surfacer system that will enable the permittee to calculate the HAPs emission rate in order to demonstrate compliance with the emissions limitation identified in part A.I.2.e above for the topcoat process and primer surfacer system in accordance with the U.S. EPA's " Protocol for Determining the Daily Volatile Organic Compound Emission Rate of Automobiles and Light-Duty Truck Topcoat Operations" (EPA-450/3-88-028, Dec.1988) and any subsequent revisions thereof. The permittee shall calculate the HAP emission rates for the topcoat operation and primer surfacer system in pounds of HAPs per gallon of solids applied, using the overall capture and control efficiency for the control equipment, as determined during the most recent emission test that demonstrated that the emissions unit was in compliance.
5. The permittee shall maintain monthly records of the following information for this emissions unit:
  - a. the rolling, 12-month summation of the monthly VOC emission rates (controlled), in tons;
  - b. during the first 12 calendar months of operation following the issuance of the permit to install, the cumulative jobs produced off of the final assembly; and
  - c. after the first 12 calendar months of operation following the issuance of the permit to install, the rolling 12-month summation jobs produced off of the final assembly.

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6. The permittee shall document whether or not the water wash filtration systems were in service when the emissions unit was in operation. A monitoring system with alarms that shows no alarms could be sufficient documentation.
7. The permittee shall collect, record and calculate the following information each month for the Top Coat Process (K025) and the Primer Surfacer System (K026) :
  - a. The name and identification number of each coating, as applied.
  - b. The Hazardous Air Pollutant (HAP) content for each coating in pounds of HAPs per gallon of coating, as applied.

- c. The number of gallons of each coating employed.
- d. The volume of solids of each coatings employed, in percent.
- e. The volume of solids applied of each coating, in gallons (using the most recently determined transfer efficiencies).
- f. The combined Hazardous Air Pollutant (HAP) emissions limitation from all coatings employed, in pounds of HAP per gallons of solids applied (GSA).

<sup>1</sup>A listing of the Hazardous Air Pollutants (HAPs) can be found in Section 112(b) of the Clean Air Act or can be obtained by contacting your Ohio EPA field office or local air agency contact.

- 8. The permittee shall operate and maintain the following sensors, monitors and recorders associate with the VOC concentrator when the emissions unit is in operation:
  - a. A motion sensor that will detect rotation of the adsorbent carbon wheel in the VOC concentrator. The sensor shall be connected to a system alarm that will notify the appropriate personnel that motion is not detected.
  - b. An operation sensor that will detect operation of the desorption fan, which controls air flow through the adsorbent carbon wheel. The sensor shall be connected to a system alarm that will notify the appropriate personnel when the fan is not in operation.
  - c. The desorption air inlet temperature shall be monitored and recorded to assure temperature is sufficient to cause desorption. Standard desorption temperature range is between 200 and 260 degrees Fahrenheit. A specific range may be established during the initial performance test specified in A.V.2.a.
- 9. The permittee shall annually inspect the initial stationary layer of carbon in the VOC concentrator to check for structural integrity and surface buildup that could cause blockage to this portion of the control system.

#### IV. Reporting Requirements

- 1. The permittee shall notify the Director (the Ohio EPA Northeast District Office) in writing of any daily record showing that the calculated, controlled VOC emission rates exceed(s) the applicable pounds of VOC per gallon of solids limitation or the pounds of VOC per day limitation for the topcoat process. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA Northeast District Office) within 45 days after the exceedance occurs.
- 2. The permittee shall submit temperature deviation (excursion) reports that identify all 3-hour blocks of time during which the average combustion temperature within the thermal oxidizer, 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

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unit was in compliance.

3. By February 15 of each year, and in accordance with section 18 of the U.S.EPA's "Protocol for Determining the Daily Volatile Organic Compound Emission Rate of Automobiles and Light-Duty Truck Topcoat Operations" (EPA-450/3-88-028, December 1988) and any subsequent revisions thereof, the permittee shall submit to the Ohio EPA Northeast District Office a report which reviews the current operating conditions for this emissions unit and compares them to the conditions in existence at the time of the most recent transfer efficiency tests.

If significant product, processing, material, or application equipment changes have occurred which necessitate a re-evaluation of the transfer efficiency for each operation which has been modified, the permittee shall complete the re-evaluation and submit the results to the Ohio EPA Northeast District Office within 60 days following the completion of re-evaluation testing.

4. The permittee shall notify the Director (the Ohio EPA Northeast District Office) in writing of any daily record showing that the water wash filtration system was not in service when the emissions unit was in operation during production. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA Northeast District Office) within 45 days after the exceedance occurs.
5. The permittee shall submit deviation (excursion) reports that identify each month where the rolling, 12-month VOC emissions exceeded 941 tons. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA Northeast District Office) within 45 days after the exceedance occurs.
6. The permittee shall submit quarterly deviation (excursion) reports that identify each month the maximum allowable, cumulative limitation on jobs produced off of the final assembly was exceeded.
7. The permittee shall submit quarterly deviation (excursion) reports that identify each month the rolling 12-month limitation jobs produced off of the final assembly was exceeded.
8. The permittee shall notify the Director of any monthly record showing any deviation from the following:
  - a. An identification of all months during which the Hazardous Air Pollutant (HAP) emissions limitation for K025 and K026 was exceeded (pound HAP per gallon of solids applied).

These reports shall include a description of the deviation, as well as the corrective actions that

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were taken to achieve compliance. The permittee shall submit annual reports which identify all exceedances of the above limitations, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year.

9. The permittee shall submit deviation (excursion) reports that identify all situations during which the VOC concentrator adsorbent carbon wheel motion sensor and/ or the desorption fan operation sensor alarms were activated, when the emissions unit was in operation
10. The permittee shall submit deviation (excursion) reports that identify all periods of time during which desorption air inlet temperature was not within the temperature range established in A.III.7, when the emissions unit was in operation.
11. The permittee shall submit an annual report covering inspection of the initial stationary layer of carbon in the VOC concentrator specified in A. III.8.

**V. Testing Requirements**

1. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):
  - 1.a Emission Limitation:  
Overall Top Coat Process: 6.07 lbs of VOC per gallon of solids applied.  
Applicable Compliance Method:  
  
The permittee shall demonstrate compliance with the VOC content limitation above based on the record keeping requirements in Section A.III.3 of this permit.
  - 1.b Emission Limitation:  
326.1 lbs per hour of VOC  
  
Applicable Compliance Method:  
The permittee shall demonstrate compliance with the hourly allowable VOC emission limitation above using emission tests performed in accordance with the methods and procedures specified in A.V.2.
  - 1.c Emission Limitation:  
7174.2 lbs per day of VOC  
  
Applicable Compliance Method:  
The permittee shall demonstrate compliance with the daily allowable VOC emission limitation above based on the record keeping requirements in Section A.III.3 of this permit.
  - 1.d Emission Limitation:  
941 tons/yr VOC, as a rolling, 12-month summation

**Modification Issued: 2/12/2004****Applicable Compliance Method:**

The permittee shall demonstrate compliance with the annual allowable VOC emission limitation above based on the record keeping requirements in Section A.III.5 of this permit.

- 1.e Emission Limitation:  
9.5 lbs per hour and 27.4 tons per year of PE.

**Applicable Compliance Method:**

Compliance shall be based on a one time calculation using the actual worst case emission rate for particulate emissions, the following equation shall be used:

$PE = \text{maximum coating solids usage rate (in pounds per hour)} \times (1-TE) \times (1-CE)$

Where,

PE = particulate emission rate (lb/hr)

TE = transfer efficiency, which is the ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used

CE = control efficiency of the control equipment

Tons per year is demonstrated by multiplying the hourly PE rate by the emissions units actual operating schedule and dividing by 2000 lbs/ton.

If required, compliance with the hourly allowable PE limitation shall be demonstrated in accordance with the methods in OAC rule 3745-17-03(B)(10).

- 1.f Emission Limitation:  
Visible PE shall not exceed 20% opacity, as a six-minute average, except as provided by rule.

**Applicable Compliance Method:**

If required, compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1).

- 1.g Emission Limitation:  
0.5 lb of HAP per gallon of solids applied.

**Applicable Compliance Method:**

The permittee shall demonstrate compliance with the HAP limitation above based on the record keeping requirements in Section A.III.4 of this permit.

- 1.h Emission Limitation:  
3.1 lbs per hour of NO<sub>x</sub> and 1.9 lbs per hour of CO from the thermal oxidizer stack  
  
Applicable Compliance Method:  
The permittee shall demonstrate compliance with the hourly allowable NO<sub>x</sub> and CO emission limitations above using emission tests performed in accordance with the methods and procedures specified in A.V.2.
- 1.i Emission Limitation:  
502,755 jobs produced off the final line , as a rolling, 12-month summation  
  
Applicable Compliance Method:  
  
The permittee shall demonstrate compliance with the annual allowable VOC emission limitation above based on the record keeping requirements in Section A.III.5 of this permit.
2. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
  - 2.a The emission testing shall be conducted within 3 months after completion of construction and achievement of full operation (end of GM Lordstown's transition period) of this emissions unit.
  - 2.b The emission testing shall be conducted to demonstrate compliance with the hourly allowable mass emission rate for VOC's and the allowable NO<sub>x</sub> and CO emission rates from the thermal oxidized stack.
  - 2.c The emission testing shall be conducted to demonstrate compliance by measuring the control efficiencies for VOC for the thermal oxidizer and the concentrator operated in association with this emissions unit.
  - 2.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 Northeast District Office.
  - 2.e The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for VOC's, Method 24 or 24A, and Method 25 or 25A of 40 CFR Part 60, Appendix A, formulation data, or any approved alternative test method.
  - 2.f The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for NO<sub>x</sub> , Method 7 or 7E of 40 CFR Part 60, Appendix A , or any approved alternative test method, and for CO, Method 10 of 40 CFR Part 60, Appendix A or any approved alternative test method.

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- 2.g The control efficiency (i.e., the percent reduction in mass emissions between the inlet and outlet of the control system) shall be determined in accordance with the test methods and procedures specified in OAC rule 3745-21-10 or an approved alternative test protocol. The test methods and procedures selected shall be based on a consideration of the diversity of the organic species present and their total concentration, and on a consideration of the potential presence of interfering gases.
- 2.h The capture efficiency shall be determined using Methods 204 through 204F, as specified in 40 CFR Part 51, Appendix M, or the permittee may request to use an alternative method or procedure for the determination of capture efficiency in accordance with the USEPA's "Guidelines for Determining Capture Efficiency," dated January 9, 1995. (The Ohio EPA will consider the request, including an evaluation of the applicability, necessity, and validity of the alternative, and may approve the use of the alternative if such approval does not contravene any other applicable requirement.)
- 2.i 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 Northeast District Office or local air agency. 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 District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA Northeast District Office or local air agency 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.

3. 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 Northeast District Office within 60 days following completion of the test(s).
4. USEPA Method 24 shall be used to determine the analytical VOC contents of the coatings employed. If, pursuant to section 4.3 of Method 24, 40 CFR Part 60, Appendix A, an owner or operator determines that Method 24 or 24A cannot be used for a particular coating, the permittee shall so notify the Administrator of the USEPA and shall use formulation data for that coating to demonstrate compliance until the USEPA provides alternative analytical procedures or alternative precision statements for Method 24 or 24A. The permittee shall also use the formulation VOC as

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required by the U.S.EPA's "Protocol for Determining the Daily Volatile Organic Compound Emission Rate of Automobiles and Light-Duty Truck Topcoat Operations" (EPA-450/3-88-028, December 1988) in A.I.1.

The VOC content of each cleanup material used shall be based upon USEPA Method 24 or formulation data.

**VI. Miscellaneous Requirements**

None

**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>
K025 - Top Coat Process basecoat and clearcoat	None	None

**2. Additional Terms and Conditions**

2.a None

**II. Operational Restrictions**

None

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

None

**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>	
K026 - Primer Surfacer System powder coating - booth and oven	OAC rule 3745-31-05(A)(3)	40 CFR, Part 60, Subpart MM
Administrative modification of PTI #02-17027 issued 2/13/2003	OAC rule 3745-31-05(C)	OAC rule 3745-31-28
	OAC rule 3745-21-09(C)(1)(a)(v)	

General

PTI A<sub>1</sub>**Modification Issued: 2/12/2004**

Emissions Unit ID: K026

Applicable Emissions <u>Limitations/Control</u> <u>Measures</u>	limitation established pursuant to OAC rule 3745-31-28 and 3745-31- 05(A)(3).
Primer Surfacer: 0.13 lbs of VOC per gallon of solids applied.	see A.I.2.a
Volatile Organic Compounds (VOC): 3.35 lbs per hour see A.I.2.b	
73.7 lbs of VOC per day based on a daily average for each calendar month	
The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(C), OAC rule 3745-31-28, and 40 CFR Part 60, Subpart MM.	
See II.1	
Annual Primer Surfacer emissions shall not exceed: 9.7 tons of VOC per rolling 12-month summation..	
The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745- 31-05(A)(3).	
The emission limitation specified by this rule is less stringent than the emission	

**2. Additional Terms and Conditions**

- 2.a** In accordance with 40 CFR, Part 63, Subpart B, sections 63.40 through 63.44 and the Clean Air Act Section 112(g), the permittee shall not cause to be discharged into the atmosphere more than 0.5 lb of Hazardous Air Pollutant (HAP) per gallons of coating solids on a monthly average as applied basis, from the combination of the Top Coat Process (K025) and the Primer Surfacer System (K026).
- 2.b** The hourly limitation is based on the emissions units' potential to emit. Therefore, no hourly record keeping and deviation reporting are required to demonstrate compliance with this limitation.

**II. Operational Restrictions**

1. The maximum annual production rate off of the final assembly line shall not exceed 502,755 jobs( completed autos), based upon a rolling, 12-month summation.

To ensure enforceability during the first 12 calendar months of operation following the issuance of the permit to install, the permittee shall not exceed the levels specified in the following table:

Month(s)	Maximum Allowable Cumulative Production Rate in Jobs
1	41900
1 - 2	83800
1 - 3	125700
1 - 4	167600
1 - 5	209500
1 - 6	251400
1 - 7	293300
1 - 8	335200
1 - 9	377100
1 - 10	419000
1 - 11	460900
1 - 12	502755

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

1. The permittee shall collect, record, and calculate the following information each month for this emissions unit:
- The name and identification number of each coating, as applied.
  - The VOC content of each coating (in lbs/gallon or lb/lb, excluding water and exempt solvents), as applied.

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- c. The number of gallons or pounds of each coating employed.
  - d. The volume of solids of each coating employed, in percent.
  - e. The total volume of solids applied, in gallons (using the most recently determined transfer efficiencies).
  - f. The number of days the emissions unit was in operation.
  - g. The VOC emissions from all the coatings employed, in pounds of VOC per gallons of solids applied ( $b \times c \times d / e$ ).
  - h. The total VOC emissions from all the coatings employed ( $b \times c$ ), in pound.
  - i. The average daily OC emission rate for all the coatings employed, i.e.,  $(h/f)$ , in pounds/day (average).
2. The permittee shall collect, record and calculate the following information each month for the Top Coat Process (K025) and the Primer Surfacer System (K026) :
- a. The name and identification number of each coating, as applied.
  - b. The Hazardous Air Pollutant (HAP) content for each coating in pounds of HAPs per gallon of coating, as applied.
  - c. The number of gallons of each coating employed.
  - d. The volume of solids of each coatings employed, in percent.
  - e. The volume of solids applied of each coating, in gallons (using the most recently determined transfer efficiencies).
  - f. The combined Hazardous Air Pollutant (HAP) emissions limitation from all coatings employed, in pounds of HAP per gallons of solids applied (GSA).
- <sup>1</sup>A listing of the Hazardous Air Pollutants (HAPs) can be found in Section 112(b) of the Clean Air Act or can be obtained by contacting your Ohio EPA field office or local air agency contact.
3. The permittee shall maintain monthly records of the following information for this emissions unit:

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- a. the rolling, 12-month summation of the monthly VOC emission rates , in tons;
- b. during the first 12 calendar months of operation following the issuance of the permit to install, the cumulative jobs produced off of the final assembly; and
- c. after the first 12 calendar months of operation following the issuance of the permit to install, the rolling 12-month summation jobs produced off of the final assembly.

**IV. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports which identify any month in which the 0.13 pounds VOC per gallon of coating solids applied emission rate is exceeded. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA Northeast District Office) within 45 days after the exceedance occurs.
2. The permittee shall submit deviation (excursion) reports which identify all times when the VOC emission rate from this emissions unit 73.7 pounds per day based on a daily average for each calendar month is exceeded. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA Northeast District Office) within 45 days after the exceedance occurs.
3. The permittee shall notify the Director of any monthly record showing any deviation from the following:
  - a. An identification of all months during which the Hazardous Air Pollutant (HAP) emissions limitation for K025 and K026 was exceeded (pound HAP per gallon of solids applied).

These reports shall include a description of the deviation, as well as the corrective actions that were taken to achieve compliance. The permittee shall submit annual reports which identify all exceedances of the above limitations, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year.

4. The permittee shall submit deviation (excursion) reports that identify each month where the rolling, 12-month VOC emissions exceeded 9.7 tons. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA Northeast District Office) within 45 days after the exceedance occurs.
5. The permittee shall submit quarterly deviation (excursion) reports that identify each month the

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Emissions Unit ID: K026

maximum allowable, cumulative limitation on jobs produced off of the final assembly was exceeded.

6. The permittee shall submit quarterly deviation (excursion) reports that identify each month the rolling 12-month limitation jobs produced off of the final assembly was exceeded.

**V. Testing Requirements**

1. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):
  - 1.a Emission Limitation:  
Primer Surfacer: 0.13 lbs of VOC per gallon of solids applied.  
  
Applicable Compliance Method:  
The permittee shall demonstrate compliance with the VOC content limitation above based on the record keeping requirements in Section A.III.1 of this permit.
  - 1.b Emission Limitation:  
73.7 lbs per day of VOC  
  
Applicable Compliance Method:  
The permittee shall demonstrate compliance with the daily allowable VOC emission limitation above based on the record keeping requirements in Section A.III.1 of this permit.
  - 1.c Emission Limitation:  
9.7 tons/yr VOC, as a rolling, 12-month summation  
  
Applicable Compliance Method:  
  
The permittee shall demonstrate compliance with the annual allowable VOC emission limitation above based on the record keeping requirements in Section A.III.3 of this permit.
  - 1.d Emission Limitation:  
502,755 jobs produced off the final line , as a rolling, 12-month summation  
  
Applicable Compliance Method:  
  
The permittee shall demonstrate compliance with the annual allowable VOC emission limitation above based on the record keeping requirements in Section A.III.3 of this permit.
  - 1.e Emission Limitation:  
0.5 lb of HAP per gallon of solids applied.

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Emissions Unit ID: K026

Applicable Compliance Method:

The permittee shall demonstrate compliance with the HAP limitation above based on the record keeping requirements in Section A.III.2 of this permit.

**VI. Miscellaneous Requirements**

None

**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>
K026 - Primer Surfacer System powder coating - booth and oven	None	None

**2. Additional Terms and Conditions**

- 2.a None

**II. Operational Restrictions**

None

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

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

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General Motors Corp. Lordstown Assembly

PTI Application: **02 17027**

**Modif**

Facility ID: **0278000199**

Emissions Unit ID: K026

**Modification Issued: 2/12/2004**

**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>	OAC rule 3745-17-07(A)
K027 - Final Repair application booths and drying devices	OAC rule 3745-31-05(A)(3)	
Administrative modification of PTI #02-17027 issued 2/13/2003	OAC rule 3745-31-05(C)	
	OAC rule 3745-21-09(C)(1)(d)	
	OAC rule 3745-17-11(B)	

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Applicable Emissions  
Limitations/Control  
Measures

160 lbs of VOC per day

8.35 lbs of VOC per hour  
see A.I.2.b

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

see II.2

Annual Final repair emissions shall not exceed:  
1.9 tons PE per rolling  
12-month summation.

24 tons of VOC per rolling  
12-month summation

See A.2.a

Particulate emissions(PE):  
0.551 lb per hour

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

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## 2. Additional Terms and Conditions

- 2.a** The VOC content of all the coatings employed shall not exceed 4.8 pounds of VOC per gallon of coating, excluding water and exempt solvents, on a daily volume-weighted average.
- 2.b** The hourly limitation is based on the emissions units' potential to emit. Therefore, no hourly record keeping and deviation reporting are required to demonstrate compliance with this limitation.

## II. Operational Restrictions

- The permittee shall operate the dry filtration system whenever this emissions unit is in operation.
- The maximum annual production rate off of the final assembly line shall not exceed 502,755 jobs( completed autos), based upon a rolling, 12-month summation.

To ensure enforceability during the first 12 calendar months of operation following the issuance of the permit to install, the permittee shall not exceed the levels specified in the following table:

Month(s)	Maximum Allowable Cumulative Production Rate in Jobs
1	41900
1 - 2	83800
1 - 3	125700
1 - 4	167600
1 - 5	209500
1 - 6	251400
1 - 7	293300
1 - 8	335200
1 - 9	377100
1 - 10	419000
1 - 11	460900
1 - 12	502755

## III. Monitoring and/or Recordkeeping Requirements

- The permittee shall collect, record and calculate the following information for each day for this emissions unit:

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- a. The name and identification number of each coating, as applied.
  - b. The VOC content (excluding water and exempt solvents), the number of gallons of each coating, as applied, and the number of gallons (excluding water and exempt solvents) of each coating, as applied.
  - c. The daily volume-weighted average VOC content of all coatings, as applied, calculated in accordance with the equation specified in paragraph (B)(9) of OAC rule 3745-21-10 for CVOC,<sup>2</sup> or approved alternative.
  - d. The name and identification of each cleanup material employed.
  - e. The number of gallons of each cleanup material employed.
  - f. The VOC content of each cleanup material, in pounds per gallon.
  - g. The total VOC emissions from all coatings and cleanup materials employed, in pounds.  
  
(The permittee will be recording the required information for each day at the end of the calendar month.)
2. The permittee shall maintain monthly records of the following information for this emissions unit:
    - a. the total monthly emission rate, in tons, from A.III.1;
    - b. the rolling, 12-month summation of the monthly VOC emission rates, in tons;
    - c. during the first 12 calendar months of operation following the issuance of the permit to install, the cumulative jobs produced off of the final assembly; and
    - d. after the first 12 calendar months of operation following the issuance of the permit to install, the rolling 12-month summation jobs produced off of the final assembly.
  3. The permittee shall maintain daily records that document any time periods when the dry filtration system was not in service when the emissions unit was in operation.

**IV. Reporting Requirements**

1. The permittee shall notify the Director (the Ohio EPA Northeast District Office ) in writing of any

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daily record showing that the daily volume-weighted average VOC content exceeded the applicable limitation. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA Northeast District Office) within 45 days after the exceedance occurs.

2. The permittee shall submit quarterly deviation (excursion) reports that identify each daily record showing that the daily VOC limitation of 160 pounds of VOC/day was exceeded.
3. The permittee shall submit deviation (excursion) reports that identify each month where the rolling, 12-month VOC emissions exceeded 24 tons. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA Northeast District Office) within 45 days after the exceedance occurs.
4. The permittee shall notify the Director (the Ohio EPA Northeast District Office) in writing of any daily record showing that the dry filtration 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 Director (the Ohio EPA Northeast District Office) within 45 days after the exceedance occurs.
5. The permittee shall submit quarterly deviation (excursion) reports that identify each month the maximum allowable, cumulative limitation on jobs produced off of the final assembly was exceeded.
6. The permittee shall submit quarterly deviation (excursion) reports that identify each month the rolling 12-month limitation jobs produced off of the final assembly was exceeded.

**V. Testing Requirements**

1. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):
  - 1.a Emission Limitation:  
4.8 lbs VOC/gallon coating excluding water and exempt solvents, as a daily volume-weighted average  
  
Applicable Compliance Method:  
Compliance shall be based upon the record keeping in A.III.1. USEPA Method 24 shall be used to determine the VOC contents of the coatings employed. If, pursuant to section 4.3 of Method 24, 40 CFR Part 60, Appendix A, an owner or operator determines that Method 24 or 24A cannot be used for a particular coating, the permittee shall so notify the Administrator of the USEPA and shall use formulation data for that coating to demonstrate compliance until the USEPA provides alternative analytical procedures or alternative precision statements for Method 24 or 24A.
  - 1.b Emission Limitation:  
160 pounds of VOC per day .  
  
Applicable Compliance Method:

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Compliance shall be based upon the record keeping specified in Section A.III.1.

USEPA Method 24 or formulation data shall be used to determine the VOC contents of the cleanup materials.

- 1.c Emission Limitation:  
24 tons/yr, as a rolling, 12-month summation.

Applicable Compliance Method:

The permittee shall demonstrate compliance with the annual allowable VOC emission limitation above based on the record keeping requirements in Section A.III.2 of this permit.

- 1.d Emission Limitation:

0.551 lb/hr and 1.9 tons per year of particulate emissions(PE).

Applicable Compliance Method:

Compliance shall be based on a one time calculation using the actual worst case emission rate for particulate emissions, the following equation shall be used:

$$PE = \text{maximum coating solids usage rate (in pounds per hour)} \times (1-TE) \times (1-CE)$$

Where,

PE = particulate emission rate (lb/hr)

TE = transfer efficiency, which is the ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used

CE = control efficiency of the control equipment

Tons per year is determined by multiplying the hourly PE rate by the emissions unit actual operating hours and dividing by 2000 lbs/ton.

- 1.e Emission Limitation:  
Visible PE shall not exceed 20% opacity, as a six-minute average, except as provided by rule.

Applicable Compliance Method:

If required, compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1).

**VI. Miscellaneous Requirements**

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Facility ID: **0278000199**

Emissions Unit ID: K027

None

**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>
K027 - Final Repair application booths and drying devices	None	None

**2. Additional Terms and Conditions**

2.a None

**II. Operational Restrictions**

None

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

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

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Emissions Unit ID: K027

**Modification Issued: 2/12/2004**

**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>
K028 - Facility Wide Sealers and Adhesives  Administrative modification of PTI #02-17027 issued 2/13/2003	OAC rule 3745-31-05(A)(3)	see A.I.2.a and A. II.1  936 lbs of VOC per day based on a daily average for each calendar month  49.5 lbs of VOC per hour see A.I.2.b  The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(C).
	OAC rule 3745-31-05(C)	143 tons of VOC per rolling 12-month summation.
	OAC rule 3745-21-09(U)(1)(h)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

**2. Additional Terms and Conditions**

- 2.a The VOC content of all coating, sealer and adhesive employed in this emissions unit shall not exceed 0.3 pounds of VOC per gallon of coating, excluding water and exempt solvents, on a daily volume-weighted average.

- 2.b** The hourly limitation is based on the emissions units' potential to emit. Therefore, no hourly record keeping and deviation reporting are required to demonstrate compliance with this limitation.

## II. Operational Restrictions

1. The maximum annual production rate off of the final assembly line shall not exceed 502,755 jobs( completed autos), based upon a rolling, 12-month summation.

To ensure enforceability during the first 12 calendar months of operation following the issuance of the permit to install, the permittee shall not exceed the levels specified in the following table:

Month(s)	Maximum Allowable Cumulative Production Rate in Jobs
1	41900
1 - 2	83800
1 - 3	125700
1 - 4	167600
1 - 5	209500
1 - 6	251400
1 - 7	293300
1 - 8	335200
1 - 9	377100
1 - 10	419000
1 - 11	460900
1 - 12	502755

## III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect, record and calculate the following information monthly for this emissions unit:
  - a. The name and identification number of each coating/adhesive/sealer, as applied.
  - b. The VOC content of each coating/adhesive/sealer, in pounds per gallon (or other appropriate unit) excluding water and exempt solvents, the number of gallons (or other appropriate unit) , of each coating/adhesive/sealer as applied. and the number of gallons (or other appropriate unit) , excluding water and exempt solvents, of each coating/adhesive/sealer as applied.
  - c. The daily volume-weighted average VOC content of all coating/adhesive/sealer, as applied, calculated in accordance with the equation specified in paragraph (B)(9) of OAC

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Emissions Unit ID: K028

rule 3745-21-10 for CVOC,2.

- d. The number of days the emissions unit was in operation.
  - e. The monthly VOC emissions from all coating/adhesive/sealers employed, in pound.
  - f. The average daily VOC emission rate for all coating/adhesive/sealer employed, i.e., (e/d), in pounds/day (average).
2. The permittee shall maintain monthly records of the following information for this emissions unit:
    - a. the rolling, 12-month summation of the monthly VOC emission rates, in tons;
    - b. during the first 12 calendar months of operation following the issuance of the permit to install, the cumulative jobs produced off of the final assembly; and
    - c. after the first 12 calendar months of operation following the issuance of the permit to install, the rolling 12-month summation jobs produced off of the final assembly.

**IV. Reporting Requirements**

1. The permittee shall notify the Director (the Ohio EPA Northeast District Office) in writing of any daily record showing that the daily volume-weighted average VOC content(s) exceeded the applicable limitation(s). The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA Northeast District Office) within 45 days after the exceedance occurs.
2. The permittee shall submit deviation (excursion) reports which identify all times when the VOC emission rate from this emissions unit exceeds 936 pounds per day based on a daily average for each calendar month. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA Northeast District Office) within 45 days after the exceedance occurs.
3. The permittee shall submit deviation (excursion) reports that identify each month where the rolling, 12-month VOC emissions exceeded 143 tons. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA Northeast District Office) within 45 days after the exceedance occurs.
4. The permittee shall submit quarterly deviation (excursion) reports that identify each month the maximum allowable, cumulative limitation on jobs produced off of the final assembly was exceeded.
5. The permittee shall submit quarterly deviation (excursion) reports that identify each month the rolling 12-month limitation jobs produced off of the final assembly was exceeded.

**V. Testing Requirements**

1. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be

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Emissions Unit ID: K028

determined in accordance with the following method(s):

1.a Emission Limitation :

0.3 lbs VOC/gallon coating excluding water and exempt solvents, as a daily volume-weighted average for all coating/adhesive/sealer employed.

**Modification Issued: 2/12/2004****Applicable Compliance Method:**

The permittee shall demonstrate compliance with the VOC content limitation above based on the record keeping requirements in Section A.III.1 of this permit. USEPA Method 24 shall be used to determine the VOC contents of the coatings employed. If, pursuant to section 4.3 of Method 24, 40 CFR Part 60, Appendix A, an owner or operator determines that Method 24 or 24A cannot be used for a particular coating, the permittee shall so notify the Administrator of the USEPA and shall use formulation data for that coating to demonstrate compliance until the USEPA provides alternative analytical procedures or alternative precision statements for Method 24 or 24A.

- 1.b Emission Limitation:  
936 lbs per day of VOC on a monthly average.

**Applicable Compliance Method:**

The permittee shall demonstrate compliance with the daily allowable VOC emission limitation above based on the record keeping requirements in Section A.III.1 of this permit.

- 1.c Emission Limitation:  
143 tons/yr VOC, as a rolling, 12-month summation

**Applicable Compliance Method:**

The permittee shall demonstrate compliance with the annual allowable VOC emission limitation above based on the record keeping requirements in Section A.III.2 of this permit.

- 1.d Emission Limitation:  
502,755 jobs produced off the final line, as a rolling, 12-month summation

**Applicable Compliance Method:**

The permittee shall demonstrate compliance with the annual allowable VOC emission limitation above based on the record keeping requirements in Section A.III.2 of this permit.

**VI. Miscellaneous Requirements**

None

**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>
K028 - Facility Wide Sealers and Adhesives	None	None)

**2. Additional Terms and Conditions**

2.a None

**II. Operational Restrictions**

None

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

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

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**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>	OAC rule 3745-21-09(U)(1)(I)
K029 - Deadener Coating Application	OAC rule 3745-31-05(A)(3)	
Administrative modification of PTI #02-17027 issued 2/13/2003		OAC rule 3745-17-11
		OAC rule 3745-17-07(A)
	OAC rule 3745-31-05(C)	

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Emissions Unit ID: K029

Applicable Emissions  
Limitations/Control  
Measures

0.01 lb of volatile organic compounds (VOC)/gallon of coating, excluding water and exempt solvents.

19 lbs of VOC per day based on a daily average for each calendar month

0.87 lbs of VOC per hour see A.I.2.a

1.83 lbs of particulate per hour

The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(C) and OAC rule 3745-17-07(A).

See II.1

2.5 tons of VOC per rolling 12-month summation.

5.3 tons of particulate per rolling 12-month summation.

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

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

Visible particulate emissions from this emissions unit shall not exceed twenty percent opacity, as a six-minute average, except as provided by the rule.

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**2. Additional Terms and Conditions**

- 2.a** The hourly limitation is based on the emissions units' potential to emit. Therefore, no hourly record keeping and deviation reporting are required to demonstrate compliance with this limitation.

**II. Operational Restrictions**

1. The permittee shall operate the dry filtration system whenever this emissions unit is in operation.
2. The maximum annual production rate off of the final assembly line shall not exceed 502,755 jobs (completed autos), based upon a rolling, 12-month summation.

To ensure enforceability during the first 12 calendar months of operation following the issuance of the permit to install, the permittee shall not exceed the levels specified in the following table:

Month(s)	Maximum Allowable Cumulative Production Rate in Jobs
1	41900
1 - 2	83800
1 - 3	125700
1 - 4	167600
1 - 5	209500
1 - 6	251400
1 - 7	293300
1 - 8	335200
1 - 9	377100
1 - 10	419000
1 - 11	460900
1 - 12	502755

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

1. The permittee shall collect, record and calculate the following information each month for this emissions unit:
  - a. The name and identification number of each coating, as applied.
  - b. The VOC content of each coating (in lbs/gallon excluding water and exempt solvents), as

applied.

- c. The number of gallons of each coating (excluding water and exempt solvents) employed.
  - d. The number of days the emissions unit was in operation.
  - e. The total VOC emissions from all the coatings employed ( b x c ), in pound.
  - f. The average daily OC emission rate for all the coatings employed, i.e., (e/d), in pounds/day (average).
2. The permittee shall maintain monthly records of the following information for this emissions unit:
    - a. The total monthly emission rate, in tons, from A.III.1.
    - b. The rolling, 12-month summation of the monthly VOC emission rates , in tons.
    - c. during the first 12 calendar months of operation following the issuance of the permit to install, the cumulative jobs produced off of the final assembly; and
    - d. after the first 12 calendar months of operation following the issuance of the permit to install, the rolling 12-month summation jobs produced off of the final assembly.
  3. The permittee shall maintain records that document any time periods when the dry filtration system was not in service when the emissions unit was in operation.

#### IV. Reporting Requirements

1. The permittee shall notify the Director (the Ohio EPA Northeast District Office) in writing of any monthly record showing the use of noncomplying coatings. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA Northeast District Office) within 45 days following the end of the calendar month.
2. The permittee shall submit deviation (excursion) reports which identify all times when the VOC emission rate from this emissions unit exceeds 19 pounds per day based on a daily average for each calendar month. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA Northeast District Office) within 45 days after the exceedance occurs.
3. The permittee shall submit deviation (excursion) reports that identify each month where the rolling, 12-month VOC emissions exceeded 9.7 tons. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA Northeast District Office) within 45 days after the exceedance occurs.
4. The permittee shall notify the Director (the Ohio EPA Northeast District Office) in writing of any record showing that the dry filtration 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 Director

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(the Ohio EPA Northeast District Office) within 45 days after the exceedance occurs.

5. The permittee shall submit quarterly deviation (excursion) reports that identify each month the maximum allowable, cumulative limitation on jobs produced off of the final assembly was exceeded.
6. The permittee shall submit quarterly deviation (excursion) reports that identify each month the rolling 12-month limitation jobs produced off of the final assembly was exceeded.

**V. Testing Requirements**

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

- 1.a Emission Limitation:  
0.01 lb of VOC/gallon of coating, excluding water and exempt solvents.

**Applicable Compliance Method:**

The permittee shall demonstrate compliance with the VOC content limitation above based on the record keeping requirements in Section A.III.1 of this permit. USEPA Method 24 shall be used to determine the VOC contents of the coatings employed. If, pursuant to section 4.3 of Method 24, 40 CFR Part 60, Appendix A, an owner or operator determines that Method 24 or 24A cannot be used for a particular coating, the permittee shall so notify the Administrator of the USEPA and shall use formulation data for that coating to demonstrate compliance until the USEPA provides alternative analytical procedures or alternative precision statements for Method 24 or 24A.

- 1.b Emission Limitation:  
19 lbs per day of VOC

**Applicable Compliance Method:**

The permittee shall demonstrate compliance with the daily allowable VOC emission limitation above based on the record keeping requirements in Section A.III.1 of this permit.

- 1.c Emission Limitation:  
2.5 tons/yr VOC, as a rolling, 12-month summation

**Applicable Compliance Method:**

**Modif**

Emissions Unit ID: K029

The permittee shall demonstrate compliance with the annual allowable VOC emission limitation above based on the record keeping requirements in Section A.III.2 of this permit.

## 1.d Emission Limitation:

1.83 lb/hr and 27.4 tons per year of particulate emissions (PE)

## Applicable Compliance Method:

Compliance shall be based on a one time calculation using the actual worst case emission rate for particulate emissions, the following equation shall be used:

$$PE = \text{maximum coating solids usage rate (in pounds per hour)} \times (1-TE) \times (1-CE)$$

Where,

maximum solids usage rate is 1 gal/job x 87 jobs/hr x 12 lb/gal (density) x 0.7 (wt. of solids) = 730.8 lbs/hr of solids

PE = particulate emission rate (lb/hr)

TE = transfer efficiency, which is the ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used

CE = control efficiency of the control equipment

Tons per year is determined by multiplying the hourly PE rate by the emissions unit actual hours of operation and dividing by 2000 lbs/ton.

## 1.e Emission Limitation:

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

## Applicable Compliance Method:

If required, compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1).

## 1.f Emission Limitation:

502,755 jobs produced off the final line, as a rolling, 12-month summation

## Applicable Compliance Method:

The permittee shall demonstrate compliance with the annual allowable VOC emission limitation above based on the record keeping requirements in Section A.III.2 of this permit.

**VI. Miscellaneous Requirements**

None

**Modification Issued: 2/12/2004**

**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>
K029 - Deadener Coating Application	None	None)

**2. Additional Terms and Conditions**

**2.a** None

**II. Operational Restrictions**

None

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

None

**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>	OAC rule 3745-31-28
K030 - Foam Process application of foam in structural body members	OAC rule 3745-31-05(A)(3)	
Administrative modification of PTI #02-17027 issued 2/13/2003		
	OAC rule 3745-21-09(U)(1)(I)	
	OAC rule 3745-31-05(C)	

**Modif**

Emissions Unit ID: K030

## Applicable Emissions

Limitations/ControlMeasures

0.145 lb of volatile organic compounds (VOC)/gallon of coating, excluding water and exempt solvents, based on a weighted average.

305.3 lbs of VOC per day based on a daily average for each calendar month .

13.9 lbs of VOC per hour  
see A.I.2.a

The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(C).

See II.1

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

40.1 tons of VOC per rolling 12-month summation.

see A.I.2.b

## 2. Additional Terms and Conditions

- 2.a** The hourly limitation is based on the emissions units' potential to emit. Therefore, no hourly record keeping and deviation reporting are required to demonstrate compliance with this limitation.
- 2.b** In accordance with 40 CFR, Part 63, Subpart B, sections 63.40 through 63.44 and the Clean Air Act Section 112(g), the permittee shall limit the Hazardous Air Pollutants (HAPs) content in the coating used in this emissions unit to 10 percent by weight. This determination is being made based on the permittee's application that lists the formulation of the coating used in this emissions unit.

## II. Operational Restrictions

1. The maximum annual production rate off of the final assembly line shall not exceed 502,755 jobs( completed autos), based upon a rolling, 12-month summation.

To ensure enforceability during the first 12 calendar months of operation following the issuance of the permit to install, the permittee shall not exceed the levels specified in the following table:

Month(s)	Maximum Allowable Cumulative Production Rate in Jobs
1	41900
1 - 2	83800
1 - 3	125700
1 - 4	167600
1 - 5	209500
1 - 6	251400
1 - 7	293300
1 - 8	335200
1 - 9	377100
1 - 10	419000
1 - 11	460900
1 - 12	502755

## III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall collect, record and calculate the following information each month for this emissions unit:

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Emissions Unit ID: K030

- a. The name and identification number of each coating, as applied.
- b. The VOC content of each coating (in lbs/gallon excluding water and exempt solvents), as applied.

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- c. The number of gallons of each coating (excluding water and exempt solvents) employed.
  - d. The number of days the emissions unit was in operation.
  - e. The total VOC emissions from all the coatings employed ( b x c ), in pound.
  - f. The average daily OC emission rate for all the coatings employed, i.e., (e/d), in pounds/day (average).
2. The permittee shall maintain monthly records of the following information for this emissions unit:
    - a. The total monthly emission rate, in tons, from A.III.1.
    - b. The rolling, 12-month summation of the monthly VOC emission rates , in tons.
    - c. during the first 12 calendar months of operation following the issuance of the permit to install, the cumulative jobs produced off of the final assembly; and
    - d. after the first 12 calendar months of operation following the issuance of the permit to install, the rolling 12-month summation jobs produced off of the final assembly.

**IV. Reporting Requirements**

1. The permittee shall notify the Director (the Ohio EPA Northeast District Office) in writing of any monthly record showing the use of noncomplying coatings based on the weighted average. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA Northeast District Office) within 45 days following the end of the calendar month.
2. The permittee shall submit deviation (excursion) reports which identify all times when the VOC emission rate from this emissions unit exceeds 305.3 pounds per day based on a daily average for each calendar month. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA Northeast District Office) within 45 days after the exceedance occurs.
3. The permittee shall submit deviation (excursion) reports that identify each month where the rolling, 12-month VOC emissions exceeded 40.1 tons. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA Northeast District Office) within 45 days after the exceedance occurs.
4. The permittee shall submit quarterly deviation (excursion) reports that identify each month the

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Emissions Unit ID: K030

maximum allowable, cumulative limitation on jobs produced off of the final assembly was exceeded.

5. The permittee shall submit quarterly deviation (excursion) reports that identify each month the rolling 12-month limitation jobs produced off of the final assembly was exceeded.
6. The permittee shall submit quarterly deviation (excursion) reports that identify each month the HAP coating formulation A.III.1.g exceeds 10 percent by weight.

**V. Testing Requirements**

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

- 1.a Emission Limitation:  
0.145 lb of VOC/gallon of coating based on a weighted average, excluding water and exempt solvents.

**Applicable Compliance Method:**

The permittee shall demonstrate compliance with the VOC content limitation above based on the record keeping requirements in Section A.III.1 of this permit. USEPA Method 24 shall be used to determine the VOC contents of the coatings employed. If, pursuant to section 4.3 of Method 24, 40 CFR Part 60, Appendix A, an owner or operator determines that Method 24 or 24A cannot be used for a particular coating, the permittee shall so notify the Administrator of the USEPA and shall use formulation data for that coating to demonstrate compliance until the USEPA provides alternative analytical procedures or alternative precision statements for Method 24 or 24A.

- 1.b Emission Limitation:  
305.3 lbs per day of VOC

**Applicable Compliance Method:**

The permittee shall demonstrate compliance with the daily allowable VOC emission limitation above based on the record keeping requirements in Section A.III.1 of this permit.

- 1.c Emission Limitation:  
40.1 tons/yr VOC, as a rolling, 12-month summation

**Applicable Compliance Method:**

The permittee shall demonstrate compliance with the annual allowable VOC emission limitation above based on the record keeping requirements in Section A.III.2 of this permit.

- 1.d Emission Limitation:  
502,755 jobs produced off the final line , as a rolling, 12-month summation

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Applicable Compliance Method:

The permittee shall demonstrate compliance with the annual allowable VOC emission limitation above based on the record keeping requirements in Section A.III.2 of this permit.

**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>
K030 - Foam Process application of foam in structural body members	None	None

**2. Additional Terms and Conditions**

2.a None

**II. Operational Restrictions**

None

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

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

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**Modif**

Facility ID: **0278000199**

Emissions Unit ID: K030

**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>
K031 - Sound Dampening spray application of sound dampening material	OAC rule 3745-31-05(A)(3)	0.07 lb of volatile organic compounds (VOC)/gallon of coating, excluding water and exempt solvents.
Administrative modification of PTI #02-17027 issued 2/13/2003		268 lbs of VOC per day based on a daily average for each calendar month
		12.2 lbs of VOC per hour see A.I.2.a
		The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(C).
		See II.1
	OAC rule 3745-31-05(C)	35.2 tons of VOC per rolling 12-month summation.
	OAC rule 3745-21-09(U)(1)(I)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-31-28	see A.I.2.b

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## **2. Additional Terms and Conditions**

- 2.a** The hourly limitation is based on the emissions units' potential to emit. Therefore, no hourly record keeping and deviation reporting are required to demonstrate compliance with this limitation.
- 2.b** In accordance with 40 CFR, Part 63, Subpart B, sections 63.40 through 63.44 and the Clean Air Act Section 112(g), the permittee shall cause no Hazardous Air Pollutants (HAPs) to be discharged into the atmosphere from this emissions unit. This determination is being made based on the permittee's application that lists no volatile HAPs are contained in the formulation of the coating used in this emissions unit.

## **II. Operational Restrictions**

1. The maximum annual production rate off of the final assembly line shall not exceed 502,755 jobs( completed autos), based upon a rolling, 12-month summation.

To ensure enforceability during the first 12 calendar months of operation following the issuance of the permit to install, the permittee shall not exceed the levels specified in the following table:

Month(s)	Maximum Allowable Cumulative Production Rate in Jobs
1	41900
1 - 2	83800
1 - 3	125700
1 - 4	167600
1 - 5	209500
1 - 6	251400
1 - 7	293300
1 - 8	335200
1 - 9	377100
1 - 10	419000
1 - 11	460900
1 - 12	502755

## **III. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall collect, record and calculate the following information each month for this

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emissions unit:

- a. The name and identification number of each coating, as applied.
  - b. The VOC content of each coating (in lbs/gallon excluding water and exempt solvents), as applied.
  - c. The number of gallons of each coating (excluding water and exempt solvents) employed.
  - d. The number of days the emissions unit was in operation.
  - e. The total VOC emissions from all the coatings employed (  $b \times c$  ), in pound.
  - f. The average daily OC emission rate for all the coatings employed, i.e., (e/d), in pounds/day (average).
2. The permittee shall maintain monthly records of the following information for this emissions unit:
    - a. The total monthly emission rate, in tons, from A.III.1.
    - b. The rolling, 12-month summation of the monthly VOC emission rates , in tons.
    - c. during the first 12 calendar months of operation following the issuance of the permit to install, the cumulative jobs produced off of the final assembly; and
    - d. after the first 12 calendar months of operation following the issuance of the permit to install, the rolling 12-month summation jobs produced off of the final assembly.

**IV. Reporting Requirements**

1. The permittee shall notify the Director (the Ohio EPA Northeast District Office) in writing of any monthly record showing the use of noncomplying coatings. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA Northeast District Office) within 45 days following the end of the calendar month.
2. The permittee shall submit deviation (excursion) reports which identify all times when the VOC emission rate from this emissions unit exceeds 305.3 pounds per day based on a daily average for each calendar month. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA Northeast District Office) within 45 days after the exceedance occurs.

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Emissions Unit ID: K031

3. The permittee shall submit deviation (excursion) reports that identify each month where the rolling, 12-month VOC emissions exceeded 40.1 tons. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA Northeast District Office) within 45 days after the exceedance occurs.
4. The permittee shall submit quarterly deviation (excursion) reports that identify each month the maximum allowable, cumulative limitation on jobs produced off of the final assembly was exceeded.
5. The permittee shall submit quarterly deviation (excursion) reports that identify each month the rolling 12-month limitation jobs produced off of the final assembly was exceeded.
6. The permittee shall submit quarterly deviation (excursion) reports that identify each month the HAP coating formulation A.III.1.g exceeds zero.

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## V. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):
  - 1.a Emission Limitation:  
0.07 lb of VOC/gallon of coating, excluding water and exempt solvents.  
Applicable Compliance Method:  
The permittee shall demonstrate compliance with the VOC content limitation above based on the record keeping requirements in Section A.III.1 of this permit. USEPA Method 24 shall be used to determine the VOC contents of the coatings employed. If, pursuant to section 4.3 of Method 24, 40 CFR Part 60, Appendix A, an owner or operator determines that Method 24 or 24A cannot be used for a particular coating, the permittee shall so notify the Administrator of the USEPA and shall use formulation data for that coating to demonstrate compliance until the USEPA provides alternative analytical procedures or alternative precision statements for Method 24 or 24A.
  - 1.b Emission Limitation:  
268 lbs per day of VOC  
  
Applicable Compliance Method:  
The permittee shall demonstrate compliance with the daily allowable VOC emission limitation above based on the record keeping requirements in Section A.III.1 of this permit.
  - 1.c Emission Limitation:  
35.2 tons/yr VOC, as a rolling, 12-month summation  
  
Applicable Compliance Method:  
The permittee shall demonstrate compliance with the annual allowable VOC emission limitation above based on the record keeping requirements in Section A.III.2 of this permit.
  - 1.d Emission Limitation:  
502,755 jobs produced off the final line, as a rolling, 12-month summation  
  
Applicable Compliance Method:  
The permittee shall demonstrate compliance with the annual allowable VOC emission limitation above based on the record keeping requirements in Section A.III.2 of this permit.

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Emissions Unit ID: K031

**VI. Miscellaneous Requirements**

None

Modif

Emissions Unit ID: K031

**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>
K031 - Sound Dampening spray application of sound dampening material	None	None)

**2. Additional Terms and Conditions**

2.a None

**II. Operational Restrictions**

None

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

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

**Modification Issued: 2/12/2004**

### 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>
K033 - Misc. Solvent Usage body wipe, paint line purge, cleanup, maintenance, etc.	OAC rule 3745-31-05(A)(3)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-07(G) and OAC rule 3745-31-05(C).
Administrative modification of PTI #02-17027 issued 2/13/2003	OAC rule 3745-31-05(C) OAC rule 3745-21-07(G)	266.7 tons/yr organic compounds (OC), based on a rolling, 12-month summation none (See Section A.II.1.)

##### 2. Additional Terms and Conditions

2.a None

##### II. Operational Restrictions

1. The use of any photochemically reactive material for body wipe, cleaning, and/or any other miscellaneous use performed outside of any paint booths, as defined in OAC rule 3745-21-01(C) (5), in this emissions unit is prohibited.

##### III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain monthly records of the following information for this emissions unit:
  - a. The name and identification for each solvent employed.

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- b. The number of gallons of each solvent material employed.
- c. The OC content of each solvent material, in pounds per gallon.
- d. The number of gallons of each solvent material employed in basecoat purging.
- e. The number of gallons of each solvent material employed in clearcoat purging.
- f. The number of gallons of solvent material recovered in the topcoat system.
- g. The calculated, controlled OC emission rate from all solvent materials employed in the topcoat system, (using capture and destruction efficiencies from the most recent test required in K025), in pounds or tons.
- h. The OC emissions from each solvent material employed ( other than those used in purging, in pounds.
- i. The total OC emissions from all the solvent materials employed [summation of h for all non-purging solvents/2000 + g], in tons.
- j. The rolling, 12-month summation of the monthly OC emission rates, in tons.
- k. Documentation on whether or not each material employed is a photochemically reactive material, as specified in A.II.1.

#### **IV. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports that identify each month where the rolling, 12-month OC emissions exceeded 266.7 tons. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA Northeast District Office) within 45 days after the exceedance occurs.
2. The permittee shall submit deviation (excursion) reports which include the identification of any photochemically reactive liquid organic material employed, as specified in A.II.1, the day(s) such materials were employed, the amount of any such materials employed, and the total pounds of organic compounds emitted. The reports shall be sent to the Director (the Ohio EPA Northeast District Office) within 45 days following the end of the calendar month.
3. The permittee shall also submit annual reports which specify the total OC emissions from this

**Modif**

Emissions Unit ID: K033

emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

**V. Testing Requirements**

1. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):
  - 1.a Emission Limitation:  
266.7 tons/yr OC, as a rolling, 12-month summation

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Applicable Compliance Method:

The permittee shall demonstrate compliance with the annual allowable OC emission limitation above based on the record keeping requirements in Section A.III.1 of this permit.

2. Formulation data or USEPA Method 24 shall be used to determine the OC content of the solvents.

**VI. Miscellaneous Requirements**

None

**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>
K033 - Misc. Solvent Usage body wipe, purge, cleanup, etc.	None	None

**2. Additional Terms and Conditions**

2.a None

**II. Operational Restrictions**

None

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

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

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Emissions Unit ID: K033

**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>	
P025 - Facility Wide Process Natural Gas Usage	OAC rule 3745-31-05(A)(3)	OAC rule 3745-17-07(A)(1)
Administrative modification of PTI #02-17027 issued 2/13/2003		OAC rule 3745-17-10
	OAC rule 3745-31-05(C)	

Applicable Emissions  
Limitations/Control  
Measures

Particulate emissions (PE) shall not exceed 7.3 tons per rolling 12-month summation.

Organic compound (OC) emissions shall not exceed 5.3 tons per rolling 12-month summation.

Sulfur dioxide (SO<sub>2</sub>) emissions shall not exceed 0.6 ton per rolling 12-month summation.

The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(C) and OAC rule 3745-17-07(A)(1).

see A.2.a

Nitrogen oxides (NO<sub>x</sub>) emissions shall not exceed 133.7 tons per rolling 12-month summation.

Carbon monoxide (CO) emissions shall not exceed 80.2 tons per rolling 12-month summation.

Except as specified by rule, visible particulate emissions from the exhaust stacks serving this emissions unit

shall not exceed twenty (20) percent opacity, as a six-minute average.

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

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## **2. Additional Terms and Conditions**

- 2.a** The facility wide process natural gas usage emissions unit consists of all natural gas fired process and control equipment associated with the new paint shop. This does not include natural gas used in the new boilers associated with this permit to install.

## **II. Operational Restrictions**

1. The permittee shall burn only natural gas in this emissions unit.

## **III. Monitoring and/or Recordkeeping Requirements**

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
2. The permittee shall maintain monthly records of the following information for this emissions unit:
  - a. The amount of natural gas used by this emissions unit in standard cubic feet (scf).
  - b. The total monthly emission rate for SO<sub>2</sub>, CO, NO<sub>X</sub>, PE, and VOC., in tons.
  - c. The rolling, 12-month summation of the monthly for SO<sub>2</sub>, CO, NO<sub>X</sub>, PE, and VOC emission rates , in tons.

## **IV. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 45 days after the deviation occurs.
2. The permittee shall submit deviation (excursion) reports that identify each month where the rolling, 12-month SO<sub>2</sub>, CO, NO<sub>X</sub>, PE, and VOC emissions exceeded the limits in A.I.1. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA Northeast District Office) within 45 days after the exceedance occurs.
3. The permittee shall submit an annual report which summarizes the following information:
  - a. the annual amount of natural gas used in this emissions unit in scf; and
  - b. the total annual emissions of SO<sub>2</sub>, CO, NO<sub>X</sub>, PE, and VOC's from this emissions unit for

the previous calendar year.

This reports shall be submitted by January 31 of each year for operations during the previous calendar year.

## V. Testing Requirements

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

- a. Emission Limitation :  
0.6 ton of SO<sub>2</sub> per rolling 12-month summation.

Applicable Compliance Method:

Monthly emissions shall be based on a calculation by using emission factors from AP-42, Section 1.4 (1998) for natural gas combustion, 0.6 lb of SO<sub>2</sub> per mmcf and the monthly natural gas usage.

The rolling 12-month summation shall be made using monthly emissions.

- b. Emission Limitation :  
80.2 tons of CO per rolling 12-month summation.

Applicable Compliance Method:

Monthly emissions shall be based on a calculation by using emission factors from AP-42, Section 1.4 (1998) for natural gas combustion, 84 lbs of CO per mmcf and the monthly natural gas usage.

The rolling 12-month summation shall be made using monthly emissions.

- c. Emission Limitation :  
133.7 tons of NO<sub>X</sub> per rolling 12-month summation.

Applicable Compliance Method:

Monthly emissions shall be based on a calculation by using emission factors from AP-42, Section 1.4 (1998) for natural gas combustion, 140 lbs of NO<sub>X</sub> per mmcf and the monthly natural gas usage.

The rolling 12-month summation shall be made using monthly emissions.

- d. Emission Limitation :  
7.3 tons of PE per rolling 12-month summation.

**Modification Issued: 2/12/2004****Applicable Compliance Method:**

Monthly emissions shall be based on a calculation by using emission factors from AP-42, Section 1.4 (1998) for natural gas combustion, 7.6 lbs of PE per mmcf and the monthly natural gas usage.

The rolling 12-month summation shall be made using monthly emissions.

- e. **Emission Limitation :**  
5.3 tons of VOC per rolling 12-month summation.

**Applicable Compliance Method:**

Monthly emissions shall be based on a calculation by using emission factors from AP-42, Section 1.4 (1998) for natural gas combustion, 5.5 lbs of VOC per mmcf and the monthly natural gas usage.

The rolling 12-month summation shall be made using monthly emissions.

- f. **Emission Limitation:**  
20 percent opacity, as a six-minute average.

**Applicable Compliance Method:**

Compliance shall be determined by visible emission evaluations performed in accordance with OAC Rule 3745-17-03(B)(3) using the methods and procedures specified in U.S.EPA Reference Method 9.

**VI. Miscellaneous Requirements**

None

**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>
P025 - Facility Wide Natural Gas Usage	None	None

**2. Additional Terms and Conditions**

2.a None

**II. Operational Restrictions**

None

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

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None