



State of Ohio Environmental Protection Agency

Street Address:

Lazarus Gov. Center
122 S. Front Street
Columbus, OH 43215

TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov. Center
P.O. Box 1049
Columbus, OH 43216-1049

07/26/06

CERTIFIED MAIL

RE: Final Title V Chapter 3745-77 permit

03-88-01-0051
Bridgestone APM Company - Foam Products Division
Matt Beckman
245 Commerce Way
Upper Sandusky, OH 43351

Dear Matt Beckman:

Enclosed is the Title V permit that allows you to operate the facility in the manner indicated in the permit. Because this permit may contain several conditions and restrictions, we urge you to read it carefully.

The Ohio EPA is encouraging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469.

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Review Appeals Commission pursuant to Section 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. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00 which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. 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, OH 43215

If you have any questions, please contact Northwest District Office.

Sincerely,

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

cc: Northwest District Office
File, DAPC PIER



State of Ohio Environmental Protection Agency

FINAL TITLE V PERMIT

Issue Date: **07/26/06**

Effective Date: **08/16/06**

Expiration Date: **08/16/11**

This document constitutes issuance of a Title V permit for Facility ID: 03-88-01-0051 to:
Bridgestone APM Company - Foam Products Division
245 Commerce Way
Upper Sandusky, OH 43351

Emissions Unit ID (Company ID)/Emissions Unit Activity Description

P005 (Line #2) Mold Release, Pouring, Scraping/Demolding, and Cure Oven - Line #2	P007 (Line #2: EA Pad) Energy Absorbing Pad - Line #1	R002 (Glue Booth #2) Manual Glue Booth
P006 (Line #1) Mold Release, Pouring, Scraping/Demolding, Cure Oven, and Post Cure Oven - Line #1	P008 (Line #3: EA Pad) Energy Absorbing Pad - Line #2	R003 (Glue Booth #3) Manual Glue Booth
	R001 (Glue Booth #1) Manual Glue booth	

You will be contacted approximately eighteen (18) months prior to the expiration date regarding the renewal of this permit. If you are not contacted, please contact the appropriate Ohio EPA District Office or local air agency listed below. This permit and the authorization to operate the air contaminant sources (emissions units) at this facility shall expire at midnight on the expiration date shown above. If a renewal permit is not issued prior to the expiration date, the permittee may continue to operate pursuant to OAC rule 3745-77-08(E) and in accordance with the terms of this permit beyond the expiration date, provided that a complete renewal application is submitted no earlier than eighteen (18) months and no later than one-hundred eighty (180) days prior to the expiration date.

Described below is the current Ohio EPA District Office or local air agency that is responsible for processing and administering your Title V permit:

Northwest District Office
347 North Dunbridge Road
Bowling Green, OH 43402
(419) 352-8461

Ohio Environmental Protection Agency

Joseph P. Koncelik
Director

PART I - GENERAL TERMS AND CONDITIONS

A. State and Federally Enforceable Section

1. Monitoring and Related Record Keeping and Reporting Requirements

a. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, i.e., in Section A.III of Part III of this Title V permit, 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.
(Authority for term: OAC rule 3745-77-07(A)(3)(b)(i))

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 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.
(Authority for term: OAC rule 3745-77-07(A)(3)(b)(ii))

c. The permittee shall submit required reports in the following manner:

- i. **All reporting required in accordance with OAC rule 3745-77-07(A)(3)(c) for deviations caused by malfunctions shall be submitted in the following manner:**

Any malfunction, as defined in OAC rule 3745-15-06(B)(1), shall be promptly reported to the Ohio EPA in accordance with OAC rule 3745-15-06. In addition, to fulfill the OAC rule 3745-77-07(A)(3)(c) deviation reporting requirements for malfunctions, written reports that identify each malfunction that occurred during each calendar quarter (including each malfunction reported only verbally in accordance with OAC rule 3745-15-06) shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year in accordance with General Term and Condition A.1.c.ii below; and each report shall cover the previous calendar quarter (An exceedance of the visible emission limitations specified in OAC rule 3745-17-07(A)(1) that is caused by a malfunction is not a violation and does not need to be reported as a deviation if the owner or operator of the affected air contaminant source or air pollution control equipment complies with the requirements of OAC rule 3745-17-07(A)(3)(c)).

In accordance with OAC rule 3745-15-06, a malfunction reportable under OAC rule 3745-15-06(B) constitutes a violation of an emission limitation (or control requirement) and, therefore, is a deviation of the federally enforceable permit requirements. Even though verbal notifications and written reports are required for malfunctions pursuant to OAC rule 3745-15-06, the written reports required pursuant to this term must be submitted quarterly to satisfy the prompt reporting provision of OAC rule 3745-77-07(A)(3)(c).

In identifying each deviation caused by a malfunction, the permittee shall specify the emission limitation(s) (or control requirement(s)) for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation. For a specific malfunction, if this information has been provided in a written report that was submitted in accordance with OAC rule 3745-15-06, the permittee may simply

reference that written report to identify the deviation. Nevertheless, all malfunctions, including those reported only verbally in accordance with OAC rule 3745-15-06, must be reported in writing on a quarterly basis.

Any scheduled maintenance, as referenced in OAC rule 3745-15-06(A)(1), that results in a deviation from a federally enforceable emission limitation (or control requirement) shall be reported in the same manner as described above for malfunctions.

(Authority for term: OAC rule 3745-77-07(A)(3)(c))

- ii. **Except as may otherwise be provided in the terms and conditions for a specific emissions unit, i.e., in Section A.IV of Part III of this Title V permit or, in some cases, in Part II of this Title V permit, all reporting required in accordance with OAC rule 3745-77-07(A)(3)(c) for deviations of the emission limitations, operational restrictions, and control device operating parameter limitations shall be submitted in the following manner:**

Written reports of (a) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures taken, shall be promptly made to the appropriate Ohio EPA District Office or local air agency. Except as provided below, the written reports shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

In identifying each deviation, the permittee shall specify the emission limitation(s), operational restriction(s), and/or control device operating parameter limitation(s) for which the deviation occurred, describe each deviation, and provide the estimated magnitude and duration of each deviation.

These written deviation reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c) pertaining to the submission of monitoring reports every six months and to the prompt reporting of all deviations. Full compliance with OAC rule 3745-77-07(A)(3)(c) requires reporting of all other deviations of the federally enforceable requirements specified in the permit as required by such rule.

If an emissions unit has a deviation reporting requirement for a specific emission limitation, operational restriction, or control device operating parameter limitation that is not on a quarterly basis (e.g., within 30 days following the end of the calendar month, or within 30 or 45 days after the exceedance occurs), that deviation reporting requirement satisfies the reporting requirements specified in this General Term and Condition for that specific emission limitation, operational restriction, or control device parameter limitation. Following the provisions of that non-quarterly deviation reporting requirement will also satisfy (for the deviations so reported) the requirements of OAC rule 3745-77-07(A)(3)(c) pertaining to the submission of monitoring reports every six months and to the prompt reporting of all deviations, and additional quarterly deviation reports for that specific emission limitation, operational restriction, or control device parameter limitation are not required pursuant to this General Term and Condition.

See B.6 below if no deviations occurred during the quarter.

(Authority for term: OAC rule 3745-77-07(A)(3)(c))

- iii. **All reporting required in accordance with the OAC rule 3745-77-07(A)(3)(c) for other deviations of the federally enforceable permit requirements which are not reported in accordance with General Term and Condition A.1.c.ii above shall be submitted in the following manner:**

Unless otherwise specified by rule, written reports that identify deviations of the following federally enforceable requirements contained in this permit; General Terms and Conditions: A.2, A.3, A.4, A.6.e, A.7, A.12, A.14, A.18, A.19, A.20, and A.22 of Part I of this Title V permit, as well as any deviations from the requirements in Section A.V or A.VI of Part III of this Title V permit, and any monitoring, record keeping, and reporting requirements, which are not reported in accordance with General Term and Condition A.1.c.ii above shall be submitted (i.e., postmarked) to the appropriate Ohio EPA District Office or local air agency by January 31 and July 31 of each year; and each report shall cover the previous six calendar months. Unless otherwise specified by rule, all other deviations from federally enforceable

requirements identified in this permit shall be submitted annually as part of the annual compliance certification, including deviations of federally enforceable requirements not specifically addressed by permit or rule for the insignificant activities or emissions levels (IEU) identified in Part II.A of this Title V permit. Annual reporting of deviations is deemed adequate to meet the deviation reporting requirements for IEUs unless otherwise specified by permit or rule.

In identifying each deviation, the permittee shall specify the federally enforceable requirement for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation.

These semi-annual and annual written reports shall satisfy the reporting requirements of OAC rule 3745-77-07(A)(3)(c) for any deviations from the federally enforceable requirements contained in this permit that are not reported in accordance with General Term and Condition A.1.c.ii above.

If no such deviations occurred during a six-month period, the permittee shall submit a semi-annual report which states that no such deviations occurred during that period.

(Authority for term: OAC rules 3745-77-07(A)(3)(c)(i) and (ii) and OAC rule 3745-77-07(A)(13)(b))

- 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 (including any written malfunction reports required by OAC rule 3745-15-06 that are referenced in the deviation reports) are true, accurate, and complete."
(Authority for term: OAC rule 3745-77-07(A)(3)(c)(iv))
- v. Reports of any required monitoring and/or record keeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
(Authority for term: OAC rule 3745-77-07(A)(3)(c))

2. **Scheduled Maintenance**

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. Except as provided in OAC rule 3745-15-06(A)(3), any scheduled maintenance necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s). Any scheduled maintenance, as defined in OAC rule 3745-15-06(A)(1), that results in a deviation from a federally enforceable emission limitation (or control requirement) shall be reported in the same manner as described for malfunctions in General Term and Condition A.1.c.i above.

(Authority for term: OAC rule 3745-77-07(A)(3)(c))

3. **Risk Management Plans**

If applicable, the permittee shall 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"); and, pursuant to 40 C.F.R. 68.215(a), the permittee shall submit either of the following:

- a. a compliance plan for meeting the requirements of 40 C.F.R. Part 68 by the date specified in 40 C.F.R. 68.10(a) and OAC 3745-104-05(A); or
- b. as part of the compliance certification submitted under 40 C.F.R. 70.6(c)(5), a certification statement that the source is in compliance with all requirements of 40 C.F.R. Part 68 and OAC Chapter 3745-104, including the registration and submission of the risk management plan.

(Authority for term: OAC rule 3745-77-07(A)(4))

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.

(Authority for term: OAC rule 3745-77-07(A)(5))

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.

(Authority for term: OAC rule 3745-77-07(A)(6))

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, in accordance with A.10 below. 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.
- f. Except as otherwise indicated below, this Title V permit, or permit modification, is effective for five years from the original effective date specified in the permit. In the event that this facility becomes eligible for non-title V permits, this permit shall cease to be enforceable upon final issuance of all applicable OAC Chapter 3745-35 operating permits and/or registrations for all subject emissions units located at the facility and:
 - i. the permittee submits an approved facility-wide potential to emit analysis supporting a claim that the facility no longer meets the definition of a "major source" as defined in OAC rule 3745-77-01(W) based on the permanent shutdown and removal of one or more emissions units identified in this permit; or
 - ii. the permittee no longer meets the definition of a "major source" as defined in OAC rule 3745-77-01(W) based on obtaining restrictions on the facility-wide potential(s) to emit that are federally enforceable or legally and practically enforceable ; or
 - iii. a combination of i. and ii. above.

The permittee shall comply with any residual requirements, such as quarterly deviation reports, semi-annual deviation reports, and annual compliance certifications covering the period during which this Title V permit was enforceable. All records relating to this permit must be maintained in accordance with law.

(Authority for term: OAC rule 3745-77-01(W), OAC rule 3745-77-07(A)(3)(b)(ii), OAC rule 3745-77(A)(7))

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.

(Authority for term: OAC rule 3745-77-07(A)(8))

8. Marketable Permit Programs

No revision of this permit is required under any approved economic incentive, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in this permit.

(Authority for term: OAC rule 3745-77-07(A)(9))

9. Reasonably Anticipated Operating Scenarios

The permittee is hereby authorized to make changes among operating scenarios authorized in this permit without notice to the Ohio EPA, but, contemporaneous with making a change from one operating scenario to another, the permittee must record in a log at the permitted facility the scenario under which the permittee is operating. The permit shield provided in these general terms and conditions shall apply to all operating scenarios authorized in this permit.

(Authority for term: OAC rule 3745-77-07(A)(10))

10. Reopening for Cause

This Title V permit will be reopened prior to its expiration date under the following conditions:

- a. Additional applicable requirements under the Act become applicable to one or more emissions units covered by this permit, and this permit has a remaining term of three or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to paragraph (E)(1) of OAC rule 3745-77-08.
- b. This permit is issued to an affected source under the acid rain program and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit, and shall not require a reopening of this permit.
- c. The Director of the Ohio EPA or the Administrator of the U.S. EPA determines that the federally applicable requirements in this permit are based on a material mistake, or that inaccurate statements were made in establishing the emissions standards or other terms and conditions of this permit related to such federally applicable requirements.
- d. The Administrator of the U.S. EPA or the Director of the Ohio EPA determines that this permit must be revised or revoked to assure compliance with the applicable requirements.

(Authority for term: OAC rules 3745-77-07(A)(12) and 3745-77-08(D))

11. 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.

(Authority for term: OAC rule 3745-77-07(B))

12. Compliance Requirements

- a. Any document (including reports) required to be submitted and required by a federally applicable requirement in this Title V 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 paragraph (E) of OAC rule 3745-77-03.

- 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.
- d. Compliance certifications concerning the terms and conditions contained in this permit that are federally enforceable emission limitations, standards, or work practices, shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) and the Administrator of the U.S. EPA in the following manner and with the following content:
 - i. Compliance certifications shall be submitted annually on a calendar year basis. The annual certification shall be submitted (i.e., postmarked) on or before April 30th of each year during the permit term.
 - ii. Compliance certifications shall include the following:
 - (a) An identification of each term or condition of this permit that is the basis of the certification.
 - (b) The permittee's current compliance status.
 - (c) Whether compliance was continuous or intermittent.
 - (d) The method(s) used for determining the compliance status of the source currently and over the required reporting period.
 - (e) Such other facts as the Director of the Ohio EPA may require in the permit to determine the compliance status of the source.
 - iii. Compliance certifications shall contain such additional requirements as may be specified pursuant to sections 114(a)(3) and 504(b) of the Act.

(Authority for term: OAC rules 3745-77-07(C)(1),(2),(4) and (5) and ORC section 3704.03(L))

13. Permit Shield

- a. Compliance with the terms and conditions of this permit (including terms and conditions established for alternate operating scenarios, emissions trading, and emissions averaging, but excluding terms and conditions for which the permit shield is expressly prohibited under OAC rule 3745-77-07) shall be deemed compliance with the applicable requirements identified and addressed in this permit as of the date of permit issuance.
- b. This permit shield provision shall apply to any requirement identified in this permit pursuant to OAC rule 3745-77-07(F)(2), as a requirement that does not apply to the source or to one or more emissions units within the source.

(Authority for term: OAC rule 3745-77-07(F))

14. Operational Flexibility

The permittee is authorized to make the changes identified in OAC rule 3745-77-07(H)(1)(a) to (H)(1)(c) within the permitted stationary source without obtaining a permit revision, if such change is not a modification under any provision of Title I of the Act [as defined in OAC rule 3745-77-01(JJ)], and does not result in an exceedance of the emissions allowed under this permit (whether expressed therein as a rate of emissions or in terms of total emissions), and the permittee provides

the Administrator of the U.S. EPA and the appropriate Ohio EPA District Office or local air agency with written notification within a minimum of seven days in advance of the proposed changes, unless the change is associated with, or in response to, emergency conditions. If less than seven days notice is provided because of a need to respond more quickly to such emergency conditions, the permittee shall provide notice to the Administrator of the U.S. EPA and the appropriate District Office of the Ohio EPA or local air agency as soon as possible after learning of the need to make the change. The notification shall contain the items required under OAC rule 3745-77-07(H)(2)(d).

(Authority for term: OAC rules 3745-77-07(H)(1) and (2))

15. Emergencies

The permittee shall have an affirmative defense of emergency to an action brought for noncompliance with technology-based emission limitations if the conditions of OAC rule 3745-77-07(G)(3) are met. This emergency defense provision is in addition to any emergency or upset provision contained in any applicable requirement.

(Authority for term: OAC rule 3745-77-07(G))

16. Off-Permit Changes

The owner or operator of a Title V source may make any change in its operations or emissions at the source that is not specifically addressed or prohibited in the Title V permit, without obtaining an amendment or modification of the permit, provided that the following conditions are met:

- a. The change does not result in conditions that violate any applicable requirements or that violate any existing federally enforceable permit term or condition.
- b. The permittee provides contemporaneous written notice of the change to the Director and the Administrator of the U.S. EPA, except that no such notice shall be required for changes that qualify as insignificant emissions levels or activities as defined in OAC rule 3745-77-01(U). Such written notice shall describe each such change, the date of such change, any change in emissions or pollutants emitted, and any federally applicable requirement that would apply as a result of the change.
- c. The change shall not qualify for the permit shield under OAC rule 3745-77-07(F).
- d. The permittee shall keep a record describing all changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those changes.
- e. The change is not subject to any applicable requirement under Title IV of the Act or is not a modification under any provision of Title I of the Act.

Paragraph (I) of rule 3745-77-07 of the Administrative Code applies only to modification or amendment of the permittee's Title V permit. The change made may require a permit to install under Chapter 3745-31 of the Administrative Code if the change constitutes a modification as defined in that Chapter. Nothing in paragraph (I) of rule 3745-77-07 of the Administrative Code shall affect any applicable obligation under Chapter 3745-31 of the Administrative Code.

(Authority for term: OAC rule 3745-77-07(I))

17. Compliance Method Requirements

Nothing in this permit shall alter or affect the ability of any person to establish compliance with, or a violation of, any applicable requirement through the use of credible evidence to the extent authorized by law. Nothing in this permit shall be construed to waive any defenses otherwise available to the permittee, including but not limited to, any challenge to the Credible Evidence Rule (see 62 Fed. Reg. 8314, Feb. 24, 1997), in the context of any future proceeding.

(This term is provided for informational purposes only.)

18. Insignificant Activities or Emissions Levels

Each IEU that has one or more applicable requirements shall comply with those applicable requirements.

(Authority for term: OAC rule 3745-77-07(A)(1))

19. Permit to Install Requirement

Prior to the "installation" or "modification" of any "air contaminant source," as those terms are defined in OAC rule 3745-31-01, a permit to install must be obtained from the Ohio EPA pursuant to OAC Chapter 3745-31.

(Authority for term: OAC rule 3745-77-07(A)(1))

20. 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.

(Authority for term: OAC rule 3745-77-07(A)(1))

21. Permanent Shutdown of an Emissions Unit

The permittee may notify Ohio EPA of any emissions unit that is permanently shut down by submitting a certification from the responsible official that identifies the date on which the emissions unit was permanently shut down. Authorization to operate the affected emissions unit shall cease upon the date certified by the responsible official that the emissions unit was permanently shut down.

After the date on which an emissions unit is permanently shut down (i.e., that has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent “modification” or “installation” as defined in OAC Chapter 3745-31 and therefore ceases to meet the definition of an “emissions unit” as defined in OAC rule 3745-77-01(O)), rendering existing permit terms and conditions irrelevant, the permittee shall not be required, after the date of the certification and submission to Ohio EPA, to meet any Title V permit requirements applicable to that emissions unit, except for any residual requirements, such as the quarterly deviation reports, semi-annual deviation reports and annual compliance certification covering the period during which the emissions unit last operated. All records relating to the shutdown emissions unit, generated while the emissions unit was in operation, must be maintained in accordance with law.

No emissions unit certified by the responsible official as being permanently shut down may resume operation without first applying for and obtaining a permit to install pursuant to OAC Chapter 3745-31.

(Authority for term: OAC rule 3745-77-01)

22. Title VI Provisions

If applicable, the permittee shall comply with the standards for recycling and reducing emissions of ozone depleting substances pursuant to 40 CFR Part 82, Subpart F, except as provided for motor vehicle air conditioners in Subpart B of 40 CFR Part 82:

- a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices specified in 40 CFR 82.156.
- b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment specified in 40 CFR 82.158.
- c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

(Authority for term: OAC rule 3745-77-01(H)(11))

B. State Only Enforceable Section

1. Reporting Requirements Related to Monitoring and Record Keeping Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or record keeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (i) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and record keeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) 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. In identifying each deviation, the permittee shall specify the applicable requirement for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation. 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 (i.e., postmarked) quarterly, 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.)

2. Records Retention Requirements

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

3. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

4. Scheduled Maintenance/Malfunction Reporting

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

5. 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.

6. 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 emission limitation (or control requirement), operational restriction and/or control device parameter limitation 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 (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

The permittee is not required to submit a quarterly report which states that no deviations occurred during that quarter for the following situations:

- a. where an emissions unit has deviation reporting requirements for a specific emission limitation, operational restriction, or control device parameter limitation that override the deviation reporting requirements specified in General Term and Condition A.1.c.ii; or
- b. where an uncontrolled emissions unit has no monitoring, record keeping, or reporting requirements and the emissions unit's applicable emission limitations are established at the potentials to emit; or
- c. where the company's responsible official has certified that an emissions unit has been permanently shut down.

Part II - Specific Facility Terms and Conditions

A. State and Federally Enforceable Section

1. The following insignificant emissions unit is located at this facility:

T001 - Storage Tank (TDI) - 10,000 gallons (PTI 03-11220)
T002 - Storage Tank (MDI) - 10,000 gallons (PTI 03-11220)
T003 - Storage Tank (Polyol) - 10,000 gallons (PTI 03-11220)
T004 - Storage Tank (Co-Polyol) - 10,000 gallons (PTI 03-11220)
Z005 - Air Make-Up Unit.

Each insignificant emissions unit at this facility must comply with all applicable State and federal regulations, and well as any emission limitations and/or control requirements contained within the identified permit to install for the emissions unit. Insignificant emissions units listed above that are not subject to specific permit to install requirements are subject to one or more of the applicable requirements contained in the federally-approved versions of OAC Chapters 3745-17, 3745-18, and/or 3745-21.

[Authority for term: OAC rule 3745-77-07(A)(13)]

The following insignificant emissions unit is located at this facility:

Z005 - Air Make-Up Unit.

Each insignificant emissions unit at this facility must comply with all applicable State and federal regulations, and well as any emission limitations and/or control requirements contained within the identified permit to install for the emissions unit. Insignificant emissions units listed above that are not subject to specific permit to install requirements are subject to one or more of the applicable requirements contained in the federally-approved versions of OAC Chapters 3745-17, 3745-18, and/or 3745-21.

[Authority for term: OAC rule 3745-77-07(A)(13)]

A. State and Federally Enforceable Section (continued)

2. The following summarizes the permittee's requirements under 40 CFR 63 Subpart A (General Provisions), with regard to emissions units P005 and P006 and 40 CFR 63.1290 et seq. (MACT Subpart III):

Subpart III, Table 2:

Applicability of General Provisions (40 CFR Part 63, Subpart A) to Subpart III:

Subpart A reference: Sec. 63.1 Applies to subpart III: YES

Comment: Except that Sec. 63.1(c)(2) is not applicable to the extent area sources are not subject to subpart III.

Subpart A reference: Sec. 63.2 Applies to subpart III: YES

Comment: Definitions are modified and supplemented by Sec. 63.1292.

Subpart A reference: Sec. 63.3 Applies to subpart III: YES

Subpart A reference: Sec. 63.4 Applies to subpart III: YES

Subpart A reference: Sec. 63.5 Applies to subpart III: YES

Subpart A reference: Sec. 63.6 (a) - (d) Applies to subpart III: YES

Subpart A reference: Sec. 63.6 (e) (1) - (2) Applies to subpart III: YES

Subpart A reference: Sec. 63.6 (e)(3) Applies to subpart III: NO

Comment: Owners and operators of subpart III affected sources are not required to develop and implement a startup, shutdown, and malfunction plan.

Subpart A reference: Sec. 63.6 (f) - (g) Applies to subpart III: YES

Subpart A reference: Sec. 63.6 (h) Applies to subpart III: NO

Comment: Subpart III does not require opacity and visible emission standards.

Subpart A reference: Sec. 63.6 (i) - (j) Applies to subpart III: YES

Subpart A reference: Sec. 63.7 Applies to subpart III: NO

Comment: Subpart III does not require opacity and visible emission standards.

Subpart A reference: Sec. 63.8 Applies to subpart III: NO

Comment: Continuous monitoring, as defined in subpart A, is not required by subpart III.

Subpart A reference: Sec. 63.9 (a) - (d) Applies to subpart III: YES

Subpart A reference: Sec. 63.9 (e) - (g) Applies to subpart III: NO

A. State and Federally Enforceable Section (continued)

Subpart A reference: Sec. 63.9 (h) Applies to subpart III: NO
Comment: Subpart III specifies Notification of Compliance Status requirements.

Subpart A reference: Sec. 63.9 (i) - (j) Applies to subpart III: YES

Subpart A reference: Sec. 63.10 (a) - (b) Applies to subpart III: YES
Comment: Except that the records specified in Sec. 63.10(b)(2)(vi) through (xi) and (xiii) are not required.

Subpart A reference: Sec. 63.10 (c) Applies to subpart III: NO

Subpart A reference: Sec. 63.10 (d)(1) Applies to subpart III: YES

Subpart A reference: Sec. 63.10 (d) (2) - (3) Applies to subpart III: NO

Subpart A reference: Sec. 63.10 (d) (4) - (5) Applies to subpart III: YES

Subpart A reference: Sec. 63.10 (e) Applies to subpart III: NO

Subpart A reference: Sec. 63.10 (f) Applies to subpart III: YES

Subpart A reference: Sec. 63.11 Applies to subpart III: YES

Subpart A reference: Sec. 63.12 Applies to subpart III: YES

Subpart A reference: Sec. 63.13 Applies to subpart III: YES

Subpart A reference: Sec. 63.14 Applies to subpart III: YES

Subpart A reference: Sec. 63.15 Applies to subpart III: YES

A. State and Federally Enforceable Section (continued)

The following summarizes the permittee's requirements under 40 CFR 63 Subpart A (General Provisions), with regard to emissions units P005 and P006 and 40 CFR 63.1290 et seq. (MACT Subpart III):

Subpart III, Table 2:

Applicability of General Provisions (40 CFR Part 63, Subpart A) to Subpart III:

Subpart A reference: Sec. 63.1 Applies to subpart III: YES

Comment: Except that Sec. 63.1(c)(2) is not applicable to the extent area sources are not subject to subpart III.

Subpart A reference: Sec. 63.2 Applies to subpart III: YES

Comment: Definitions are modified and supplemented by Sec. 63.1292.

Subpart A reference: Sec. 63.3 Applies to subpart III: YES

Subpart A reference: Sec. 63.4 Applies to subpart III: YES

Subpart A reference: Sec. 63.5 Applies to subpart III: YES

Subpart A reference: Sec. 63.6 (a) - (d) Applies to subpart III: YES

Subpart A reference: Sec. 63.6 (e) (1) - (2) Applies to subpart III: YES

Subpart A reference: Sec. 63.6 (e)(3) Applies to subpart III: NO

Comment: Owners and operators of subpart III affected sources are not required to develop and implement a startup, shutdown, and malfunction plan.

Subpart A reference: Sec. 63.6 (f) - (g) Applies to subpart III: YES

Subpart A reference: Sec. 63.6 (h) Applies to subpart III: NO

Comment: Subpart III does not require opacity and visible emission standards.

Subpart A reference: Sec. 63.6 (i) - (j) Applies to subpart III: YES

Subpart A reference: Sec. 63.7 Applies to subpart III: NO

Comment: Subpart III does not require opacity and visible emission standards.

Subpart A reference: Sec. 63.8 Applies to subpart III: NO

Comment: Continuous monitoring, as defined in subpart A, is not required by subpart III.

Subpart A reference: Sec. 63.9 (a) - (d) Applies to subpart III: YES

Subpart A reference: Sec. 63.9 (e) - (g) Applies to subpart III: NO

A. State and Federally Enforceable Section (continued)

Subpart A reference: Sec. 63.9 (h) Applies to subpart III: NO
Comment: Subpart III specifies Notification of Compliance Status requirements.

Subpart A reference: Sec. 63.9 (i) - (j) Applies to subpart III: YES

Subpart A reference: Sec. 63-10 (a) - (b) Applies to subpart III: YES
Comment: Except that the records specified in Sec. 63.10(b)(2)(vi) through (xi) and (xiii) are not required.

Subpart A reference: Sec. 63.10 (c) Applies to subpart III: NO

Subpart A reference: Sec. 63.10 (d)(1) Applies to subpart III: YES

Subpart A reference: Sec. 63.10 (d) (2) - (3) Applies to subpart III: NO

Subpart A reference: Sec. 63.10 (d) (4) - (5) Applies to subpart III: YES

Subpart A reference: Sec. 63.10 (e) Applies to subpart III: NO

Subpart A reference: Sec. 63.10 (f) Applies to subpart III: YES

Subpart A reference: Sec. 63.11 Applies to subpart III: YES

Subpart A reference: Sec. 63.12 Applies to subpart III: YES

Subpart A reference: Sec. 63.13 Applies to subpart III: YES

Subpart A reference: Sec. 63.14 Applies to subpart III: YES

Subpart A reference: Sec. 63.15 Applies to subpart III: YES

B. State Only Enforceable Section

1. The following insignificant emissions units located at this facility are exempt from permit requirements because they are not subject to any applicable requirement (as defined in OAC rule 3745-77-01(H)) or because they meet the "de minimis" criteria established in OAC rule 3745-15-05:

Z001 - Mold Release Bake Ovens;
Z002 - Offline Finishing;
Z003 - Line #1, EA Pad; and
Z004 - Line #2, EA Pad.

The following insignificant emissions units located at this facility are exempt from permit requirements because they are not subject to any applicable requirement (as defined in OAC rule 3745-77-01(H)) or because they meet the "de minimis" criteria established in OAC rule 3745-15-05:

Z001 - Mold Release Bake Ovens;
Z002 - Offline Finishing;
Z003 - Line #1, EA Pad; and
Z004 - Line #2, EA Pad.

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Line #2 (P005)

Activity Description: Mold Release, Pouring, Scraping/Demolding, and Cure Oven - Line #2

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
polyurethane foam seat line 2 - mixing, mold waxing, pouring with cure oven, demold, crushing and post-cure oven operation	OAC rule 3745-31-05(A)(3) (PTI 03-13782, issued April 6, 2004)	See requirements for mold waxing, pouring with cure oven, and post-cure oven below.
mold waxing	OAC rule 3745-31-05(A)(3) (PTI 03-13782, issued April 6, 2004)	13.15 lbs organic compounds (OC)/hr; 57.60 tons OC/year 0.05 lb particulate emissions (PE)/hr; 0.22 ton PE/year Visible PE shall not exceed 0% opacity, as a six-minute average. See section A.I.2.a.
	OAC rule 3745-17-11(B)	See section A.I.2.c.
	OAC rule 3745-17-07(A)	See section A.I.2.d.
	OAC rule 3745-21-07(G)(2)	None, see section A.II.1.
pouring with cure oven	OAC rule 3745-31-05(A)(3) (PTI 03-13782, issued April 6, 2004)	1.54 lbs OC/hr; 6.75 tons OC/year, from pouring only (See section A.I.2.k.) 1.34 lbs nitrogen oxides (NOx)/hr; 5.87 tons NOx/year The requirements of this rule also include compliance with the requirements of OAC rules 3745-21-07(G), 3745-23-06(B) and 3745-21-08(B).

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
post-cure oven	OAC rule 3745-21-07(G)(1)	3 lbs OC /hr, 15 lbs OC /day (See section A.I.2.k.)
	OAC rule 3745-21-07(G)(2)	None, see section A.II.1.
	OAC rule 3745-23-06(B) OAC rule 3745-21-08(B)	See section A.I.2.e.
	OAC rule 3745-17-11(B)	See section A.I.2.f.
	OAC rule 3745-17-07(A)	See section A.I.2.g.
	OAC rule 3745-18-06(E)	See section A.I.2.h.
	OAC rule 3745-31-05(A)(3) (PTI 03-13782, issued April 6, 2004)	0.40 lb NOx/hr; 1.75 tons NOx /year (for emissions units P005 and P006, combined) (See section A.I.2.b.)
		See section A.I.2.j.
	OAC rule 3745-21-07(G)(1)	See section A.I.2.i.
	OAC rule 3745-23-06(B)	See section A.I.2.e.
	OAC rule 3745-21-08(B)	See section A.I.2.e.
	OAC rule 3745-17-10(B)	0.020 lb PE/mmBtu of actual heat input
	OAC rule 3745-17-07(A)	Visible PE shall not exceed 20% opacity, as a six-minute average, except as provided by rule.
	40 CFR Part 63.1290 et seq. (MACT Subpart III)	formulation prohibitions, work practice standards, for hazardous air pollutants (HAPs) (See sections A.II.4 and A.II.5)

2. Additional Terms and Conditions

- 2.a** Best available technology (BAT) for the mold waxing associated with this emissions unit has been determined to be the use of a carbon mat filter for controlling PE.
- 2.b** The permittee has requested combined NOx emission limitations for the post-cure oven associated with emissions units P005 and P006 because both emissions units share this oven.
- 2.c** 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.d** The visible particulate emission limitation specified by this rule is less stringent than the visible particulate emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
- 2.e** The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06 (B) and the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05 (A)(3) in Permit to Install 03-13782.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

2. Additional Terms and Conditions (continued)

2.f The uncontrolled mass rate of particulate emissions* from pouring with cure oven operations associated with this emissions unit is less than 10 pounds/hour. Therefore, pursuant to OAC rule 3745-17-11 (A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight rate is equal to zero. "Process weight" is defined in OAC rule 3745-17-01(B)(14).

* The burning of natural gas is the only source of PE from pouring with cure oven operations.

2.g The pouring with cure oven operations associated with this emissions unit is exempt from the visible PE limitation specified in OAC rule 3745-17-07(A), pursuant to OAC rule 3745-17-07(A)(3)(h), because pouring with cure oven operations is not subject to the requirements of OAC rule 3745-17-11.

2.h The process weight rate for the pouring with cure oven operation associated with this emissions unit is less than 1000 pounds per hour. Therefore, pursuant to OAC rule 3745-18-06(C), the pouring with cure oven operation is exempt from OAC rule 3745-18-06(E).

2.i OAC rule 3745-21-07(G)(1) is not applicable to the post-cure oven operations associated with this emissions unit because no liquid organic material is employed in this emissions unit.

2.j The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-10(B), 3745-23-06(B) and 3745-21-08(B) and 40 CFR 63.1290 et seq.

2.k The OC emission limitations established per OAC rule 3745-31-05(A)(3) for the 'pouring with cure oven' section of the operations are for pouring only; i.e., the emissions from the closed molds associated with the cure oven subject to OAC rule 3745-21-07(G)(1) are assumed to be negligible.

2.l OAC Chapter 3745-18 does not establish sulfur dioxide emission limitation for the post-cure oven operations associated with this emissions unit because it employs only natural gas as fuel.

2.m The 13.15 lbs OC/hr and 1.54 lbs OC/hr emission limitations were established for PTI purposes to reflect the potentials to emit for this emissions unit. Therefore, it is not necessary to develop any additional monitoring, record keeping or reporting requirements to ensure compliance with these emission limitations.

II. Operational Restrictions

1. The permittee shall not employ any liquid organic material that is a photochemically reactive material in this emissions unit. "Photochemically reactive material" is defined in OAC rule 3745-21-01(C)(5).

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(A)(1)]

2. The permittee shall operate the carbon mat filter whenever this emissions unit is in operation.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(A)(1)]

3. The permittee shall burn only natural gas as fuel in this emissions unit.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(A)(1)]

4. A HAP or HAP-based material shall not be used as an equipment cleaner to flush the mixhead, nor shall it be used elsewhere as an equipment cleaner in a molded flexible polyurethane foam process, with the following exception: Diisocyanates may be used to flush the mixhead and associated piping during periods of startup or maintenance, provided that the diisocyanate compounds are contained in a closed-loop system and are re-used in production.

[Authority for term: 40 CFR 63.1300(a)]

5. A HAP-based mold release agent shall not be used in a molded flexible polyurethane foam source process.

[Authority for term: 40 CFR 63.1300(a)]

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain daily records that document any time periods when the carbon mat filter was not in service when the emissions unit was in operation.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

2. 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.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

3. The permittee shall collect and record the following information each month for the mold waxing material used in this emissions unit:

- a. the company identification for each mold waxing material employed;
- b. documentation on whether or not each mold waxing material employed is a photochemically reactive material;
- c. the number of pounds of each mold waxing material employed;
- d. the OC content, in weight percent, for each mold waxing material, as applied;
- e. the OC emission rate for each mold waxing material employed (c x d), in pounds;
- f. the total OC emission rate for all the mold waxing materials employed, in tons (sum of 'e' for all mold waxing materials x 1 ton /2000 lbs); and
- g. the annual, year-to-date OC emissions for all the mold waxing materials employed, in tons (sum of 'f' for each calendar month to date from January to December).

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

III. Monitoring and/or Record Keeping Requirements (continued)

4. The permittee shall collect and record the following information each month for the pouring operations associated with this emissions unit:
- the company identification for each pouring material and pouring catalyst employed;
 - documentation on whether or not each pouring material and pouring catalyst is a photochemically reactive material;
 - the number of pounds of each pouring catalyst employed;
 - the OC content, in weight percent, for each pouring catalyst, as employed;
 - the OC emission rate for each pouring catalyst employed (c x d), in pounds;
 - the total OC emission rate for all the pouring catalysts employed, in tons (sum of 'e' for all pouring catalysts x 1 ton /2000 lbs);
 - the OC content for each pouring material, as applied, in lbs/gallon;
 - the number of gallons of each pouring material employed;
 - the OC emission rate for each pouring material employed (g x h), in pounds ;
 - the total OC emission rate for all the pouring materials employed, in tons (sum of 'i' for all pouring materials x 1 ton /2000 lbs);
 - the annual, year-to-date OC emissions for all the pouring catalysts and pouring materials employed, in tons/year (sums of 'f' and 'j' for each calendar month to date from January to December).

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

5. The permittee of an emissions unit subject to Section 63.1300 or Section 63.1301 of Subpart III shall maintain a product data sheet for each compound other than diisocyanates used to flush the mixhead and associated piping during periods of startup or maintenance, which includes the HAP content, in kg of HAP/kg solids (lb HAP/lb solids), of each solvent other than diisocyanates used to flush the mixhead and associated piping during periods of startup or maintenance.

[Authority for term: 40 CFR 63.1307(g) and OAC rule 3745-77-07(A)(1)]

6. The permittee of an emissions unit subject to Section 63.1300 or Section 63.1301 of Subpart III shall maintain a product data sheet for each mold release agent used that includes the HAP content, in kg of HAP/kg solids (lb HAP/lb solids), of each mold release agent.

[Authority for term: 40 CFR 63.1307(h) and OAC rule 3745-77-07(A)(1)]

7. The permittee shall perform daily checks, when the mold waxing is in operation and when the weather conditions allow, for any visible particulate emissions from the stack(s) serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
- the date and time of the visible emission observation;
 - the identification of the stack(s) observed;
 - the color of the emissions;
 - the total duration of any visible emission observation; and
 - the corrective actions, if any, taken to eliminate the visible emissions.

[Authority for term: OAC rule 3745-77-07(C)(1)]

IV. Reporting Requirements

1. The permittee shall notify the Director (Ohio EPA, Northwest District Office) in writing of any daily record showing that the carbon mat filter 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 (Ohio EPA, Northwest District Office) within 30 days after the event occurs.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

2. The permittee shall notify the Director (Ohio EPA, Northwest District Office) in writing of any monthly record showing the use of photochemically reactive material in this emissions unit. The notification shall include a copy of such record and shall be sent to the Director (Ohio EPA, Northwest District Office) within 30 days following the end of the calendar month.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

3. The permittee shall submit annual reports that summarize the actual annual OC emissions for the mold waxing and for the pouring operations associated with this emissions unit. These reports shall be submitted by January 31 of each year and shall cover the previous calendar year.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

4. 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 30 days after the deviation occurs.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

5. In accordance with 40 CFR 63.1306(g), the permittee shall include the following in its annual compliance certification (see the General Terms and Conditions of this permit):

- a. each calendar day that a HAP-based material is used as an equipment cleaner (except for diisocyanates used in accordance with section A.II.4); and

- b. each calendar day that a HAP-based material is used as a mold release agent.

Failure to meet the requirements contained in sections A.II.4 and 5 shall be considered a violation of this permit. Violation of each item listed in 'a' and 'b' above shall be considered a separate violation.

[Authority for term: 40 CFR 63.1308(e) and 3745-77-07(C)(1)]

6. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack(s) serving this emissions unit and (b) describe the corrective actions, if any, taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Ohio EPA, Northwest District Office) by January 31 and July 31 of each year and shall cover the previous 6-month period.

[Authority for term: OAC rule 3745-77-07(C)(1)]

V. Testing Requirements

1. Compliance with the emission limitations in Section A.I of the terms and conditions of this permit shall be determined in accordance with the following methods:

V. Testing Requirements (continued)

1.a Emission Limitation:
13.15 lbs OC/hour, for mold waxing

Applicable Compliance Method:

The hourly OC emission limitation was established based on multiplying the maximum hourly gallon usage rate (2.12 gallons/hr) by the maximum OC content of the wax (6.20 lbs/gallon).

If required, the permittee shall demonstrate compliance with the hourly limitation by testing in accordance with US EPA Methods 1-4 and 18, 25, or 25A, as appropriate, of 40 CFR Part 60, Appendix A.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

1.b Emission Limitation:
57.60 tons OC/year, for mold waxing

Applicable Compliance Method:

Compliance with the annual allowable OC emission limitation above shall be determined based on the record keeping requirements established in section A.III.3 of this permit.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

1.c Emission Limitation:
0.05 lb PE/hour, for mold waxing

Applicable Compliance Method:

The permittee may determine compliance with the hourly PE limitation by utilizing the following equation:

$E \text{ (lbs/hr)} = (\text{maximum coating solids content, in lbs/gallon}) \times (\text{maximum coating usage rate, in gallons/hr}) \times (1 - \text{CE for carbon mat filter})$

where:

E = PE rate, in lbs/hr

Maximum coating solids content = 0.23 lb/gallon

Maximum gallon usage rate = 2.0 gallons/hr

CE = control efficiency of the control equipment (assumed to be 90% for carbon mat filter)

If required, the permittee shall demonstrate compliance with the hourly PE limitation by testing in accordance with US EPA Methods 1-5 of 40 CFR Part 60, Appendix A.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

1.d Emission Limitation:
0.22 ton PE/year, for mold waxing

Applicable Compliance Method:

The annual emission limitation was developed by multiplying the hourly limitation by the maximum operating schedule of 8760 hrs/yr, and then dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual limitation.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

V. Testing Requirements (continued)

- 1.e** Emission Limitation:
Visible PE shall not exceed 0% opacity, as a six-minute average, for the waxing operations

Applicable Compliance Method:

If required, compliance shall be demonstrated through visible emissions observations performed in accordance with Method 9 of 40 CFR Part 60, Appendix A.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

- 1.f** Emission Limitation:
1.54 lb OC/hour, for pouring with cure oven operations

Applicable Compliance Method:

The hourly OC emission limitation was established based on the following:

$E \text{ (lbs/hr)} = [(\text{maximum pound usage rate for catalyst}) \times (\text{maximum OC content, weight percent, for catalyst}) \times (\text{percent of catalyst retained in foam})] + [(\text{maximum gallon usage rate for TDI}) \times (\text{maximum emission factor for TDI})] + [(\text{maximum gallon usage rate for mesamoll}) \times (\text{maximum OC content for Mesamoll, lbs/gallon})]$

where:

E = OC rate, in lbs/hr

maximum pound usage rate for catalyst = 30.10 lbs/hr

maximum percent weight OC for catalyst = 0.065%

percent of catalyst retained in foam = 98%

maximum gallon usage rate for TDI = 22 gallons/hr

maximum emission factor for TDI = 0.068 lb OC/gallon

maximum gallon usage rate for mesamoll = 0.30 gallon/hr

maximum OC content for mesamoll = 0.011 lb OC/gal

If required, the permittee shall demonstrate compliance with the hourly OC limitation by testing in accordance with US EPA Methods 1-4 and 18, 25, or 25A, as appropriate of 40 CFR Part 60, Appendix A.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

- 1.g** Emission Limitation:
6.75 tons OC/year, for pouring with cure oven operations

Applicable Compliance Method:

Compliance with the annual allowable OC emission limitation above shall be determined based on the record keeping requirements established in section A.III.4 of this permit.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

V. Testing Requirements (continued)

- 1.h** Emission Limitation:
1.34 lbs NO_x /hour, for pouring with cure oven operations

Applicable Compliance Method:

The permittee may demonstrate compliance with the hourly allowable NO_x emission limitation by multiplying an emission factor of 100 lbs NO_x/mm cu. ft [AP-42, Chapter 1, Table 1.4-1 (revised 7/98)] by the maximum natural gas usage rate for the cure oven (mm cu. ft/hr).

If required, compliance with the hourly allowable NO_x emission limitation shall be determined in accordance with Methods 1-4 and 7 of 40 CFR Part 60, Appendix A.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

- 1.i** Emission Limitation:
5.87 tons NO_x/year, for pouring with cure oven operations

Applicable Compliance Method:

The annual limitation was developed by multiplying the hourly limitation by the maximum operating schedule of 8760 hrs/yr, and then dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual limitation.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

- 1.j** Emission Limitations:
0.40 lb NO_x/hour and 1.75 tons NO_x/year, for post-cure oven
(for emissions units P005 and P006, combined)

Applicable Compliance Method

The permittee may demonstrate compliance with the hourly allowable NO_x emission limitation by multiplying an emission factor of 100 lbs NO_x/mm cu. ft [AP-42, Chapter 1, Table 1.4-1 (revised 7/98)] by the maximum natural gas usage rate for the post-cure oven (mm cu. ft/hr)

If required, compliance with the hourly allowable NO_x emission limitation shall be determined in accordance with Methods 1-4 and 7 of 40 CFR Part 60, Appendix A, while emissions units P005 and P006 are in operation.

The annual limitation was developed by multiplying the hourly limitation by the maximum operating schedule of 8760 hrs/yr, and then dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual limitation.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

- 1.k** Emission Limitation:
0.020 lb PE/mmBtu of actual heat input

Applicable Compliance Method:

The permittee may demonstrate compliance with the lb PE /mmBtu limitation by dividing the emission factor, from AP-42, Table 1.4-2 (revised 7/98), of 1.9 lbs PE (filterable)/mm cu. ft by the heat content for natural gas (950 Btu/cu. ft).

If required, compliance with the lb PE /mmBtu limitation shall be determined in accordance with the methods specified in OAC rule 3745-17-03 (B)(9).

[Authority for term: OAC rules 3745-31-05(A)(3), 3745-17-03(B)(9), and 3745-77-07(C)(1)]

V. Testing Requirements (continued)

- 1.l** Emission Limitation:
Visible PE shall not exceed 20% opacity, as a six-minute average, for the post-cure oven

Applicable Compliance Method:

If required, compliance shall be demonstrated through visible emissions observations performed in accordance with OAC rule 3745-17-03(B)(1).

[Authority for term: OAC rules 3745-31-05(A)(3), 3745-17-03(B)(1), and 3745-77-07(C)(1)]

- 1.m** Emission Limitations:
3 lbs OC/hour and 15 lbs OC/day, for the pouring cure oven

Applicable Compliance Method:

Compliance with the hourly and daily OC emission limitations is assumed since the OC emissions from the closed molds associated with the cure oven are negligible.

If required, the permittee shall demonstrate compliance with the hourly OC limitation by testing in accordance with US EPA Methods 1-4 and 18, 25, or 25A, as appropriate of 40 CFR Part 60, Appendix A.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

- 2.** Formulation data or USEPA Method 24 shall be used to determine the OC contents of all materials employed.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Line #1 (P006)

Activity Description: Mold Release, Pouring, Scraping/Demolding, Cure Oven, and Post Cure Oven - Line #1

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
polyurethane foam seat line 1 - mixing, mold waxing, pouring with cure oven, demold, crushing and post-cure oven operation	OAC rule 3745-31-05(A)(3) (PTI 03-13782, issued April 6, 2004)	See requirements for mold waxing, pouring with cure oven, and post-cure oven below.
mold waxing	OAC rule 3745-31-05(A)(3) (PTI 03-13782, issued April 6, 2004)	13.15 lbs organic compounds (OC)/hr; 57.60 tons OC/year 0.05 lb particulate emissions (PE)/hr; 0.22 ton PE/year Visible PE shall not exceed 0% opacity, as a six-minute average. See section A.I.2.a.
	OAC rule 3745-17-11(B)	See section A.I.2.c.
	OAC rule 3745-17-07(A)	See section A.I.2.d.
	OAC rule 3745-21-07(G)(2)	None, see section A.II.1.
pouring with cure oven	OAC rule 3745-31-05(A)(3) (PTI 03-13782, issued April 6, 2004)	1.54 lbs OC/hr; 6.75 tons OC/year, from pouring only (See section A.I.2.k.) 1.34 lbs nitrogen oxides (NOx)/hr; 5.87 tons NOx/year The requirements of this rule also include compliance with the requirements of OAC rules 3745-21-07(G), 3745-23-06(B) and 3745-21-08(B).

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
post-cure oven	OAC rule 3745-21-07(G)(1)	3 lbs OC /hr, 15 lbs OC /day (See section A.I.2.k.)
	OAC rule 3745-21-07(G)(2)	None, see section A.II.1.
	OAC rule 3745-23-06(B)	See section A.I.2.e.
	OAC rule 3745-21-08(B)	See section A.I.2.f.
	OAC rule 3745-17-11(B)	See section A.I.2.g.
	OAC rule 3745-18-06(E)	See section A.I.2.h.
	OAC rule 3745-31-05(A)(3) (PTI 03-13782, issued April 6, 2004)	0.40 lb NOx/hr; 1.75 tons NOx /year (for emissions units P005 and P006, combined) (See section A.I.2.b.)
	OAC rule 3745-21-07(G)(1)	See section A.I.2.j.
	OAC rule 3745-23-06(B)	See section A.I.2.i.
	OAC rule 3745-21-08(B)	See section A.I.2.e.
	OAC rule 3745-17-10(B)	See section A.I.2.e. 0.020 lb PE/mmBtu of actual heat input
	OAC rule 3745-17-07(A)	Visible PE shall not exceed 20% opacity, as a six-minute average, except as provided by rule.
	40 CFR Part 63.1290 et seq. (MACT Subpart III)	formulation prohibitions, work practice standards, for hazardous air pollutants (HAPs) (See sections A.II.4 and A.II.5)

2. Additional Terms and Conditions

- 2.a** Best available technology (BAT) for the mold waxing associated with this emissions unit has been determined to be the use of a carbon mat filter for controlling PE.
- 2.b** The permittee has requested combined NOx emission limitations for the post-cure oven associated with emissions units P005 and P006 because both emissions units share this oven.
- 2.c** 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.d** The visible particulate emission limitation specified by this rule is less stringent than the visible particulate emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
- 2.e** The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06 (B) and the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05 (A)(3) in Permit to Install 03-13782.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

2. Additional Terms and Conditions (continued)

- 2.f** The uncontrolled mass rate of particulate emissions* from pouring with cure oven operations associated with this emissions unit is less than 10 pounds/hour. Therefore, pursuant to OAC rule 3745-17-11 (A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight rate is equal to zero. "Process weight" is defined in OAC rule 3745-17-01(B)(14).
- * The burning of natural gas is the only source of PE from pouring with cure oven operations.
- 2.g** The pouring with cure oven operations associated with this emissions unit is exempt from the visible PE limitation specified in OAC rule 3745-17-07(A), pursuant to OAC rule 3745-17-07(A)(3)(h), because pouring with cure oven operations is not subject to the requirements of OAC rule 3745-17-11.
- 2.h** The process weight rate for the pouring with cure oven operation associated with this emissions unit is less than 1000 pounds per hour. Therefore, pursuant to OAC rule 3745-18-06(C), the pouring with cure oven operation is exempt from OAC rule 3745-18-06(E).
- 2.i** OAC rule 3745-21-07(G)(1) is not applicable to the post-cure oven operations associated with this emissions unit because no liquid organic material is employed in this emissions unit.
- 2.j** The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-10(B), 3745-23-06(B) and 3745-21-08(B) and 40 CFR 63.1290 et seq.
- 2.k** The OC emission limitations established per OAC rule 3745-31-05(A)(3) for the 'pouring with cure oven' section of the operations are for pouring only; i.e., the emissions from the closed molds associated with the cure oven subject to OAC rule 3745-21-07(G)(1) are assumed to be negligible.
- 2.l** OAC Chapter 3745-18 does not establish sulfur dioxide emission limitation for the post-cure oven operations associated with this emissions unit because it employs only natural gas as fuel.
- 2.m** The 13.15 lbs OC/hr and 1.54 lbs OC/hr emission limitations were established for PTI purposes to reflect the potentials to emit for this emissions unit. Therefore, it is not necessary to develop any additional monitoring, record keeping or reporting requirements to ensure compliance with these emission limitations.

II. Operational Restrictions

1. The permittee shall not employ any liquid organic material that is a photochemically reactive material in this emissions unit. "Photochemically reactive material" is defined in OAC rule 3745-21-01(C)(5).
[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(A)(1)]
2. The permittee shall operate the carbon mat filter whenever this emissions unit is in operation.
[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(A)(1)]
3. The permittee shall burn only natural gas as fuel in this emissions unit.
[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(A)(1)]
4. A HAP or HAP-based material shall not be used as an equipment cleaner to flush the mixhead, nor shall it be used elsewhere as an equipment cleaner in a molded flexible polyurethane foam process, with the following exception: Diisocyanates may be used to flush the mixhead and associated piping during periods of startup or maintenance, provided that the diisocyanate compounds are contained in a closed-loop system and are re-used in production.
[Authority for term: 40 CFR 63.1300(a)]
5. A HAP-based mold release agent shall not be used in a molded flexible polyurethane foam source process.
[Authority for term: 40 CFR 63.1300(a)]

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain daily records that document any time periods when the carbon mat filter was not in service when the emissions unit was in operation.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

2. 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.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

3. The permittee shall collect and record the following information each month for the mold waxing material used in this emissions unit:

- a. the company identification for each mold waxing material employed;
- b. documentation on whether or not each mold waxing material employed is a photochemically reactive material;
- c. the number of pounds of each mold waxing material employed;
- d. the OC content, in weight percent, for each mold waxing material, as applied;
- e. the OC emission rate for each mold waxing material employed (c x d), in pounds;
- f. the total OC emission rate for all the mold waxing materials employed, in tons (sum of 'e' for all mold waxing materials x 1 ton /2000 lbs); and
- g. the annual, year-to-date OC emissions for all the mold waxing materials employed, in tons (sum of 'f' for each calendar month to date from January to December).

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

III. Monitoring and/or Record Keeping Requirements (continued)

4. The permittee shall collect and record the following information each month for the pouring operations associated with this emissions unit:
- a. the company identification for each pouring material and pouring catalyst employed;
 - b. documentation on whether or not each pouring material and pouring catalyst is a photochemically reactive material;
 - c. the number of pounds of each pouring catalyst employed;
 - d. the OC content, in weight percent, for each pouring catalyst, as employed;
 - e. the OC emission rate for each pouring catalyst employed (c x d), in pounds;
 - f. the total OC emission rate for all the pouring catalysts employed, in tons (sum of 'e' for all pouring catalysts x 1 ton /2000 lbs);
 - g. the OC content for each pouring material, as applied, in lbs/gallon;
 - h. the number of gallons of each pouring material employed;
 - i. the OC emission rate for each pouring material employed (g x h), in pounds ;
 - j. the total OC emission rate for all the pouring materials employed, in tons (sum of 'i' for all pouring materials x 1 ton /2000 lbs);
 - k. the annual, year-to-date OC emissions for all the pouring catalysts and pouring materials employed, in tons/year (sums of 'f' and 'j' for each calendar month to date from January to December).

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

5. The permittee of an emissions unit subject to Section 63.1300 or Section 63.1301 of Subpart III shall maintain a product data sheet for each compound other than diisocyanates used to flush the mixhead and associated piping during periods of startup or maintenance, which includes the HAP content, in kg of HAP/kg solids (lb HAP/lb solids), of each solvent other than diisocyanates used to flush the mixhead and associated piping during periods of startup or maintenance.

[Authority for term: 40 CFR 63.1307(g) and OAC rule 3745-77-07(A)(1)] □ □

6. The permittee of an emissions unit subject to Section 63.1300 or Section 63.1301 of Subpart III shall maintain a product data sheet for each mold release agent used that includes the HAP content, in kg of HAP/kg solids (lb HAP/lb solids), of each mold release agent.

[Authority for term: 40 CFR 63.1307(h) and OAC rule 3745-77-07(A)(1)]

III. Monitoring and/or Record Keeping Requirements (continued)

7. The permittee shall perform daily checks, when the mold waxing is in operation and when the weather conditions allow, for any visible particulate emissions from the stack(s) serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the date and time of the visible emission observation;
 - b. the identification of the stack(s) observed;
 - c. the color of the emissions;
 - d. the total duration of any visible emission observation; and
 - e. the corrective actions, if any, taken to eliminate the visible emissions.

[Authority for term: OAC rule 3745-77-07(C)(1)]

The owner or operator of an affected source subject to Sec. 63.1300 or Sec. 63.1301 of this subpart shall maintain a product data sheet for each compound other than diisocyanates used to flush the mixhead and associated piping during periods of startup or maintenance, which includes the HAP content, in kg of HAP/kg solids (lb HAP/lb solids), of each solvent other than diisocyanates used to flush the mixhead and associated piping during periods of startup or maintenance.

IV. Reporting Requirements

1. The permittee shall notify the Director (Ohio EPA, Northwest District Office) in writing of any daily record showing that the carbon mat filter 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 (Ohio EPA, Northwest District Office) within 30 days after the event occurs.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

2. The permittee shall notify the Director (Ohio EPA, Northwest District Office) in writing of any monthly record showing the use of photochemically reactive material in this emissions unit. The notification shall include a copy of such record and shall be sent to the Director (Ohio EPA, Northwest District Office) within 30 days following the end of the calendar month.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

3. The permittee shall submit annual reports that summarize the actual annual OC emissions for the mold waxing and for the pouring operations associated with this emissions unit. These reports shall be submitted by January 31 of each year and shall cover the previous calendar year.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

4. 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 30 days after the deviation occurs.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

5. In accordance with 40 CFR 63.1306(g), the permittee shall include the following in its annual compliance certification (see the General Terms and Conditions of this permit):

- a. each calendar day that a HAP-based material is used as an equipment cleaner (except for diisocyanates used in accordance with section A.II.4); and
- b. each calendar day that a HAP-based material is used as a mold release agent.

Failure to meet the requirements contained in sections A.II.4 and 5 shall be considered a violation of this permit. Violation of each item listed in 'a' and 'b' above shall be considered a separate violation.

[Authority for term: 40 CFR 63.1308(e) and 3745-77-07(C)(1)]

IV. Reporting Requirements (continued)

6. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack(s) serving this emissions unit and (b) describe the corrective actions, if any, taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Ohio EPA, Northwest District Office) by January 31 and July 31 of each year and shall cover the previous 6-month period.

[Authority for term: OAC rule 3745-77-07(C)(1)]

V. Testing Requirements

1. Compliance with the emission limitations in Section A.I of the terms and conditions of this permit shall be determined in accordance with the following methods:

- 1.a Emission Limitation:
13.15 lbs OC/hour, for mold waxing

Applicable Compliance Method:

The hourly OC emission limitation was established based on multiplying the maximum hourly gallon usage rate (2.12 gallons/hr) by the maximum OC content of the wax (6.20 lbs/gallon).

If required, the permittee shall demonstrate compliance with the hourly limitation by testing in accordance with US EPA Methods 1-4 and 18, 25, or 25A, as appropriate, of 40 CFR Part 60, Appendix A.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

- 1.b Emission Limitation:
57.60 tons OC/year, for mold waxing

Applicable Compliance Method:

Compliance with the annual allowable OC emission limitation above shall be determined based on the record keeping requirements established in section A.III.3 of this permit.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

- 1.c Emission Limitation:
0.05 lb PE/hour, for mold waxing

Applicable Compliance Method:

The permittee may determine compliance with the hourly PE limitation by utilizing the following equation:

$$E \text{ (lbs/hr)} = (\text{maximum coating solids content, in lbs/gallon}) \times (\text{maximum coating usage rate, in gallons/hr}) \times (1 - \text{CE for carbon mat filter})$$

where:

E = PE rate, in lbs/hr

Maximum coating solids content = 0.23 lb/gallon

Maximum gallon usage rate = 2.0 gallons/hr

CE = control efficiency of the control equipment (assumed to be 90% for carbon mat filter)

If required, the permittee shall demonstrate compliance with the hourly PE limitation by testing in accordance with US EPA Methods 1-5 of 40 CFR Part 60, Appendix A.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

V. Testing Requirements (continued)

1.d Emission Limitation:
0.22 ton PE/year, for mold waxing

Applicable Compliance Method:

The annual emission limitation was developed by multiplying the hourly limitation by the maximum operating schedule of 8760 hrs/yr, and then dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual limitation.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

1.e Emission Limitation:
Visible PE shall not exceed 0% opacity, as a six-minute average, for the waxing operations

Applicable Compliance Method:

If required, compliance shall be demonstrated through visible emissions observations performed in accordance with Method 9 of 40 CFR Part 60, Appendix A.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

1.f Emission Limitation:
1.54 lb OC/hour, for pouring with cure oven operations

Applicable Compliance Method:

The hourly OC emission limitation was established based on the following:

$$E \text{ (lbs/hr)} = [(\text{maximum pound usage rate for catalyst}) \times (\text{maximum OC content, weight percent, for catalyst}) \times (\text{percent of catalyst retained in foam})] + [(\text{maximum gallon usage rate for TDI}) \times (\text{maximum emission factor for TDI})] + [(\text{maximum gallon usage rate for mesamoll}) \times (\text{maximum OC content for Mesamoll, lbs/gallon})]$$

where:

E = OC rate, in lbs/hr

maximum pound usage rate for catalyst = 30.10 lbs/hr

maximum percent weight OC for catalyst = 0.065%

percent of catalyst retained in foam = 98%

maximum gallon usage rate for TDI = 22 gallons/hr

maximum emission factor for TDI = 0.068 lb OC/gallon

maximum gallon usage rate for mesamoll = 0.30 gallon/hr

maximum OC content for mesamoll = 0.011 lb OC/gal

If required, the permittee shall demonstrate compliance with the hourly OC limitation by testing in accordance with US EPA Methods 1-4 and 18, 25, or 25A, as appropriate of 40 CFR Part 60, Appendix A.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

V. Testing Requirements (continued)

1.g Emission Limitation:
6.75 tons OC/year, for pouring with cure oven operations

Applicable Compliance Method:

Compliance with the annual allowable OC emission limitation above shall be determined based on the record keeping requirements established in section A.III.4 of this permit.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

1.h Emission Limitation:
1.34 lbs NO_x /hour, for pouring with cure oven operations

Applicable Compliance Method:

The permittee may demonstrate compliance with the hourly allowable NO_x emission limitation by multiplying an emission factor of 100 lbs NO_x/mm cu. ft [AP-42, Chapter 1, Table 1.4-1 (revised 7/98)] by the maximum natural gas usage rate for the cure oven (mm cu. ft/hr).

If required, compliance with the hourly allowable NO_x emission limitation shall be determined in accordance with Methods 1-4 and 7 of 40 CFR Part 60, Appendix A.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

1.i Emission Limitation:
5.87 tons NO_x/year, for pouring with cure oven operations

Applicable Compliance Method:

The annual limitation was developed by multiplying the hourly limitation by the maximum operating schedule of 8760 hrs/yr, and then dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual limitation.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

1.j Emission Limitations:
0.40 lb NO_x/hour and 1.75 tons NO_x/year, for post-cure oven
(for emissions units P005 and P006, combined)

Applicable Compliance Method

The permittee may demonstrate compliance with the hourly allowable NO_x emission limitation by multiplying an emission factor of 100 lbs NO_x/mm cu. ft [AP-42, Chapter 1, Table 1.4-1 (revised 7/98)] by the maximum natural gas usage rate for the post-cure oven (mm cu. ft/hr)

If required, compliance with the hourly allowable NO_x emission limitation shall be determined in accordance with Methods 1-4 and 7 of 40 CFR Part 60, Appendix A, while emissions units P005 and P006 are in operation.

The annual limitation was developed by multiplying the hourly limitation by the maximum operating schedule of 8760 hrs/yr, and then dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual limitation.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

V. Testing Requirements (continued)

- 1.k** Emission Limitation:
0.020 lb PE/mmBtu of actual heat input

Applicable Compliance Method:

The permittee may demonstrate compliance with the lb PE /mmBtu limitation by dividing the emission factor, from AP-42, Table 1.4-2 (revised 7/98), of 1.9 lbs PE (filterable)/mm cu. ft by the heat content for natural gas (950 Btu/cu. ft).

If required, compliance with the lb PE /mmBtu limitation shall be determined in accordance with the methods specified in OAC rule 3745-17-03 (B)(9).

[Authority for term: OAC rules 3745-31-05(A)(3), 3745-17-03(B)(9), and 3745-77-07(C)(1)]

- 1.l** Emission Limitation:
Visible PE shall not exceed 20% opacity, as a six-minute average, for the post-cure oven

Applicable Compliance Method:

If required, compliance shall be demonstrated through visible emissions observations performed in accordance with OAC rule 3745-17-03(B)(1).

[Authority for term: OAC rules 3745-31-05(A)(3), 3745-17-03(B)(1), and 3745-77-07(C)(1)]

- 1.m** Emission Limitations:
3 lbs OC/hour and 15 lbs OC/day, for the pouring cure oven

Applicable Compliance Method:

Compliance with the hourly and daily OC emission limitations is assumed since the OC emissions from the closed molds associated with the cure oven are negligible.

If required, the permittee shall demonstrate compliance with the hourly OC limitation by testing in accordance with US EPA Methods 1-4 and 18, 25, or 25A, as appropriate of 40 CFR Part 60, Appendix A.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

- 2.** Formulation data or USEPA Method 24 shall be used to determine the OC contents of all materials employed.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Line #2: EA Pad (P007)

Activity Description: Energy Absorbing Pad - Line #1

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
EA pad line #2 mold release operations	OAC rule 3745-31-05(A)(3) (PTI 03-16345, issued September 27, 2005)	control requirements (See A.I.2.a.) 5.92 lbs organic compounds (OC)/hour (See A.I.2.c.) 0.04 lb particulate emissions (PE)/hour, 0.18 ton PE/year Visible PE shall not exceed 0% opacity, as a six-minute average.
	OAC rule 3745-31-05(C)	See A.I.2.b. 37.44 tons per rolling, 12-month period from emissions units P007 & P008, combined (See A.I.2.d.)
	OAC rule 3745-17-11(B)	See A.I.2.e.
	OAC rule 3745-17-07(A)	See A.I.2.e.
	OAC rule 3745-21-07(G)	See A.II.2.

2. Additional Terms and Conditions

- 2.a Best available technology (BAT) for this emissions unit has been determined to be the use of panel filters for PE control.
- 2.b The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-05(C) and 3745-21-07(G).
- 2.c The hourly OC emission limitation was established for PTI purposes to represent the emissions unit's potentials to emit. Therefore, no additional monitoring, record keeping, and/or reporting requirements are necessary to ensure compliance with this emission limitation.
- 2.d The OC emissions from emissions units P007 & P008, combined, shall not exceed 37.44 tons per rolling, 12-month period based on a material usage restriction (See A.II.1).

The 37.44 tons of OC per year is a federally enforceable limitation established for purposes of avoiding "Prevention of Significant Deterioration" (PSD) applicability. For purposes of federal enforceability, OC emissions effectively restrict VOC emissions.

2. Additional Terms and Conditions (continued)

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

II. Operational Restrictions

- 1.** The maximum annual mold release agent usage from emissions units P007 & P008, combined, shall not exceed 13,538 gallons, based on a rolling, 12-month summation of the monthly materials usage rates. To ensure enforceability during the first 12 calendar months of operation following the issuance of PTI no. 03-16366, the permittee shall not exceed the levels specified in the following table:

Month(s)	Maximum Allowable Mold Release Usage (gallons)
1	1129
1-2	2258
1-3	3386
1-4	4514
1-5	5642
1-6	6770
1-7	7898
1-8	9026
1-9	10,154
1-10	11,282
1-11	12,410
1-12	13,538

After the first 12 calendar months of operation following the issuance of PTI no. 03-16366, compliance with the annual mold release agent usage limitation shall be based upon a rolling 12-month summation of the monthly materials usage rate.

[Authority for term: OAC rules 3745-31-05(A)(3), 3745-31-05(C) and 3745-77-07(A)(1)]

- 2.** The use of any photochemically reactive material, as defined in OAC rule 3745-21-01(C), in this emissions unit is prohibited.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(A)(1)]

- 3.** The permittee shall operate the panel filters whenever this emissions unit is in operation.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(A)(1)]

III. Monitoring and/or Record Keeping Requirements

- 1.** The permittee shall maintain daily records that document any time periods when the panel filters were not in service when the emissions unit was in operation.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

III. Monitoring and/or Record Keeping Requirements (continued)

2. The permittee shall maintain monthly records of the following information for this emissions unit:
 - a. the company name and identification of each mold release agent applied;
 - b. documentation on whether or not each mold release agent employed is a photochemically reactive material;
 - c. the number of gallons of each mold release agent employed;
 - d. the OC content, in pounds per gallon, for each mold release agent, as applied;
 - e. the OC emission rate for each mold release agent employed, in lbs/month (c x d for each mold release agent employed); and
 - f. the total monthly OC emission rate for all the mold release agents employed, in lbs (sum of e for all mold release agents).

[Authority for term: OAC rules 3745-31-05(A)(3), 3745-31-05(C) and 3745-77-07(C)(1)]

3. In conjunction with the record keeping requirements specified in A.III.2 above, the permittee shall also record the following each month for emission units P007 and P008, combined:
 - a. beginning the first month after the 12 calendar months of operation following the issuance of PTI no. 03-16366, the rolling, 12-month OC emission rate, in tons;
 - b. during the first 12 calendar months of operation following the issuance of PTI no. 03-16366, the cumulative monthly mold release agent usage rates, in gallons; and
 - c. beginning the first month after the first 12 calendar months of operation following the issuance of PTI no. 03-16366, the rolling, 12-month mold release agent usage rate, in gallons.

[Authority for term: OAC rules 3745-31-05(A)(3), 3745-31-05(C) and 3745-77-07(C)(1)]

IV. Reporting Requirements

1. The permittee shall notify the Director (the Ohio EPA, Northwest District Office) in writing of any daily record showing that the dry filters were 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, Northwest District Office) within 30 days after the event occurs.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

IV. Reporting Requirements (continued)

2. The permittee shall submit quarterly deviation (excursion) reports that identify the following:
 - a. beginning the first month after the 12 calendar months of operation following the issuance of PTI no. 03-16366, all exceedances of the rolling, 12-month mold release agent usage restriction of 13538 gallons (for emissions units P007 and P008, combined);
 - b. beginning the first month after the 12 calendar months of operation following the issuance of PTI no. 03-16366, all exceedances of the rolling, 12-month OC emission limitation of 37.44 tons (for emissions units P007 and P008, combined); and
 - c. during the first 12 months of operation following the issuance of PTI no. 03-16366, all exceedances of the cumulative monthly mold release agent usage restrictions specified in A.II.1 (for emissions units P007 and P008, combined).

The permittee shall submit these deviation (excursion) reports in accordance with the General Terms and Conditions of this permit.

[Authority for term: OAC rules 3745-31-05(A)(3), 3745-31-05(C) and 3745-77-07(C)(1)]

3. The permittee shall notify the Director (the Ohio EPA, Northwest District Office) in writing of any monthly record showing the use of any photochemically reactive material. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA, Northwest District Office) within 30 days following the end of the calendar month.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

V. Testing Requirements

1. Compliance with the emission limitations specified in Section A.I shall be determined in accordance with the following methods:

- 1.a Emission Limitation:
5.92 lbs OC/hour

Applicable Compliance Method:

The potential to emit was established based on multiplying the maximum gallon usage rate of 1.07 gallons/hr by the maximum OC content of 5.53 lbs/gallon.

If required, the permittee shall demonstrate compliance with the hourly OC emission limitation in accordance with Methods 18, 25, or 25A, as appropriate, of 40 CFR Part 60, Appendix A.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

- 1.b Emission Limitation:
37.44 tons OC per rolling, 12-month period for emissions units P007 and P008, combined

Applicable Compliance Method:

Compliance with the annual allowable OC emission limitation above shall be demonstrated through the record keeping requirements established in sections A.III.2 and A.III.3 of this permit.

[Authority for term: OAC rules 3745-31-05(A)(3), 3745-31-05(C) and 3745-77-07(C)(1)]

V. Testing Requirements (continued)

1.c Emission Limitation:
0.04 lb PE/hour

Applicable Compliance Method:

The permittee may demonstrate compliance with the hourly limitation by utilizing the following equation:

$$E = (\text{maximum coating solids usage rate in lbs/hr}) \times (1 - TE)(1 - CE)$$

where

E = PE rate (lbs/hr)

TE = transfer efficiency (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

If required, compliance with the hourly allowable PE limitation shall be based on stack testing in accordance with 40 CFR, Part 60, Appendix A, Methods 1 - 5.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

1.d Emission Limitation:
0.18 ton of PE/year

Applicable Compliance Method:

The annual limitation was developed by multiplying the hourly limitation by a maximum operating schedule of 8760 hours per year, and then dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual limitation.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

1.e Emission Limitation:
Visible PE shall not exceed 0% opacity, as a six-minute average.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with US EPA Method 9 of 40 CFR Part 60, Appendix A.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

1.f Emission Limitation:
during the first 12 months of operation following the issuance of PTI no. 03-16366, the cumulative monthly mold release agents usage restrictions established in section A.II.1 (for emissions units P007 and P008, combined)

Applicable Compliance Method:

Compliance with the cumulative monthly mold release agents usage restrictions above shall be demonstrated through the record keeping requirements established in sections A.III.2 and A.III.3 of this permit.

[Authority for term: OAC rules 3745-31-05(A)(3), 3745-31-05(C) and 3745-77-07(C)(1)]

1.g Emission Limitation:
13,538 gallons of mold release agents/rolling, 12-month period (for emissions units P007 and P008, combined)

Applicable Compliance Method:

Compliance with the annual allowable mold release agents usage restriction above shall be demonstrated through the record keeping requirements established in sections A.III.2 and A.III.3 of this permit.

[Authority for term: OAC rules 3745-31-05(A)(3), 3745-31-05(C) and 3745-77-07(C)(1)]

Facility Name: **Bridgestone APM - Foam Products**

Facility ID: **03-88-01-0051**

Emissions Unit: **Line #2: EA Pad (P007)**

V. Testing Requirements (continued)

2. Formulation data or USEPA Method 24 shall be used to determine the OC content of all mold release materials.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
EA pad line #2 mold release operations	None	None

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

- The permit to install for emission units P007 and P008 was evaluated based on the actual materials (adhesive) and the design parameters of each 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 these emission units using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: aliphatic naphtha
 TLV (ug/m3): 573,000
 Maximum Hourly Emission Rate (lbs/hr): 11.89
 Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 183.4
 MAGLC (ug/m3): 13,633

- Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:
 - changes in the composition of the materials used (mold release agent), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;
 - changes in the compositions 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
 - 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.).

III. Monitoring and/or Record Keeping Requirements (continued)

3. 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 solely due to the emissions of any type of toxic air contaminant not previously emitted, and a modification of the existing permit to install will not be required, even if the toxic air contaminant emissions are greater than the de minimis level in OAC rule 3745-15-05. If the change(s) is (are) defined as a modification under other provisions of the modification definition, then the permittee shall obtain a final permit to install prior to the change.
4. The permittee shall collect, record, and retain the following information when it conducts evaluation to determine that the changed emissions unit will still satisfy the "Air Toxic Policy:"
 - a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.)
 - b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
 - c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Line #3: EA Pad (P008)

Activity Description: Energy Absorbing Pad - Line #2

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
EA pad line #3 mold release operations	OAC rule 3745-31-05(A)(3) (PTI 03-16345, issued September 27, 2005)	control requirements (See A.I.2.a.) 5.92 lbs organic compounds (OC)/hour (See A.I.2.c.) 0.04 lb particulate emissions (PE)/hour, 0.18 ton PE/year Visible PE shall not exceed 0% opacity, as a six-minute average.
	OAC rule 3745-31-05(C)	See A.I.2.b. 37.44 tons per rolling, 12-month period from emissions units P007 & P008, combined (See A.I.2.d.)
	OAC rule 3745-17-11(B)	See A.I.2.e.
	OAC rule 3745-17-07(A)	See A.I.2.e.
	OAC rule 3745-21-07(G)	See A.II.2.

2. Additional Terms and Conditions

- 2.a Best available technology (BAT) for this emissions unit has been determined to be the use of panel filters for PE control.
- 2.b The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-05(C) and 3745-21-07(G).
- 2.c The hourly OC emission limitation was established for PTI purposes to represent the emissions unit's potentials to emit. Therefore, no additional monitoring, record keeping, and/or reporting requirements are necessary to ensure compliance with this emission limitation.
- 2.d The OC emissions from emissions units P007 & P008, combined, shall not exceed 37.44 tons per rolling, 12-month period based on a material usage restriction (See A.II.1).

The 37.44 tons of OC per year is a federally enforceable limitation established for purposes of avoiding "Prevention of Significant Deterioration" (PSD) applicability. For purposes of federal enforceability, OC emissions effectively restrict VOC emissions.

2. Additional Terms and Conditions (continued)

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

II. Operational Restrictions

- 1.** The maximum annual mold release agent usage from emissions units P007 & P008, combined, shall not exceed 13,538 gallons, based on a rolling, 12-month summation of the monthly materials usage rates. To ensure enforceability during the first 12 calendar months of operation following the issuance of PTI no. 03-16366, the permittee shall not exceed the levels specified in the following table:

Month(s)	Maximum Allowable Mold Release Usage (gallons)
1	1129
1-2	2258
1-3	3386
1-4	4514
1-5	5642
1-6	6770
1-7	7898
1-8	9026
1-9	10,154
1-10	11,282
1-11	12,410
1-12	13,538

After the first 12 calendar months of operation following the issuance of PTI no. 03-16366, compliance with the annual mold release agent usage limitation shall be based upon a rolling 12-month summation of the monthly materials usage rate.

[Authority for term: OAC rules 3745-31-05(A)(3), 3745-31-05(C) and 3745-77-07(A)(1)]

- 2.** The use of any photochemically reactive material, as defined in OAC rule 3745-21-01(C), in this emissions unit is prohibited.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(A)(1)]

- 3.** The permittee shall operate the panel filters whenever this emissions unit is in operation.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(A)(1)]

III. Monitoring and/or Record Keeping Requirements

- 1.** The permittee shall maintain daily records that document any time periods when the panel filters were not in service when the emissions unit was in operation.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

III. Monitoring and/or Record Keeping Requirements (continued)

2. The permittee shall maintain monthly records of the following information for this emissions unit:
 - a. the company name and identification of each mold release agent applied;
 - b. documentation on whether or not each mold release agent employed is a photochemically reactive material;
 - c. the number of gallons of each mold release agent employed;
 - d. the OC content, in pounds per gallon, for each mold release agent, as applied;
 - e. the OC emission rate for each mold release agent employed, in lbs/month (c x d for each mold release agent employed); and
 - f. the total monthly OC emission rate for all the mold release agents employed, in lbs (sum of e for all mold release agents).

[Authority for term: OAC rules 3745-31-05(A)(3), 3745-31-05(C) and 3745-77-07(C)(1)]

3. In conjunction with the record keeping requirements specified in A.III.2 above, the permittee shall also record the following each month for emission units P007 and P008, combined:
 - a. beginning the first month after the 12 calendar months of operation following the issuance of PTI no. 03-16366, the rolling, 12-month OC emission rate, in tons;
 - b. during the first 12 calendar months of operation following the issuance of PTI no. 03-16366, the cumulative monthly mold release agent usage rates, in gallons; and
 - c. beginning the first month after the first 12 calendar months of operation following the issuance of PTI no. 03-16366, the rolling, 12-month mold release agent usage rate, in gallons.

[Authority for term: OAC rules 3745-31-05(A)(3), 3745-31-05(C) and 3745-77-07(C)(1)]

IV. Reporting Requirements

1. The permittee shall notify the Director (the Ohio EPA, Northwest District Office) in writing of any daily record showing that the dry filters were 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, Northwest District Office) within 30 days after the event occurs.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

IV. Reporting Requirements (continued)

2. The permittee shall submit quarterly deviation (excursion) reports that identify the following:
 - a. beginning the first month after the 12 calendar months of operation following the issuance of PTI no. 03-16366, all exceedances of the rolling, 12-month mold release agent usage restriction of 13538 gallons (for emissions units P007 and P008, combined);
 - b. beginning the first month after the 12 calendar months of operation following the issuance of PTI no. 03-16366, all exceedances of the rolling, 12-month OC emission limitation of 37.44 tons (for emissions units P007 and P008, combined); and
 - c. during the first 12 months of operation following the issuance of PTI no. 03-16366, all exceedances of the cumulative monthly mold release agent usage restrictions specified in A.II.1 (for emissions units P007 and P008, combined).

The permittee shall submit these deviation (excursion) reports in accordance with the General Terms and Conditions of this permit.

[Authority for term: OAC rules 3745-31-05(A)(3), 3745-31-05(C) and 3745-77-07(C)(1)]

3. The permittee shall notify the Director (the Ohio EPA, Northwest District Office) in writing of any monthly record showing the use of any photochemically reactive material. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA, Northwest District Office) within 30 days following the end of the calendar month.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

V. Testing Requirements

1. Compliance with the emission limitations specified in Section A.I shall be determined in accordance with the following methods:

- 1.a Emission Limitation:
5.92 lbs OC/hour

Applicable Compliance Method:

The potential to emit was established based on multiplying the maximum gallon usage rate of 1.07 gallons/hr by the maximum OC content of 5.53 lbs/gallon.

If required, the permittee shall demonstrate compliance with the hourly OC emission limitation in accordance with Methods 18, 25, or 25A, as appropriate, of 40 CFR Part 60, Appendix A.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

- 1.b Emission Limitation:
37.44 tons OC per rolling, 12-month period for emissions units P007 and P008, combined

Applicable Compliance Method:

Compliance with the annual allowable OC emission limitation above shall be demonstrated through the record keeping requirements established in sections A.III.2 and A.III.3 of this permit.

[Authority for term: OAC rules 3745-31-05(A)(3), 3745-31-05(C) and 3745-77-07(C)(1)]

V. Testing Requirements (continued)

1.c Emission Limitation:
0.04 lb PE/hour

Applicable Compliance Method:

The permittee may demonstrate compliance with the hourly limitation by utilizing the following equation:

$$E = (\text{maximum coating solids usage rate in lbs/hr}) \times (1 - TE)(1 - CE)$$

where

E = PE rate (lbs/hr)

TE = transfer efficiency (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

If required, compliance with the hourly allowable PE limitation shall be based on stack testing in accordance with 40 CFR, Part 60, Appendix A, Methods 1 - 5.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

1.d Emission Limitation:
0.18 ton of PE/year

Applicable Compliance Method:

The annual limitation was developed by multiplying the hourly limitation by a maximum operating schedule of 8760 hours per year, and then dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual limitation.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

1.e Emission Limitation:
Visible PE shall not exceed 0% opacity, as a six-minute average.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with US EPA Method 9 of 40 CFR Part 60, Appendix A.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

1.f Emission Limitation:
during the first 12 months of operation following the issuance of PTI no. 03-16366, the cumulative monthly mold release agents usage restrictions established in section A.II.1 (for emissions units P007 and P008, combined)

Applicable Compliance Method:

Compliance with the cumulative monthly mold release agents usage restrictions above shall be demonstrated through the record keeping requirements established in sections A.III.2 and A.III.3 of this permit.

[Authority for term: OAC rules 3745-31-05(A)(3), 3745-31-05(C) and 3745-77-07(C)(1)]

1.g Emission Limitation:
13,538 gallons of mold release agents/rolling, 12-month period (for emissions units P007 and P008, combined)

Applicable Compliance Method:

Compliance with the annual allowable mold release agents usage restriction above shall be demonstrated through the record keeping requirements established in sections A.III.2 and A.III.3 of this permit.

[Authority for term: OAC rules 3745-31-05(A)(3), 3745-31-05(C) and 3745-77-07(C)(1)]

Facility Name: **Bridgestone APM - Foam Products**

Facility ID: **03-88-01-0051**

Emissions Unit: **Line #3: EA Pad (P008)**

V. Testing Requirements (continued)

2. Formulation data or USEPA Method 24 shall be used to determine the OC content of all mold release materials.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
EA pad line #3 mold release operations	None	None

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

- The permit to install for emission units P007 and P008 was evaluated based on the actual materials (adhesive) and the design parameters of each 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 these emission units using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: aliphatic naphtha
 TLV (ug/m3): 573,000
 Maximum Hourly Emission Rate (lbs/hr): 11.89
 Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 183.4
 MAGLC (ug/m3): 13,633

- Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:
 - changes in the composition of the materials used (mold release agent), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;
 - changes in the compositions 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
 - 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.).

III. Monitoring and/or Record Keeping Requirements (continued)

3. 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 solely due to the emissions of any type of toxic air contaminant not previously emitted, and a modification of the existing permit to install will not be required, even if the toxic air contaminant emissions are greater than the de minimis level in OAC rule 3745-15-05. If the change(s) is (are) defined as a modification under other provisions of the modification definition, then the permittee shall obtain a final permit to install prior to the change.
4. The permittee shall collect, record, and retain the following information when it conducts evaluation to determine that the changed emissions unit will still satisfy the "Air Toxic Policy:"
 - a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.)
 - b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
 - c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Glue Booth #1 (R001)
Activity Description: Manual Glue booth

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
manual glue booth no.1	OAC rule 3745-31-05(A)(3) (PTI 03-16366, issued September 27, 2005)	control requirements (See section A.I.2.a.) 9.80 lbs organic compounds (OC)/hour (See A.I.2.c.) 0.01 lb particulate emissions (PE)/hour, 0.04 ton PE/year Visible PE shall not exceed 0% opacity, as a six-minute average.
	OAC rule 3745-31-05(C)	See A.I.2.b. 16.38 tons per rolling, 12-month period from emissions units R001, R002 & R003, combined (See A.I.2.d.)
	OAC rule 3745-17-11(B)	See A.I.2.e.
	OAC rule 3745-17-07(B)	See A.I.2.e.
	OAC rule 3745-21-07(G)	See A.II.2.

2. Additional Terms and Conditions

- 2.a Best available technology (BAT) control requirements for this emissions unit has been determined to be the use of dry filters for PE control.
- 2.b The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-05(C) and 3745-21-07(G).
- 2.c The hourly OC emission limitation was established for PTI purposes to reflect the emissions unit's potential to emit. Therefore, no additional monitoring, record keeping, and/or reporting requirements are necessary to ensure compliance with this emission limitation.

2. Additional Terms and Conditions (continued)

2.d The OC emissions from emissions units R001, R002 & R003, combined, shall not exceed 16.38 tons per rolling, 12-month period based on a material usage restriction (see A.II.1) and an OC content restriction (see section A.II.4).

The 16.38 tons of OC per year is a federally enforceable limitation established for purposes of avoiding "Prevention of Significant Deterioration" (PSD) applicability. For purposes of federal enforceability, OC emissions effectively restrict VOC emissions.

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

II. Operational Restrictions

1. The maximum annual adhesive usage from emissions units R001, R002 & R003, combined, shall not exceed 5882 gallons, based on a rolling, 12-month summation of the monthly materials usage rates. To ensure enforceability during the first 12 calendar months of operation following the issuance of PTI no. 03-16366, the permittee shall not exceed the levels specified in the following table:

Month(s)	Maximum Allowable Glue Usage (gallons)
1	491
1-2	982
1-3	1472
1-4	1962
1-5	2452
1-6	2942
1-7	3432
1-8	3922
1-9	4412
1-10	4902
1-11	5392
1-12	5882

After the first 12 calendar months of operation following the issuance of PTI no. 03-16366, compliance with the annual adhesive usage restriction shall be based upon a rolling, 12-month summation of the monthly materials usage rates.

[Authority for term: OAC rules 3745-31-05(A)(3), 3745-31-05(C) and 3745-77-07(A)(1)]

2. The use of any photochemically reactive material, as defined in OAC rule 3745-21-01, in this emissions unit is prohibited.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(A)(1)]

3. The permittee shall operate the dry filters whenever this emissions unit is in operation.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(A)(1)]

4. The OC content of the adhesives employed in this emissions unit shall not exceed 5.57 pounds per gallon, as applied.

[Authority for term: OAC rules 3745-31-05(A)(3), 3745-31-05(C) and 3745-77-07(A)(1)]

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain daily records that document any time periods when the dry filters were not in service when the emissions unit was in operation.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

III. Monitoring and/or Record Keeping Requirements (continued)

2. The permittee shall maintain monthly records of the following information for this emissions unit:
 - a. the company name and identification of each adhesive applied;
 - b. documentation on whether or not each adhesive employed is a photochemically reactive material;
 - c. the number of gallons of each adhesive employed;
 - d. the OC content, in pounds per gallon, for each adhesive, as applied;
 - e. the OC emission rate for each adhesive employed, in lbs/month (c x d, for each adhesive employed); and
 - f. the total monthly OC emission rate for all the adhesives employed, in lbs (sum of e for all adhesives).

[Authority for term: OAC rules 3745-31-05(A)(3), 3745-31-05(C) and 3745-77-07(C)(1)]

3. In conjunction with the record keeping requirements specified in A.III.2 above, the permittee shall also record the following each month for emissions units R001, R002 & R003, combined:
 - a. for the first 12 months of operation following the issuance of PTI no. 03-16366, the cumulative monthly adhesives gallon usage rates;
 - b. beginning the first month after the 12 calendar months of operation following the issuance of PTI no. 03-16366, the rolling, 12-month adhesives gallon usage rate;
 - c. beginning the first month after the first 12 calendar months of operation following the issuance of PTI no. 03-16366, the rolling, 12-month OC emission rate.

[Authority for term: OAC rules 3745-31-05(A)(3), 3745-31-05(C) and 3745-77-07(C)(1)]

IV. Reporting Requirements

1. The permittee shall notify the Director (the Ohio EPA, Northwest District Office) in writing of any daily record showing that the dry filters were 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, Northwest District Office) within 30 days after the event occurs.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

2. The permittee shall submit quarterly deviation (excursion) reports that identify the following:
 - a. beginning the first month after the 12 calendar months of operation following the issuance of PTI no. 03-16366, all exceedances of the rolling, 12-month adhesives usage restriction of 5882 gallons (for emissions units R001, R002 & R003, combined).
 - b. beginning the first month after the 12 calendar months of operation following the issuance of PTI no. 03-16366, all exceedances of the rolling, 12-month OC emission limitation of 16.38 tons (for emissions units R001, R002 & R003, combined);
 - c. all exceedances of the maximum allowable adhesive OC content specified in A.II.4; and
 - d. during the first 12 months of operation following the issuance of PTI no. 03-16366, all exceedances of the cumulative monthly adhesives gallon usage restrictions specified in A.II.1 (for emissions units R001, R002 & R003, combined).

The permittee shall submit these deviation (excursion) reports in accordance with the General Terms and Conditions of this permit.

[Authority for term: OAC rules 3745-31-05(A)(3), 3745-31-05(C) and 3745-77-07(C)(1)]

IV. Reporting Requirements (continued)

3. The permittee shall notify the Director (the Ohio EPA, Northwest District Office) in writing of any monthly record showing the use of any photochemically reactive material. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA, Northwest District Office) within 30 days following the end of the calendar month.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

V. Testing Requirements

1. Compliance with the emission limitations specified in Section A.I shall be determined in accordance with the following methods:

- 1.a Emission Limitation:
9.80 lbs OC/hour

Applicable Compliance Method:

The potential to emit was established based on multiplying the maximum gallon usage rate of 1.76 gallons/hr by the maximum OC content of 5.57 lbs/gallon.

If required, the permittee shall demonstrate compliance with the hourly OC emission limitation in accordance with Methods 18, 25, or 25A, as appropriate, of 40 CFR Part 60, Appendix A.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

- 1.b Emission Limitation:
16.38 tons OC per rolling, 12-month period for emissions units R001, R002 & R003, combined

Applicable Compliance Method:

Compliance with the annual allowable OC emission limitation above shall be demonstrated through the record keeping requirements in sections A.III.2 and A.III.3 of this permit.

[Authority for term: OAC rules 3745-31-05(A)(3), 3745-31-05(C) and 3745-77-07(C)(1)]

- 1.c Emission Limitation:
0.01 lb PE/hour

Applicable Compliance Method:

The permittee may demonstrate compliance with the hourly limitation by utilizing the following equation:

$$E = (\text{maximum coating solids usage rate in lbs/hr}) \times (1 - TE)(1 - CE)$$

where

$$E = \text{PE rate (lbs/hr)}$$

TE = transfer efficiency (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

If required, compliance with the hourly allowable PE limitation shall be based on stack testing in accordance with 40 CFR, Part 60, Appendix A, Methods 1 - 5.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

V. Testing Requirements (continued)

- 1.d** Emission Limitation:
0.04 ton of PE/year

Applicable Compliance Method:

The annual limitation was developed by multiplying the hourly limitation by a maximum operating schedule of 8760 hours per year, and then dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual limitation.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

- 1.e** Emission Limitation:
Visible PE shall not exceed 0% opacity, as a six-minute average.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with US EPA Method 9 of 40 CFR Part 60, Appendix A.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

- 1.f** Emission Limitation:
5882 gallons adhesives/rolling, 12-month period (for emissions units R001, R002, and R003, combined)

Applicable Compliance Method:

Compliance with the annual allowable mold release agents usage restriction above shall be demonstrated through the record keeping requirements established in sections A.III.2 and A.III.3 of this permit.

[Authority for term: OAC rules 3745-31-05(A)(3), 3745-31-05(C) and 3745-77-07(C)(1)]

- 1.g** OC content Limitation:
5.57 pounds OC/gallon of adhesive coating

Applicable Compliance Method:

Compliance with the OC content limitation above shall be demonstrated through the record keeping requirements established in section A.III.2 of this permit.

[Authority for term: OAC rules 3745-31-05(A)(3), 3745-31-05(C) and 3745-77-07(C)(1)]

- 2.** Formulation data or USEPA Method 24 shall be used to determine the OC content of all adhesives.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
manual glue booth no.1	None	None

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

- The permit to install for emission units R001, R002 & R003 was evaluated based on the actual materials (adhesive) and the design parameters of each 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 these emission units using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: hexane
 TLV (ug/m3): 176,000
 Maximum Hourly Emission Rate (lbs/hr): 29.4
 Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 1452
 MAGLC (ug/m3): 4196

- Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:
 - changes in the composition of the materials used (mold release agent), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;
 - changes in the compositions 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
 - 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.).

III. Monitoring and/or Record Keeping Requirements (continued)

3. 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 solely due to the emissions of any type of toxic air contaminant not previously emitted, and a modification of the existing permit to install will not be required, even if the toxic air contaminant emissions are greater than the de minimis level in OAC rule 3745-15-05. If the change(s) is (are) defined as a modification under other provisions of the modification definition, then the permittee shall obtain a final permit to install prior to the change.
4. The permittee shall collect, record, and retain the following information when it conducts evaluation to determine that the changed emissions unit will still satisfy the "Air Toxic Policy:"
 - a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.)
 - b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
 - c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Glue Booth #2 (R002)
Activity Description: Manual Glue Booth

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
manual glue booth no.2	OAC rule 3745-31-05(A)(3) (PTI 03-16366, issued September 27, 2005)	control requirements (See section A.I.2.a.) 9.80 lbs organic compounds (OC)/hour (See A.I.2.c.) 0.01 lb particulate emissions (PE)/hour, 0.04 ton PE/year Visible PE shall not exceed 0% opacity, as a six-minute average. See A.I.2.b.
	OAC rule 3745-31-05(C)	16.38 tons per rolling, 12-month period from emissions units R001, R002 & R003, combined (See A.I.2.d.)
	OAC rule 3745-17-11(B)	See A.I.2.e.
	OAC rule 3745-17-07(B)	See A.I.2.e.
	OAC rule 3745-21-07(G)	See A.II.2.

2. Additional Terms and Conditions

- 2.a Best available technology (BAT) control requirements for this emissions unit has been determined to be the use of dry filters for PE control.
- 2.b The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-05(C) and 3745-21-07(G).
- 2.c The hourly OC emission limitation was established for PTI purposes to reflect the emissions unit's potential to emit. Therefore, no additional monitoring, record keeping, and/or reporting requirements are necessary to ensure compliance with this emission limitation.

2. Additional Terms and Conditions (continued)

2.d The OC emissions from emissions units R001, R002 & R003, combined, shall not exceed 16.38 tons per rolling, 12-month period based on a material usage restriction (see A.II.1) and an OC content restriction (see section A.II.4).

The 16.38 tons of OC per year is a federally enforceable limitation established for purposes of avoiding "Prevention of Significant Deterioration" (PSD) applicability. For purposes of federal enforceability, OC emissions effectively restrict VOC emissions.

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

II. Operational Restrictions

1. The maximum annual adhesive usage from emissions units R001, R002 & R003, combined, shall not exceed 5882 gallons, based on a rolling, 12-month summation of the monthly materials usage rates. To ensure enforceability during the first 12 calendar months of operation following the issuance of PTI no. 03-16366, the permittee shall not exceed the levels specified in the following table:

Month(s)	Maximum Allowable Glue Usage (gallons)
1	491
1-2	982
1-3	1472
1-4	1962
1-5	2452
1-6	2942
1-7	3432
1-8	3922
1-9	4412
1-10	4902
1-11	5392
1-12	5882

After the first 12 calendar months of operation following the issuance of PTI no. 03-16366, compliance with the annual adhesive usage restriction shall be based upon a rolling, 12-month summation of the monthly materials usage rates.

[Authority for term: OAC rules 3745-31-05(A)(3), 3745-31-05(C) and 3745-77-07(A)(1)]

2. The use of any photochemically reactive material, as defined in OAC rule 3745-21-01, in this emissions unit is prohibited.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(A)(1)]

3. The permittee shall operate the dry filters whenever this emissions unit is in operation.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(A)(1)]

4. The OC content of the adhesives employed in this emissions unit shall not exceed 5.57 pounds per gallon, as applied.

[Authority for term: OAC rules 3745-31-05(A)(3), 3745-31-05(C) and 3745-77-07(A)(1)]

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain daily records that document any time periods when the dry filters were not in service when the emissions unit was in operation.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

III. Monitoring and/or Record Keeping Requirements (continued)

2. The permittee shall maintain monthly records of the following information for this emissions unit:
 - a. the company name and identification of each adhesive applied;
 - b. documentation on whether or not each adhesive employed is a photochemically reactive material;
 - c. the number of gallons of each adhesive employed;
 - d. the OC content, in pounds per gallon, for each adhesive, as applied;
 - e. the OC emission rate for each adhesive employed, in lbs/month (c x d, for each adhesive employed); and
 - f. the total monthly OC emission rate for all the adhesives employed, in lbs (sum of e for all adhesives).

[Authority for term: OAC rules 3745-31-05(A)(3), 3745-31-05(C) and 3745-77-07(C)(1)]

3. In conjunction with the record keeping requirements specified in A.III.2 above, the permittee shall also record the following each month for emissions units R001, R002 & R003, combined:
 - a. for the first 12 months of operation following the issuance of PTI no. 03-16366, the cumulative monthly adhesives gallon usage rates;
 - b. beginning the first month after the 12 calendar months of operation following the issuance of PTI no. 03-16366, the rolling, 12-month adhesives gallon usage rate;
 - c. beginning the first month after the first 12 calendar months of operation following the issuance of PTI no. 03-16366, the rolling, 12-month OC emission rate.

[Authority for term: OAC rules 3745-31-05(A)(3), 3745-31-05(C) and 3745-77-07(C)(1)]

IV. Reporting Requirements

1. The permittee shall notify the Director (the Ohio EPA, Northwest District Office) in writing of any daily record showing that the dry filters were 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, Northwest District Office) within 30 days after the event occurs.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

2. The permittee shall submit quarterly deviation (excursion) reports that identify the following:
 - a. beginning the first month after the 12 calendar months of operation following the issuance of PTI no. 03-16366, all exceedances of the rolling, 12-month adhesives usage restriction of 5882 gallons (for emissions units R001, R002 & R003, combined).
 - b. beginning the first month after the 12 calendar months of operation following the issuance of PTI no. 03-16366, all exceedances of the rolling, 12-month OC emission limitation of 16.38 tons (for emissions units R001, R002 & R003, combined);
 - c. all exceedances of the maximum allowable adhesive OC content specified in A.II.4; and
 - d. during the first 12 months of operation following the issuance of PTI no. 03-16366, all exceedances of the cumulative monthly adhesives gallon usage restrictions specified in A.II.1 (for emissions units R001, R002 & R003, combined).

The permittee shall submit these deviation (excursion) reports in accordance with the General Terms and Conditions of this permit.

[Authority for term: OAC rules 3745-31-05(A)(3), 3745-31-05(C) and 3745-77-07(C)(1)]

IV. Reporting Requirements (continued)

3. The permittee shall notify the Director (the Ohio EPA, Northwest District Office) in writing of any monthly record showing the use of any photochemically reactive material. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA, Northwest District Office) within 30 days following the end of the calendar month.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

V. Testing Requirements

1. Compliance with the emission limitations specified in Section A.I shall be determined in accordance with the following methods:

- 1.a Emission Limitation:
9.80 lbs OC/hour

Applicable Compliance Method:

The potential to emit was established based on multiplying the maximum gallon usage rate of 1.76 gallons/hr by the maximum OC content of 5.57 lbs/gallon.

If required, the permittee shall demonstrate compliance with the hourly OC emission limitation in accordance with Methods 18, 25, or 25A, as appropriate, of 40 CFR Part 60, Appendix A.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

- 1.b Emission Limitation:
16.38 tons OC per rolling, 12-month period for emissions units R001, R002 & R003, combined

Applicable Compliance Method:

Compliance with the annual allowable OC emission limitation above shall be demonstrated through the record keeping requirements in sections A.III.2 and A.III.3 of this permit.

[Authority for term: OAC rules 3745-31-05(A)(3), 3745-31-05(C) and 3745-77-07(C)(1)]

- 1.c Emission Limitation:
0.01 lb PE/hour

Applicable Compliance Method:

The permittee may demonstrate compliance with the hourly limitation by utilizing the following equation:

$$E = (\text{maximum coating solids usage rate in lbs/hr}) \times (1 - TE)(1 - CE)$$

where

$$E = \text{PE rate (lbs/hr)}$$

TE = transfer efficiency (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

If required, compliance with the hourly allowable PE limitation shall be based on stack testing in accordance with 40 CFR, Part 60, Appendix A, Methods 1 - 5.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

V. Testing Requirements (continued)

- 1.d** Emission Limitation:
0.04 ton of PE/year

Applicable Compliance Method:

The annual limitation was developed by multiplying the hourly limitation by a maximum operating schedule of 8760 hours per year, and then dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual limitation.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

- 1.e** Emission Limitation:
Visible PE shall not exceed 0% opacity, as a six-minute average.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with US EPA Method 9 of 40 CFR Part 60, Appendix A.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

- 1.f** Emission Limitation:
5882 gallons adhesives/rolling, 12-month period (for emissions units R001, R002, and R003, combined)

Applicable Compliance Method:

Compliance with the annual allowable mold release agents usage restriction above shall be demonstrated through the record keeping requirements established in sections A.III.2 and A.III.3 of this permit.

[Authority for term: OAC rules 3745-31-05(A)(3), 3745-31-05(C) and 3745-77-07(C)(1)]

- 1.g** OC content Limitation:
5.57 pounds OC/gallon of adhesive coating

Applicable Compliance Method:

Compliance with the OC content limitation above shall be demonstrated through the record keeping requirements established in section A.III.2 of this permit.

[Authority for term: OAC rules 3745-31-05(A)(3), 3745-31-05(C) and 3745-77-07(C)(1)]

- 2.** Formulation data or USEPA Method 24 shall be used to determine the OC content of all adhesives.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
manual glue booth no.2	None	None

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

- The permit to install for emission units R001, R002 & R003 was evaluated based on the actual materials (adhesive) and the design parameters of each 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 these emission units using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: hexane
 TLV (ug/m3): 176,000
 Maximum Hourly Emission Rate (lbs/hr): 29.4
 Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 1452
 MAGLC (ug/m3): 4196

- Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:
 - changes in the composition of the materials used (mold release agent), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;
 - changes in the compositions 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
 - 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.).

III. Monitoring and/or Record Keeping Requirements (continued)

3. 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 solely due to the emissions of any type of toxic air contaminant not previously emitted, and a modification of the existing permit to install will not be required, even if the toxic air contaminant emissions are greater than the de minimis level in OAC rule 3745-15-05. If the change(s) is (are) defined as a modification under other provisions of the modification definition, then the permittee shall obtain a final permit to install prior to the change.
4. The permittee shall collect, record, and retain the following information when it conducts evaluation to determine that the changed emissions unit will still satisfy the "Air Toxic Policy:"
 - a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.)
 - b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
 - c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Glue Booth #3 (R003)
Activity Description: Manual Glue Booth

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
manual glue booth no.3	OAC rule 3745-31-05(A)(3) (PTI 03-16366, issued September 27, 2005)	control requirements (See section A.I.2.a.) 9.80 lbs organic compounds (OC)/hour (See A.I.2.c.) 0.01 lb particulate emissions (PE)/hour, 0.04 ton PE/year Visible PE shall not exceed 0% opacity, as a six-minute average.
	OAC rule 3745-31-05(C)	See A.I.2.b. 16.38 tons per rolling, 12-month period from emissions units R001, R002 & R003, combined (See A.I.2.d.)
	OAC rule 3745-17-11(B)	See A.I.2.e.
	OAC rule 3745-17-07(B)	See A.I.2.e.
	OAC rule 3745-21-07(G)	See A.II.2.

2. Additional Terms and Conditions

- 2.a Best available technology (BAT) control requirements for this emissions unit has been determined to be the use of dry filters for PE control.
- 2.b The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-05(C) and 3745-21-07(G).
- 2.c The hourly OC emission limitation was established for PTI purposes to reflect the emissions unit's potential to emit. Therefore, no additional monitoring, record keeping, and/or reporting requirements are necessary to ensure compliance with this emission limitation.

2. Additional Terms and Conditions (continued)

2.d The OC emissions from emissions units R001, R002 & R003, combined, shall not exceed 16.38 tons per rolling, 12-month period based on a material usage restriction (see A.II.1) and an OC content restriction (see section A.II.4).

The 16.38 tons of OC per year is a federally enforceable limitation established for purposes of avoiding "Prevention of Significant Deterioration" (PSD) applicability. For purposes of federal enforceability, OC emissions effectively restrict VOC emissions.

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

II. Operational Restrictions

1. The maximum annual adhesive usage from emissions units R001, R002 & R003, combined, shall not exceed 5882 gallons, based on a rolling, 12-month summation of the monthly materials usage rates. To ensure enforceability during the first 12 calendar months of operation following the issuance of PTI no. 03-16366, the permittee shall not exceed the levels specified in the following table:

Month(s)	Maximum Allowable Glue Usage (gallons)
1	491
1-2	982
1-3	1472
1-4	1962
1-5	2452
1-6	2942
1-7	3432
1-8	3922
1-9	4412
1-10	4902
1-11	5392
1-12	5882

After the first 12 calendar months of operation following the issuance of PTI no. 03-16366, compliance with the annual adhesive usage restriction shall be based upon a rolling, 12-month summation of the monthly materials usage rates.

[Authority for term: OAC rules 3745-31-05(A)(3), 3745-31-05(C) and 3745-77-07(A)(1)]

2. The use of any photochemically reactive material, as defined in OAC rule 3745-21-01, in this emissions unit is prohibited.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(A)(1)]

3. The permittee shall operate the dry filters whenever this emissions unit is in operation.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(A)(1)]

4. The OC content of the adhesives employed in this emissions unit shall not exceed 5.57 pounds per gallon, as applied.

[Authority for term: OAC rules 3745-31-05(A)(3), 3745-31-05(C) and 3745-77-07(A)(1)]

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain daily records that document any time periods when the dry filters were not in service when the emissions unit was in operation.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

III. Monitoring and/or Record Keeping Requirements (continued)

2. The permittee shall maintain monthly records of the following information for this emissions unit:
 - a. the company name and identification of each adhesive applied;
 - b. documentation on whether or not each adhesive employed is a photochemically reactive material;
 - c. the number of gallons of each adhesive employed;
 - d. the OC content, in pounds per gallon, for each adhesive, as applied;
 - e. the OC emission rate for each adhesive employed, in lbs/month (c x d, for each adhesive employed); and
 - f. the total monthly OC emission rate for all the adhesives employed, in lbs (sum of e for all adhesives).

[Authority for term: OAC rules 3745-31-05(A)(3), 3745-31-05(C) and 3745-77-07(C)(1)]

3. In conjunction with the record keeping requirements specified in A.III.2 above, the permittee shall also record the following each month for emissions units R001, R002 & R003, combined:
 - a. for the first 12 months of operation following the issuance of PTI no. 03-16366, the cumulative monthly adhesives gallon usage rates;
 - b. beginning the first month after the 12 calendar months of operation following the issuance of PTI no. 03-16366, the rolling, 12-month adhesives gallon usage rate;
 - c. beginning the first month after the first 12 calendar months of operation following the issuance of PTI no. 03-16366, the rolling, 12-month OC emission rate.

[Authority for term: OAC rules 3745-31-05(A)(3), 3745-31-05(C) and 3745-77-07(C)(1)]

IV. Reporting Requirements

1. The permittee shall notify the Director (the Ohio EPA, Northwest District Office) in writing of any daily record showing that the dry filters were 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, Northwest District Office) within 30 days after the event occurs.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

2. The permittee shall submit quarterly deviation (excursion) reports that identify the following:
 - a. beginning the first month after the 12 calendar months of operation following the issuance of PTI no. 03-16366, all exceedances of the rolling, 12-month adhesives usage restriction of 5882 gallons (for emissions units R001, R002 & R003, combined).
 - b. beginning the first month after the 12 calendar months of operation following the issuance of PTI no. 03-16366, all exceedances of the rolling, 12-month OC emission limitation of 16.38 tons (for emissions units R001, R002 & R003, combined);
 - c. all exceedances of the maximum allowable adhesive OC content specified in A.II.4; and
 - d. during the first 12 months of operation following the issuance of PTI no. 03-16366, all exceedances of the cumulative monthly adhesives gallon usage restrictions specified in A.II.1 (for emissions units R001, R002 & R003, combined).

The permittee shall submit these deviation (excursion) reports in accordance with the General Terms and Conditions of this permit.

[Authority for term: OAC rules 3745-31-05(A)(3), 3745-31-05(C) and 3745-77-07(C)(1)]

IV. Reporting Requirements (continued)

3. The permittee shall notify the Director (the Ohio EPA, Northwest District Office) in writing of any monthly record showing the use of any photochemically reactive material. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA, Northwest District Office) within 30 days following the end of the calendar month.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

V. Testing Requirements

1. Compliance with the emission limitations specified in Section A.I shall be determined in accordance with the following methods:

- 1.a Emission Limitation:
9.80 lbs OC/hour

Applicable Compliance Method:

The potential to emit was established based on multiplying the maximum gallon usage rate of 1.76 gallons/hr by the maximum OC content of 5.57 lbs/gallon.

If required, the permittee shall demonstrate compliance with the hourly OC emission limitation in accordance with Methods 18, 25, or 25A, as appropriate, of 40 CFR Part 60, Appendix A.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

- 1.b Emission Limitation:
16.38 tons OC per rolling, 12-month period for emissions units R001, R002 & R003, combined

Applicable Compliance Method:

Compliance with the annual allowable OC emission limitation above shall be demonstrated through the record keeping requirements in sections A.III.2 and A.III.3 of this permit.

[Authority for term: OAC rules 3745-31-05(A)(3), 3745-31-05(C) and 3745-77-07(C)(1)]

- 1.c Emission Limitation:
0.01 lb PE/hour

Applicable Compliance Method:

The permittee may demonstrate compliance with the hourly limitation by utilizing the following equation:

$$E = (\text{maximum coating solids usage rate in lbs/hr}) \times (1 - TE)(1 - CE)$$

where

$$E = \text{PE rate (lbs/hr)}$$

TE = transfer efficiency (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

If required, compliance with the hourly allowable PE limitation shall be based on stack testing in accordance with 40 CFR, Part 60, Appendix A, Methods 1 - 5.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

V. Testing Requirements (continued)

- 1.d** Emission Limitation:
0.04 ton of PE/year

Applicable Compliance Method:

The annual limitation was developed by multiplying the hourly limitation by a maximum operating schedule of 8760 hours per year, and then dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance shall also be shown with the annual limitation.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

- 1.e** Emission Limitation:
Visible PE shall not exceed 0% opacity, as a six-minute average.

Applicable Compliance Method:

Compliance shall be demonstrated in accordance with US EPA Method 9 of 40 CFR Part 60, Appendix A.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

- 1.f** Emission Limitation:
5882 gallons adhesives/rolling, 12-month period (for emissions units R001, R002, and R003, combined)

Applicable Compliance Method:

Compliance with the annual allowable mold release agents usage restriction above shall be demonstrated through the record keeping requirements established in sections A.III.2 and A.III.3 of this permit.

[Authority for term: OAC rules 3745-31-05(A)(3), 3745-31-05(C) and 3745-77-07(C)(1)]

- 1.g** OC content Limitation:
5.57 pounds OC/gallon of adhesive coating

Applicable Compliance Method:

Compliance with the OC content limitation above shall be demonstrated through the record keeping requirements established in section A.III.2 of this permit.

[Authority for term: OAC rules 3745-31-05(A)(3), 3745-31-05(C) and 3745-77-07(C)(1)]

- 2.** Formulation data or USEPA Method 24 shall be used to determine the OC content of all adhesives.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
manual glue booth no.3	None	None

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

- The permit to install for emission units R001, R002 & R003 was evaluated based on the actual materials (adhesive) and the design parameters of each 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 these emission units using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for the "worst case" pollutant(s):

Pollutant: hexane
 TLV (ug/m3): 176,000
 Maximum Hourly Emission Rate (lbs/hr): 29.4
 Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 1452
 MAGLC (ug/m3): 4196

- Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:
 - changes in the composition of the materials used (mold release agent), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;
 - changes in the compositions 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
 - 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.).

III. Monitoring and/or Record Keeping Requirements (continued)

3. 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 solely due to the emissions of any type of toxic air contaminant not previously emitted, and a modification of the existing permit to install will not be required, even if the toxic air contaminant emissions are greater than the de minimis level in OAC rule 3745-15-05. If the change(s) is (are) defined as a modification under other provisions of the modification definition, then the permittee shall obtain a final permit to install prior to the change.
4. The permittee shall collect, record, and retain the following information when it conducts evaluation to determine that the changed emissions unit will still satisfy the "Air Toxic Policy:"
 - a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.)
 - b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
 - c. where computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxic Policy" for the change.

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

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