



State of Ohio Environmental Protection Agency

Street Address:

Lazarus Gov. Center
50 West Town Street, Suite 700
Columbus, OH 43215

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

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

10/29/07

CERTIFIED MAIL

**RE: Preliminary Proposed Title V
Chapter 3745-77 permit**

03-70-01-0058
Jay Plastics, Inc.
Allen R Wheeler Mr
150 East Longview Avenue
Mansfield, OH 44903-4206

Dear Allen R Wheeler:

Enclosed is the Ohio EPA Preliminary Proposed Title V permit that was issued in draft form on (not issued). The comment period for the Draft permit has ended. We are now ready to submit this permit to USEPA for approval.

We are submitting this for your review and comment. If you do not agree with the Preliminary Proposed Title V permit as written, you now have the opportunity to raise your concerns. **In order to facilitate our review of all the comments or concerns you may have with the enclosed preliminary proposed permit, please provide a hand marked-up copy of the permit showing the changes you think are necessary, along with any additional summary comments, within fourteen (14) days from your receipt of this letter to:**

**Andrew Hall
Permit Review/Development Section
Ohio EPA, Division of Air Pollution Control
50 West Town Street, Suite 700
P.O. Box 1049
Columbus, Ohio 43215**

and

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

Also, if you believe that it is necessary to have an informal conference with us, then, as part of your written comments, you should request a conference concerning the written comments.

If comments are not submitted within fourteen (14) days of your receipt of this letter, we will forward the proposed permit to USEPA for approval. All comments received will be carefully considered before proceeding to the proposed permit.

Sincerely,

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

cc: Northwest District Office
File, DAPC PIER



State of Ohio Environmental Protection Agency

PRELIMINARY PROPOSED TITLE V PERMIT

Issue Date: 10/29/07

Effective Date: To be entered upon final issuance

Expiration Date: To be entered upon final issuance

This document constitutes issuance of a Title V permit for Facility ID: 03-70-01-0058 to:

Jay Plastics, Inc.
150 East Longview Avenue
Mansfield, OH 44903-4206

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

Table with 3 columns: Emissions Unit ID (Company ID), Emissions Unit Activity Description, and Emissions Unit Activity Description. Rows include units P003, P004, P005, R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111, and R112.

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.

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

Chris Korleski
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 rule is applicable to emissions units P001, P101, P102, P105, Z028, and Z102: OAC rule 3745-21-07(G)(1).
2. The permittee shall comply with the following applicable emission limitations for emissions units P001, P105, Z028, and Z102 (each), and P101 and P102 (combined):
 - a. 3 lbs organic compounds (OC)/hour; and
 - b. 15 lbs OC/day.

[OAC 3745-77-07(C)(1), OAC 3745-21-07(G)(1)]

3. The permittee shall comply with the following monitoring and/or record keeping requirements:
 - 3.a The permittee shall collect and record the following information each day for emissions unit P001: The total uncontrolled daily organic compound emission rate for the coating operation associated with emissions unit P001 (i.e., from section A.III.1.f of emissions unit R003 *), multiplied by the maximum percentage of the emissions from the coating operation associated with emissions unit P001, 0.2 (i.e. 20%, from AP-42 Table 4.2.2.4.1 April, 1981), in pounds.

The permittee shall also keep the records as set forth above for emissions units: P101 and P102 combined (ovens), as they relate to R103 (coating operation); and Z028 (oven), as it relates to R009 (coating operation).

* For the purposes of this section, the permittee may exclude cleanup material usage from the records taken from Section A.III.1.f for emissions unit R003.

- 3.b No record keeping, deviation reporting, or compliance method calculations are required to demonstrate compliance with the 3 lbs OC /hr emission limit for emissions unit P001 because, as long as compliance with the hourly limitation for emissions unit R003 is maintained, compliance with the hourly limitation for emissions unit P001 shall be assumed (the maximum hourly emission rate for P001 was calculated by multiplying the hourly limitation for R003 by 0.2).

The compliance relationship as set forth above also applies to emissions units: P101 and P102 (ovens), as they relate to R103 (coating operation); and Z028 (oven), as it relates to R009 (coating operation).

- 3.c No record keeping, deviation reporting, or compliance method calculations are required to demonstrate compliance with the 3 lbs OC /hr or 15 lbs OC /day emission limitations for emissions unit P105 because, as long as compliance with the hourly limitation for emissions unit R107 is maintained, compliance with the hourly and daily limitation for emissions unit P105 shall be assumed (the maximum hourly emission rate for P105 was calculated by multiplying the hourly limitation for R107 by 0.2, and the daily limit is the hourly limit multiplied by 24).

The compliance relationship as set forth above also applies to emissions units Z102 (oven), as it relates to R108 (coating operation).

[OAC 3745-77-07(C)(1)]

4. The permittee shall submit quarterly deviation (excursion) reports, for emissions unit P001 and Z028 (each), and P101 and P102 (combined), that include the following: an identification of each day during which the organic compound emission rate exceeded 15 pounds per day, and the actual organic compound emission rate for each such day.

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

[OAC 3745-77-07(C)(1)]

A. State and Federally Enforceable Section (continued)

5. Formulation data or USEPA Method 24 shall be used to determine the organic compound contents of the coatings and cleanup materials employed in emissions units P001, P101, P102, P105, Z028, and Z102.

[OAC 3745-77-07(C)(1)]

6. The following insignificant emissions units are located at this facility:

P001 - Bake Oven (PTI 03-7096)
P101 - Curing Oven (PTI 03-5526)
P102 - Curing Oven (PTI 03-5526)
P105 - Curing Oven (PTI 03-9216)
P106 - Salt Bath Oven (PTI 03-16100)
Z023 - 'Blu-Surf' Burn-off Oven
Z028 - Infra-red Curing Oven
Z102 - Flash Off Oven

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.

[OAC 3745-77-07(C)(1)]

7. This facility installed emissions unit Z023 ('Blu-Surf' Burn-off Oven) in 1998 without first obtaining a Permit to Install (PTI). Therefore, as the initial step for this emissions unit to achieve compliance with the applicable requirements, the permittee shall submit a complete PTI application within 2 months following the issuance of this permit.

[OAC 3745-77-07(C)(1)]

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 - Molding Machine 1
Z002 - Molding Machine 2
Z003 - Molding Machine 3
Z004 - Molding Machine 4
Z005 - Molding Machine 5
Z006 - Molding Machine 6
Z007 - Molding Machine 7
Z008 - Molding Machine 8
Z009 - Molding Machine 9
Z010 - Molding Machine 10
Z011 - Molding Machine 11
Z012 - Molding Machine 12
Z013 - Molding Machine 13
Z014 - Molding Machine 14
Z015 - Molding Machine 15
Z016 - Molding Machine 16
Z017 - Molding Machine 17
Z018 - Molding Machine 18
Z019 - Molding Machine 19
Z020 - Molding Machine 20
Z021 - Molding Machine 21
Z022 - Molding Machine 22
Z024 - Molding Machine E1
Z025 - Molding Machine E2
Z026 - Molding Machine 23
Z027 - Molding Machine BMC

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Co-Generator #1 (P003)

Activity Description: Natural gas co-generation system for producing supplemental electricity

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>
reciprocating IC generator - 9.08 mmBtu/hr input - 800 kW - 1129 BHP - natural gas (Power Gen. System 1) - with catalytic converter	OAC rule 3745-31-05 (A)(3) (PTI 03-10376 issued April 16, 1997)	3.8 lbs nitrogen oxides (NOx) /hr, 16.6 tons NOx /yr
		1.0 lb carbon monoxide (CO) /hr, 4.4 tons CO /yr
		0.4 lb volatile organic compounds (VOC) /hr, 1.76 tons VOC /yr
		0.1 lb particulate emissions (PE) /hr, 0.44 ton PE /yr
		0.1 lb sulfur dioxide (SO2) /hr, 0.44 ton SO2 /yr
		See section A.I.2.a
	OAC rule 3745-17-07(A)	Visible PE shall not exceed 20 percent opacity, as a six-minute average, except as provided by rule.
	OAC rule 3745-17-11(B)(5)(b)	See section A.I.2.b
	OAC rule 3745-18-06	See section A.I.2.c
	OAC rule 3745-21-08(B)	See section A.I.2.d

2. Additional Terms and Conditions

- 2.a The requirements of this rule include compliance with the requirements of OAC rule 3745-17-07(A).
- 2.b 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.c The emissions unit is exempt from the requirements of OAC rule 3745-18-06 pursuant to OAC rule 3745-18-06(A).

2. Additional Terms and Conditions (continued)

- 2.d** The permittee has satisfied 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 this permit to install.

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.

II. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.
[OAC rules 3745-77-07(A)(1) and 3745-31-05(A)(3)]

III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type of fuel burned in this emissions unit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted to the Director (the appropriate Ohio EPA District Office) within 30 days after the deviation occurs.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

V. Testing Requirements

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

- 1.a** Emission Limitation:
3.8 lbs NO_x /hr

Applicable Compliance Method:

Compliance may be determined by multiplying the maximum hourly gas burning capacity of the emissions unit (mm cu. ft./hour) by the AP-42, Table 3.1-1 (revised 1993) emission factor for natural gas (0.44 lbs NO_x/mmBtu).

If required, the permittee shall demonstrate compliance with the limitation above in accordance with 40 CFR, Part 60, Appendix A, Methods 1 - 4 and 7.

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

- 1.b** Emission Limitation:
1.0 lb CO /hr

Applicable Compliance Method:

Compliance may be determined by multiplying the maximum hourly gas burning capacity of the emissions unit (mm cu. ft./hour) by the AP-42, Table 3.1-1 (revised 1993) emission factor for natural gas (0.11 lbs CO/mmBtu).

If required, the permittee shall demonstrate compliance with the limitation above in accordance with 40 CFR, Part 60, Appendix A, Methods 1 - 4 and 10.

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

V. Testing Requirements (continued)

- 1.c** Emission Limitation:
0.4 lb VOC /hr

Applicable Compliance Method:

Compliance may be determined by multiplying the maximum hourly gas burning capacity of the emissions unit (mm cu. ft./hour) by the AP-42, Table 3.1-1 (revised 1993) emission factor for natural gas (0.024 lbs TOC/mmBtu).

If required, the permittee shall demonstrate compliance with the limitation above in accordance with 40 CFR, Part 60, Appendix A, Methods 1 - 4 and 18, 25, or 25A as appropriate.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

- 1.d** Emission Limitation:
0.1 lb PE /hr

Applicable Compliance Method:

Compliance may be determined by multiplying the maximum hourly gas burning capacity of the emissions unit (mm cu. ft./hour) by the AP-42, Table 3.1-1 (revised 1993) emission factor for natural gas (0.019 lbs PM/mmBtu).

If required, the permittee shall demonstrate compliance with the limitation above in accordance with 40 CFR, Part 60, Appendix A, Methods 1 - 5.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

- 1.e** Emission Limitation:
0.1 lb SO₂ /hr

Applicable Compliance Method:

Compliance may be determined by multiplying the maximum hourly gas burning capacity of the emissions unit (mm cu. ft./hour) by the AP-42, Table 3.2-3 (revised 07/00) emission factor for natural gas (0.0006 lbs SO₂/mmBtu).

If required, the permittee shall demonstrate compliance with the limitation above in accordance with 40 CFR, Part 60, Appendix A, Methods 1 - 4 and 6.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

- 1.f** Emission Limitations:
16.6 tons NO_x/yr
4.4 tons CO/yr
1.75 tons VOC/yr
0.44 ton PE/yr
0.44 ton SO₂/yr

Applicable Compliance Method:

The ton/yr limitations were developed by multiplying the lb/hr limitation by a maximum operating schedule of 8760 hr/year, and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitations, compliance will also be shown with the annual limitations.

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

- 1.g** Emission Limitation:
Visible PE shall not exceed 20 percent opacity, as a six-minute average, except as otherwise provided by rule.

Applicable Compliance Method:

Compliance shall be determined through visible emissions observations performed in accordance with OAC rule 3745-17-03(B)(1).

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

VI. Miscellaneous Requirements

1. The Permit to Install (PTI) for this emissions unit established Best Available Technology (BAT) emissions limits that were erroneously based upon emissions factors for combustion turbines (this unit is a reciprocating IC engine). Consequently, the permittee cannot show compliance with the BAT emissions limits for this emissions unit using correct emissions factors. Therefore, as the initial step for this emissions unit to achieve compliance with the applicable requirements, the permittee shall submit a complete PTI application for administrative modification within 2 months following the issuance of this permit.
[OAC 3745-77-07(C)(1)]

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: Co-Generator #2 (P004)

Activity Description: Natural gas co-generation system for producing supplemental electricity

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>
reciprocating IC generator - 9.08 mmBtu/hr input - 800 kW - 1129 BHP - natural gas (Power Gen. System 2) - with catalytic converter	OAC rule 3745-31-05 (A)(3) (PTI 03-10376 issued April 16, 1997)	3.8 lbs nitrogen oxides (NOx) /hr, 16.6 tons NOx /yr
		1.0 lb carbon monoxide (CO) /hr, 4.4 tons CO /yr
		0.4 lb volatile organic compounds (VOC) /hr, 1.76 tons VOC /yr
		0.1 lb particulate emissions (PE) /hr, 0.44 ton PE /yr
		0.1 lb sulfur dioxide (SO2) /hr, 0.44 ton SO2 /yr
		See section A.I.2.a
	OAC rule 3745-17-07(A)	Visible PE shall not exceed 20 percent opacity, as a six-minute average, except as provided by rule.
	OAC rule 3745-17-11(B)(5)(b)	See section A.I.2.b
	OAC rule 3745-18-06	See section A.I.2.c
	OAC rule 3745-21-08(B)	See section A.I.2.d

2. Additional Terms and Conditions

- 2.a The requirements of this rule include compliance with the requirements of OAC rule 3745-17-07(A).
- 2.b 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.c The emissions unit is exempt from the requirements of OAC rule 3745-18-06 pursuant to OAC rule 3745-18-06(A).

2. Additional Terms and Conditions (continued)

- 2.d** The permittee has satisfied 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 this permit to install.

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.

II. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.
[OAC rules 3745-77-07(A)(1) and 3745-31-05(A)(3)]

III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type of fuel burned in this emissions unit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted to the Director (the appropriate Ohio EPA District Office) within 30 days after the deviation occurs.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

V. Testing Requirements

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

- 1.a** Emission Limitation:
3.8 lbs NO_x /hr

Applicable Compliance Method:

Compliance may be determined by multiplying the maximum hourly gas burning capacity of the emissions unit (mm cu. ft./hour) by the AP-42, Table 3.1-1 (revised 1993) emission factor for natural gas (0.44 lbs NO_x/mmBtu).

If required, the permittee shall demonstrate compliance with the limitation above in accordance with 40 CFR, Part 60, Appendix A, Methods 1 - 4 and 7.

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

- 1.b** Emission Limitation:
1.0 lb CO /hr

Applicable Compliance Method:

Compliance may be determined by multiplying the maximum hourly gas burning capacity of the emissions unit (mm cu. ft./hour) by the AP-42, Table 3.1-1 (revised 1993) emission factor for natural gas (0.11 lbs CO/mmBtu).

If required, the permittee shall demonstrate compliance with the limitation above in accordance with 40 CFR, Part 60, Appendix A, Methods 1 - 4 and 10.

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

V. Testing Requirements (continued)

- 1.c** Emission Limitation:
0.4 lb VOC /hr

Applicable Compliance Method:

Compliance may be determined by multiplying the maximum hourly gas burning capacity of the emissions unit (mm cu. ft./hour) by the AP-42, Table 3.1-1 (revised 1993) emission factor for natural gas (0.024 lbs TOC/mmBtu).

If required, the permittee shall demonstrate compliance with the limitation above in accordance with 40 CFR, Part 60, Appendix A, Methods 1 - 4 and 18, 25, or 25A as appropriate.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

- 1.d** Emission Limitation:
0.1 lb PE /hr

Applicable Compliance Method:

Compliance may be determined by multiplying the maximum hourly gas burning capacity of the emissions unit (mm cu. ft./hour) by the AP-42, Table 3.1-1 (revised 1993) emission factor for natural gas (0.019 lbs PM/mmBtu).

If required, the permittee shall demonstrate compliance with the limitation above in accordance with 40 CFR, Part 60, Appendix A, Methods 1 - 5.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

- 1.e** Emission Limitation:
0.1 lb SO₂ /hr

Applicable Compliance Method:

Compliance may be determined by multiplying the maximum hourly gas burning capacity of the emissions unit (mm cu. ft./hour) by the AP-42, Table 3.2-3 (revised 07/00) emission factor for natural gas (0.0006 lbs SO₂/mmBtu).

If required, the permittee shall demonstrate compliance with the limitation above in accordance with 40 CFR, Part 60, Appendix A, Methods 1 - 4 and 6.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

- 1.f** Emission Limitations:
16.6 tons NO_x/yr
4.4 tons CO/yr
1.75 tons VOC/yr
0.44 ton PE/yr
0.44 ton SO₂/yr

Applicable Compliance Method:

The ton/yr limitations were developed by multiplying the lb/hr limitation by a maximum operating schedule of 8760 hr/year, and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitations, compliance will also be shown with the annual limitations.

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

- 1.g** Emission Limitation:
Visible PE shall not exceed 20 percent opacity, as a six-minute average, except as otherwise provided by rule.

Applicable Compliance Method:

Compliance shall be determined through visible emissions observations performed in accordance with OAC rule 3745-17-03(B)(1).

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

VI. Miscellaneous Requirements

1. The Permit to Install (PTI) for this emissions unit established Best Available Technology (BAT) emissions limits that were erroneously based upon emissions factors for combustion turbines (this unit is a reciprocating IC engine). Consequently, the permittee cannot show compliance with the BAT emissions limits for this emissions unit using correct emissions factors. Therefore, as the initial step for this emissions unit to achieve compliance with the applicable requirements, the permittee shall submit a complete PTI application for administrative modification within 2 months following the issuance of this permit.
[OAC 3745-77-07(C)(1)]

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: Co-Generator #3 (P005)

Activity Description: Natural gas co-generation system for producing supplemental electricity

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>
reciprocating IC generator - 6.24 mmBtu/hr input - 550 kW - 775 BHP - natural gas (Power Gen. System 3) - with catalytic converter	OAC rule 3745-31-05 (A)(3) (PTI 03-10376 issued April 16, 1997)	2.6 lbs nitrogen oxides (NOx) /hr, 11.3 tons NOx /yr
		0.7 lb carbon monoxide (CO) /hr, 3.1 tons CO /yr
		0.26 lb volatile organic compounds (VOC) /hr, 1.3 tons VOC /yr
		0.39 lb particulate emissions (PE) /hr, 1.7 ton PE /yr
		0.1 lb sulfur dioxide (SO2) /hr, 0.44 ton SO2 /yr
		See section A.I.2.a
	OAC rule 3745-17-07(A)	Visible PE shall not exceed 20 percent opacity, as a six-minute average, except as provided by rule.
	OAC rule 3745-17-11(B)(5)(b)	See section A.I.2.b
	OAC rule 3745-18-06	See section A.I.2.c
	OAC rule 3745-21-08(B)	See section A.I.2.d

2. Additional Terms and Conditions

- 2.a The requirements of this rule include compliance with the requirements of OAC rule 3745-17-07(A).
- 2.b 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.c The emissions unit is exempt from the requirements of OAC rule 3745-18-06 pursuant to OAC rule 3745-18-06(A).

2. Additional Terms and Conditions (continued)

- 2.d** The permittee has satisfied 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 this permit to install.

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.

II. Operational Restrictions

1. The permittee shall burn only natural gas in this emissions unit.
[OAC rules 3745-77-07(A)(1) and 3745-31-05(A)(3)]

III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type of fuel burned in this emissions unit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted to the Director (the appropriate Ohio EPA District Office) within 30 days after the deviation occurs.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

V. Testing Requirements

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

- 1.a** Emission Limitation:
2.6 lbs NO_x /hr

Applicable Compliance Method:

Compliance may be determined by multiplying the maximum hourly gas burning capacity of the emissions unit (mm cu. ft./hour) by the AP-42, Table 3.1-1 (revised 1993) emission factor for natural gas (0.44 lbs NO_x/mmBtu).

If required, the permittee shall demonstrate compliance with the limitation above in accordance with 40 CFR, Part 60, Appendix A, Methods 1 - 4 and 7.

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

- 1.b** Emission Limitation:
0.7 lb CO /hr

Applicable Compliance Method:

Compliance may be determined by multiplying the maximum hourly gas burning capacity of the emissions unit (mm cu. ft./hour) by the AP-42, Table 3.1-1 (revised 1993) emission factor for natural gas (0.11 lbs CO/mmBtu).

If required, the permittee shall demonstrate compliance with the limitation above in accordance with 40 CFR, Part 60, Appendix A, Methods 1 - 4 and 10.

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

V. Testing Requirements (continued)

1.c Emission Limitation:
0.26 lb VOC /hr

Applicable Compliance Method:

Compliance may be determined by multiplying the maximum hourly gas burning capacity of the emissions unit (mm cu. ft./hour) by the AP-42, Table 3.1-1 (revised 1993) emission factor for natural gas (0.024 lbs TOC/mmBtu).

If required, the permittee shall demonstrate compliance with the limitation above in accordance with 40 CFR, Part 60, Appendix A, Methods 1 - 4 and 18, 25, or 25A as appropriate.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

1.d Emission Limitation:
0.39 lb PE /hr

Applicable Compliance Method:

Compliance may be determined by multiplying the maximum hourly gas burning capacity of the emissions unit (mm cu. ft./hour) by the AP-42, Table 3.1-1 (revised 1993) emission factor for natural gas (0.019 lbs PM/mmBtu).

If required, the permittee shall demonstrate compliance with the limitation above in accordance with 40 CFR, Part 60, Appendix A, Methods 1 - 5.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

1.e Emission Limitation:
0.1 lb SO₂ /hr

Applicable Compliance Method:

Compliance may be determined by multiplying the maximum hourly gas burning capacity of the emissions unit (mm cu. ft./hour) by the AP-42, Table 3.2-3 (revised 07/00) emission factor for natural gas (0.0006 lbs SO₂/mmBtu).

If required, the permittee shall demonstrate compliance with the limitation above in accordance with 40 CFR, Part 60, Appendix A, Methods 1 - 4 and 6.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

1.f Emission Limitations:
11.3 tons NO_x/yr
3.1 tons CO/yr
1.3 tons VOC/yr
1.7 ton PE/yr
0.44 ton SO₂/yr

Applicable Compliance Method:

The ton/yr limitations were developed by multiplying the lb/hr limitation by a maximum operating schedule of 8760 hr/year, and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitations, compliance will also be shown with the annual limitations.

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

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

Applicable Compliance Method:

Compliance shall be determined through visible emissions observations [OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

VI. Miscellaneous Requirements

1. The Permit to Install (PTI) for this emissions unit established Best Available Technology (BAT) emissions limits that were erroneously based upon emissions factors for combustion turbines (this unit is a reciprocating IC engine). Consequently, the permittee cannot show compliance with the BAT emissions limits for this emissions unit using correct emissions factors. Therefore, as the initial step for this emissions unit to achieve compliance with the applicable requirements, the permittee shall submit a complete PTI application for administrative modification within 2 months following the issuance of this permit.
[OAC 3745-77-07(C)(1)]

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: Paint Line Clear Coat (R003)
Activity Description: Clear coating of plastic automotive trim parts

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>
Full Size Clear Coat - Binks clear coat spray booth with HVLP robotic application (plastic parts)	OAC rule 3745-31-05 (A)(3) (PTI 03-17180 issued April 3, 2007)	20.5 lbs organic compounds (OC)/hr from coating operations
	OAC rule 3745-31-05 (A)(3) (PTI 03-17260 issued May 17, 2007)	See A.I.2.a and A.I.2.c The OC content of any cleanup material employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and/or R112 shall not exceed 7.34 lbs OC/gallon.
	OAC rule 3745-31-05(C) (PTI 03-17260 issued May 17, 2007)	230 tons of OC per rolling, 12-month period from coating and cleanup materials employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined (See A.I.2.b.i and A.II.1)
	OAC rule 3745-17-11(B) OAC rule 3745-17-07(A)	9.90 tons per rolling, 12- month period for any individual Hazardous Air Pollutant (HAP) and 24.9 tons per rolling, 12-month period for any combination of HAPs [for emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined] (See A.I.2.b.ii.) 0.551 lb particulate emission (PE)/hr Visible particulate emissions shall not exceed 20 percent opacity, as a six-minute average, except as provided by rule

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	OAC rule 3745-21-07(G)(2)	See A.II.2

2. Additional Terms and Conditions

- 2.a** The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(C), OAC rule 3745-17-11(B), and OAC rule 3745-17-07(A).
- 2.b** The Permit to Install (PTI) established the following federally enforceable emission limitations for purposes of avoiding the applicability of Maximum Achievable Control Technology (MACT) regulations and establish the facility as a minor source for attainment New Source Review:
 - i. 230.0 tons of OC per rolling, 12-month period from the coating and cleanup operations [for emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined] based on a coating/cleanup usage restriction (See A.II.1). For purposes of federal enforceability an emission limitation on OC effectively limits emissions of volatile organic compounds (VOC).
 - ii. Annual HAP emissions from emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined, shall not exceed 9.90 tons per rolling, 12-month period for any individual HAP or 24.90 tons per rolling, 12-month period for any combination of HAPs.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the HAP emission rates specified in the following table:

Maximum Allowable Cumulative HAP Emission Rates (tons):		
Month(s)	Individual HAP	Combined HAPs
1-1	1.00	2.49
1-2	1.81	4.53
1-3	2.62	6.57
1-4	3.43	8.61
1-5	4.24	10.6
1-6	5.05	12.7
1-7	5.86	14.7
1-8	6.67	16.8
1-9	7.48	18.8
1-10	8.29	20.8
1-11	9.10	22.9
1-12	9.90	24.9

After the first 12 calendar months of operation under the provisions of this permit, compliance with the annual HAP limitations shall be based upon a rolling, 12-month summation of the monthly emission rates.

Hazardous Air Pollutant (HAP) means any air pollutant listed in or pursuant to Section 112 (b) of the Clean Air Act.

- 2.c** The hourly emission limitation of 20.5 lbs OC/hr from coating operations represents the potential to emit for this emissions unit. Therefore, no monitoring, record keeping, or reporting requirements are necessary to ensure compliance with this emission limitation.

II. Operational Restrictions

1. The maximum rolling, 12-month quantity of coatings and cleanup materials employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined, is limited by the following equation:

$$\text{sum}[M=1,12] \{ \text{sum}[i=1,n] (V_i G_i) \div 2000 \text{ lbs/ton} \} \leq 230.0$$

where,

M = the increment of the rolling 12-month period;

V_i = OC content in pounds per gallon of each coating/cleanup employed;

G_i = Gallons used of each coating and cleanup material for the rolling 12 month period

n = total number of unique coatings and cleanup materials employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112

To ensure enforceability during the first 12 calendar months of operation under the provisions of this permit, the maximum cumulative amount of coating and cleanup material employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined, shall not exceed the following rates:

Month	sum[M=1,12] {sum[i=1,n](V _i G _i) ÷ 2000 lbs/ton} <=
1	23.0
1-2	41.8
1-3	60.6
1-4	79.5
1-5	98.3
1-6	117
1-7	136
1-8	155
1-9	174
1-10	192
1-11	211
1-12	230

After the first 12 calendar months of operation under the provisions of this permit, compliance with the annual restriction on the amount coating and cleanup material shall be based upon a rolling, 12-month summation. [OAC rules 3745-77-07(A)(1) and 3745-31-05(A)(3)]

2. The use of photochemically reactive materials, as defined in OAC rule 3745-21-01, in this emissions unit is prohibited. [OAC rules 3745-77-07(A)(1) and 3745-31-05(A)(3)]
3. The permittee shall operate the dry filtration /water curtain system for the control of particulate emissions whenever this emissions unit is in operation. [OAC rules 3745-77-07(A)(1) and 3745-31-05(A)(3)]

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information each month coating and cleanup material employed in this emissions unit:
 - a. the name and company identification number for each coating and cleanup material employed;
 - b. documentation of whether or not each coating and cleanup material employed is a photochemically reactive material, as defined in OAC rule 3745-21-01. [OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

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

2. The permittee shall collect and record the following information each month for all coatings and cleanup materials employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined:
- the name and identification number of each coating and cleanup material employed;
 - the OC content of each coating and cleanup material employed, in pounds per gallon, as applied;
 - the volume, in gallons, of each coating and cleanup material employed;
 - the OC emission rate for each coating and cleanup material employed (A.III.2.b x A.III.2.c), in pounds.
 - for the first 12 months of operation under the provisions of this permit, the cumulative monthly OC emission rate for all coatings and cleanup materials employed (the summation of A.III.2.d for all coatings and cleanup materials), in tons;
 - after the first 12 months of operation under the provisions of this permit, the rolling, 12-month OC emissions, for all coatings and cleanup materials, in tons.

Note: The information required above must be recorded for the materials as applied, including any thinning solvents added at the emissions unit.

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

3. The permittee shall collect and record the following HAP information each month for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined:
- the name and identification number of each coating and cleanup material employed;
 - the amount of each individual HAP in each coating and cleanup material, in lbs/gallon, as applied;
 - the number of gallons of each coating and cleanup material employed;
 - the emission rate for each individual HAP from each coating and cleanup material employed (A.III.3.b x A.III.3.c) for each individual HAP, in lbs;
 - the total emission rate for each individual HAP from all the coatings and cleanup materials employed (for each individual HAP, the summation of A.III.3.d for all coatings and cleanup materials), in lbs;
 - the total HAP emission rate for all HAPs combined from all the coatings and cleanup materials employed (summation of A.III.3.e for all HAPs for all coatings and cleanup materials), in lbs;
 - for the first 12 months of operation under the provisions of this permit, the cumulative monthly emission rate of each individual HAP and all HAPs combined, in tons; and
 - after the first 12 months of operation under the provisions of this permit, the rolling, 12-month emissions of each individual HAP and all HAPs combined, in tons.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
4. The permittee shall maintain daily records that document any time periods when the dry filtration /water curtain system was not in service when the emissions unit was in operation.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify the following:
 - a. for the first 12 calendar months of operation under the provisions of this permit, all exceedances of the maximum allowable cumulative quantity of coating and cleanup material limitations specified in section A.II.1 (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).
 - b. after the first 12 months of operation under the provisions of this permit, all exceedances of the rolling, 12-month quantity of coatings and cleanup materials employed as specified in section A.II.1 (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).
 - c. for the first 12 calendar months of operation under the provisions of this permit, all exceedances of the maximum allowable cumulative individual HAP and combined HAPs emission limitations specified in section A.I.2.b (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).
 - d. after the first 12 months of operation under the provisions of this permit, all exceedances of the rolling, 12-month individual HAP and combined HAPs emission limitations of 9.90 tons and 24.90 tons, respectively (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).

These reports shall be submitted in accordance with the general terms and conditions of this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

2. The permittee shall notify the Director (the Ohio EPA, Northwest District Office) in writing of any monthly record showing the use of any cleanup material which exceeds an OC content of 7.34 lbs OC/gallon. These notifications 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.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
3. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any daily record showing that the dry filtration/water curtain system was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days after the event occurs.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

V. Testing Requirements

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

- 1.a Emission Limitation:
20.5 lbs OC/hr, from coatings operations

Applicable Compliance Method:

The hourly allowable OC emission limitation above represents the potential to emit for this emission unit and was established by multiplying the maximum hourly coatings usage rate (3.72 gallons per hour) by the maximum OC content of all the coatings (4.98 pounds per gallon).

If required, the permittee shall demonstrate compliance with the hourly allowable OC emission limitation above in accordance with 40 CFR Part 60 Appendix A, Methods 1 through 4 and 18, 25, or 25A, as appropriate.

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

V. Testing Requirements (continued)

- 1.b** Emission Limitation:
230.0 tons of OC per rolling, 12-month period, from coating and cleanup materials employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined.
- Applicable Compliance Method:
Compliance with the annual allowable OC emission limitation above shall be based upon the record keeping requirements specified in section A.III.2 of this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
- 1.c** Emission Limitation:
9.90 tons per rolling, 12- month period for any individual Hazardous Air Pollutant (HAP) and 24.90 tons per rolling, 12-month period for any combination of HAPs [for emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined]
- Applicable Compliance Method:
Compliance with the annual allowable HAP emission limitations above shall be based upon the record keeping requirements specified in section A.III.3 of this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
- 1.d** Emission Limitation:
The OC content of any cleanup material employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and/or R112 shall not exceed 7.34 lbs OC/gallon
- Applicable Compliance Method:
Compliance with the OC content limitation above shall be based upon the record keeping requirements specified in section A.III.2.b if this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
- 1.e** Emission Limitation:
0.551 pound PE per hour (per individual coating operation)
- Applicable Compliance Method:
To determine the actual worst case PE rate (E), the following equation shall be used for each individual coating operations:
- $E = PE \text{ rate (lbs/hr)}$
- $E = \text{maximum coating solids usage rate, in pounds per hour } (1-TE) \times (1-CE)$
- TE = transfer efficiency, which is the ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used
- CE = control efficiency of the control equipment (established at > 98%)
- If required, the permittee shall demonstrate compliance with the emission limitation above pursuant to OAC rule 3745-17-03(B)(10).
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
- 1.f** Emission Limitation:
Visible particulate emissions shall not exceed 20 percent opacity, as a six-minute average, except as provided by rule
- Applicable Compliance Method:
If required, compliance shall be determine in accordance with OAC rule 3745-17-03(B)(1).
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

Facility Name: **Jay Plastics**
Facility ID: **03-70-01-0058**
Emissions Unit: **Paint Line Clear Coat (R003)**

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>
Full Size Clear Coat - Binks clear coat spray booth with HVLP robotic application (plastic parts)	See B.III.1 through B.III.4	See B.III.1 through B.III.4

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permit to install for this emission unit 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: Toluene
 TLV: 50 ppm
 Maximum Hourly Emission Rate (lbs/hr): 1.85
 Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 66.7
 MAGLC (ug/m3): 8480

2. Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:
 - a. changes in the composition of the materials used (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;
 - b. 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
 - c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

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: Paint Line Base Coat (R004)
Activity Description: Base coating of plastic automotive trim parts

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>
Full Size Base Coat - Binks base coat spray booth with HVLP robotic application (plastic parts)	OAC rule 3745-31-05 (A)(3) (PTI 03-17180 issued April 3, 2007)	31.7 lbs organic compounds (OC)/hr from coating operations
	OAC rule 3745-31-05 (A)(3) (PTI 03-17260 issued May 17, 2007)	See A.I.2.a and A.I.2.c The OC content of any cleanup material employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and/or R112 shall not exceed 7.34 lbs OC/gallon.
	OAC rule 3745-31-05(C) (PTI 03-17260 issued May 17, 2007)	230 tons of OC per rolling, 12-month period from coating and cleanup materials employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined (See A.I.2.b.i and A.II.1)
	OAC rule 3745-17-11(B) OAC rule 3745-17-07(A)	9.90 tons per rolling, 12- month period for any individual Hazardous Air Pollutant (HAP) and 24.9 tons per rolling, 12-month period for any combination of HAPs [for emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined] (See A.I.2.b.ii.) 0.551 lb particulate emission (PE)/hr Visible particulate emissions shall not exceed 20 percent opacity, as a six-minute average, except as provided by rule

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	OAC rule 3745-21-07(G)(2)	See A.II.2

2. Additional Terms and Conditions

- 2.a** The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(C), OAC rule 3745-17-11(B), and OAC rule 3745-17-07(A).
- 2.b** The Permit to Install (PTI) established the following federally enforceable emission limitations for purposes of avoiding the applicability of Maximum Achievable Control Technology (MACT) regulations and establish the facility as a minor source for attainment New Source Review:
 - i. 230.0 tons of OC per rolling, 12-month period from the coating and cleanup operations [for emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined] based on a coating/cleanup usage restriction (See A.II.1). For purposes of federal enforceability an emission limitation on OC effectively limits emissions of volatile organic compounds (VOC).
 - ii. Annual HAP emissions from emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined, shall not exceed 9.90 tons per rolling, 12-month period for any individual HAP or 24.90 tons per rolling, 12-month period for any combination of HAPs.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the HAP emission rates specified in the following table:

Maximum Allowable Cumulative HAP Emission Rates (tons):		
Month(s)	Individual HAP	Combined HAPs
1-1	1.00	2.49
1-2	1.81	4.53
1-3	2.62	6.57
1-4	3.43	8.61
1-5	4.24	10.6
1-6	5.05	12.7
1-7	5.86	14.7
1-8	6.67	16.8
1-9	7.48	18.8
1-10	8.29	20.8
1-11	9.10	22.9
1-12	9.90	24.9

After the first 12 calendar months of operation under the provisions of this permit, compliance with the annual HAP limitations shall be based upon a rolling, 12-month summation of the monthly emission rates.

Hazardous Air Pollutant (HAP) means any air pollutant listed in or pursuant to Section 112 (b) of the Clean Air Act.

- 2.c** The hourly emission limitation of 31.7 lbs OC/hr from coating operations represents the potential to emit for this emissions unit. Therefore, no monitoring, record keeping, or reporting requirements are necessary to ensure compliance with this emission limitation.

II. Operational Restrictions

1. The maximum rolling, 12-month quantity of coatings and cleanup materials employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined, is limited by the following equation:

$$\text{sum}[M=1,12] \{ \text{sum}[i=1,n] (V_i G_i) \div 2000 \text{ lbs/ton} \} \leq 230.0$$

where,

M = the increment of the rolling 12-month period;

V_i = OC content in pounds per gallon of each coating/cleanup employed;

G_i = Gallons used of each coating and cleanup material for the rolling 12 month period

n = total number of unique coatings and cleanup materials employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112

To ensure enforceability during the first 12 calendar months of operation under the provisions of this permit, the maximum cumulative amount of coating and cleanup material employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined, shall not exceed the following rates:

Month	sum[M=1,12] {sum[i=1,n](V _i G _i) ÷ 2000 lbs/ton} <=
1	23.0
1-2	41.8
1-3	60.6
1-4	79.5
1-5	98.3
1-6	117
1-7	136
1-8	155
1-9	174
1-10	192
1-11	211
1-12	230

After the first 12 calendar months of operation under the provisions of this permit, compliance with the annual restriction on the amount coating and cleanup material shall be based upon a rolling, 12-month summation. [OAC rules 3745-77-07(A)(1) and 3745-31-05(A)(3)]

2. The use of photochemically reactive materials, as defined in OAC rule 3745-21-01, in this emissions unit is prohibited. [OAC rules 3745-77-07(A)(1) and 3745-31-05(A)(3)]
3. The permittee shall operate the dry filtration /water curtain system for the control of particulate emissions whenever this emissions unit is in operation. [OAC rules 3745-77-07(A)(1) and 3745-31-05(A)(3)]

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information each month coating and cleanup material employed in this emissions unit:
 - a. the name and company identification number for each coating and cleanup material employed;
 - b. documentation of whether or not each coating and cleanup material employed is a photochemically reactive material, as defined in OAC rule 3745-21-01. [OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

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

2. The permittee shall collect and record the following information each month for all coatings and cleanup materials employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined:
- the name and identification number of each coating and cleanup material employed;
 - the OC content of each coating and cleanup material employed, in pounds per gallon, as applied;
 - the volume, in gallons, of each coating and cleanup material employed;
 - the OC emission rate for each coating and cleanup material employed (A.III.2.b x A.III.2.c), in pounds.
 - for the first 12 months of operation under the provisions of this permit, the cumulative monthly OC emission rate for all coatings and cleanup materials employed (the summation of A.III.2.d for all coatings and cleanup materials), in tons;
 - after the first 12 months of operation under the provisions of this permit, the rolling, 12-month OC emissions, for all coatings and cleanup materials, in tons.

Note: The information required above must be recorded for the materials as applied, including any thinning solvents added at the emissions unit.

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

3. The permittee shall collect and record the following HAP information each month for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined:
- the name and identification number of each coating and cleanup material employed;
 - the amount of each individual HAP in each coating and cleanup material, in lbs/gallon, as applied;
 - the number of gallons of each coating and cleanup material employed;
 - the emission rate for each individual HAP from each coating and cleanup material employed (A.III.3.b x A.III.3.c) for each individual HAP, in lbs;
 - the total emission rate for each individual HAP from all the coatings and cleanup materials employed (for each individual HAP, the summation of A.III.3.d for all coatings and cleanup materials), in lbs;
 - the total HAP emission rate for all HAPs combined from all the coatings and cleanup materials employed (summation of A.III.3.e for all HAPs for all coatings and cleanup materials), in lbs;
 - for the first 12 months of operation under the provisions of this permit, the cumulative monthly emission rate of each individual HAP and all HAPs combined, in tons; and
 - after the first 12 months of operation under the provisions of this permit, the rolling, 12-month emissions of each individual HAP and all HAPs combined, in tons.
- [OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
4. The permittee shall maintain daily records that document any time periods when the dry filtration /water curtain system was not in service when the emissions unit was in operation.
- [OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify the following:
 - a. for the first 12 calendar months of operation under the provisions of this permit, all exceedances of the maximum allowable cumulative quantity of coating and cleanup material limitations specified in section A.II.1 (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).
 - b. after the first 12 months of operation under the provisions of this permit, all exceedances of the rolling, 12-month quantity of coatings and cleanup materials employed as specified in section A.II.1 (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).
 - c. for the first 12 calendar months of operation under the provisions of this permit, all exceedances of the maximum allowable cumulative individual HAP and combined HAPs emission limitations specified in section A.I.2.b (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).
 - d. after the first 12 months of operation under the provisions of this permit, all exceedances of the rolling, 12-month individual HAP and combined HAPs emission limitations of 9.90 tons and 24.90 tons, respectively (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).

These reports shall be submitted in accordance with the general terms and conditions of this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

2. The permittee shall notify the Director (the Ohio EPA, Northwest District Office) in writing of any monthly record showing the use of any cleanup material which exceeds an OC content of 7.34 lbs OC/gallon. These notifications 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.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
3. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any daily record showing that the dry filtration/water curtain system was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days after the event occurs.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

V. Testing Requirements

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

- 1.a Emission Limitation:
31.7 lbs OC/hr, from coatings operations

Applicable Compliance Method:

The hourly allowable OC emission limitation above represents the potential to emit for this emission unit and was established by multiplying the maximum hourly coatings usage rate (4.44 gallons per hour) by the maximum OC content of all the coatings (7.13 pounds per gallon).

If required, the permittee shall demonstrate compliance with the hourly allowable OC emission limitation above in accordance with 40 CFR Part 60 Appendix A, Methods 1 through 4 and 18, 25, or 25A, as appropriate.

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

V. Testing Requirements (continued)

- 1.b** Emission Limitation:
230.0 tons of OC per rolling, 12-month period, from coating and cleanup materials employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined.
- Applicable Compliance Method:
Compliance with the annual allowable OC emission limitation above shall be based upon the record keeping requirements specified in section A.III.2 of this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
- 1.c** Emission Limitation:
9.90 tons per rolling, 12- month period for any individual Hazardous Air Pollutant (HAP) and 24.90 tons per rolling, 12-month period for any combination of HAPs [for emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined]
- Applicable Compliance Method:
Compliance with the annual allowable HAP emission limitations above shall be based upon the record keeping requirements specified in section A.III.3 of this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
- 1.d** Emission Limitation:
The OC content of any cleanup material employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and/or R112 shall not exceed 7.34 lbs OC/gallon
- Applicable Compliance Method:
Compliance with the OC content limitation above shall be based upon the record keeping requirements specified in section A.III.2.b if this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
- 1.e** Emission Limitation:
0.551 pound PE per hour (per individual coating operation)
- Applicable Compliance Method:
To determine the actual worst case PE rate (E), the following equation shall be used for each individual coating operations:
- $E = PE \text{ rate (lbs/hr)}$
- $E = \text{maximum coating solids usage rate, in pounds per hour } (1-TE) \times (1-CE)$
- TE = transfer efficiency, which is the ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used
- CE = control efficiency of the control equipment (established at > 98%)
- If required, the permittee shall demonstrate compliance with the emission limitation above pursuant to OAC rule 3745-17-03(B)(10).
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
- 1.f** Emission Limitation:
Visible particulate emissions shall not exceed 20 percent opacity, as a six-minute average, except as provided by rule
- Applicable Compliance Method:
If required, compliance shall be determine in accordance with OAC rule 3745-17-03(B)(1).
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

Facility Name: **Jay Plastics**
Facility ID: **03-70-01-0058**
Emissions Unit: **Paint Line Base Coat (R004)**

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: Paint Line Primer Coat (R005)

Activity Description: Base coating of ash trays for the automotive industry

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>
Full Size Primer Coat - JBI Industries primer coating spray booth with HVLP robotic application (plastic parts)	OAC rule 3745-31-05 (A)(3) (PTI 03-17180 issued April 3, 2007)	23.2 lbs organic compounds (OC)/hr from coating operations
	OAC rule 3745-31-05 (A)(3) (PTI 03-17260 issued May 17, 2007)	See A.I.2.a and A.I.2.c The OC content of any cleanup material employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and/or R112 shall not exceed 7.34 lbs OC/gallon.
	OAC rule 3745-31-05(C) (PTI 03-17260 issued May 17, 2007)	230 tons of OC per rolling, 12-month period from coating and cleanup materials employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined (See A.I.2.b.i and A.II.1)
	OAC rule 3745-17-11(B)	9.90 tons per rolling, 12- month period for any individual Hazardous Air Pollutant (HAP) and 24.9 tons per rolling, 12-month period for any combination of HAPs [for emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined] (See A.I.2.b.ii.)
	OAC rule 3745-17-07(A)	0.551 lb particulate emission (PE)/hr Visible particulate emissions shall not exceed 20 percent opacity, as a six-minute average, except as provided by rule

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	OAC rule 3745-21-07(G)(2)	See A.II.2

2. Additional Terms and Conditions

- 2.a** The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(C), OAC rule 3745-17-11(B), and OAC rule 3745-17-07(A).
- 2.b** The Permit to Install (PTI) established the following federally enforceable emission limitations for purposes of avoiding the applicability of Maximum Achievable Control Technology (MACT) regulations and establish the facility as a minor source for attainment New Source Review:
 - i. 230.0 tons of OC per rolling, 12-month period from the coating and cleanup operations [for emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined] based on a coating/cleanup usage restriction (See A.II.1). For purposes of federal enforceability an emission limitation on OC effectively limits emissions of volatile organic compounds (VOC).
 - ii. Annual HAP emissions from emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined, shall not exceed 9.90 tons per rolling, 12-month period for any individual HAP or 24.90 tons per rolling, 12-month period for any combination of HAPs.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the HAP emission rates specified in the following table:

Maximum Allowable Cumulative HAP Emission Rates (tons):		
Month(s)	Individual HAP	Combined HAPs
1-1	1.00	2.49
1-2	1.81	4.53
1-3	2.62	6.57
1-4	3.43	8.61
1-5	4.24	10.6
1-6	5.05	12.7
1-7	5.86	14.7
1-8	6.67	16.8
1-9	7.48	18.8
1-10	8.29	20.8
1-11	9.10	22.9
1-12	9.90	24.9

After the first 12 calendar months of operation under the provisions of this permit, compliance with the annual HAP limitations shall be based upon a rolling, 12-month summation of the monthly emission rates.

Hazardous Air Pollutant (HAP) means any air pollutant listed in or pursuant to Section 112 (b) of the Clean Air Act.

- 2.c** The hourly emission limitation of 23.2 lbs OC/hr from coating operations represents the potential to emit for this emissions unit. Therefore, no monitoring, record keeping, or reporting requirements are necessary to ensure compliance with this emission limitation.

II. Operational Restrictions

1. The maximum rolling, 12-month quantity of coatings and cleanup materials employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined, is limited by the following equation:

$$\text{sum}[M=1,12] \{ \text{sum}[i=1,n] (V_i G_i) \div 2000 \text{ lbs/ton} \} \leq 230.0$$

where,

M = the increment of the rolling 12-month period;

V_i = OC content in pounds per gallon of each coating/cleanup employed;

G_i = Gallons used of each coating and cleanup material for the rolling 12 month period

n = total number of unique coatings and cleanup materials employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112

To ensure enforceability during the first 12 calendar months of operation under the provisions of this permit, the maximum cumulative amount of coating and cleanup material employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined, shall not exceed the following rates:

Month	sum[M=1,12] {sum[i=1,n](V _i G _i) ÷ 2000 lbs/ton} <=
1	23.0
1-2	41.8
1-3	60.6
1-4	79.5
1-5	98.3
1-6	117
1-7	136
1-8	155
1-9	174
1-10	192
1-11	211
1-12	230

After the first 12 calendar months of operation under the provisions of this permit, compliance with the annual restriction on the amount coating and cleanup material shall be based upon a rolling, 12-month summation. [OAC rules 3745-77-07(A)(1) and 3745-31-05(A)(3)]

2. The use of photochemically reactive materials, as defined in OAC rule 3745-21-01, in this emissions unit is prohibited. [OAC rules 3745-77-07(A)(1) and 3745-31-05(A)(3)]
3. The permittee shall operate the dry filtration /water curtain system for the control of particulate emissions whenever this emissions unit is in operation. [OAC rules 3745-77-07(A)(1) and 3745-31-05(A)(3)]

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information each month coating and cleanup material employed in this emissions unit:
 - a. the name and company identification number for each coating and cleanup material employed;
 - b. documentation of whether or not each coating and cleanup material employed is a photochemically reactive material, as defined in OAC rule 3745-21-01. [OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

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

2. The permittee shall collect and record the following information each month for all coatings and cleanup materials employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined:
- the name and identification number of each coating and cleanup material employed;
 - the OC content of each coating and cleanup material employed, in pounds per gallon, as applied;
 - the volume, in gallons, of each coating and cleanup material employed;
 - the OC emission rate for each coating and cleanup material employed (A.III.2.b x A.III.2.c), in pounds.
 - for the first 12 months of operation under the provisions of this permit, the cumulative monthly OC emission rate for all coatings and cleanup materials employed (the summation of A.III.2.d for all coatings and cleanup materials), in tons;
 - after the first 12 months of operation under the provisions of this permit, the rolling, 12-month OC emissions, for all coatings and cleanup materials, in tons.

Note: The information required above must be recorded for the materials as applied, including any thinning solvents added at the emissions unit.

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

3. The permittee shall collect and record the following HAP information each month for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined:
- the name and identification number of each coating and cleanup material employed;
 - the amount of each individual HAP in each coating and cleanup material, in lbs/gallon, as applied;
 - the number of gallons of each coating and cleanup material employed;
 - the emission rate for each individual HAP from each coating and cleanup material employed (A.III.3.b x A.III.3.c) for each individual HAP, in lbs;
 - the total emission rate for each individual HAP from all the coatings and cleanup materials employed (for each individual HAP, the summation of A.III.3.d for all coatings and cleanup materials), in lbs;
 - the total HAP emission rate for all HAPs combined from all the coatings and cleanup materials employed (summation of A.III.3.e for all HAPs for all coatings and cleanup materials), in lbs;
 - for the first 12 months of operation under the provisions of this permit, the cumulative monthly emission rate of each individual HAP and all HAPs combined, in tons; and
 - after the first 12 months of operation under the provisions of this permit, the rolling, 12-month emissions of each individual HAP and all HAPs combined, in tons.
- [OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
4. The permittee shall maintain daily records that document any time periods when the dry filtration /water curtain system was not in service when the emissions unit was in operation.
- [OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify the following:
 - a. for the first 12 calendar months of operation under the provisions of this permit, all exceedances of the maximum allowable cumulative quantity of coating and cleanup material limitations specified in section A.II.1 (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).
 - b. after the first 12 months of operation under the provisions of this permit, all exceedances of the rolling, 12-month quantity of coatings and cleanup materials employed as specified in section A.II.1 (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).
 - c. for the first 12 calendar months of operation under the provisions of this permit, all exceedances of the maximum allowable cumulative individual HAP and combined HAPs emission limitations specified in section A.I.2.b (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).
 - d. after the first 12 months of operation under the provisions of this permit, all exceedances of the rolling, 12-month individual HAP and combined HAPs emission limitations of 9.90 tons and 24.90 tons, respectively (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).

These reports shall be submitted in accordance with the general terms and conditions of this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

2. The permittee shall notify the Director (the Ohio EPA, Northwest District Office) in writing of any monthly record showing the use of any cleanup material which exceeds an OC content of 7.34 lbs OC/gallon. These notifications 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.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
3. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any daily record showing that the dry filtration/water curtain system was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days after the event occurs.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

V. Testing Requirements

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

- 1.a Emission Limitation:
23.2 lbs OC/hr, from coatings operations

Applicable Compliance Method:

The hourly allowable OC emission limitation above represents the potential to emit for this emission unit and was established by multiplying the maximum hourly coatings usage rate (3.48 gallons per hour) by the maximum OC content of all the coatings (6.67 pounds per gallon).

If required, the permittee shall demonstrate compliance with the hourly allowable OC emission limitation above in accordance with 40 CFR Part 60 Appendix A, Methods 1 through 4 and 18, 25, or 25A, as appropriate.

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

V. Testing Requirements (continued)

- 1.b** Emission Limitation:
230.0 tons of OC per rolling, 12-month period, from coating and cleanup materials employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined.
- Applicable Compliance Method:
Compliance with the annual allowable OC emission limitation above shall be based upon the record keeping requirements specified in section A.III.2 of this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
- 1.c** Emission Limitation:
9.90 tons per rolling, 12- month period for any individual Hazardous Air Pollutant (HAP) and 24.90 tons per rolling, 12-month period for any combination of HAPs [for emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined]
- Applicable Compliance Method:
Compliance with the annual allowable HAP emission limitations above shall be based upon the record keeping requirements specified in section A.III.3 of this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
- 1.d** Emission Limitation:
The OC content of any cleanup material employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and/or R112 shall not exceed 7.34 lbs OC/gallon
- Applicable Compliance Method:
Compliance with the OC content limitation above shall be based upon the record keeping requirements specified in section A.III.2.b if this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
- 1.e** Emission Limitation:
0.551 pound PE per hour (per individual coating operation)
- Applicable Compliance Method:
To determine the actual worst case PE rate (E), the following equation shall be used for each individual coating operations:
- $E = PE \text{ rate (lbs/hr)}$
- $E = \text{maximum coating solids usage rate, in pounds per hour } (1-TE) \times (1-CE)$
- TE = transfer efficiency, which is the ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used
- CE = control efficiency of the control equipment (established at > 98%)
- If required, the permittee shall demonstrate compliance with the emission limitation above pursuant to OAC rule 3745-17-03(B)(10).
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
- 1.f** Emission Limitation:
Visible particulate emissions shall not exceed 20 percent opacity, as a six-minute average, except as provided by rule
- Applicable Compliance Method:
If required, compliance shall be determine in accordance with OAC rule 3745-17-03(B)(1).
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

Facility Name: **Jay Plastics**
Facility ID: **03-70-01-0058**
Emissions Unit: **Paint Line Primer Coat (R005)**

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>
Full Size Primer Coat - JBI Industries primer coating spray booth with HVLP robotic application (plastic parts)	See B.III.1 through B.III.4	See B.III.1 through B.III.4

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permit to install for this emission unit 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: Toluene
 TLV: 50 ppm
 Maximum Hourly Emission Rate (lbs/hr): 0.95
 Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 483
 MAGLC (ug/m3): 8480

2. Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:
 - a. changes in the composition of the materials used (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;
 - b. 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
 - c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

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: E-Brite #2 Line (R006)

Activity Description: Base coating of miscellaneous plastic parts

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>
E-Brite No. 2 Base Coat - Binks base coat spray booth with HVLP robotic application	OAC rule 3745-31-05 (A)(3) (PTI 03-17180 issued April 3, 2007)	9.79 lbs organic compounds (OC)/hr from coating operations
		See A.I.2.a and A.I.2.c
	OAC rule 3745-31-05 (A)(3) (PTI 03-17260 issued May 17, 2007)	The OC content of any cleanup material employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and/or R112 shall not exceed 7.34 lbs OC/gallon.
	OAC rule 3745-31-05(C) (PTI 03-17260 issued May 17, 2007)	230 tons of OC per rolling, 12-month period from coating and cleanup materials employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined (See A.I.2.b.i and A.II.1)
		9.90 tons per rolling, 12-month period for any individual Hazardous Air Pollutant (HAP) and 24.9 tons per rolling, 12-month period for any combination of HAPs [for emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined] (See A.I.2.b.ii.)
	OAC rule 3745-17-11(B)	0.551 lb particulate emission (PE)/hr
	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20 percent opacity, as a six-minute average, except as provided by rule

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	OAC rule 3745-21-07(G)(2)	See A.II.2

2. Additional Terms and Conditions

- 2.a** The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(C), OAC rule 3745-17-11(B), and OAC rule 3745-17-07(A).
- 2.b** The Permit to Install (PTI) established the following federally enforceable emission limitations for purposes of avoiding the applicability of Maximum Achievable Control Technology (MACT) regulations and establish the facility as a minor source for attainment New Source Review:
 - i. 230.0 tons of OC per rolling, 12-month period from the coating and cleanup operations [for emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined] based on a coating/cleanup usage restriction (See A.II.1). For purposes of federal enforceability an emission limitation on OC effectively limits emissions of volatile organic compounds (VOC).
 - ii. Annual HAP emissions from emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined, shall not exceed 9.90 tons per rolling, 12-month period for any individual HAP or 24.90 tons per rolling, 12-month period for any combination of HAPs.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the HAP emission rates specified in the following table:

Maximum Allowable Cumulative HAP Emission Rates (tons):		
Month(s)	Individual HAP	Combined HAPs
1-1	1.00	2.49
1-2	1.81	4.53
1-3	2.62	6.57
1-4	3.43	8.61
1-5	4.24	10.6
1-6	5.05	12.7
1-7	5.86	14.7
1-8	6.67	16.8
1-9	7.48	18.8
1-10	8.29	20.8
1-11	9.10	22.9
1-12	9.90	24.9

After the first 12 calendar months of operation under the provisions of this permit, compliance with the annual HAP limitations shall be based upon a rolling, 12-month summation of the monthly emission rates.

Hazardous Air Pollutant (HAP) means any air pollutant listed in or pursuant to Section 112 (b) of the Clean Air Act.

- 2.c** The hourly emission limitation of 9.79 lbs OC/hr from coating operations represents the potential to emit for this emissions unit. Therefore, no monitoring, record keeping, or reporting requirements are necessary to ensure compliance with this emission limitation.

II. Operational Restrictions

1. The maximum rolling, 12-month quantity of coatings and cleanup materials employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined, is limited by the following equation:

$$\text{sum}[M=1,12] \{ \text{sum}[i=1,n] (V_i G_i) \div 2000 \text{ lbs/ton} \} \leq 230.0$$

where,

M = the increment of the rolling 12-month period;

V_i = OC content in pounds per gallon of each coating/cleanup employed;

G_i = Gallons used of each coating and cleanup material for the rolling 12 month period

n = total number of unique coatings and cleanup materials employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112

To ensure enforceability during the first 12 calendar months of operation under the provisions of this permit, the maximum cumulative amount of coating and cleanup material employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined, shall not exceed the following rates:

Month	sum[M=1,12] {sum[i=1,n](V _i G _i) ÷ 2000 lbs/ton} <=
1	23.0
1-2	41.8
1-3	60.6
1-4	79.5
1-5	98.3
1-6	117
1-7	136
1-8	155
1-9	174
1-10	192
1-11	211
1-12	230

After the first 12 calendar months of operation under the provisions of this permit, compliance with the annual restriction on the amount coating and cleanup material shall be based upon a rolling, 12-month summation. [OAC rules 3745-77-07(A)(1) and 3745-31-05(A)(3)]

2. The use of photochemically reactive materials, as defined in OAC rule 3745-21-01, in this emissions unit is prohibited. [OAC rules 3745-77-07(A)(1) and 3745-31-05(A)(3)]
3. The permittee shall operate the dry filtration /water curtain system for the control of particulate emissions whenever this emissions unit is in operation. [OAC rules 3745-77-07(A)(1) and 3745-31-05(A)(3)]

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information each month coating and cleanup material employed in this emissions unit:
 - a. the name and company identification number for each coating and cleanup material employed;
 - b. documentation of whether or not each coating and cleanup material employed is a photochemically reactive material, as defined in OAC rule 3745-21-01. [OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

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

2. The permittee shall collect and record the following information each month for all coatings and cleanup materials employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined:
- the name and identification number of each coating and cleanup material employed;
 - the OC content of each coating and cleanup material employed, in pounds per gallon, as applied;
 - the volume, in gallons, of each coating and cleanup material employed;
 - the OC emission rate for each coating and cleanup material employed (A.III.2.b x A.III.2.c), in pounds.
 - for the first 12 months of operation under the provisions of this permit, the cumulative monthly OC emission rate for all coatings and cleanup materials employed (the summation of A.III.2.d for all coatings and cleanup materials), in tons;
 - after the first 12 months of operation under the provisions of this permit, the rolling, 12-month OC emissions, for all coatings and cleanup materials, in tons.

Note: The information required above must be recorded for the materials as applied, including any thinning solvents added at the emissions unit.

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

3. The permittee shall collect and record the following HAP information each month for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined:
- the name and identification number of each coating and cleanup material employed;
 - the amount of each individual HAP in each coating and cleanup material, in lbs/gallon, as applied;
 - the number of gallons of each coating and cleanup material employed;
 - the emission rate for each individual HAP from each coating and cleanup material employed (A.III.3.b x A.III.3.c) for each individual HAP, in lbs;
 - the total emission rate for each individual HAP from all the coatings and cleanup materials employed (for each individual HAP, the summation of A.III.3.d for all coatings and cleanup materials), in lbs;
 - the total HAP emission rate for all HAPs combined from all the coatings and cleanup materials employed (summation of A.III.3.e for all HAPs for all coatings and cleanup materials), in lbs;
 - for the first 12 months of operation under the provisions of this permit, the cumulative monthly emission rate of each individual HAP and all HAPs combined, in tons; and
 - after the first 12 months of operation under the provisions of this permit, the rolling, 12-month emissions of each individual HAP and all HAPs combined, in tons.
- [OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
4. The permittee shall maintain daily records that document any time periods when the dry filtration /water curtain system was not in service when the emissions unit was in operation.
- [OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify the following:
 - a. for the first 12 calendar months of operation under the provisions of this permit, all exceedances of the maximum allowable cumulative quantity of coating and cleanup material limitations specified in section A.II.1 (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).
 - b. after the first 12 months of operation under the provisions of this permit, all exceedances of the rolling, 12-month quantity of coatings and cleanup materials employed as specified in section A.II.1 (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).
 - c. for the first 12 calendar months of operation under the provisions of this permit, all exceedances of the maximum allowable cumulative individual HAP and combined HAPs emission limitations specified in section A.I.2.b (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).
 - d. after the first 12 months of operation under the provisions of this permit, all exceedances of the rolling, 12-month individual HAP and combined HAPs emission limitations of 9.90 tons and 24.90 tons, respectively (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).

These reports shall be submitted in accordance with the general terms and conditions of this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

2. The permittee shall notify the Director (the Ohio EPA, Northwest District Office) in writing of any monthly record showing the use of any cleanup material which exceeds an OC content of 7.34 lbs OC/gallon. These notifications 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.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
3. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any daily record showing that the dry filtration/water curtain system was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days after the event occurs.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

V. Testing Requirements

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

- 1.a Emission Limitation:
9.79 lbs OC/hr, from coatings operations

Applicable Compliance Method:

The hourly allowable OC emission limitation above represents the potential to emit for this emission unit and was established by multiplying the maximum hourly coatings usage rate (1.80 gallons per hour) by the maximum OC content of all the coatings (5.44 pounds per gallon).

If required, the permittee shall demonstrate compliance with the hourly allowable OC emission limitation above in accordance with 40 CFR Part 60 Appendix A, Methods 1 through 4 and 18, 25, or 25A, as appropriate.

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

V. Testing Requirements (continued)

1.b Emission Limitation:

230.0 tons of OC per rolling, 12-month period, from coating and cleanup materials employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined.

Applicable Compliance Method:

Compliance with the annual allowable OC emission limitation above shall be based upon the record keeping requirements specified in section A.III.2 of this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

1.c Emission Limitation:

9.90 tons per rolling, 12- month period for any individual Hazardous Air Pollutant (HAP) and 24.90 tons per rolling, 12-month period for any combination of HAPs [for emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined]

Applicable Compliance Method:

Compliance with the annual allowable HAP emission limitations above shall be based upon the record keeping requirements specified in section A.III.3 of this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

1.d Emission Limitation:

The OC content of any cleanup material employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and/or R112 shall not exceed 7.34 lbs OC/gallon

Applicable Compliance Method:

Compliance with the OC content limitation above shall be based upon the record keeping requirements specified in section A.III.2.b if this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

1.e Emission Limitation:

0.551 pound PE per hour (per individual coating operation)

Applicable Compliance Method:

To determine the actual worst case PE rate (E), the following equation shall be used for each individual coating operations:

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

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

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

CE = control efficiency of the control equipment (established at > 98%)

If required, the permittee shall demonstrate compliance with the emission limitation above pursuant to OAC rule 3745-17-03(B)(10).

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

1.f Emission Limitation:

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

Applicable Compliance Method:

If required, compliance shall be determine in accordance with OAC rule 3745-17-03(B)(1).

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

Facility Name: **Jay Plastics**
Facility ID: **03-70-01-0058**
Emissions Unit: **E-Brite #2 Line (R006)**

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: E-Brite #1 Line (R007)

Activity Description: Base coating of miscellaneous plastic parts

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>
E-Brite No. 1 Base Coat - Binks base coat spray booth with HVLP robotic application (plastic parts)	OAC rule 3745-31-05 (A)(3) (PTI 03-17180 issued April 3, 2007)	8.48 lbs organic compounds (OC)/hr from coating operations
	OAC rule 3745-31-05 (A)(3) (PTI 03-17260 issued May 17, 2007)	See A.I.2.a and A.I.2.c The OC content of any cleanup material employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and/or R112 shall not exceed 7.34 lbs OC/gallon.
	OAC rule 3745-31-05(C) (PTI 03-17260 issued May 17, 2007)	230 tons of OC per rolling, 12-month period from coating and cleanup materials employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined (See A.I.2.b.i and A.II.1)
	OAC rule 3745-17-11(B) OAC rule 3745-17-07(A)	9.90 tons per rolling, 12- month period for any individual Hazardous Air Pollutant (HAP) and 24.9 tons per rolling, 12-month period for any combination of HAPs [for emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined] (See A.I.2.b.ii.) 0.551 lb particulate emission (PE)/hr Visible particulate emissions shall not exceed 20 percent opacity, as a six-minute average, except as provided by rule

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	OAC rule 3745-21-07(G)(2)	See A.II.2

2. Additional Terms and Conditions

- 2.a** The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(C), OAC rule 3745-17-11(B), and OAC rule 3745-17-07(A).
- 2.b** The Permit to Install (PTI) established the following federally enforceable emission limitations for purposes of avoiding the applicability of Maximum Achievable Control Technology (MACT) regulations and establish the facility as a minor source for attainment New Source Review:
 - i. 230.0 tons of OC per rolling, 12-month period from the coating and cleanup operations [for emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined] based on a coating/cleanup usage restriction (See A.II.1). For purposes of federal enforceability an emission limitation on OC effectively limits emissions of volatile organic compounds (VOC).
 - ii. Annual HAP emissions from emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined, shall not exceed 9.90 tons per rolling, 12-month period for any individual HAP or 24.90 tons per rolling, 12-month period for any combination of HAPs.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the HAP emission rates specified in the following table:

Maximum Allowable Cumulative HAP Emission Rates (tons):		
Month(s)	Individual HAP	Combined HAPs
1-1	1.00	2.49
1-2	1.81	4.53
1-3	2.62	6.57
1-4	3.43	8.61
1-5	4.24	10.6
1-6	5.05	12.7
1-7	5.86	14.7
1-8	6.67	16.8
1-9	7.48	18.8
1-10	8.29	20.8
1-11	9.10	22.9
1-12	9.90	24.9

After the first 12 calendar months of operation under the provisions of this permit, compliance with the annual HAP limitations shall be based upon a rolling, 12-month summation of the monthly emission rates.

Hazardous Air Pollutant (HAP) means any air pollutant listed in or pursuant to Section 112 (b) of the Clean Air Act.

- 2.c** The hourly emission limitation of 8.48 lbs OC/hr from coating operations represents the potential to emit for this emissions unit. Therefore, no monitoring, record keeping, or reporting requirements are necessary to ensure compliance with this emission limitation.

II. Operational Restrictions

1. The maximum rolling, 12-month quantity of coatings and cleanup materials employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined, is limited by the following equation:

$$\text{sum}[M=1,12] \{ \text{sum}[i=1,n] (V_i G_i) \div 2000 \text{ lbs/ton} \} \leq 230.0$$

where,

M = the increment of the rolling 12-month period;

V_i = OC content in pounds per gallon of each coating/cleanup employed;

G_i = Gallons used of each coating and cleanup material for the rolling 12 month period

n = total number of unique coatings and cleanup materials employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112

To ensure enforceability during the first 12 calendar months of operation under the provisions of this permit, the maximum cumulative amount of coating and cleanup material employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined, shall not exceed the following rates:

Month	sum[M=1,12] {sum[i=1,n](V _i G _i) ÷ 2000 lbs/ton} <=
1	23.0
1-2	41.8
1-3	60.6
1-4	79.5
1-5	98.3
1-6	117
1-7	136
1-8	155
1-9	174
1-10	192
1-11	211
1-12	230

After the first 12 calendar months of operation under the provisions of this permit, compliance with the annual restriction on the amount coating and cleanup material shall be based upon a rolling, 12-month summation. [OAC rules 3745-77-07(A)(1) and 3745-31-05(A)(3)]

2. The use of photochemically reactive materials, as defined in OAC rule 3745-21-01, in this emissions unit is prohibited. [OAC rules 3745-77-07(A)(1) and 3745-31-05(A)(3)]
3. The permittee shall operate the dry filtration /water curtain system for the control of particulate emissions whenever this emissions unit is in operation. [OAC rules 3745-77-07(A)(1) and 3745-31-05(A)(3)]

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information each month coating and cleanup material employed in this emissions unit:
 - a. the name and company identification number for each coating and cleanup material employed;
 - b. documentation of whether or not each coating and cleanup material employed is a photochemically reactive material, as defined in OAC rule 3745-21-01. [OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

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

2. The permittee shall collect and record the following information each month for all coatings and cleanup materials employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined:
- the name and identification number of each coating and cleanup material employed;
 - the OC content of each coating and cleanup material employed, in pounds per gallon, as applied;
 - the volume, in gallons, of each coating and cleanup material employed;
 - the OC emission rate for each coating and cleanup material employed (A.III.2.b x A.III.2.c), in pounds.
 - for the first 12 months of operation under the provisions of this permit, the cumulative monthly OC emission rate for all coatings and cleanup materials employed (the summation of A.III.2.d for all coatings and cleanup materials), in tons;
 - after the first 12 months of operation under the provisions of this permit, the rolling, 12-month OC emissions, for all coatings and cleanup materials, in tons.

Note: The information required above must be recorded for the materials as applied, including any thinning solvents added at the emissions unit.

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

3. The permittee shall collect and record the following HAP information each month for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined:
- the name and identification number of each coating and cleanup material employed;
 - the amount of each individual HAP in each coating and cleanup material, in lbs/gallon, as applied;
 - the number of gallons of each coating and cleanup material employed;
 - the emission rate for each individual HAP from each coating and cleanup material employed (A.III.3.b x A.III.3.c) for each individual HAP, in lbs;
 - the total emission rate for each individual HAP from all the coatings and cleanup materials employed (for each individual HAP, the summation of A.III.3.d for all coatings and cleanup materials), in lbs;
 - the total HAP emission rate for all HAPs combined from all the coatings and cleanup materials employed (summation of A.III.3.e for all HAPs for all coatings and cleanup materials), in lbs;
 - for the first 12 months of operation under the provisions of this permit, the cumulative monthly emission rate of each individual HAP and all HAPs combined, in tons; and
 - after the first 12 months of operation under the provisions of this permit, the rolling, 12-month emissions of each individual HAP and all HAPs combined, in tons.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
4. The permittee shall maintain daily records that document any time periods when the dry filtration /water curtain system was not in service when the emissions unit was in operation.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify the following:
 - a. for the first 12 calendar months of operation under the provisions of this permit, all exceedances of the maximum allowable cumulative quantity of coating and cleanup material limitations specified in section A.II.1 (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).
 - b. after the first 12 months of operation under the provisions of this permit, all exceedances of the rolling, 12-month quantity of coatings and cleanup materials employed as specified in section A.II.1 (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).
 - c. for the first 12 calendar months of operation under the provisions of this permit, all exceedances of the maximum allowable cumulative individual HAP and combined HAPs emission limitations specified in section A.I.2.b (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).
 - d. after the first 12 months of operation under the provisions of this permit, all exceedances of the rolling, 12-month individual HAP and combined HAPs emission limitations of 9.90 tons and 24.90 tons, respectively (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).

These reports shall be submitted in accordance with the general terms and conditions of this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

2. The permittee shall notify the Director (the Ohio EPA, Northwest District Office) in writing of any monthly record showing the use of any cleanup material which exceeds an OC content of 7.34 lbs OC/gallon. These notifications 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.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
3. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any daily record showing that the dry filtration/water curtain system was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days after the event occurs.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

V. Testing Requirements

1. Compliance with the emission limitations in Section A.I. of these terms and conditions shall be determined in accordance with the following methods:
 - 1.a Emission Limitation:
8.48 lbs OC/hr, from coatings operations

Applicable Compliance Method:

The hourly allowable OC emission limitation above represents the potential to emit for this emission unit and was established by multiplying the maximum hourly coatings usage rate (1.56 gallons per hour) by the maximum OC content of all the coatings (5.44 pounds per gallon).

If required, the permittee shall demonstrate compliance with the hourly allowable OC emission limitation above in accordance with 40 CFR Part 60 Appendix A, Methods 1 through 4 and 18, 25, or 25A, as appropriate.

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

V. Testing Requirements (continued)

- 1.b** Emission Limitation:
230.0 tons of OC per rolling, 12-month period, from coating and cleanup materials employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined.
- Applicable Compliance Method:
Compliance with the annual allowable OC emission limitation above shall be based upon the record keeping requirements specified in section A.III.2 of this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
- 1.c** Emission Limitation:
9.90 tons per rolling, 12- month period for any individual Hazardous Air Pollutant (HAP) and 24.90 tons per rolling, 12-month period for any combination of HAPs [for emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined]
- Applicable Compliance Method:
Compliance with the annual allowable HAP emission limitations above shall be based upon the record keeping requirements specified in section A.III.3 of this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
- 1.d** Emission Limitation:
The OC content of any cleanup material employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and/or R112 shall not exceed 7.34 lbs OC/gallon
- Applicable Compliance Method:
Compliance with the OC content limitation above shall be based upon the record keeping requirements specified in section A.III.2.b if this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
- 1.e** Emission Limitation:
0.551 pound PE per hour (per individual coating operation)
- Applicable Compliance Method:
To determine the actual worst case PE rate (E), the following equation shall be used for each individual coating operations:
- $E = PE \text{ rate (lbs/hr)}$
- $E = \text{maximum coating solids usage rate, in pounds per hour } (1-TE) \times (1-CE)$
- TE = transfer efficiency, which is the ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used
- CE = control efficiency of the control equipment (established at > 98%)
- If required, the permittee shall demonstrate compliance with the emission limitation above pursuant to OAC rule 3745-17-03(B)(10).
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
- 1.f** Emission Limitation:
Visible particulate emissions shall not exceed 20 percent opacity, as a six-minute average, except as provided by rule
- Applicable Compliance Method:
If required, compliance shall be determine in accordance with OAC rule 3745-17-03(B)(1).
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

Facility Name: **Jay Plastics**
Facility ID: **03-70-01-0058**
Emissions Unit: **E-Brite #1 Line (R007)**

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: Paint Line Base Coat (R008)
Activity Description: J-Car Line coating booth - base coating

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>
J-Car Base Coat - TBI Industries Base coat spray booth with HVLP robotic application (plastic parts)	OAC rule 3745-31-05 (A)(3) (PTI 03-17180 issued April 3, 2007)	40.3 lbs organic compounds (OC)/hr from coating operations
	OAC rule 3745-31-05 (A)(3) (PTI 03-17260 issued May 17, 2007)	See A.I.2.a and A.I.2.c The OC content of any cleanup material employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and/or R112 shall not exceed 7.34 lbs OC/gallon.
	OAC rule 3745-31-05(C) (PTI 03-17260 issued May 17, 2007)	230 tons of OC per rolling, 12-month period from coating and cleanup materials employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined (See A.I.2.b.i and A.II.1)
	OAC rule 3745-17-11(B)	9.90 tons per rolling, 12- month period for any individual Hazardous Air Pollutant (HAP) and 24.9 tons per rolling, 12-month period for any combination of HAPs [for emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined] (See A.I.2.b.ii.)
	OAC rule 3745-17-07(A)	0.551 lb particulate emission (PE)/hr Visible particulate emissions shall not exceed 20 percent opacity, as a six-minute average, except as provided by rule

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	OAC rule 3745-21-07(G)(2)	See A.II.2

2. Additional Terms and Conditions

- 2.a** The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(C), OAC rule 3745-17-11(B), and OAC rule 3745-17-07(A).
- 2.b** The Permit to Install (PTI) established the following federally enforceable emission limitations for purposes of avoiding the applicability of Maximum Achievable Control Technology (MACT) regulations and establish the facility as a minor source for attainment New Source Review:
 - i. 230.0 tons of OC per rolling, 12-month period from the coating and cleanup operations [for emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined] based on a coating/cleanup usage restriction (See A.II.1). For purposes of federal enforceability an emission limitation on OC effectively limits emissions of volatile organic compounds (VOC).
 - ii. Annual HAP emissions from emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined, shall not exceed 9.90 tons per rolling, 12-month period for any individual HAP or 24.90 tons per rolling, 12-month period for any combination of HAPs.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the HAP emission rates specified in the following table:

Maximum Allowable Cumulative HAP Emission Rates (tons):		
Month(s)	Individual HAP	Combined HAPs
1-1	1.00	2.49
1-2	1.81	4.53
1-3	2.62	6.57
1-4	3.43	8.61
1-5	4.24	10.6
1-6	5.05	12.7
1-7	5.86	14.7
1-8	6.67	16.8
1-9	7.48	18.8
1-10	8.29	20.8
1-11	9.10	22.9
1-12	9.90	24.9

After the first 12 calendar months of operation under the provisions of this permit, compliance with the annual HAP limitations shall be based upon a rolling, 12-month summation of the monthly emission rates.

Hazardous Air Pollutant (HAP) means any air pollutant listed in or pursuant to Section 112 (b) of the Clean Air Act.

- 2.c** The hourly emission limitation of 40.3 lbs OC/hr from coating operations represents the potential to emit for this emissions unit. Therefore, no monitoring, record keeping, or reporting requirements are necessary to ensure compliance with this emission limitation.

II. Operational Restrictions

1. The maximum rolling, 12-month quantity of coatings and cleanup materials employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined, is limited by the following equation:

$$\text{sum}[M=1,12] \{ \text{sum}[i=1,n] (V_i G_i) \div 2000 \text{ lbs/ton} \} \leq 230.0$$

where,

M = the increment of the rolling 12-month period;

V_i = OC content in pounds per gallon of each coating/cleanup employed;

G_i = Gallons used of each coating and cleanup material for the rolling 12 month period

n = total number of unique coatings and cleanup materials employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112

To ensure enforceability during the first 12 calendar months of operation under the provisions of this permit, the maximum cumulative amount of coating and cleanup material employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined, shall not exceed the following rates:

Month	sum[M=1,12] {sum[i=1,n](V _i G _i) ÷ 2000 lbs/ton} <=
1	23.0
1-2	41.8
1-3	60.6
1-4	79.5
1-5	98.3
1-6	117
1-7	136
1-8	155
1-9	174
1-10	192
1-11	211
1-12	230

After the first 12 calendar months of operation under the provisions of this permit, compliance with the annual restriction on the amount coating and cleanup material shall be based upon a rolling, 12-month summation. [OAC rules 3745-77-07(A)(1) and 3745-31-05(A)(3)]

2. The use of photochemically reactive materials, as defined in OAC rule 3745-21-01, in this emissions unit is prohibited. [OAC rules 3745-77-07(A)(1) and 3745-31-05(A)(3)]
3. The permittee shall operate the dry filtration /water curtain system for the control of particulate emissions whenever this emissions unit is in operation. [OAC rules 3745-77-07(A)(1) and 3745-31-05(A)(3)]

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information each month coating and cleanup material employed in this emissions unit:
 - a. the name and company identification number for each coating and cleanup material employed;
 - b. documentation of whether or not each coating and cleanup material employed is a photochemically reactive material, as defined in OAC rule 3745-21-01. [OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

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

2. The permittee shall collect and record the following information each month for all coatings and cleanup materials employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined:
- the name and identification number of each coating and cleanup material employed;
 - the OC content of each coating and cleanup material employed, in pounds per gallon, as applied;
 - the volume, in gallons, of each coating and cleanup material employed;
 - the OC emission rate for each coating and cleanup material employed (A.III.2.b x A.III.2.c), in pounds.
 - for the first 12 months of operation under the provisions of this permit, the cumulative monthly OC emission rate for all coatings and cleanup materials employed (the summation of A.III.2.d for all coatings and cleanup materials), in tons;
 - after the first 12 months of operation under the provisions of this permit, the rolling, 12-month OC emissions, for all coatings and cleanup materials, in tons.

Note: The information required above must be recorded for the materials as applied, including any thinning solvents added at the emissions unit.

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

3. The permittee shall collect and record the following HAP information each month for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined:
- the name and identification number of each coating and cleanup material employed;
 - the amount of each individual HAP in each coating and cleanup material, in lbs/gallon, as applied;
 - the number of gallons of each coating and cleanup material employed;
 - the emission rate for each individual HAP from each coating and cleanup material employed (A.III.3.b x A.III.3.c) for each individual HAP, in lbs;
 - the total emission rate for each individual HAP from all the coatings and cleanup materials employed (for each individual HAP, the summation of A.III.3.d for all coatings and cleanup materials), in lbs;
 - the total HAP emission rate for all HAPs combined from all the coatings and cleanup materials employed (summation of A.III.3.e for all HAPs for all coatings and cleanup materials), in lbs;
 - for the first 12 months of operation under the provisions of this permit, the cumulative monthly emission rate of each individual HAP and all HAPs combined, in tons; and
 - after the first 12 months of operation under the provisions of this permit, the rolling, 12-month emissions of each individual HAP and all HAPs combined, in tons.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
4. The permittee shall maintain daily records that document any time periods when the dry filtration /water curtain system was not in service when the emissions unit was in operation.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify the following:
 - a. for the first 12 calendar months of operation under the provisions of this permit, all exceedances of the maximum allowable cumulative quantity of coating and cleanup material limitations specified in section A.II.1 (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).
 - b. after the first 12 months of operation under the provisions of this permit, all exceedances of the rolling, 12-month quantity of coatings and cleanup materials employed as specified in section A.II.1 (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).
 - c. for the first 12 calendar months of operation under the provisions of this permit, all exceedances of the maximum allowable cumulative individual HAP and combined HAPs emission limitations specified in section A.I.2.b (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).
 - d. after the first 12 months of operation under the provisions of this permit, all exceedances of the rolling, 12-month individual HAP and combined HAPs emission limitations of 9.90 tons and 24.90 tons, respectively (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).

These reports shall be submitted in accordance with the general terms and conditions of this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

2. The permittee shall notify the Director (the Ohio EPA, Northwest District Office) in writing of any monthly record showing the use of any cleanup material which exceeds an OC content of 7.34 lbs OC/gallon. These notifications 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.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
3. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any daily record showing that the dry filtration/water curtain system was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days after the event occurs.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

V. Testing Requirements

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

- 1.a Emission Limitation:
40.3 lbs OC/hr, from coatings operations

Applicable Compliance Method:

The hourly allowable OC emission limitation above represents the potential to emit for this emission unit and was established by multiplying the maximum hourly coatings usage rate (6.48 gallons per hour) by the maximum OC content of all the coatings (6.22 pounds per gallon).

If required, the permittee shall demonstrate compliance with the hourly allowable OC emission limitation above in accordance with 40 CFR Part 60 Appendix A, Methods 1 through 4 and 18, 25, or 25A, as appropriate.

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

V. Testing Requirements (continued)

- 1.b** Emission Limitation:
230.0 tons of OC per rolling, 12-month period, from coating and cleanup materials employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined.
- Applicable Compliance Method:
Compliance with the annual allowable OC emission limitation above shall be based upon the record keeping requirements specified in section A.III.2 of this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
- 1.c** Emission Limitation:
9.90 tons per rolling, 12- month period for any individual Hazardous Air Pollutant (HAP) and 24.90 tons per rolling, 12-month period for any combination of HAPs [for emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined]
- Applicable Compliance Method:
Compliance with the annual allowable HAP emission limitations above shall be based upon the record keeping requirements specified in section A.III.3 of this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
- 1.d** Emission Limitation:
The OC content of any cleanup material employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and/or R112 shall not exceed 7.34 lbs OC/gallon
- Applicable Compliance Method:
Compliance with the OC content limitation above shall be based upon the record keeping requirements specified in section A.III.2.b if this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
- 1.e** Emission Limitation:
0.551 pound PE per hour (per individual coating operation)
- Applicable Compliance Method:
To determine the actual worst case PE rate (E), the following equation shall be used for each individual coating operations:
- $E = PE \text{ rate (lbs/hr)}$
- $E = \text{maximum coating solids usage rate, in pounds per hour } (1-TE) \times (1-CE)$
- TE = transfer efficiency, which is the ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used
- CE = control efficiency of the control equipment (established at > 98%)
- If required, the permittee shall demonstrate compliance with the emission limitation above pursuant to OAC rule 3745-17-03(B)(10).
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
- 1.f** Emission Limitation:
Visible particulate emissions shall not exceed 20 percent opacity, as a six-minute average, except as provided by rule
- Applicable Compliance Method:
If required, compliance shall be determine in accordance with OAC rule 3745-17-03(B)(1).
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

Facility Name: **Jay Plastics**
Facility ID: **03-70-01-0058**
Emissions Unit: **Paint Line Base Coat (R008)**

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>
J-Car Base Coat - TBI Industries Base coat spray booth with HVLP robotic application (plastic parts)	See B.III.1 through B.III.4	See B.III.1 through B.III.4

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

- The permit to install for this emission unit 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: Xylene
 TLV: 100 ppm
 Maximum Hourly Emission Rate (lbs/hr): 0.29
 Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 128
 MAGLC (ug/m3): 10,300

- 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: Paint Line Clear Coat (R009)
Activity Description: J-Car Line coating booth - clear coating

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>
J-Car Clear Coat - Custom clear coat spray booth with HVLP robotic application (plastic parts)	OAC rule 3745-31-05 (A)(3) (PTI 03-17180 issued April 3, 2007)	13.2 lbs organic compounds (OC)/hr from coating operations
	OAC rule 3745-31-05 (A)(3) (PTI 03-17260 issued May 17, 2007)	See A.I.2.a and A.I.2.c The OC content of any cleanup material employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and/or R112 shall not exceed 7.34 lbs OC/gallon.
	OAC rule 3745-31-05(C) (PTI 03-17260 issued May 17, 2007)	230 tons of OC per rolling, 12-month period from coating and cleanup materials employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined (See A.I.2.b.i and A.II.1)
	OAC rule 3745-17-11(B) OAC rule 3745-17-07(A)	9.90 tons per rolling, 12- month period for any individual Hazardous Air Pollutant (HAP) and 24.9 tons per rolling, 12-month period for any combination of HAPs [for emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined] (See A.I.2.b.ii.) 0.551 lb particulate emission (PE)/hr Visible particulate emissions shall not exceed 20 percent opacity, as a six-minute average, except as provided by rule

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	OAC rule 3745-21-07(G)(2)	See A.II.2

2. Additional Terms and Conditions

- 2.a** The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(C), OAC rule 3745-17-11(B), and OAC rule 3745-17-07(A).
- 2.b** The Permit to Install (PTI) established the following federally enforceable emission limitations for purposes of avoiding the applicability of Maximum Achievable Control Technology (MACT) regulations and establish the facility as a minor source for attainment New Source Review:
 - i. 230.0 tons of OC per rolling, 12-month period from the coating and cleanup operations [for emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined] based on a coating/cleanup usage restriction (See A.II.1). For purposes of federal enforceability an emission limitation on OC effectively limits emissions of volatile organic compounds (VOC).
 - ii. Annual HAP emissions from emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined, shall not exceed 9.90 tons per rolling, 12-month period for any individual HAP or 24.90 tons per rolling, 12-month period for any combination of HAPs.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the HAP emission rates specified in the following table:

Maximum Allowable Cumulative HAP Emission Rates (tons):		
Month(s)	Individual HAP	Combined HAPs
1-1	1.00	2.49
1-2	1.81	4.53
1-3	2.62	6.57
1-4	3.43	8.61
1-5	4.24	10.6
1-6	5.05	12.7
1-7	5.86	14.7
1-8	6.67	16.8
1-9	7.48	18.8
1-10	8.29	20.8
1-11	9.10	22.9
1-12	9.90	24.9

After the first 12 calendar months of operation under the provisions of this permit, compliance with the annual HAP limitations shall be based upon a rolling, 12-month summation of the monthly emission rates.

Hazardous Air Pollutant (HAP) means any air pollutant listed in or pursuant to Section 112 (b) of the Clean Air Act.

- 2.c** The hourly emission limitation of 13.2 lbs OC/hr from coating operations represents the potential to emit for this emissions unit. Therefore, no monitoring, record keeping, or reporting requirements are necessary to ensure compliance with this emission limitation.

II. Operational Restrictions

1. The maximum rolling, 12-month quantity of coatings and cleanup materials employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined, is limited by the following equation:

$$\text{sum}[M=1,12] \{ \text{sum}[i=1,n] (V_i G_i) \div 2000 \text{ lbs/ton} \} \leq 230.0$$

where,

M = the increment of the rolling 12-month period;

V_i = OC content in pounds per gallon of each coating/cleanup employed;

G_i = Gallons used of each coating and cleanup material for the rolling 12 month period

n = total number of unique coatings and cleanup materials employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112

To ensure enforceability during the first 12 calendar months of operation under the provisions of this permit, the maximum cumulative amount of coating and cleanup material employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined, shall not exceed the following rates:

Month	sum[M=1,12] {sum[i=1,n](V _i G _i) ÷ 2000 lbs/ton} <=
1	23.0
1-2	41.8
1-3	60.6
1-4	79.5
1-5	98.3
1-6	117
1-7	136
1-8	155
1-9	174
1-10	192
1-11	211
1-12	230

After the first 12 calendar months of operation under the provisions of this permit, compliance with the annual restriction on the amount coating and cleanup material shall be based upon a rolling, 12-month summation. [OAC rules 3745-77-07(A)(1) and 3745-31-05(A)(3)]

2. The use of photochemically reactive materials, as defined in OAC rule 3745-21-01, in this emissions unit is prohibited. [OAC rules 3745-77-07(A)(1) and 3745-31-05(A)(3)]
3. The permittee shall operate the dry filtration /water curtain system for the control of particulate emissions whenever this emissions unit is in operation. [OAC rules 3745-77-07(A)(1) and 3745-31-05(A)(3)]

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information each month coating and cleanup material employed in this emissions unit:
 - a. the name and company identification number for each coating and cleanup material employed;
 - b. documentation of whether or not each coating and cleanup material employed is a photochemically reactive material, as defined in OAC rule 3745-21-01. [OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

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

2. The permittee shall collect and record the following information each month for all coatings and cleanup materials employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined:
- the name and identification number of each coating and cleanup material employed;
 - the OC content of each coating and cleanup material employed, in pounds per gallon, as applied;
 - the volume, in gallons, of each coating and cleanup material employed;
 - the OC emission rate for each coating and cleanup material employed (A.III.2.b x A.III.2.c), in pounds.
 - for the first 12 months of operation under the provisions of this permit, the cumulative monthly OC emission rate for all coatings and cleanup materials employed (the summation of A.III.2.d for all coatings and cleanup materials), in tons;
 - after the first 12 months of operation under the provisions of this permit, the rolling, 12-month OC emissions, for all coatings and cleanup materials, in tons.

Note: The information required above must be recorded for the materials as applied, including any thinning solvents added at the emissions unit.

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

3. The permittee shall collect and record the following HAP information each month for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined:
- the name and identification number of each coating and cleanup material employed;
 - the amount of each individual HAP in each coating and cleanup material, in lbs/gallon, as applied;
 - the number of gallons of each coating and cleanup material employed;
 - the emission rate for each individual HAP from each coating and cleanup material employed (A.III.3.b x A.III.3.c) for each individual HAP, in lbs;
 - the total emission rate for each individual HAP from all the coatings and cleanup materials employed (for each individual HAP, the summation of A.III.3.d for all coatings and cleanup materials), in lbs;
 - the total HAP emission rate for all HAPs combined from all the coatings and cleanup materials employed (summation of A.III.3.e for all HAPs for all coatings and cleanup materials), in lbs;
 - for the first 12 months of operation under the provisions of this permit, the cumulative monthly emission rate of each individual HAP and all HAPs combined, in tons; and
 - after the first 12 months of operation under the provisions of this permit, the rolling, 12-month emissions of each individual HAP and all HAPs combined, in tons.
- [OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
4. The permittee shall maintain daily records that document any time periods when the dry filtration /water curtain system was not in service when the emissions unit was in operation.
- [OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify the following:
 - a. for the first 12 calendar months of operation under the provisions of this permit, all exceedances of the maximum allowable cumulative quantity of coating and cleanup material limitations specified in section A.II.1 (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).
 - b. after the first 12 months of operation under the provisions of this permit, all exceedances of the rolling, 12-month quantity of coatings and cleanup materials employed as specified in section A.II.1 (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).
 - c. for the first 12 calendar months of operation under the provisions of this permit, all exceedances of the maximum allowable cumulative individual HAP and combined HAPs emission limitations specified in section A.I.2.b (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).
 - d. after the first 12 months of operation under the provisions of this permit, all exceedances of the rolling, 12-month individual HAP and combined HAPs emission limitations of 9.90 tons and 24.90 tons, respectively (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).

These reports shall be submitted in accordance with the general terms and conditions of this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

2. The permittee shall notify the Director (the Ohio EPA, Northwest District Office) in writing of any monthly record showing the use of any cleanup material which exceeds an OC content of 7.34 lbs OC/gallon. These notifications 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.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
3. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any daily record showing that the dry filtration/water curtain system was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days after the event occurs.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

V. Testing Requirements

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

- 1.a Emission Limitation:
13.2 lbs OC/hr, from coatings operations

Applicable Compliance Method:

The hourly allowable OC emission limitation above represents the potential to emit for this emission unit and was established by multiplying the maximum hourly coatings usage rate (2.40 gallons per hour) by the maximum OC content of all the coatings (5.52 pounds per gallon).

If required, the permittee shall demonstrate compliance with the hourly allowable OC emission limitation above in accordance with 40 CFR Part 60 Appendix A, Methods 1 through 4 and 18, 25, or 25A, as appropriate.

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

V. Testing Requirements (continued)

- 1.b** Emission Limitation:
230.0 tons of OC per rolling, 12-month period, from coating and cleanup materials employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined.
- Applicable Compliance Method:
Compliance with the annual allowable OC emission limitation above shall be based upon the record keeping requirements specified in section A.III.2 of this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
- 1.c** Emission Limitation:
9.90 tons per rolling, 12- month period for any individual Hazardous Air Pollutant (HAP) and 24.90 tons per rolling, 12-month period for any combination of HAPs [for emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined]
- Applicable Compliance Method:
Compliance with the annual allowable HAP emission limitations above shall be based upon the record keeping requirements specified in section A.III.3 of this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
- 1.d** Emission Limitation:
The OC content of any cleanup material employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and/or R112 shall not exceed 7.34 lbs OC/gallon
- Applicable Compliance Method:
Compliance with the OC content limitation above shall be based upon the record keeping requirements specified in section A.III.2.b if this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
- 1.e** Emission Limitation:
0.551 pound PE per hour (per individual coating operation)
- Applicable Compliance Method:
To determine the actual worst case PE rate (E), the following equation shall be used for each individual coating operations:
- $E = PE \text{ rate (lbs/hr)}$
- $E = \text{maximum coating solids usage rate, in pounds per hour } (1-TE) \times (1-CE)$
- TE = transfer efficiency, which is the ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used
- CE = control efficiency of the control equipment (established at > 98%)
- If required, the permittee shall demonstrate compliance with the emission limitation above pursuant to OAC rule 3745-17-03(B)(10).
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
- 1.f** Emission Limitation:
Visible particulate emissions shall not exceed 20 percent opacity, as a six-minute average, except as provided by rule
- Applicable Compliance Method:
If required, compliance shall be determine in accordance with OAC rule 3745-17-03(B)(1).
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

Facility Name: **Jay Plastics**
Facility ID: **03-70-01-0058**
Emissions Unit: **Paint Line Clear Coat (R009)**

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>
J-Car Clear Coat - Custom clear coat spray booth with HVLP robotic application (plastic parts)	See B.III.1 through B.III.4	See B.III.1 through B.III.4

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

- The permit to install for this emission unit 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: Toluene
 TLV: 50 ppm
 Maximum Hourly Emission Rate (lbs/hr): 1.19
 Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 660
 MAGLC (ug/m3): 8480

- 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: E-Brite #3 Line (R010)
Activity Description: E-Brite #3 coating booth - base coating

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>
E-Brite No. 3 Base Coat - Custom base coat spray booth with HVLP robotic application (plastic parts)	OAC rule 3745-31-05 (A)(3) (PTI 03-17180 issued April 3, 2007)	10.6 lbs organic compounds (OC)/hr from coating operations
	OAC rule 3745-31-05 (A)(3) (PTI 03-17260 issued May 17, 2007)	See A.I.2.a and A.I.2.c The OC content of any cleanup material employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and/or R112 shall not exceed 7.34 lbs OC/gallon.
	OAC rule 3745-31-05(C) (PTI 03-17260 issued May 17, 2007)	230 tons of OC per rolling, 12-month period from coating and cleanup materials employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined (See A.I.2.b.i and A.II.1)
	OAC rule 3745-17-11(B) OAC rule 3745-17-07(A)	9.90 tons per rolling, 12- month period for any individual Hazardous Air Pollutant (HAP) and 24.9 tons per rolling, 12-month period for any combination of HAPs [for emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined] (See A.I.2.b.ii.) 0.551 lb particulate emission (PE)/hr Visible particulate emissions shall not exceed 20 percent opacity, as a six-minute average, except as provided by rule

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	OAC rule 3745-21-07(G)(2)	See A.II.2

2. Additional Terms and Conditions

- 2.a** The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(C), OAC rule 3745-17-11(B), and OAC rule 3745-17-07(A).
- 2.b** The Permit to Install (PTI) established the following federally enforceable emission limitations for purposes of avoiding the applicability of Maximum Achievable Control Technology (MACT) regulations and establish the facility as a minor source for attainment New Source Review:
 - i. 230.0 tons of OC per rolling, 12-month period from the coating and cleanup operations [for emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined] based on a coating/cleanup usage restriction (See A.II.1). For purposes of federal enforceability an emission limitation on OC effectively limits emissions of volatile organic compounds (VOC).
 - ii. Annual HAP emissions from emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined, shall not exceed 9.90 tons per rolling, 12-month period for any individual HAP or 24.90 tons per rolling, 12-month period for any combination of HAPs.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the HAP emission rates specified in the following table:

Maximum Allowable Cumulative HAP Emission Rates (tons):		
Month(s)	Individual HAP	Combined HAPs
1-1	1.00	2.49
1-2	1.81	4.53
1-3	2.62	6.57
1-4	3.43	8.61
1-5	4.24	10.6
1-6	5.05	12.7
1-7	5.86	14.7
1-8	6.67	16.8
1-9	7.48	18.8
1-10	8.29	20.8
1-11	9.10	22.9
1-12	9.90	24.9

After the first 12 calendar months of operation under the provisions of this permit, compliance with the annual HAP limitations shall be based upon a rolling, 12-month summation of the monthly emission rates.

Hazardous Air Pollutant (HAP) means any air pollutant listed in or pursuant to Section 112 (b) of the Clean Air Act.

- 2.c** The hourly emission limitation of 10.6 lbs OC/hr from coating operations represents the potential to emit for this emissions unit. Therefore, no monitoring, record keeping, or reporting requirements are necessary to ensure compliance with this emission limitation.

II. Operational Restrictions

1. The maximum rolling, 12-month quantity of coatings and cleanup materials employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined, is limited by the following equation:

$$\text{sum}[M=1,12] \{ \text{sum}[i=1,n] (V_i G_i) \div 2000 \text{ lbs/ton} \} \leq 230.0$$

where,

M = the increment of the rolling 12-month period;

V_i = OC content in pounds per gallon of each coating/cleanup employed;

G_i = Gallons used of each coating and cleanup material for the rolling 12 month period

n = total number of unique coatings and cleanup materials employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112

To ensure enforceability during the first 12 calendar months of operation under the provisions of this permit, the maximum cumulative amount of coating and cleanup material employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined, shall not exceed the following rates:

Month	sum[M=1,12] {sum[i=1,n](V _i G _i) ÷ 2000 lbs/ton} <=
1	23.0
1-2	41.8
1-3	60.6
1-4	79.5
1-5	98.3
1-6	117
1-7	136
1-8	155
1-9	174
1-10	192
1-11	211
1-12	230

After the first 12 calendar months of operation under the provisions of this permit, compliance with the annual restriction on the amount coating and cleanup material shall be based upon a rolling, 12-month summation. [OAC rules 3745-77-07(A)(1) and 3745-31-05(A)(3)]

2. The use of photochemically reactive materials, as defined in OAC rule 3745-21-01, in this emissions unit is prohibited. [OAC rules 3745-77-07(A)(1) and 3745-31-05(A)(3)]
3. The permittee shall operate the dry filtration /water curtain system for the control of particulate emissions whenever this emissions unit is in operation. [OAC rules 3745-77-07(A)(1) and 3745-31-05(A)(3)]

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information each month coating and cleanup material employed in this emissions unit:
 - a. the name and company identification number for each coating and cleanup material employed;
 - b. documentation of whether or not each coating and cleanup material employed is a photochemically reactive material, as defined in OAC rule 3745-21-01. [OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

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

2. The permittee shall collect and record the following information each month for all coatings and cleanup materials employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined:
- the name and identification number of each coating and cleanup material employed;
 - the OC content of each coating and cleanup material employed, in pounds per gallon, as applied;
 - the volume, in gallons, of each coating and cleanup material employed;
 - the OC emission rate for each coating and cleanup material employed (A.III.2.b x A.III.2.c), in pounds.
 - for the first 12 months of operation under the provisions of this permit, the cumulative monthly OC emission rate for all coatings and cleanup materials employed (the summation of A.III.2.d for all coatings and cleanup materials), in tons;
 - after the first 12 months of operation under the provisions of this permit, the rolling, 12-month OC emissions, for all coatings and cleanup materials, in tons.

Note: The information required above must be recorded for the materials as applied, including any thinning solvents added at the emissions unit.

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

3. The permittee shall collect and record the following HAP information each month for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined:
- the name and identification number of each coating and cleanup material employed;
 - the amount of each individual HAP in each coating and cleanup material, in lbs/gallon, as applied;
 - the number of gallons of each coating and cleanup material employed;
 - the emission rate for each individual HAP from each coating and cleanup material employed (A.III.3.b x A.III.3.c) for each individual HAP, in lbs;
 - the total emission rate for each individual HAP from all the coatings and cleanup materials employed (for each individual HAP, the summation of A.III.3.d for all coatings and cleanup materials), in lbs;
 - the total HAP emission rate for all HAPs combined from all the coatings and cleanup materials employed (summation of A.III.3.e for all HAPs for all coatings and cleanup materials), in lbs;
 - for the first 12 months of operation under the provisions of this permit, the cumulative monthly emission rate of each individual HAP and all HAPs combined, in tons; and
 - after the first 12 months of operation under the provisions of this permit, the rolling, 12-month emissions of each individual HAP and all HAPs combined, in tons.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
4. The permittee shall maintain daily records that document any time periods when the dry filtration /water curtain system was not in service when the emissions unit was in operation.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify the following:
 - a. for the first 12 calendar months of operation under the provisions of this permit, all exceedances of the maximum allowable cumulative quantity of coating and cleanup material limitations specified in section A.II.1 (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).
 - b. after the first 12 months of operation under the provisions of this permit, all exceedances of the rolling, 12-month quantity of coatings and cleanup materials employed as specified in section A.II.1 (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).
 - c. for the first 12 calendar months of operation under the provisions of this permit, all exceedances of the maximum allowable cumulative individual HAP and combined HAPs emission limitations specified in section A.I.2.b (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).
 - d. after the first 12 months of operation under the provisions of this permit, all exceedances of the rolling, 12-month individual HAP and combined HAPs emission limitations of 9.90 tons and 24.90 tons, respectively (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).

These reports shall be submitted in accordance with the general terms and conditions of this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

2. The permittee shall notify the Director (the Ohio EPA, Northwest District Office) in writing of any monthly record showing the use of any cleanup material which exceeds an OC content of 7.34 lbs OC/gallon. These notifications 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.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
3. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any daily record showing that the dry filtration/water curtain system was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days after the event occurs.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

V. Testing Requirements

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

- 1.a Emission Limitation:
10.6 lbs OC/hr, from coatings operations

Applicable Compliance Method:

The hourly allowable OC emission limitation above represents the potential to emit for this emission unit and was established by multiplying the maximum hourly coatings usage rate (2.28 gallons per hour) by the maximum OC content of all the coatings (4.64 pounds per gallon).

If required, the permittee shall demonstrate compliance with the hourly allowable OC emission limitation above in accordance with 40 CFR Part 60 Appendix A, Methods 1 through 4 and 18, 25, or 25A, as appropriate.

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

V. Testing Requirements (continued)

- 1.b** Emission Limitation:
230.0 tons of OC per rolling, 12-month period, from coating and cleanup materials employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined.
- Applicable Compliance Method:
Compliance with the annual allowable OC emission limitation above shall be based upon the record keeping requirements specified in section A.III.2 of this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
- 1.c** Emission Limitation:
9.90 tons per rolling, 12- month period for any individual Hazardous Air Pollutant (HAP) and 24.90 tons per rolling, 12-month period for any combination of HAPs [for emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined]
- Applicable Compliance Method:
Compliance with the annual allowable HAP emission limitations above shall be based upon the record keeping requirements specified in section A.III.3 of this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
- 1.d** Emission Limitation:
The OC content of any cleanup material employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and/or R112 shall not exceed 7.34 lbs OC/gallon
- Applicable Compliance Method:
Compliance with the OC content limitation above shall be based upon the record keeping requirements specified in section A.III.2.b if this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
- 1.e** Emission Limitation:
0.551 pound PE per hour (per individual coating operation)
- Applicable Compliance Method:
To determine the actual worst case PE rate (E), the following equation shall be used for each individual coating operations:
- $E = PE \text{ rate (lbs/hr)}$
- $E = \text{maximum coating solids usage rate, in pounds per hour } (1-TE) \times (1-CE)$
- TE = transfer efficiency, which is the ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used
- CE = control efficiency of the control equipment (established at > 98%)
- If required, the permittee shall demonstrate compliance with the emission limitation above pursuant to OAC rule 3745-17-03(B)(10).
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
- 1.f** Emission Limitation:
Visible particulate emissions shall not exceed 20 percent opacity, as a six-minute average, except as provided by rule
- Applicable Compliance Method:
If required, compliance shall be determine in accordance with OAC rule 3745-17-03(B)(1).
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

Facility Name: **Jay Plastics**
Facility ID: **03-70-01-0058**
Emissions Unit: **E-Brite #3 Line (R010)**

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: E-Brite #4 Line (R011)
Activity Description: E-Brite #4 coating booth - base coating

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>
E-Brite No. 4 Base Coat - Custom base coat spray booth with HVLP robotic application (plastic parts)	OAC rule 3745-31-05 (A)(3) (PTI 03-17180 issued April 3, 2007)	8.35 lbs organic compounds (OC)/hr from coating operations
	OAC rule 3745-31-05 (A)(3) (PTI 03-17260 issued May 17, 2007)	See A.I.2.a and A.I.2.c The OC content of any cleanup material employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and/or R112 shall not exceed 7.34 lbs OC/gallon.
	OAC rule 3745-31-05(C) (PTI 03-17260 issued May 17, 2007)	230 tons of OC per rolling, 12-month period from coating and cleanup materials employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined (See A.I.2.b.i and A.II.1)
	OAC rule 3745-17-11(B) OAC rule 3745-17-07(A)	9.90 tons per rolling, 12- month period for any individual Hazardous Air Pollutant (HAP) and 24.9 tons per rolling, 12-month period for any combination of HAPs [for emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined] (See A.I.2.b.ii.) 0.551 lb particulate emission (PE)/hr Visible particulate emissions shall not exceed 20 percent opacity, as a six-minute average, except as provided by rule

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	OAC rule 3745-21-07(G)(2)	See A.II.2

2. Additional Terms and Conditions

- 2.a** The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(C), OAC rule 3745-17-11(B), and OAC rule 3745-17-07(A).
- 2.b** The Permit to Install (PTI) established the following federally enforceable emission limitations for purposes of avoiding the applicability of Maximum Achievable Control Technology (MACT) regulations and establish the facility as a minor source for attainment New Source Review:
 - i. 230.0 tons of OC per rolling, 12-month period from the coating and cleanup operations [for emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined] based on a coating/cleanup usage restriction (See A.II.1). For purposes of federal enforceability an emission limitation on OC effectively limits emissions of volatile organic compounds (VOC).
 - ii. Annual HAP emissions from emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined, shall not exceed 9.90 tons per rolling, 12-month period for any individual HAP or 24.90 tons per rolling, 12-month period for any combination of HAPs.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the HAP emission rates specified in the following table:

Maximum Allowable Cumulative HAP Emission Rates (tons):

Month(s)	Individual HAP	Combined HAPs
1-1	1.00	2.49
1-2	1.81	4.53
1-3	2.62	6.57
1-4	3.43	8.61
1-5	4.24	10.6
1-6	5.05	12.7
1-7	5.86	14.7
1-8	6.67	16.8
1-9	7.48	18.8
1-10	8.29	20.8
1-11	9.10	22.9
1-12	9.90	24.9

After the first 12 calendar months of operation under the provisions of this permit, compliance with the annual HAP limitations shall be based upon a rolling, 12-month summation of the monthly emission rates.

Hazardous Air Pollutant (HAP) means any air pollutant listed in or pursuant to Section 112 (b) of the Clean Air Act.

- 2.c** The hourly emission limitation of 8.35 lbs OC/hr from coating operations represents the potential to emit for this emissions unit. Therefore, no monitoring, record keeping, or reporting requirements are necessary to ensure compliance with this emission limitation.

II. Operational Restrictions

1. The maximum rolling, 12-month quantity of coatings and cleanup materials employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined, is limited by the following equation:

$$\text{sum}[M=1,12] \{ \text{sum}[i=1,n] (V_i G_i) \div 2000 \text{ lbs/ton} \} \leq 230.0$$

where,

M = the increment of the rolling 12-month period;

V_i = OC content in pounds per gallon of each coating/cleanup employed;

G_i = Gallons used of each coating and cleanup material for the rolling 12 month period

n = total number of unique coatings and cleanup materials employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112

To ensure enforceability during the first 12 calendar months of operation under the provisions of this permit, the maximum cumulative amount of coating and cleanup material employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined, shall not exceed the following rates:

Month	sum[M=1,12] {sum[i=1,n](V _i G _i) ÷ 2000 lbs/ton} <=
1	23.0
1-2	41.8
1-3	60.6
1-4	79.5
1-5	98.3
1-6	117
1-7	136
1-8	155
1-9	174
1-10	192
1-11	211
1-12	230

After the first 12 calendar months of operation under the provisions of this permit, compliance with the annual restriction on the amount coating and cleanup material shall be based upon a rolling, 12-month summation. [OAC rules 3745-77-07(A)(1) and 3745-31-05(A)(3)]

2. The use of photochemically reactive materials, as defined in OAC rule 3745-21-01, in this emissions unit is prohibited. [OAC rules 3745-77-07(A)(1) and 3745-31-05(A)(3)]
3. The permittee shall operate the dry filtration /water curtain system for the control of particulate emissions whenever this emissions unit is in operation. [OAC rules 3745-77-07(A)(1) and 3745-31-05(A)(3)]

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information each month coating and cleanup material employed in this emissions unit:
 - a. the name and company identification number for each coating and cleanup material employed;
 - b. documentation of whether or not each coating and cleanup material employed is a photochemically reactive material, as defined in OAC rule 3745-21-01. [OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

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

2. The permittee shall collect and record the following information each month for all coatings and cleanup materials employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined:
- the name and identification number of each coating and cleanup material employed;
 - the OC content of each coating and cleanup material employed, in pounds per gallon, as applied;
 - the volume, in gallons, of each coating and cleanup material employed;
 - the OC emission rate for each coating and cleanup material employed (A.III.2.b x A.III.2.c), in pounds.
 - for the first 12 months of operation under the provisions of this permit, the cumulative monthly OC emission rate for all coatings and cleanup materials employed (the summation of A.III.2.d for all coatings and cleanup materials), in tons;
 - after the first 12 months of operation under the provisions of this permit, the rolling, 12-month OC emissions, for all coatings and cleanup materials, in tons.

Note: The information required above must be recorded for the materials as applied, including any thinning solvents added at the emissions unit.

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

3. The permittee shall collect and record the following HAP information each month for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined:
- the name and identification number of each coating and cleanup material employed;
 - the amount of each individual HAP in each coating and cleanup material, in lbs/gallon, as applied;
 - the number of gallons of each coating and cleanup material employed;
 - the emission rate for each individual HAP from each coating and cleanup material employed (A.III.3.b x A.III.3.c) for each individual HAP, in lbs;
 - the total emission rate for each individual HAP from all the coatings and cleanup materials employed (for each individual HAP, the summation of A.III.3.d for all coatings and cleanup materials), in lbs;
 - the total HAP emission rate for all HAPs combined from all the coatings and cleanup materials employed (summation of A.III.3.e for all HAPs for all coatings and cleanup materials), in lbs;
 - for the first 12 months of operation under the provisions of this permit, the cumulative monthly emission rate of each individual HAP and all HAPs combined, in tons; and
 - after the first 12 months of operation under the provisions of this permit, the rolling, 12-month emissions of each individual HAP and all HAPs combined, in tons.
- [OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
4. The permittee shall maintain daily records that document any time periods when the dry filtration /water curtain system was not in service when the emissions unit was in operation.
- [OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify the following:
 - a. for the first 12 calendar months of operation under the provisions of this permit, all exceedances of the maximum allowable cumulative quantity of coating and cleanup material limitations specified in section A.II.1 (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).
 - b. after the first 12 months of operation under the provisions of this permit, all exceedances of the rolling, 12-month quantity of coatings and cleanup materials employed as specified in section A.II.1 (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).
 - c. for the first 12 calendar months of operation under the provisions of this permit, all exceedances of the maximum allowable cumulative individual HAP and combined HAPs emission limitations specified in section A.I.2.b (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).
 - d. after the first 12 months of operation under the provisions of this permit, all exceedances of the rolling, 12-month individual HAP and combined HAPs emission limitations of 9.90 tons and 24.90 tons, respectively (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).

These reports shall be submitted in accordance with the general terms and conditions of this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

2. The permittee shall notify the Director (the Ohio EPA, Northwest District Office) in writing of any monthly record showing the use of any cleanup material which exceeds an OC content of 7.34 lbs OC/gallon. These notifications 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.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
3. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any daily record showing that the dry filtration/water curtain system was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days after the event occurs.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

V. Testing Requirements

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

- 1.a Emission Limitation:
8.35 lbs OC/hr, from coatings operations

Applicable Compliance Method:

The hourly allowable OC emission limitation above represents the potential to emit for this emission unit and was established by multiplying the maximum hourly coatings usage rate (1.80 gallons per hour) by the maximum OC content of all the coatings (4.64 pounds per gallon).

If required, the permittee shall demonstrate compliance with the hourly allowable OC emission limitation above in accordance with 40 CFR Part 60 Appendix A, Methods 1 through 4 and 18, 25, or 25A, as appropriate.

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

V. Testing Requirements (continued)

1.b Emission Limitation:

230.0 tons of OC per rolling, 12-month period, from coating and cleanup materials employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined.

Applicable Compliance Method:

Compliance with the annual allowable OC emission limitation above shall be based upon the record keeping requirements specified in section A.III.2 of this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

1.c Emission Limitation:

9.90 tons per rolling, 12- month period for any individual Hazardous Air Pollutant (HAP) and 24.90 tons per rolling, 12-month period for any combination of HAPs [for emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined]

Applicable Compliance Method:

Compliance with the annual allowable HAP emission limitations above shall be based upon the record keeping requirements specified in section A.III.3 of this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

1.d Emission Limitation:

The OC content of any cleanup material employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and/or R112 shall not exceed 7.34 lbs OC/gallon

Applicable Compliance Method:

Compliance with the OC content limitation above shall be based upon the record keeping requirements specified in section A.III.2.b if this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

1.e Emission Limitation:

0.551 pound PE per hour (per individual coating operation)

Applicable Compliance Method:

To determine the actual worst case PE rate (E), the following equation shall be used for each individual coating operations:

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

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

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

CE = control efficiency of the control equipment (established at > 98%)

If required, the permittee shall demonstrate compliance with the emission limitation above pursuant to OAC rule 3745-17-03(B)(10).

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

1.f Emission Limitation:

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

Applicable Compliance Method:

If required, compliance shall be determine in accordance with OAC rule 3745-17-03(B)(1).

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

Facility Name: **Jay Plastics**
Facility ID: **03-70-01-0058**
Emissions Unit: **E-Brite #4 Line (R011)**

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: E-Brite #5 Line (R012)
Activity Description: E-Brite #5 coating booth - base coating

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>
E-Brite No. 5 base Coat - Custom base coat spray booth with HVLP robotic application (plastic parts)	OAC rule 3745-31-05 (A)(3) (PTI 03-17180 issued April 3, 2007)	11.1 lbs organic compounds (OC)/hr from coating operations
	OAC rule 3745-31-05 (A)(3) (PTI 03-17260 issued May 17, 2007)	See A.I.2.a and A.I.2.c The OC content of any cleanup material employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and/or R112 shall not exceed 7.34 lbs OC/gallon.
	OAC rule 3745-31-05(C) (PTI 03-17260 issued May 17, 2007)	230 tons of OC per rolling, 12-month period from coating and cleanup materials employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined (See A.I.2.b.i and A.II.1)
	OAC rule 3745-17-11(B) OAC rule 3745-17-07(A)	9.90 tons per rolling, 12- month period for any individual Hazardous Air Pollutant (HAP) and 24.9 tons per rolling, 12-month period for any combination of HAPs [for emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined] (See A.I.2.b.ii.) 0.551 lb particulate emission (PE)/hr Visible particulate emissions shall not exceed 20 percent opacity, as a six-minute average, except as provided by rule

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	OAC rule 3745-21-07(G)(2)	See A.II.2

2. Additional Terms and Conditions

- 2.a** The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(C), OAC rule 3745-17-11(B), and OAC rule 3745-17-07(A).
- 2.b** The Permit to Install (PTI) established the following federally enforceable emission limitations for purposes of avoiding the applicability of Maximum Achievable Control Technology (MACT) regulations and establish the facility as a minor source for attainment New Source Review:
 - i. 230.0 tons of OC per rolling, 12-month period from the coating and cleanup operations [for emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined] based on a coating/cleanup usage restriction (See A.II.1). For purposes of federal enforceability an emission limitation on OC effectively limits emissions of volatile organic compounds (VOC).
 - ii. Annual HAP emissions from emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined, shall not exceed 9.90 tons per rolling, 12-month period for any individual HAP or 24.90 tons per rolling, 12-month period for any combination of HAPs.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the HAP emission rates specified in the following table:

Maximum Allowable Cumulative HAP Emission Rates (tons):

Month(s)	Individual HAP	Combined HAPs
1-1	1.00	2.49
1-2	1.81	4.53
1-3	2.62	6.57
1-4	3.43	8.61
1-5	4.24	10.6
1-6	5.05	12.7
1-7	5.86	14.7
1-8	6.67	16.8
1-9	7.48	18.8
1-10	8.29	20.8
1-11	9.10	22.9
1-12	9.90	24.9

After the first 12 calendar months of operation under the provisions of this permit, compliance with the annual HAP limitations shall be based upon a rolling, 12-month summation of the monthly emission rates.

Hazardous Air Pollutant (HAP) means any air pollutant listed in or pursuant to Section 112 (b) of the Clean Air Act.

- 2.c** The hourly emission limitation of 11.1 lbs OC/hr from coating operations represents the potential to emit for this emissions unit. Therefore, no monitoring, record keeping, or reporting requirements are necessary to ensure compliance with this emission limitation.

II. Operational Restrictions

1. The maximum rolling, 12-month quantity of coatings and cleanup materials employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined, is limited by the following equation:

$$\text{sum}[M=1,12] \{ \text{sum}[i=1,n] (V_i G_i) \div 2000 \text{ lbs/ton} \} \leq 230.0$$

where,

M = the increment of the rolling 12-month period;

V_i = OC content in pounds per gallon of each coating/cleanup employed;

G_i = Gallons used of each coating and cleanup material for the rolling 12 month period

n = total number of unique coatings and cleanup materials employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112

To ensure enforceability during the first 12 calendar months of operation under the provisions of this permit, the maximum cumulative amount of coating and cleanup material employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined, shall not exceed the following rates:

Month	sum[M=1,12] {sum[i=1,n](V _i G _i) ÷ 2000 lbs/ton} <=
1	23.0
1-2	41.8
1-3	60.6
1-4	79.5
1-5	98.3
1-6	117
1-7	136
1-8	155
1-9	174
1-10	192
1-11	211
1-12	230

After the first 12 calendar months of operation under the provisions of this permit, compliance with the annual restriction on the amount coating and cleanup material shall be based upon a rolling, 12-month summation. [OAC rules 3745-77-07(A)(1) and 3745-31-05(A)(3)]

2. The use of photochemically reactive materials, as defined in OAC rule 3745-21-01, in this emissions unit is prohibited. [OAC rules 3745-77-07(A)(1) and 3745-31-05(A)(3)]
3. The permittee shall operate the dry filtration /water curtain system for the control of particulate emissions whenever this emissions unit is in operation. [OAC rules 3745-77-07(A)(1) and 3745-31-05(A)(3)]

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information each month coating and cleanup material employed in this emissions unit:
 - a. the name and company identification number for each coating and cleanup material employed;
 - b. documentation of whether or not each coating and cleanup material employed is a photochemically reactive material, as defined in OAC rule 3745-21-01. [OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

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

2. The permittee shall collect and record the following information each month for all coatings and cleanup materials employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined:
- the name and identification number of each coating and cleanup material employed;
 - the OC content of each coating and cleanup material employed, in pounds per gallon, as applied;
 - the volume, in gallons, of each coating and cleanup material employed;
 - the OC emission rate for each coating and cleanup material employed (A.III.2.b x A.III.2.c), in pounds.
 - for the first 12 months of operation under the provisions of this permit, the cumulative monthly OC emission rate for all coatings and cleanup materials employed (the summation of A.III.2.d for all coatings and cleanup materials), in tons;
 - after the first 12 months of operation under the provisions of this permit, the rolling, 12-month OC emissions, for all coatings and cleanup materials, in tons.

Note: The information required above must be recorded for the materials as applied, including any thinning solvents added at the emissions unit.

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

3. The permittee shall collect and record the following HAP information each month for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined:
- the name and identification number of each coating and cleanup material employed;
 - the amount of each individual HAP in each coating and cleanup material, in lbs/gallon, as applied;
 - the number of gallons of each coating and cleanup material employed;
 - the emission rate for each individual HAP from each coating and cleanup material employed (A.III.3.b x A.III.3.c) for each individual HAP, in lbs;
 - the total emission rate for each individual HAP from all the coatings and cleanup materials employed (for each individual HAP, the summation of A.III.3.d for all coatings and cleanup materials), in lbs;
 - the total HAP emission rate for all HAPs combined from all the coatings and cleanup materials employed (summation of A.III.3.e for all HAPs for all coatings and cleanup materials), in lbs;
 - for the first 12 months of operation under the provisions of this permit, the cumulative monthly emission rate of each individual HAP and all HAPs combined, in tons; and
 - after the first 12 months of operation under the provisions of this permit, the rolling, 12-month emissions of each individual HAP and all HAPs combined, in tons.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
4. The permittee shall maintain daily records that document any time periods when the dry filtration /water curtain system was not in service when the emissions unit was in operation.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify the following:
 - a. for the first 12 calendar months of operation under the provisions of this permit, all exceedances of the maximum allowable cumulative quantity of coating and cleanup material limitations specified in section A.II.1 (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).
 - b. after the first 12 months of operation under the provisions of this permit, all exceedances of the rolling, 12-month quantity of coatings and cleanup materials employed as specified in section A.II.1 (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).
 - c. for the first 12 calendar months of operation under the provisions of this permit, all exceedances of the maximum allowable cumulative individual HAP and combined HAPs emission limitations specified in section A.I.2.b (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).
 - d. after the first 12 months of operation under the provisions of this permit, all exceedances of the rolling, 12-month individual HAP and combined HAPs emission limitations of 9.90 tons and 24.90 tons, respectively (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).

These reports shall be submitted in accordance with the general terms and conditions of this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

2. The permittee shall notify the Director (the Ohio EPA, Northwest District Office) in writing of any monthly record showing the use of any cleanup material which exceeds an OC content of 7.34 lbs OC/gallon. These notifications 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.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
3. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any daily record showing that the dry filtration/water curtain system was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days after the event occurs.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

V. Testing Requirements

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

- 1.a Emission Limitation:
11.1 lbs OC/hr, from coatings operations

Applicable Compliance Method:

The hourly allowable OC emission limitation above represents the potential to emit for this emission unit and was established by multiplying the maximum hourly coatings usage rate (3.00 gallons per hour) by the maximum OC content of all the coatings (3.71 pounds per gallon).

If required, the permittee shall demonstrate compliance with the hourly allowable OC emission limitation above in accordance with 40 CFR Part 60 Appendix A, Methods 1 through 4 and 18, 25, or 25A, as appropriate.

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

V. Testing Requirements (continued)

1.b Emission Limitation:

230.0 tons of OC per rolling, 12-month period, from coating and cleanup materials employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined.

Applicable Compliance Method:

Compliance with the annual allowable OC emission limitation above shall be based upon the record keeping requirements specified in section A.III.2 of this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

1.c Emission Limitation:

9.90 tons per rolling, 12- month period for any individual Hazardous Air Pollutant (HAP) and 24.90 tons per rolling, 12-month period for any combination of HAPs [for emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined]

Applicable Compliance Method:

Compliance with the annual allowable HAP emission limitations above shall be based upon the record keeping requirements specified in section A.III.3 of this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

1.d Emission Limitation:

The OC content of any cleanup material employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and/or R112 shall not exceed 7.34 lbs OC/gallon

Applicable Compliance Method:

Compliance with the OC content limitation above shall be based upon the record keeping requirements specified in section A.III.2.b if this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

1.e Emission Limitation:

0.551 pound PE per hour (per individual coating operation)

Applicable Compliance Method:

To determine the actual worst case PE rate (E), the following equation shall be used for each individual coating operations:

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

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

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

CE = control efficiency of the control equipment (established at > 98%)

If required, the permittee shall demonstrate compliance with the emission limitation above pursuant to OAC rule 3745-17-03(B)(10).

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

1.f Emission Limitation:

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

Applicable Compliance Method:

If required, compliance shall be determine in accordance with OAC rule 3745-17-03(B)(1).

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

Facility Name: **Jay Plastics**
Facility ID: **03-70-01-0058**
Emissions Unit: **E-Brite #5 Line (R012)**

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: E-Brite #1 Top Coat (R013)
Activity Description: E-Brite #1 coating booth - clear coating

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>
E-brite No. 1 Top Coat Booth - Custom Spray Booth (plastic parts)	OAC rule 3745-31-05 (A)(3) (PTI 03-17260 issued May 17, 2007)	9.00 lbs organic compounds (OC)/hr from coating operations The OC content of any cleanup material employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and/or R112 shall not exceed 7.34 lbs OC/gallon.
	OAC rule 3745-31-05(C) (PTI 03-17260 issued May 17, 2007)	See A.I.2.a and A.I.2.c 230 tons of OC per rolling, 12-month period from coating and cleanup materials employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined (See A.I.2.b.i and A.II.1)
	OAC rule 3745-17-11(B)	9.90 tons per rolling, 12- month period for any individual Hazardous Air Pollutant (HAP) and 24.9 tons per rolling, 12-month period for any combination of HAPs [for emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined] (See A.I.2.b.ii.)
	OAC rule 3745-17-07(A)	0.551 lb particulate emission (PE)/hr Visible particulate emissions shall not exceed 20 percent opacity, as a six-minute average, except as provided by rule

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	OAC rule 3745-21-07(G)(2)	See A.II.2

2. Additional Terms and Conditions

- 2.a** The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(C), OAC rule 3745-17-11(B), and OAC rule 3745-17-07(A).
- 2.b** The Permit to Install (PTI) established the following federally enforceable emission limitations for purposes of avoiding the applicability of Maximum Achievable Control Technology (MACT) regulations and establish the facility as a minor source for attainment New Source Review:
 - i. 230.0 tons of OC per rolling, 12-month period from the coating and cleanup operations [for emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined] based on a coating/cleanup usage restriction (See A.II.1). For purposes of federal enforceability an emission limitation on OC effectively limits emissions of volatile organic compounds (VOC).
 - ii. Annual HAP emissions from emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined, shall not exceed 9.90 tons per rolling, 12-month period for any individual HAP or 24.90 tons per rolling, 12-month period for any combination of HAPs.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the HAP emission rates specified in the following table:

Maximum Allowable Cumulative HAP Emission Rates (tons):

Month(s)	Individual HAP	Combined HAPs
1-1	1.00	2.49
1-2	1.81	4.53
1-3	2.62	6.57
1-4	3.43	8.61
1-5	4.24	10.6
1-6	5.05	12.7
1-7	5.86	14.7
1-8	6.67	16.8
1-9	7.48	18.8
1-10	8.29	20.8
1-11	9.10	22.9
1-12	9.90	24.9

After the first 12 calendar months of operation under the provisions of this permit, compliance with the annual HAP limitations shall be based upon a rolling, 12-month summation of the monthly emission rates.

Hazardous Air Pollutant (HAP) means any air pollutant listed in or pursuant to Section 112 (b) of the Clean Air Act.

- 2.c** The hourly emission limitation of 9.00 lbs OC/hr from coating operations represents the potential to emit for this emissions unit. Therefore, no monitoring, record keeping, or reporting requirements are necessary to ensure compliance with this emission limitation.

II. Operational Restrictions

1. The maximum rolling, 12-month quantity of coatings and cleanup materials employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined, is limited by the following equation:

$$\text{sum}[M=1,12] \{ \text{sum}[i=1,n] (V_i G_i) \div 2000 \text{ lbs/ton} \} \leq 230.0$$

where,

M = the increment of the rolling 12-month period;

V_i = OC content in pounds per gallon of each coating/cleanup employed;

G_i = Gallons used of each coating and cleanup material for the rolling 12 month period

n = total number of unique coatings and cleanup materials employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112

To ensure enforceability during the first 12 calendar months of operation under the provisions of this permit, the maximum cumulative amount of coating and cleanup material employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined, shall not exceed the following rates:

Month	sum[M=1,12] {sum[i=1,n](V _i G _i) ÷ 2000 lbs/ton} <=
1	23.0
1-2	41.8
1-3	60.6
1-4	79.5
1-5	98.3
1-6	117
1-7	136
1-8	155
1-9	174
1-10	192
1-11	211
1-12	230

After the first 12 calendar months of operation under the provisions of this permit, compliance with the annual restriction on the amount coating and cleanup material shall be based upon a rolling, 12-month summation. [OAC rules 3745-77-07(A)(1) and 3745-31-05(A)(3)]

2. The use of photochemically reactive materials, as defined in OAC rule 3745-21-01, in this emissions unit is prohibited. [OAC rules 3745-77-07(A)(1) and 3745-31-05(A)(3)]
3. The permittee shall operate the dry filtration /water curtain system for the control of particulate emissions whenever this emissions unit is in operation. [OAC rules 3745-77-07(A)(1) and 3745-31-05(A)(3)]

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information each month coating and cleanup material employed in this emissions unit:
 - a. the name and company identification number for each coating and cleanup material employed;
 - b. documentation of whether or not each coating and cleanup material employed is a photochemically reactive material, as defined in OAC rule 3745-21-01. [OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

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

2. The permittee shall collect and record the following information each month for all coatings and cleanup materials employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined:
- the name and identification number of each coating and cleanup material employed;
 - the OC content of each coating and cleanup material employed, in pounds per gallon, as applied;
 - the volume, in gallons, of each coating and cleanup material employed;
 - the OC emission rate for each coating and cleanup material employed (A.III.2.b x A.III.2.c), in pounds.
 - for the first 12 months of operation under the provisions of this permit, the cumulative monthly OC emission rate for all coatings and cleanup materials employed (the summation of A.III.2.d for all coatings and cleanup materials), in tons;
 - after the first 12 months of operation under the provisions of this permit, the rolling, 12-month OC emissions, for all coatings and cleanup materials, in tons.

Note: The information required above must be recorded for the materials as applied, including any thinning solvents added at the emissions unit.

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

3. The permittee shall collect and record the following HAP information each month for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined:
- the name and identification number of each coating and cleanup material employed;
 - the amount of each individual HAP in each coating and cleanup material, in lbs/gallon, as applied;
 - the number of gallons of each coating and cleanup material employed;
 - the emission rate for each individual HAP from each coating and cleanup material employed (A.III.3.b x A.III.3.c) for each individual HAP, in lbs;
 - the total emission rate for each individual HAP from all the coatings and cleanup materials employed (for each individual HAP, the summation of A.III.3.d for all coatings and cleanup materials), in lbs;
 - the total HAP emission rate for all HAPs combined from all the coatings and cleanup materials employed (summation of A.III.3.e for all HAPs for all coatings and cleanup materials), in lbs;
 - for the first 12 months of operation under the provisions of this permit, the cumulative monthly emission rate of each individual HAP and all HAPs combined, in tons; and
 - after the first 12 months of operation under the provisions of this permit, the rolling, 12-month emissions of each individual HAP and all HAPs combined, in tons.
- [OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
4. The permittee shall maintain daily records that document any time periods when the dry filtration /water curtain system was not in service when the emissions unit was in operation.
- [OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify the following:
 - a. for the first 12 calendar months of operation under the provisions of this permit, all exceedances of the maximum allowable cumulative quantity of coating and cleanup material limitations specified in section A.II.1 (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).
 - b. after the first 12 months of operation under the provisions of this permit, all exceedances of the rolling, 12-month quantity of coatings and cleanup materials employed as specified in section A.II.1 (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).
 - c. for the first 12 calendar months of operation under the provisions of this permit, all exceedances of the maximum allowable cumulative individual HAP and combined HAPs emission limitations specified in section A.I.2.b (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).
 - d. after the first 12 months of operation under the provisions of this permit, all exceedances of the rolling, 12-month individual HAP and combined HAPs emission limitations of 9.90 tons and 24.90 tons, respectively (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).

These reports shall be submitted in accordance with the general terms and conditions of this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

2. The permittee shall notify the Director (the Ohio EPA, Northwest District Office) in writing of any monthly record showing the use of any cleanup material which exceeds an OC content of 7.34 lbs OC/gallon. These notifications 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.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
3. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any daily record showing that the dry filtration/water curtain system was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days after the event occurs.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

V. Testing Requirements

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

- 1.a Emission Limitation:
9.00 lbs OC/hr, from coatings operations

Applicable Compliance Method:

The hourly allowable OC emission limitation above represents the potential to emit for this emission unit and was established by multiplying the maximum hourly coatings usage rate (3.00 gallons per hour) by the maximum OC content of all the coatings (3.00 pounds per gallon).

If required, the permittee shall demonstrate compliance with the hourly allowable OC emission limitation above in accordance with 40 CFR Part 60 Appendix A, Methods 1 through 4 and 18, 25, or 25A, as appropriate.

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

V. Testing Requirements (continued)

- 1.b** Emission Limitation:
230.0 tons of OC per rolling, 12-month period, from coating and cleanup materials employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined.
- Applicable Compliance Method:
Compliance with the annual allowable OC emission limitation above shall be based upon the record keeping requirements specified in section A.III.2 of this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
- 1.c** Emission Limitation:
9.90 tons per rolling, 12- month period for any individual Hazardous Air Pollutant (HAP) and 24.90 tons per rolling, 12-month period for any combination of HAPs [for emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined]
- Applicable Compliance Method:
Compliance with the annual allowable HAP emission limitations above shall be based upon the record keeping requirements specified in section A.III.3 of this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
- 1.d** Emission Limitation:
The OC content of any cleanup material employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and/or R112 shall not exceed 7.34 lbs OC/gallon
- Applicable Compliance Method:
Compliance with the OC content limitation above shall be based upon the record keeping requirements specified in section A.III.2.b if this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
- 1.e** Emission Limitation:
0.551 pound PE per hour (per individual coating operation)
- Applicable Compliance Method:
To determine the actual worst case PE rate (E), the following equation shall be used for each individual coating operations:
- $E = PE \text{ rate (lbs/hr)}$
- $E = \text{maximum coating solids usage rate, in pounds per hour } (1-TE) \times (1-CE)$
- TE = transfer efficiency, which is the ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used
- CE = control efficiency of the control equipment (established at > 98%)
- If required, the permittee shall demonstrate compliance with the emission limitation above pursuant to OAC rule 3745-17-03(B)(10).
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
- 1.f** Emission Limitation:
Visible particulate emissions shall not exceed 20 percent opacity, as a six-minute average, except as provided by rule
- Applicable Compliance Method:
If required, compliance shall be determine in accordance with OAC rule 3745-17-03(B)(1).
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

Facility Name: **Jay Plastics**
Facility ID: **03-70-01-0058**
Emissions Unit: **E-Brite #1 Top Coat (R013)**

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: Paint Line Base Coat (R101)
Activity Description: Base coating of miscellaneous plastic parts

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>
Upstairs Base - Devilbiss Turboclean base coat booth with HVLP robotic application (plastic parts)	OAC rule 3745-31-05 (A)(3) (PTI 03-17180 issued April 3, 2007)	4.85 lbs organic compounds (OC)/hr from coating operations
	OAC rule 3745-31-05 (A)(3) (PTI 03-17260 issued May 17, 2007)	See A.I.2.a and A.I.2.c The OC content of any cleanup material employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and/or R112 shall not exceed 7.34 lbs OC/gallon.
	OAC rule 3745-31-05(C) (PTI 03-17260 issued May 17, 2007)	230 tons of OC per rolling, 12-month period from coating and cleanup materials employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined (See A.I.2.b.i and A.II.1)
	OAC rule 3745-17-11(B) OAC rule 3745-17-07(A)	9.90 tons per rolling, 12- month period for any individual Hazardous Air Pollutant (HAP) and 24.9 tons per rolling, 12-month period for any combination of HAPs [for emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined] (See A.I.2.b.ii.) 0.551 lb particulate emission (PE)/hr Visible particulate emissions shall not exceed 20 percent opacity, as a six-minute average, except as provided by rule

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	OAC rule 3745-21-07(G)(2)	See A.II.2

2. Additional Terms and Conditions

- 2.a** The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(C), OAC rule 3745-17-11(B), and OAC rule 3745-17-07(A).
- 2.b** The Permit to Install (PTI) established the following federally enforceable emission limitations for purposes of avoiding the applicability of Maximum Achievable Control Technology (MACT) regulations and establish the facility as a minor source for attainment New Source Review:
 - i. 230.0 tons of OC per rolling, 12-month period from the coating and cleanup operations [for emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined] based on a coating/cleanup usage restriction (See A.II.1). For purposes of federal enforceability an emission limitation on OC effectively limits emissions of volatile organic compounds (VOC).
 - ii. Annual HAP emissions from emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined, shall not exceed 9.90 tons per rolling, 12-month period for any individual HAP or 24.90 tons per rolling, 12-month period for any combination of HAPs.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the HAP emission rates specified in the following table:

Maximum Allowable Cumulative HAP Emission Rates (tons):

Month(s)	Individual HAP	Combined HAPs
1-1	1.00	2.49
1-2	1.81	4.53
1-3	2.62	6.57
1-4	3.43	8.61
1-5	4.24	10.6
1-6	5.05	12.7
1-7	5.86	14.7
1-8	6.67	16.8
1-9	7.48	18.8
1-10	8.29	20.8
1-11	9.10	22.9
1-12	9.90	24.9

After the first 12 calendar months of operation under the provisions of this permit, compliance with the annual HAP limitations shall be based upon a rolling, 12-month summation of the monthly emission rates.

Hazardous Air Pollutant (HAP) means any air pollutant listed in or pursuant to Section 112 (b) of the Clean Air Act.

- 2.c** The hourly emission limitation of 4.85 lbs OC/hr from coating operations represents the potential to emit for this emissions unit. Therefore, no monitoring, record keeping, or reporting requirements are necessary to ensure compliance with this emission limitation.

II. Operational Restrictions

1. The maximum rolling, 12-month quantity of coatings and cleanup materials employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined, is limited by the following equation:

$$\text{sum}[M=1,12] \{ \text{sum}[i=1,n] (V_i G_i) \div 2000 \text{ lbs/ton} \} \leq 230.0$$

where,

M = the increment of the rolling 12-month period;

V_i = OC content in pounds per gallon of each coating/cleanup employed;

G_i = Gallons used of each coating and cleanup material for the rolling 12 month period

n = total number of unique coatings and cleanup materials employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112

To ensure enforceability during the first 12 calendar months of operation under the provisions of this permit, the maximum cumulative amount of coating and cleanup material employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined, shall not exceed the following rates:

Month	sum[M=1,12] {sum[i=1,n](V _i G _i) ÷ 2000 lbs/ton} <=
1	23.0
1-2	41.8
1-3	60.6
1-4	79.5
1-5	98.3
1-6	117
1-7	136
1-8	155
1-9	174
1-10	192
1-11	211
1-12	230

After the first 12 calendar months of operation under the provisions of this permit, compliance with the annual restriction on the amount coating and cleanup material shall be based upon a rolling, 12-month summation. [OAC rules 3745-77-07(A)(1) and 3745-31-05(A)(3)]

2. The use of photochemically reactive materials, as defined in OAC rule 3745-21-01, in this emissions unit is prohibited. [OAC rules 3745-77-07(A)(1) and 3745-31-05(A)(3)]
3. The permittee shall operate the dry filtration /water curtain system for the control of particulate emissions whenever this emissions unit is in operation. [OAC rules 3745-77-07(A)(1) and 3745-31-05(A)(3)]

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information each month coating and cleanup material employed in this emissions unit:
 - a. the name and company identification number for each coating and cleanup material employed;
 - b. documentation of whether or not each coating and cleanup material employed is a photochemically reactive material, as defined in OAC rule 3745-21-01. [OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

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

2. The permittee shall collect and record the following information each month for all coatings and cleanup materials employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined:
- the name and identification number of each coating and cleanup material employed;
 - the OC content of each coating and cleanup material employed, in pounds per gallon, as applied;
 - the volume, in gallons, of each coating and cleanup material employed;
 - the OC emission rate for each coating and cleanup material employed (A.III.2.b x A.III.2.c), in pounds.
 - for the first 12 months of operation under the provisions of this permit, the cumulative monthly OC emission rate for all coatings and cleanup materials employed (the summation of A.III.2.d for all coatings and cleanup materials), in tons;
 - after the first 12 months of operation under the provisions of this permit, the rolling, 12-month OC emissions, for all coatings and cleanup materials, in tons.

Note: The information required above must be recorded for the materials as applied, including any thinning solvents added at the emissions unit.

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

3. The permittee shall collect and record the following HAP information each month for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined:
- the name and identification number of each coating and cleanup material employed;
 - the amount of each individual HAP in each coating and cleanup material, in lbs/gallon, as applied;
 - the number of gallons of each coating and cleanup material employed;
 - the emission rate for each individual HAP from each coating and cleanup material employed (A.III.3.b x A.III.3.c) for each individual HAP, in lbs;
 - the total emission rate for each individual HAP from all the coatings and cleanup materials employed (for each individual HAP, the summation of A.III.3.d for all coatings and cleanup materials), in lbs;
 - the total HAP emission rate for all HAPs combined from all the coatings and cleanup materials employed (summation of A.III.3.e for all HAPs for all coatings and cleanup materials), in lbs;
 - for the first 12 months of operation under the provisions of this permit, the cumulative monthly emission rate of each individual HAP and all HAPs combined, in tons; and
 - after the first 12 months of operation under the provisions of this permit, the rolling, 12-month emissions of each individual HAP and all HAPs combined, in tons.
- [OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
4. The permittee shall maintain daily records that document any time periods when the dry filtration /water curtain system was not in service when the emissions unit was in operation.
- [OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify the following:
 - a. for the first 12 calendar months of operation under the provisions of this permit, all exceedances of the maximum allowable cumulative quantity of coating and cleanup material limitations specified in section A.II.1 (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).
 - b. after the first 12 months of operation under the provisions of this permit, all exceedances of the rolling, 12-month quantity of coatings and cleanup materials employed as specified in section A.II.1 (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).
 - c. for the first 12 calendar months of operation under the provisions of this permit, all exceedances of the maximum allowable cumulative individual HAP and combined HAPs emission limitations specified in section A.I.2.b (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).
 - d. after the first 12 months of operation under the provisions of this permit, all exceedances of the rolling, 12-month individual HAP and combined HAPs emission limitations of 9.90 tons and 24.90 tons, respectively (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).

These reports shall be submitted in accordance with the general terms and conditions of this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

2. The permittee shall notify the Director (the Ohio EPA, Northwest District Office) in writing of any monthly record showing the use of any cleanup material which exceeds an OC content of 7.34 lbs OC/gallon. These notifications 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.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
3. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any daily record showing that the dry filtration/water curtain system was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days after the event occurs.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

V. Testing Requirements

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

- 1.a Emission Limitation:
4.85 lbs OC/hr, from coatings operations

Applicable Compliance Method:

The hourly allowable OC emission limitation above represents the potential to emit for this emission unit and was established by multiplying the maximum hourly coatings usage rate (0.72 gallons per hour) by the maximum OC content of all the coatings (6.73 pounds per gallon).

If required, the permittee shall demonstrate compliance with the hourly allowable OC emission limitation above in accordance with 40 CFR Part 60 Appendix A, Methods 1 through 4 and 18, 25, or 25A, as appropriate.

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

V. Testing Requirements (continued)

1.b Emission Limitation:

230.0 tons of OC per rolling, 12-month period, from coating and cleanup materials employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined.

Applicable Compliance Method:

Compliance with the annual allowable OC emission limitation above shall be based upon the record keeping requirements specified in section A.III.2 of this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

1.c Emission Limitation:

9.90 tons per rolling, 12- month period for any individual Hazardous Air Pollutant (HAP) and 24.90 tons per rolling, 12-month period for any combination of HAPs [for emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined]

Applicable Compliance Method:

Compliance with the annual allowable HAP emission limitations above shall be based upon the record keeping requirements specified in section A.III.3 of this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

1.d Emission Limitation:

The OC content of any cleanup material employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and/or R112 shall not exceed 7.34 lbs OC/gallon

Applicable Compliance Method:

Compliance with the OC content limitation above shall be based upon the record keeping requirements specified in section A.III.2.b if this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

1.e Emission Limitation:

0.551 pound PE per hour (per individual coating operation)

Applicable Compliance Method:

To determine the actual worst case PE rate (E), the following equation shall be used for each individual coating operations:

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

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

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

CE = control efficiency of the control equipment (established at > 98%)

If required, the permittee shall demonstrate compliance with the emission limitation above pursuant to OAC rule 3745-17-03(B)(10).

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

1.f Emission Limitation:

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

Applicable Compliance Method:

If required, compliance shall be determine in accordance with OAC rule 3745-17-03(B)(1).

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

Facility Name: **Jay Plastics**
Facility ID: **03-70-01-0058**
Emissions Unit: **Paint Line Base Coat (R101)**

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>
Upstairs Base - Devilbiss Turboclean base coat booth with HVLP robotic application (plastic parts)	See B.III.1 through B.III.4	See B.III.1 through B.III.4

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permit to install for this emission unit 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: Toluene; Ethyl Benzene
 TLV: 50 ppm; 100 ppm
 Maximum Hourly Emission Rate (lbs/hr): 0.63; 0.63
 Predicted 1-Hour Maximum Ground-Level Conc. (ug/m3): 0.63; 13.6
 MAGLC (ug/m3): 8480; 10,300

2. Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:
 - a. changes in the composition of the materials used (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;
 - b. 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
 - c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

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: Paint Line Base Coat (R103)
Activity Description: Base coating of miscellaneous plastic parts

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>
Stand in Booths - Breitlinger spray booths with HVLP robotic application (plastic parts)	OAC rule 3745-31-05 (A)(3) (PTI 03-17180 issued April 3, 2007)	4.82 lbs organic compounds (OC)/hr from coating operations
	OAC rule 3745-31-05 (A)(3) (PTI 03-17260 issued May 17, 2007)	See A.I.2.a and A.I.2.c The OC content of any cleanup material employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and/or R112 shall not exceed 7.34 lbs OC/gallon.
	OAC rule 3745-31-05(C) (PTI 03-17260 issued May 17, 2007)	230 tons of OC per rolling, 12-month period from coating and cleanup materials employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined (See A.I.2.b.i and A.II.1)
	OAC rule 3745-17-11(B) OAC rule 3745-17-07(A)	9.90 tons per rolling, 12- month period for any individual Hazardous Air Pollutant (HAP) and 24.9 tons per rolling, 12-month period for any combination of HAPs [for emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined] (See A.I.2.b.ii.) 0.551 lb particulate emission (PE)/hr Visible particulate emissions shall not exceed 20 percent opacity, as a six-minute average, except as provided by rule

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	OAC rule 3745-21-07(G)(2)	See A.II.2

2. Additional Terms and Conditions

- 2.a** The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(C), OAC rule 3745-17-11(B), and OAC rule 3745-17-07(A).
- 2.b** The Permit to Install (PTI) established the following federally enforceable emission limitations for purposes of avoiding the applicability of Maximum Achievable Control Technology (MACT) regulations and establish the facility as a minor source for attainment New Source Review:
 - i. 230.0 tons of OC per rolling, 12-month period from the coating and cleanup operations [for emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined] based on a coating/cleanup usage restriction (See A.II.1). For purposes of federal enforceability an emission limitation on OC effectively limits emissions of volatile organic compounds (VOC).
 - ii. Annual HAP emissions from emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined, shall not exceed 9.90 tons per rolling, 12-month period for any individual HAP or 24.90 tons per rolling, 12-month period for any combination of HAPs.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the HAP emission rates specified in the following table:

Maximum Allowable Cumulative HAP Emission Rates (tons):

Month(s)	Individual HAP	Combined HAPs
1-1	1.00	2.49
1-2	1.81	4.53
1-3	2.62	6.57
1-4	3.43	8.61
1-5	4.24	10.6
1-6	5.05	12.7
1-7	5.86	14.7
1-8	6.67	16.8
1-9	7.48	18.8
1-10	8.29	20.8
1-11	9.10	22.9
1-12	9.90	24.9

After the first 12 calendar months of operation under the provisions of this permit, compliance with the annual HAP limitations shall be based upon a rolling, 12-month summation of the monthly emission rates.

Hazardous Air Pollutant (HAP) means any air pollutant listed in or pursuant to Section 112 (b) of the Clean Air Act.

- 2.c** The hourly emission limitation of 4.82 lbs OC/hr from coating operations represents the potential to emit for this emissions unit. Therefore, no monitoring, record keeping, or reporting requirements are necessary to ensure compliance with this emission limitation.

II. Operational Restrictions

1. The maximum rolling, 12-month quantity of coatings and cleanup materials employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined, is limited by the following equation:

$$\text{sum}[M=1,12] \{ \text{sum}[i=1,n] (V_i G_i) \div 2000 \text{ lbs/ton} \} \leq 230.0$$

where,

M = the increment of the rolling 12-month period;

V_i = OC content in pounds per gallon of each coating/cleanup employed;

G_i = Gallons used of each coating and cleanup material for the rolling 12 month period

n = total number of unique coatings and cleanup materials employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112

To ensure enforceability during the first 12 calendar months of operation under the provisions of this permit, the maximum cumulative amount of coating and cleanup material employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined, shall not exceed the following rates:

Month	sum[M=1,12] {sum[i=1,n](V _i G _i) ÷ 2000 lbs/ton} <=
1	23.0
1-2	41.8
1-3	60.6
1-4	79.5
1-5	98.3
1-6	117
1-7	136
1-8	155
1-9	174
1-10	192
1-11	211
1-12	230

After the first 12 calendar months of operation under the provisions of this permit, compliance with the annual restriction on the amount coating and cleanup material shall be based upon a rolling, 12-month summation. [OAC rules 3745-77-07(A)(1) and 3745-31-05(A)(3)]

2. The use of photochemically reactive materials, as defined in OAC rule 3745-21-01, in this emissions unit is prohibited. [OAC rules 3745-77-07(A)(1) and 3745-31-05(A)(3)]
3. The permittee shall operate the dry filtration /water curtain system for the control of particulate emissions whenever this emissions unit is in operation. [OAC rules 3745-77-07(A)(1) and 3745-31-05(A)(3)]

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information each month coating and cleanup material employed in this emissions unit:
 - a. the name and company identification number for each coating and cleanup material employed;
 - b. documentation of whether or not each coating and cleanup material employed is a photochemically reactive material, as defined in OAC rule 3745-21-01. [OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

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

2. The permittee shall collect and record the following information each month for all coatings and cleanup materials employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined:
- the name and identification number of each coating and cleanup material employed;
 - the OC content of each coating and cleanup material employed, in pounds per gallon, as applied;
 - the volume, in gallons, of each coating and cleanup material employed;
 - the OC emission rate for each coating and cleanup material employed (A.III.2.b x A.III.2.c), in pounds.
 - for the first 12 months of operation under the provisions of this permit, the cumulative monthly OC emission rate for all coatings and cleanup materials employed (the summation of A.III.2.d for all coatings and cleanup materials), in tons;
 - after the first 12 months of operation under the provisions of this permit, the rolling, 12-month OC emissions, for all coatings and cleanup materials, in tons.

Note: The information required above must be recorded for the materials as applied, including any thinning solvents added at the emissions unit.

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

3. The permittee shall collect and record the following HAP information each month for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined:
- the name and identification number of each coating and cleanup material employed;
 - the amount of each individual HAP in each coating and cleanup material, in lbs/gallon, as applied;
 - the number of gallons of each coating and cleanup material employed;
 - the emission rate for each individual HAP from each coating and cleanup material employed (A.III.3.b x A.III.3.c) for each individual HAP, in lbs;
 - the total emission rate for each individual HAP from all the coatings and cleanup materials employed (for each individual HAP, the summation of A.III.3.d for all coatings and cleanup materials), in lbs;
 - the total HAP emission rate for all HAPs combined from all the coatings and cleanup materials employed (summation of A.III.3.e for all HAPs for all coatings and cleanup materials), in lbs;
 - for the first 12 months of operation under the provisions of this permit, the cumulative monthly emission rate of each individual HAP and all HAPs combined, in tons; and
 - after the first 12 months of operation under the provisions of this permit, the rolling, 12-month emissions of each individual HAP and all HAPs combined, in tons.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
4. The permittee shall maintain daily records that document any time periods when the dry filtration /water curtain system was not in service when the emissions unit was in operation.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify the following:
 - a. for the first 12 calendar months of operation under the provisions of this permit, all exceedances of the maximum allowable cumulative quantity of coating and cleanup material limitations specified in section A.II.1 (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).
 - b. after the first 12 months of operation under the provisions of this permit, all exceedances of the rolling, 12-month quantity of coatings and cleanup materials employed as specified in section A.II.1 (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).
 - c. for the first 12 calendar months of operation under the provisions of this permit, all exceedances of the maximum allowable cumulative individual HAP and combined HAPs emission limitations specified in section A.I.2.b (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).
 - d. after the first 12 months of operation under the provisions of this permit, all exceedances of the rolling, 12-month individual HAP and combined HAPs emission limitations of 9.90 tons and 24.90 tons, respectively (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).

These reports shall be submitted in accordance with the general terms and conditions of this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

2. The permittee shall notify the Director (the Ohio EPA, Northwest District Office) in writing of any monthly record showing the use of any cleanup material which exceeds an OC content of 7.34 lbs OC/gallon. These notifications 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.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
3. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any daily record showing that the dry filtration/water curtain system was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days after the event occurs.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

V. Testing Requirements

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

- 1.a Emission Limitation:
4.82 lbs OC/hr, from coatings operations

Applicable Compliance Method:

The hourly allowable OC emission limitation above represents the potential to emit for this emission unit and was established by multiplying the maximum hourly coatings usage rate (0.72 gallons per hour) by the maximum OC content of all the coatings (6.69 pounds per gallon).

If required, the permittee shall demonstrate compliance with the hourly allowable OC emission limitation above in accordance with 40 CFR Part 60 Appendix A, Methods 1 through 4 and 18, 25, or 25A, as appropriate.

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

V. Testing Requirements (continued)

- 1.b** Emission Limitation:
230.0 tons of OC per rolling, 12-month period, from coating and cleanup materials employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined.
- Applicable Compliance Method:
Compliance with the annual allowable OC emission limitation above shall be based upon the record keeping requirements specified in section A.III.2 of this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
- 1.c** Emission Limitation:
9.90 tons per rolling, 12- month period for any individual Hazardous Air Pollutant (HAP) and 24.90 tons per rolling, 12-month period for any combination of HAPs [for emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined]
- Applicable Compliance Method:
Compliance with the annual allowable HAP emission limitations above shall be based upon the record keeping requirements specified in section A.III.3 of this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
- 1.d** Emission Limitation:
The OC content of any cleanup material employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and/or R112 shall not exceed 7.34 lbs OC/gallon
- Applicable Compliance Method:
Compliance with the OC content limitation above shall be based upon the record keeping requirements specified in section A.III.2.b if this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
- 1.e** Emission Limitation:
0.551 pound PE per hour (per individual coating operation)
- Applicable Compliance Method:
To determine the actual worst case PE rate (E), the following equation shall be used for each individual coating operations:
- $E = PE \text{ rate (lbs/hr)}$
- $E = \text{maximum coating solids usage rate, in pounds per hour } (1-TE) \times (1-CE)$
- TE = transfer efficiency, which is the ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used
- CE = control efficiency of the control equipment (established at > 98%)
- If required, the permittee shall demonstrate compliance with the emission limitation above pursuant to OAC rule 3745-17-03(B)(10).
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
- 1.f** Emission Limitation:
Visible particulate emissions shall not exceed 20 percent opacity, as a six-minute average, except as provided by rule
- Applicable Compliance Method:
If required, compliance shall be determine in accordance with OAC rule 3745-17-03(B)(1).
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

Facility Name: **Jay Plastics**
Facility ID: **03-70-01-0058**
Emissions Unit: **Paint Line Base Coat (R103)**

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>
Stand in Booths - Breitlinger spray booths with HVLP robotic application (plastic parts)	See B.III.1 through B.III.4	See B.III.1 through B.III.4

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

- The permit to install for this emission unit 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: Toluene
 TLV: 50 ppm
 Maximum Hourly Emission Rate (lbs/hr): 0.72
 Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 18.0
 MAGLC (ug/m3): 8480

- 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: Paint Line Prime Coat (R105)
Activity Description: Primer coating of miscellaneous plastic parts

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>
Devilbiss Turboclean primer spray booth with HVLP robotic application (plastic parts)	OAC rule 3745-31-05 (A)(3) (PTI 03-17180 issued April 3, 2007)	4.80 lbs organic compounds (OC)/hr from coating operations
	OAC rule 3745-31-05 (A)(3) (PTI 03-17260 issued May 17, 2007)	See A.I.2.a and A.I.2.c The OC content of any cleanup material employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and/or R112 shall not exceed 7.34 lbs OC/gallon.
	OAC rule 3745-31-05(C) (PTI 03-17260 issued May 17, 2007)	230 tons of OC per rolling, 12-month period from coating and cleanup materials employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined (See A.I.2.b.i and A.II.1)
	OAC rule 3745-17-11(B)	9.90 tons per rolling, 12- month period for any individual Hazardous Air Pollutant (HAP) and 24.9 tons per rolling, 12-month period for any combination of HAPs [for emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined] (See A.I.2.b.ii.)
	OAC rule 3745-17-07(A)	0.551 lb particulate emission (PE)/hr Visible particulate emissions shall not exceed 20 percent opacity, as a six-minute average, except as provided by rule

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	OAC rule 3745-21-07(G)(2)	See A.II.2

2. Additional Terms and Conditions

- 2.a** The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(C), OAC rule 3745-17-11(B), and OAC rule 3745-17-07(A).
- 2.b** The Permit to Install (PTI) established the following federally enforceable emission limitations for purposes of avoiding the applicability of Maximum Achievable Control Technology (MACT) regulations and establish the facility as a minor source for attainment New Source Review:
 - i. 230.0 tons of OC per rolling, 12-month period from the coating and cleanup operations [for emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined] based on a coating/cleanup usage restriction (See A.II.1). For purposes of federal enforceability an emission limitation on OC effectively limits emissions of volatile organic compounds (VOC).
 - ii. Annual HAP emissions from emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined, shall not exceed 9.90 tons per rolling, 12-month period for any individual HAP or 24.90 tons per rolling, 12-month period for any combination of HAPs.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the HAP emission rates specified in the following table:

Maximum Allowable Cumulative HAP Emission Rates (tons):

Month(s)	Individual HAP	Combined HAPs
1-1	1.00	2.49
1-2	1.81	4.53
1-3	2.62	6.57
1-4	3.43	8.61
1-5	4.24	10.6
1-6	5.05	12.7
1-7	5.86	14.7
1-8	6.67	16.8
1-9	7.48	18.8
1-10	8.29	20.8
1-11	9.10	22.9
1-12	9.90	24.9

After the first 12 calendar months of operation under the provisions of this permit, compliance with the annual HAP limitations shall be based upon a rolling, 12-month summation of the monthly emission rates.

Hazardous Air Pollutant (HAP) means any air pollutant listed in or pursuant to Section 112 (b) of the Clean Air Act.

- 2.c** The hourly emission limitation of 4.80 lbs OC/hr from coating operations represents the potential to emit for this emissions unit. Therefore, no monitoring, record keeping, or reporting requirements are necessary to ensure compliance with this emission limitation.

II. Operational Restrictions

- The maximum rolling, 12-month quantity of coatings and cleanup materials employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined, is limited by the following equation:

$$\text{sum}[M=1,12] \{ \text{sum}[i=1,n] (V_i G_i) \div 2000 \text{ lbs/ton} \} \leq 230.0$$

where,

M = the increment of the rolling 12-month period;

V_i = OC content in pounds per gallon of each coating/cleanup employed;

G_i = Gallons used of each coating and cleanup material for the rolling 12 month period

n = total number of unique coatings and cleanup materials employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112

To ensure enforceability during the first 12 calendar months of operation under the provisions of this permit, the maximum cumulative amount of coating and cleanup material employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined, shall not exceed the following rates:

Month	sum[M=1,12] {sum[i=1,n](V _i G _i) ÷ 2000 lbs/ton} <=
1	23.0
1-2	41.8
1-3	60.6
1-4	79.5
1-5	98.3
1-6	117
1-7	136
1-8	155
1-9	174
1-10	192
1-11	211
1-12	230

After the first 12 calendar months of operation under the provisions of this permit, compliance with the annual restriction on the amount coating and cleanup material shall be based upon a rolling, 12-month summation. [OAC rules 3745-77-07(A)(1) and 3745-31-05(A)(3)]

- The use of photochemically reactive materials, as defined in OAC rule 3745-21-01, in this emissions unit is prohibited. [OAC rules 3745-77-07(A)(1) and 3745-31-05(A)(3)]
- The permittee shall operate the dry filtration /water curtain system for the control of particulate emissions whenever this emissions unit is in operation. [OAC rules 3745-77-07(A)(1) and 3745-31-05(A)(3)]

III. Monitoring and/or Record Keeping Requirements

- The permittee shall collect and record the following information each month coating and cleanup material employed in this emissions unit:
 - the name and company identification number for each coating and cleanup material employed;
 - documentation of whether or not each coating and cleanup material employed is a photochemically reactive material, as defined in OAC rule 3745-21-01. [OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

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

2. The permittee shall collect and record the following information each month for all coatings and cleanup materials employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined:
- the name and identification number of each coating and cleanup material employed;
 - the OC content of each coating and cleanup material employed, in pounds per gallon, as applied;
 - the volume, in gallons, of each coating and cleanup material employed;
 - the OC emission rate for each coating and cleanup material employed (A.III.2.b x A.III.2.c), in pounds.
 - for the first 12 months of operation under the provisions of this permit, the cumulative monthly OC emission rate for all coatings and cleanup materials employed (the summation of A.III.2.d for all coatings and cleanup materials), in tons;
 - after the first 12 months of operation under the provisions of this permit, the rolling, 12-month OC emissions, for all coatings and cleanup materials, in tons.

Note: The information required above must be recorded for the materials as applied, including any thinning solvents added at the emissions unit.

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

3. The permittee shall collect and record the following HAP information each month for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined:
- the name and identification number of each coating and cleanup material employed;
 - the amount of each individual HAP in each coating and cleanup material, in lbs/gallon, as applied;
 - the number of gallons of each coating and cleanup material employed;
 - the emission rate for each individual HAP from each coating and cleanup material employed (A.III.3.b x A.III.3.c) for each individual HAP, in lbs;
 - the total emission rate for each individual HAP from all the coatings and cleanup materials employed (for each individual HAP, the summation of A.III.3.d for all coatings and cleanup materials), in lbs;
 - the total HAP emission rate for all HAPs combined from all the coatings and cleanup materials employed (summation of A.III.3.e for all HAPs for all coatings and cleanup materials), in lbs;
 - for the first 12 months of operation under the provisions of this permit, the cumulative monthly emission rate of each individual HAP and all HAPs combined, in tons; and
 - after the first 12 months of operation under the provisions of this permit, the rolling, 12-month emissions of each individual HAP and all HAPs combined, in tons.
- [OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
4. The permittee shall maintain daily records that document any time periods when the dry filtration /water curtain system was not in service when the emissions unit was in operation.
- [OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify the following:
 - a. for the first 12 calendar months of operation under the provisions of this permit, all exceedances of the maximum allowable cumulative quantity of coating and cleanup material limitations specified in section A.II.1 (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).
 - b. after the first 12 months of operation under the provisions of this permit, all exceedances of the rolling, 12-month quantity of coatings and cleanup materials employed as specified in section A.II.1 (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).
 - c. for the first 12 calendar months of operation under the provisions of this permit, all exceedances of the maximum allowable cumulative individual HAP and combined HAPs emission limitations specified in section A.I.2.b (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).
 - d. after the first 12 months of operation under the provisions of this permit, all exceedances of the rolling, 12-month individual HAP and combined HAPs emission limitations of 9.90 tons and 24.90 tons, respectively (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).

These reports shall be submitted in accordance with the general terms and conditions of this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

2. The permittee shall notify the Director (the Ohio EPA, Northwest District Office) in writing of any monthly record showing the use of any cleanup material which exceeds an OC content of 7.34 lbs OC/gallon. These notifications 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.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
3. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any daily record showing that the dry filtration/water curtain system was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days after the event occurs.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

V. Testing Requirements

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

- 1.a Emission Limitation:
4.80 lbs OC/hr, from coatings operations

Applicable Compliance Method:

The hourly allowable OC emission limitation above represents the potential to emit for this emission unit and was established by multiplying the maximum hourly coatings usage rate (0.72 gallons per hour) by the maximum OC content of all the coatings (6.67 pounds per gallon).

If required, the permittee shall demonstrate compliance with the hourly allowable OC emission limitation above in accordance with 40 CFR Part 60 Appendix A, Methods 1 through 4 and 18, 25, or 25A, as appropriate.

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

V. Testing Requirements (continued)

1.b Emission Limitation:

230.0 tons of OC per rolling, 12-month period, from coating and cleanup materials employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined.

Applicable Compliance Method:

Compliance with the annual allowable OC emission limitation above shall be based upon the record keeping requirements specified in section A.III.2 of this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

1.c Emission Limitation:

9.90 tons per rolling, 12-month period for any individual Hazardous Air Pollutant (HAP) and 24.90 tons per rolling, 12-month period for any combination of HAPs [for emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined]

Applicable Compliance Method:

Compliance with the annual allowable HAP emission limitations above shall be based upon the record keeping requirements specified in section A.III.3 of this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

1.d Emission Limitation:

The OC content of any cleanup material employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and/or R112 shall not exceed 7.34 lbs OC/gallon

Applicable Compliance Method:

Compliance with the OC content limitation above shall be based upon the record keeping requirements specified in section A.III.2.b of this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

1.e Emission Limitation:

0.551 pound PE per hour (per individual coating operation)

Applicable Compliance Method:

To determine the actual worst case PE rate (E), the following equation shall be used for each individual coating operations:

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

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

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

CE = control efficiency of the control equipment (established at > 98%)

If required, the permittee shall demonstrate compliance with the emission limitation above pursuant to OAC rule 3745-17-03(B)(10).

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

1.f Emission Limitation:

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

Applicable Compliance Method:

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

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

Facility Name: **Jay Plastics**
Facility ID: **03-70-01-0058**
Emissions Unit: **Paint Line Prime Coat (R105)**

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: Paint Line Base Coat (R108)
Activity Description: Base coating of miscellaneous plastic parts

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>
Upstairs Clear - Devilbiss Turboclean clear coat spray booth with HVLP robotic application (plastic parts)	OAC rule 3745-31-05 (A)(3) (PTI 03-17180 issued April 3, 2007)	3.97 lbs organic compounds (OC)/hr from coating operations
	OAC rule 3745-31-05 (A)(3) (PTI 03-17260 issued May 17, 2007)	See A.I.2.a and A.I.2.c The OC content of any cleanup material employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and/or R112 shall not exceed 7.34 lbs OC/gallon.
	OAC rule 3745-31-05(C) (PTI 03-17260 issued May 17, 2007)	230 tons of OC per rolling, 12-month period from coating and cleanup materials employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined (See A.I.2.b.i and A.II.1)
	OAC rule 3745-17-11(B)	9.90 tons per rolling, 12- month period for any individual Hazardous Air Pollutant (HAP) and 24.9 tons per rolling, 12-month period for any combination of HAPs [for emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined] (See A.I.2.b.ii.)
	OAC rule 3745-17-07(A)	0.551 lb particulate emission (PE)/hr Visible particulate emissions shall not exceed 20 percent opacity, as a six-minute average, except as provided by rule

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	OAC rule 3745-21-07(G)(2)	See A.II.2

2. Additional Terms and Conditions

- 2.a** The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(C), OAC rule 3745-17-11(B), and OAC rule 3745-17-07(A).
- 2.b** The Permit to Install (PTI) established the following federally enforceable emission limitations for purposes of avoiding the applicability of Maximum Achievable Control Technology (MACT) regulations and establish the facility as a minor source for attainment New Source Review:
 - i. 230.0 tons of OC per rolling, 12-month period from the coating and cleanup operations [for emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined] based on a coating/cleanup usage restriction (See A.II.1). For purposes of federal enforceability an emission limitation on OC effectively limits emissions of volatile organic compounds (VOC).
 - ii. Annual HAP emissions from emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined, shall not exceed 9.90 tons per rolling, 12-month period for any individual HAP or 24.90 tons per rolling, 12-month period for any combination of HAPs.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the HAP emission rates specified in the following table:

Maximum Allowable Cumulative HAP Emission Rates (tons):		
Month(s)	Individual HAP	Combined HAPs
1-1	1.00	2.49
1-2	1.81	4.53
1-3	2.62	6.57
1-4	3.43	8.61
1-5	4.24	10.6
1-6	5.05	12.7
1-7	5.86	14.7
1-8	6.67	16.8
1-9	7.48	18.8
1-10	8.29	20.8
1-11	9.10	22.9
1-12	9.90	24.9

After the first 12 calendar months of operation under the provisions of this permit, compliance with the annual HAP limitations shall be based upon a rolling, 12-month summation of the monthly emission rates.

Hazardous Air Pollutant (HAP) means any air pollutant listed in or pursuant to Section 112 (b) of the Clean Air Act.

- 2.c** The hourly emission limitation of 3.97 lbs OC/hr from coating operations represents the potential to emit for this emissions unit. Therefore, no monitoring, record keeping, or reporting requirements are necessary to ensure compliance with this emission limitation.

II. Operational Restrictions

- The maximum rolling, 12-month quantity of coatings and cleanup materials employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined, is limited by the following equation:

$$\text{sum}[M=1,12] \{ \text{sum}[i=1,n] (V_i G_i) \div 2000 \text{ lbs/ton} \} \leq 230.0$$

where,

M = the increment of the rolling 12-month period;

V_i = OC content in pounds per gallon of each coating/cleanup employed;

G_i = Gallons used of each coating and cleanup material for the rolling 12 month period

n = total number of unique coatings and cleanup materials employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112

To ensure enforceability during the first 12 calendar months of operation under the provisions of this permit, the maximum cumulative amount of coating and cleanup material employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined, shall not exceed the following rates:

Month	sum[M=1,12] {sum[i=1,n](V _i G _i) ÷ 2000 lbs/ton} <=
1	23.0
1-2	41.8
1-3	60.6
1-4	79.5
1-5	98.3
1-6	117
1-7	136
1-8	155
1-9	174
1-10	192
1-11	211
1-12	230

After the first 12 calendar months of operation under the provisions of this permit, compliance with the annual restriction on the amount coating and cleanup material shall be based upon a rolling, 12-month summation. [OAC rules 3745-77-07(A)(1) and 3745-31-05(A)(3)]

- The use of photochemically reactive materials, as defined in OAC rule 3745-21-01, in this emissions unit is prohibited. [OAC rules 3745-77-07(A)(1) and 3745-31-05(A)(3)]
- The permittee shall operate the dry filtration /water curtain system for the control of particulate emissions whenever this emissions unit is in operation. [OAC rules 3745-77-07(A)(1) and 3745-31-05(A)(3)]

III. Monitoring and/or Record Keeping Requirements

- The permittee shall collect and record the following information each month coating and cleanup material employed in this emissions unit:
 - the name and company identification number for each coating and cleanup material employed;
 - documentation of whether or not each coating and cleanup material employed is a photochemically reactive material, as defined in OAC rule 3745-21-01. [OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

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

2. The permittee shall collect and record the following information each month for all coatings and cleanup materials employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined:
- the name and identification number of each coating and cleanup material employed;
 - the OC content of each coating and cleanup material employed, in pounds per gallon, as applied;
 - the volume, in gallons, of each coating and cleanup material employed;
 - the OC emission rate for each coating and cleanup material employed (A.III.2.b x A.III.2.c), in pounds.
 - for the first 12 months of operation under the provisions of this permit, the cumulative monthly OC emission rate for all coatings and cleanup materials employed (the summation of A.III.2.d for all coatings and cleanup materials), in tons;
 - after the first 12 months of operation under the provisions of this permit, the rolling, 12-month OC emissions, for all coatings and cleanup materials, in tons.

Note: The information required above must be recorded for the materials as applied, including any thinning solvents added at the emissions unit.

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

3. The permittee shall collect and record the following HAP information each month for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined:
- the name and identification number of each coating and cleanup material employed;
 - the amount of each individual HAP in each coating and cleanup material, in lbs/gallon, as applied;
 - the number of gallons of each coating and cleanup material employed;
 - the emission rate for each individual HAP from each coating and cleanup material employed (A.III.3.b x A.III.3.c) for each individual HAP, in lbs;
 - the total emission rate for each individual HAP from all the coatings and cleanup materials employed (for each individual HAP, the summation of A.III.3.d for all coatings and cleanup materials), in lbs;
 - the total HAP emission rate for all HAPs combined from all the coatings and cleanup materials employed (summation of A.III.3.e for all HAPs for all coatings and cleanup materials), in lbs;
 - for the first 12 months of operation under the provisions of this permit, the cumulative monthly emission rate of each individual HAP and all HAPs combined, in tons; and
 - after the first 12 months of operation under the provisions of this permit, the rolling, 12-month emissions of each individual HAP and all HAPs combined, in tons.
- [OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
4. The permittee shall maintain daily records that document any time periods when the dry filtration /water curtain system was not in service when the emissions unit was in operation.
- [OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify the following:
 - a. for the first 12 calendar months of operation under the provisions of this permit, all exceedances of the maximum allowable cumulative quantity of coating and cleanup material limitations specified in section A.II.1 (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).
 - b. after the first 12 months of operation under the provisions of this permit, all exceedances of the rolling, 12-month quantity of coatings and cleanup materials employed as specified in section A.II.1 (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).
 - c. for the first 12 calendar months of operation under the provisions of this permit, all exceedances of the maximum allowable cumulative individual HAP and combined HAPs emission limitations specified in section A.I.2.b (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).
 - d. after the first 12 months of operation under the provisions of this permit, all exceedances of the rolling, 12-month individual HAP and combined HAPs emission limitations of 9.90 tons and 24.90 tons, respectively (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).

These reports shall be submitted in accordance with the general terms and conditions of this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

2. The permittee shall notify the Director (the Ohio EPA, Northwest District Office) in writing of any monthly record showing the use of any cleanup material which exceeds an OC content of 7.34 lbs OC/gallon. These notifications 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.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
3. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any daily record showing that the dry filtration/water curtain system was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days after the event occurs.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

V. Testing Requirements

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

- 1.a Emission Limitation:
3.97 lbs OC/hr, from coatings operations

Applicable Compliance Method:

The hourly allowable OC emission limitation above represents the potential to emit for this emission unit and was established by multiplying the maximum hourly coatings usage rate (0.60 gallons per hour) by the maximum OC content of all the coatings (6.61 pounds per gallon).

If required, the permittee shall demonstrate compliance with the hourly allowable OC emission limitation above in accordance with 40 CFR Part 60 Appendix A, Methods 1 through 4 and 18, 25, or 25A, as appropriate.

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

V. Testing Requirements (continued)

1.b Emission Limitation:

230.0 tons of OC per rolling, 12-month period, from coating and cleanup materials employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined.

Applicable Compliance Method:

Compliance with the annual allowable OC emission limitation above shall be based upon the record keeping requirements specified in section A.III.2 of this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

1.c Emission Limitation:

9.90 tons per rolling, 12- month period for any individual Hazardous Air Pollutant (HAP) and 24.90 tons per rolling, 12-month period for any combination of HAPs [for emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined]

Applicable Compliance Method:

Compliance with the annual allowable HAP emission limitations above shall be based upon the record keeping requirements specified in section A.III.3 of this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

1.d Emission Limitation:

The OC content of any cleanup material employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and/or R112 shall not exceed 7.34 lbs OC/gallon

Applicable Compliance Method:

Compliance with the OC content limitation above shall be based upon the record keeping requirements specified in section A.III.2.b if this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

1.e Emission Limitation:

0.551 pound PE per hour (per individual coating operation)

Applicable Compliance Method:

To determine the actual worst case PE rate (E), the following equation shall be used for each individual coating operations:

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

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

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

CE = control efficiency of the control equipment (established at > 98%)

If required, the permittee shall demonstrate compliance with the emission limitation above pursuant to OAC rule 3745-17-03(B)(10).

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

1.f Emission Limitation:

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

Applicable Compliance Method:

If required, compliance shall be determine in accordance with OAC rule 3745-17-03(B)(1).

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

Facility Name: **Jay Plastics**
Facility ID: **03-70-01-0058**
Emissions Unit: **Paint Line Base Coat (R108)**

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>
Upstairs Clear - Devilbiss Turboclean clear coat spray booth with HVLP robotic application (plastic parts)	See B.III.1 through B.III.4	See B.III.1 through B.III.4

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permit to install for this emission unit 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: Toluene; Methanol
 TLV: 50 ppm; 200 ppm
 Maximum Hourly Emission Rate (lbs/hr): 0.27; 0.55
 Predicted 1-Hour Maximum Ground-Level Conc. (ug/m3): 14.8; 30.2
 MAGLC (ug/m3): 8480; 6240

2. Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxic Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxic Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxic Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxic Policy" include the following:
 - a. changes in the composition of the materials used (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;
 - b. 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
 - c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

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: Paint Line Base Coat (R109)
Activity Description: Base coating of miscellaneous plastic parts

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>
Stanley Booth - Breitlinger Spray booth with HVLP robotic application (plastic parts)	OAC rule 3745-31-05 (A)(3) (PTI 03-17180 issued April 3, 2007)	3.26 lbs organic compounds (OC)/hr from coating operations
	OAC rule 3745-31-05 (A)(3) (PTI 03-17260 issued May 17, 2007)	See A.I.2.a and A.I.2.c The OC content of any cleanup material employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and/or R112 shall not exceed 7.34 lbs OC/gallon.
	OAC rule 3745-31-05(C) (PTI 03-17260 issued May 17, 2007)	230 tons of OC per rolling, 12-month period from coating and cleanup materials employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined (See A.I.2.b.i and A.II.1)
	OAC rule 3745-17-11(B)	9.90 tons per rolling, 12- month period for any individual Hazardous Air Pollutant (HAP) and 24.9 tons per rolling, 12-month period for any combination of HAPs [for emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined] (See A.I.2.b.ii.)
	OAC rule 3745-17-07(A)	0.551 lb particulate emission (PE)/hr Visible particulate emissions shall not exceed 20 percent opacity, as a six-minute average, except as provided by rule

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	OAC rule 3745-21-07(G)(2)	See A.II.2

2. Additional Terms and Conditions

- 2.a** The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(C), OAC rule 3745-17-11(B), and OAC rule 3745-17-07(A).
- 2.b** The Permit to Install (PTI) established the following federally enforceable emission limitations for purposes of avoiding the applicability of Maximum Achievable Control Technology (MACT) regulations and establish the facility as a minor source for attainment New Source Review:
 - i. 230.0 tons of OC per rolling, 12-month period from the coating and cleanup operations [for emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined] based on a coating/cleanup usage restriction (See A.II.1). For purposes of federal enforceability an emission limitation on OC effectively limits emissions of volatile organic compounds (VOC).
 - ii. Annual HAP emissions from emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined, shall not exceed 9.90 tons per rolling, 12-month period for any individual HAP or 24.90 tons per rolling, 12-month period for any combination of HAPs.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the HAP emission rates specified in the following table:

Maximum Allowable Cumulative HAP Emission Rates (tons):

Month(s)	Individual HAP	Combined HAPs
1-1	1.00	2.49
1-2	1.81	4.53
1-3	2.62	6.57
1-4	3.43	8.61
1-5	4.24	10.6
1-6	5.05	12.7
1-7	5.86	14.7
1-8	6.67	16.8
1-9	7.48	18.8
1-10	8.29	20.8
1-11	9.10	22.9
1-12	9.90	24.9

After the first 12 calendar months of operation under the provisions of this permit, compliance with the annual HAP limitations shall be based upon a rolling, 12-month summation of the monthly emission rates.

Hazardous Air Pollutant (HAP) means any air pollutant listed in or pursuant to Section 112 (b) of the Clean Air Act.

- 2.c** The hourly emission limitation of 3.26 lbs OC/hr from coating operations represents the potential to emit for this emissions unit. Therefore, no monitoring, record keeping, or reporting requirements are necessary to ensure compliance with this emission limitation.

II. Operational Restrictions

1. The maximum rolling, 12-month quantity of coatings and cleanup materials employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined, is limited by the following equation:

$$\text{sum}[M=1,12] \{ \text{sum}[i=1,n] (V_i G_i) \div 2000 \text{ lbs/ton} \} \leq 230.0$$

where,

M = the increment of the rolling 12-month period;

V_i = OC content in pounds per gallon of each coating/cleanup employed;

G_i = Gallons used of each coating and cleanup material for the rolling 12 month period

n = total number of unique coatings and cleanup materials employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112

To ensure enforceability during the first 12 calendar months of operation under the provisions of this permit, the maximum cumulative amount of coating and cleanup material employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined, shall not exceed the following rates:

Month	sum[M=1,12] {sum[i=1,n](V _i G _i) ÷ 2000 lbs/ton} <=
1	23.0
1-2	41.8
1-3	60.6
1-4	79.5
1-5	98.3
1-6	117
1-7	136
1-8	155
1-9	174
1-10	192
1-11	211
1-12	230

After the first 12 calendar months of operation under the provisions of this permit, compliance with the annual restriction on the amount coating and cleanup material shall be based upon a rolling, 12-month summation. [OAC rules 3745-77-07(A)(1) and 3745-31-05(A)(3)]

2. The use of photochemically reactive materials, as defined in OAC rule 3745-21-01, in this emissions unit is prohibited. [OAC rules 3745-77-07(A)(1) and 3745-31-05(A)(3)]
3. The permittee shall operate the dry filtration /water curtain system for the control of particulate emissions whenever this emissions unit is in operation. [OAC rules 3745-77-07(A)(1) and 3745-31-05(A)(3)]

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information each month coating and cleanup material employed in this emissions unit:
 - a. the name and company identification number for each coating and cleanup material employed;
 - b. documentation of whether or not each coating and cleanup material employed is a photochemically reactive material, as defined in OAC rule 3745-21-01. [OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

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

2. The permittee shall collect and record the following information each month for all coatings and cleanup materials employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined:
- the name and identification number of each coating and cleanup material employed;
 - the OC content of each coating and cleanup material employed, in pounds per gallon, as applied;
 - the volume, in gallons, of each coating and cleanup material employed;
 - the OC emission rate for each coating and cleanup material employed (A.III.2.b x A.III.2.c), in pounds.
 - for the first 12 months of operation under the provisions of this permit, the cumulative monthly OC emission rate for all coatings and cleanup materials employed (the summation of A.III.2.d for all coatings and cleanup materials), in tons;
 - after the first 12 months of operation under the provisions of this permit, the rolling, 12-month OC emissions, for all coatings and cleanup materials, in tons.

Note: The information required above must be recorded for the materials as applied, including any thinning solvents added at the emissions unit.

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

3. The permittee shall collect and record the following HAP information each month for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined:
- the name and identification number of each coating and cleanup material employed;
 - the amount of each individual HAP in each coating and cleanup material, in lbs/gallon, as applied;
 - the number of gallons of each coating and cleanup material employed;
 - the emission rate for each individual HAP from each coating and cleanup material employed (A.III.3.b x A.III.3.c) for each individual HAP, in lbs;
 - the total emission rate for each individual HAP from all the coatings and cleanup materials employed (for each individual HAP, the summation of A.III.3.d for all coatings and cleanup materials), in lbs;
 - the total HAP emission rate for all HAPs combined from all the coatings and cleanup materials employed (summation of A.III.3.e for all HAPs for all coatings and cleanup materials), in lbs;
 - for the first 12 months of operation under the provisions of this permit, the cumulative monthly emission rate of each individual HAP and all HAPs combined, in tons; and
 - after the first 12 months of operation under the provisions of this permit, the rolling, 12-month emissions of each individual HAP and all HAPs combined, in tons.
- [OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
4. The permittee shall maintain daily records that document any time periods when the dry filtration /water curtain system was not in service when the emissions unit was in operation.
- [OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify the following:
 - a. for the first 12 calendar months of operation under the provisions of this permit, all exceedances of the maximum allowable cumulative quantity of coating and cleanup material limitations specified in section A.II.1 (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).
 - b. after the first 12 months of operation under the provisions of this permit, all exceedances of the rolling, 12-month quantity of coatings and cleanup materials employed as specified in section A.II.1 (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).
 - c. for the first 12 calendar months of operation under the provisions of this permit, all exceedances of the maximum allowable cumulative individual HAP and combined HAPs emission limitations specified in section A.I.2.b (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).
 - d. after the first 12 months of operation under the provisions of this permit, all exceedances of the rolling, 12-month individual HAP and combined HAPs emission limitations of 9.90 tons and 24.90 tons, respectively (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).

These reports shall be submitted in accordance with the general terms and conditions of this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

2. The permittee shall notify the Director (the Ohio EPA, Northwest District Office) in writing of any monthly record showing the use of any cleanup material which exceeds an OC content of 7.34 lbs OC/gallon. These notifications 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.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
3. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any daily record showing that the dry filtration/water curtain system was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days after the event occurs.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

V. Testing Requirements

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

- 1.a Emission Limitation:
3.26 lbs OC/hr, from coatings operations

Applicable Compliance Method:

The hourly allowable OC emission limitation above represents the potential to emit for this emission unit and was established by multiplying the maximum hourly coatings usage rate (0.48 gallons per hour) by the maximum OC content of all the coatings (6.79 pounds per gallon).

If required, the permittee shall demonstrate compliance with the hourly allowable OC emission limitation above in accordance with 40 CFR Part 60 Appendix A, Methods 1 through 4 and 18, 25, or 25A, as appropriate.

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

V. Testing Requirements (continued)

1.b Emission Limitation:

230.0 tons of OC per rolling, 12-month period, from coating and cleanup materials employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined.

Applicable Compliance Method:

Compliance with the annual allowable OC emission limitation above shall be based upon the record keeping requirements specified in section A.III.2 of this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

1.c Emission Limitation:

9.90 tons per rolling, 12- month period for any individual Hazardous Air Pollutant (HAP) and 24.90 tons per rolling, 12-month period for any combination of HAPs [for emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined]

Applicable Compliance Method:

Compliance with the annual allowable HAP emission limitations above shall be based upon the record keeping requirements specified in section A.III.3 of this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

1.d Emission Limitation:

The OC content of any cleanup material employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and/or R112 shall not exceed 7.34 lbs OC/gallon

Applicable Compliance Method:

Compliance with the OC content limitation above shall be based upon the record keeping requirements specified in section A.III.2.b if this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

1.e Emission Limitation:

0.551 pound PE per hour (per individual coating operation)

Applicable Compliance Method:

To determine the actual worst case PE rate (E), the following equation shall be used for each individual coating operations:

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

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

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

CE = control efficiency of the control equipment (established at > 98%)

If required, the permittee shall demonstrate compliance with the emission limitation above pursuant to OAC rule 3745-17-03(B)(10).

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

1.f Emission Limitation:

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

Applicable Compliance Method:

If required, compliance shall be determine in accordance with OAC rule 3745-17-03(B)(1).

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

Facility Name: **Jay Plastics**
Facility ID: **03-70-01-0058**
Emissions Unit: **Paint Line Base Coat (R109)**

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>
Full Size Clear Coat - Binks clear coat spray booth with HVLP robotic application (plastic parts)	See B.III.1 through B.III.4	See B.III.1 through B.III.4

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

- The permit to install for this emission unit 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: Toluene
 TLV: 50 ppm
 Maximum Hourly Emission Rate (lbs/hr): 0.53
 Predicted 1-Hour Maximum Ground-Level Concentration (ug/m3): 13.2
 MAGLC (ug/m3): 8480

- 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: Paint Line Base Coat (R110)
Activity Description: Base coating of miscellaneous plastic parts

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>
Stanley Base - Devilbiss Turboclean spray booth with HVLP robotic application (plastic parts)	OAC rule 3745-31-05 (A)(3) (PTI 03-17180 issued April 3, 2007)	2.96 lbs organic compounds (OC)/hr from coating operations
	OAC rule 3745-31-05 (A)(3) (PTI 03-17260 issued May 17, 2007)	See A.I.2.a and A.I.2.c The OC content of any cleanup material employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and/or R112 shall not exceed 7.34 lbs OC/gallon.
	OAC rule 3745-31-05(C) (PTI 03-17260 issued May 17, 2007)	230 tons of OC per rolling, 12-month period from coating and cleanup materials employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined (See A.I.2.b.i and A.II.1)
	OAC rule 3745-17-11(B)	9.90 tons per rolling, 12- month period for any individual Hazardous Air Pollutant (HAP) and 24.9 tons per rolling, 12-month period for any combination of HAPs [for emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined] (See A.I.2.b.ii.)
	OAC rule 3745-17-07(A)	0.551 lb particulate emission (PE)/hr Visible particulate emissions shall not exceed 20 percent opacity, as a six-minute average, except as provided by rule

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	OAC rule 3745-21-07(G)(2)	See A.II.2

2. Additional Terms and Conditions

- 2.a** The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(C), OAC rule 3745-17-11(B), and OAC rule 3745-17-07(A).
- 2.b** The Permit to Install (PTI) established the following federally enforceable emission limitations for purposes of avoiding the applicability of Maximum Achievable Control Technology (MACT) regulations and establish the facility as a minor source for attainment New Source Review:
 - i. 230.0 tons of OC per rolling, 12-month period from the coating and cleanup operations [for emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined] based on a coating/cleanup usage restriction (See A.II.1). For purposes of federal enforceability an emission limitation on OC effectively limits emissions of volatile organic compounds (VOC).
 - ii. Annual HAP emissions from emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined, shall not exceed 9.90 tons per rolling, 12-month period for any individual HAP or 24.90 tons per rolling, 12-month period for any combination of HAPs.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the HAP emission rates specified in the following table:

Maximum Allowable Cumulative HAP Emission Rates (tons):		
Month(s)	Individual HAP	Combined HAPs
1-1	1.00	2.49
1-2	1.81	4.53
1-3	2.62	6.57
1-4	3.43	8.61
1-5	4.24	10.6
1-6	5.05	12.7
1-7	5.86	14.7
1-8	6.67	16.8
1-9	7.48	18.8
1-10	8.29	20.8
1-11	9.10	22.9
1-12	9.90	24.9

After the first 12 calendar months of operation under the provisions of this permit, compliance with the annual HAP limitations shall be based upon a rolling, 12-month summation of the monthly emission rates.

Hazardous Air Pollutant (HAP) means any air pollutant listed in or pursuant to Section 112 (b) of the Clean Air Act.

- 2.c** The hourly emission limitation of 2.96 lbs OC/hr from coating operations represents the potential to emit for this emissions unit. Therefore, no monitoring, record keeping, or reporting requirements are necessary to ensure compliance with this emission limitation.

II. Operational Restrictions

1. The maximum rolling, 12-month quantity of coatings and cleanup materials employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined, is limited by the following equation:

$$\text{sum}[M=1,12] \{ \text{sum}[i=1,n] (V_i G_i) \div 2000 \text{ lbs/ton} \} \leq 230.0$$

where,

M = the increment of the rolling 12-month period;

V_i = OC content in pounds per gallon of each coating/cleanup employed;

G_i = Gallons used of each coating and cleanup material for the rolling 12 month period

n = total number of unique coatings and cleanup materials employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112

To ensure enforceability during the first 12 calendar months of operation under the provisions of this permit, the maximum cumulative amount of coating and cleanup material employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined, shall not exceed the following rates:

Month	sum[M=1,12] {sum[i=1,n](V _i G _i) ÷ 2000 lbs/ton} <=
1	23.0
1-2	41.8
1-3	60.6
1-4	79.5
1-5	98.3
1-6	117
1-7	136
1-8	155
1-9	174
1-10	192
1-11	211
1-12	230

After the first 12 calendar months of operation under the provisions of this permit, compliance with the annual restriction on the amount coating and cleanup material shall be based upon a rolling, 12-month summation. [OAC rules 3745-77-07(A)(1) and 3745-31-05(A)(3)]

2. The use of photochemically reactive materials, as defined in OAC rule 3745-21-01, in this emissions unit is prohibited. [OAC rules 3745-77-07(A)(1) and 3745-31-05(A)(3)]
3. The permittee shall operate the dry filtration /water curtain system for the control of particulate emissions whenever this emissions unit is in operation. [OAC rules 3745-77-07(A)(1) and 3745-31-05(A)(3)]

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information each month coating and cleanup material employed in this emissions unit:
 - a. the name and company identification number for each coating and cleanup material employed;
 - b. documentation of whether or not each coating and cleanup material employed is a photochemically reactive material, as defined in OAC rule 3745-21-01. [OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

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

2. The permittee shall collect and record the following information each month for all coatings and cleanup materials employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined:
- the name and identification number of each coating and cleanup material employed;
 - the OC content of each coating and cleanup material employed, in pounds per gallon, as applied;
 - the volume, in gallons, of each coating and cleanup material employed;
 - the OC emission rate for each coating and cleanup material employed (A.III.2.b x A.III.2.c), in pounds.
 - for the first 12 months of operation under the provisions of this permit, the cumulative monthly OC emission rate for all coatings and cleanup materials employed (the summation of A.III.2.d for all coatings and cleanup materials), in tons;
 - after the first 12 months of operation under the provisions of this permit, the rolling, 12-month OC emissions, for all coatings and cleanup materials, in tons.

Note: The information required above must be recorded for the materials as applied, including any thinning solvents added at the emissions unit.

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

3. The permittee shall collect and record the following HAP information each month for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined:
- the name and identification number of each coating and cleanup material employed;
 - the amount of each individual HAP in each coating and cleanup material, in lbs/gallon, as applied;
 - the number of gallons of each coating and cleanup material employed;
 - the emission rate for each individual HAP from each coating and cleanup material employed (A.III.3.b x A.III.3.c) for each individual HAP, in lbs;
 - the total emission rate for each individual HAP from all the coatings and cleanup materials employed (for each individual HAP, the summation of A.III.3.d for all coatings and cleanup materials), in lbs;
 - the total HAP emission rate for all HAPs combined from all the coatings and cleanup materials employed (summation of A.III.3.e for all HAPs for all coatings and cleanup materials), in lbs;
 - for the first 12 months of operation under the provisions of this permit, the cumulative monthly emission rate of each individual HAP and all HAPs combined, in tons; and
 - after the first 12 months of operation under the provisions of this permit, the rolling, 12-month emissions of each individual HAP and all HAPs combined, in tons.
- [OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
4. The permittee shall maintain daily records that document any time periods when the dry filtration /water curtain system was not in service when the emissions unit was in operation.
- [OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify the following:
 - a. for the first 12 calendar months of operation under the provisions of this permit, all exceedances of the maximum allowable cumulative quantity of coating and cleanup material limitations specified in section A.II.1 (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).
 - b. after the first 12 months of operation under the provisions of this permit, all exceedances of the rolling, 12-month quantity of coatings and cleanup materials employed as specified in section A.II.1 (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).
 - c. for the first 12 calendar months of operation under the provisions of this permit, all exceedances of the maximum allowable cumulative individual HAP and combined HAPs emission limitations specified in section A.I.2.b (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).
 - d. after the first 12 months of operation under the provisions of this permit, all exceedances of the rolling, 12-month individual HAP and combined HAPs emission limitations of 9.90 tons and 24.90 tons, respectively (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).

These reports shall be submitted in accordance with the general terms and conditions of this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

2. The permittee shall notify the Director (the Ohio EPA, Northwest District Office) in writing of any monthly record showing the use of any cleanup material which exceeds an OC content of 7.34 lbs OC/gallon. These notifications 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.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
3. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any daily record showing that the dry filtration/water curtain system was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days after the event occurs.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

V. Testing Requirements

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

- 1.a Emission Limitation:
2.96 lbs OC/hr, from coatings operations

Applicable Compliance Method:

The hourly allowable OC emission limitation above represents the potential to emit for this emission unit and was established by multiplying the maximum hourly coatings usage rate (0.60 gallons per hour) by the maximum OC content of all the coatings (4.93 pounds per gallon).

If required, the permittee shall demonstrate compliance with the hourly allowable OC emission limitation above in accordance with 40 CFR Part 60 Appendix A, Methods 1 through 4 and 18, 25, or 25A, as appropriate.

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

V. Testing Requirements (continued)

- 1.b** Emission Limitation:
230.0 tons of OC per rolling, 12-month period, from coating and cleanup materials employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined.
- Applicable Compliance Method:
Compliance with the annual allowable OC emission limitation above shall be based upon the record keeping requirements specified in section A.III.2 of this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
- 1.c** Emission Limitation:
9.90 tons per rolling, 12- month period for any individual Hazardous Air Pollutant (HAP) and 24.90 tons per rolling, 12-month period for any combination of HAPs [for emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined]
- Applicable Compliance Method:
Compliance with the annual allowable HAP emission limitations above shall be based upon the record keeping requirements specified in section A.III.3 of this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
- 1.d** Emission Limitation:
The OC content of any cleanup material employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and/or R112 shall not exceed 7.34 lbs OC/gallon
- Applicable Compliance Method:
Compliance with the OC content limitation above shall be based upon the record keeping requirements specified in section A.III.2.b if this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
- 1.e** Emission Limitation:
0.551 pound PE per hour (per individual coating operation)
- Applicable Compliance Method:
To determine the actual worst case PE rate (E), the following equation shall be used for each individual coating operations:
- $E = PE \text{ rate (lbs/hr)}$
- $E = \text{maximum coating solids usage rate, in pounds per hour } (1-TE) \times (1-CE)$
- TE = transfer efficiency, which is the ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used
- CE = control efficiency of the control equipment (established at > 98%)
- If required, the permittee shall demonstrate compliance with the emission limitation above pursuant to OAC rule 3745-17-03(B)(10).
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
- 1.f** Emission Limitation:
Visible particulate emissions shall not exceed 20 percent opacity, as a six-minute average, except as provided by rule
- Applicable Compliance Method:
If required, compliance shall be determine in accordance with OAC rule 3745-17-03(B)(1).
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

Facility Name: **Jay Plastics**
Facility ID: **03-70-01-0058**
Emissions Unit: **Paint Line Base Coat (R110)**

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>
Stanley Base - Devilbiss Turboclean spray booth with HVLP robotic application (plastic parts)	See B.III.1 through B.III.4	See B.III.1 through B.III.4

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

- The permit to install for this emission unit 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: Toluene; Cyclohexane
 TLV: 50 ppm; 100 ppm
 Maximum Hourly Emission Rate (lbs/hr): 0.53; 0.34
 Predicted 1-Hour Maximum Ground-Level Conc. (ug/m3): 4.23; 6.25
 MAGLC (ug/m3): 8480; 8200

- 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: Paint Line Base Coat (R111)
Activity Description: Base coating of miscellaneous plastic parts

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>
Stanley Booth - Breitlinger spray booth with HVLP robotic application (plastic parts)	OAC rule 3745-31-05 (A)(3) (PTI 03-17180 issued April 3, 2007)	4.02 lbs organic compounds (OC)/hr from coating operations
	OAC rule 3745-31-05 (A)(3) (PTI 03-17260 issued May 17, 2007)	See A.I.2.a and A.I.2.c The OC content of any cleanup material employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and/or R112 shall not exceed 7.34 lbs OC/gallon.
	OAC rule 3745-31-05(C) (PTI 03-17260 issued May 17, 2007)	230 tons of OC per rolling, 12-month period from coating and cleanup materials employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined (See A.I.2.b.i and A.II.1)
	OAC rule 3745-17-11(B)	9.90 tons per rolling, 12- month period for any individual Hazardous Air Pollutant (HAP) and 24.9 tons per rolling, 12-month period for any combination of HAPs [for emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined] (See A.I.2.b.ii.)
	OAC rule 3745-17-07(A)	0.551 lb particulate emission (PE)/hr Visible particulate emissions shall not exceed 20 percent opacity, as a six-minute average, except as provided by rule

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	OAC rule 3745-21-07(G)(2)	See A.II.2

2. Additional Terms and Conditions

- 2.a** The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(C), OAC rule 3745-17-11(B), and OAC rule 3745-17-07(A).
- 2.b** The Permit to Install (PTI) established the following federally enforceable emission limitations for purposes of avoiding the applicability of Maximum Achievable Control Technology (MACT) regulations and establish the facility as a minor source for attainment New Source Review:
 - i. 230.0 tons of OC per rolling, 12-month period from the coating and cleanup operations [for emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined] based on a coating/cleanup usage restriction (See A.II.1). For purposes of federal enforceability an emission limitation on OC effectively limits emissions of volatile organic compounds (VOC).
 - ii. Annual HAP emissions from emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined, shall not exceed 9.90 tons per rolling, 12-month period for any individual HAP or 24.90 tons per rolling, 12-month period for any combination of HAPs.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the HAP emission rates specified in the following table:

Maximum Allowable Cumulative HAP Emission Rates (tons):		
Month(s)	Individual HAP	Combined HAPs
1-1	1.00	2.49
1-2	1.81	4.53
1-3	2.62	6.57
1-4	3.43	8.61
1-5	4.24	10.6
1-6	5.05	12.7
1-7	5.86	14.7
1-8	6.67	16.8
1-9	7.48	18.8
1-10	8.29	20.8
1-11	9.10	22.9
1-12	9.90	24.9

After the first 12 calendar months of operation under the provisions of this permit, compliance with the annual HAP limitations shall be based upon a rolling, 12-month summation of the monthly emission rates.

Hazardous Air Pollutant (HAP) means any air pollutant listed in or pursuant to Section 112 (b) of the Clean Air Act.

- 2.c** The hourly emission limitation of 4.02 lbs OC/hr from coating operations represents the potential to emit for this emissions unit. Therefore, no monitoring, record keeping, or reporting requirements are necessary to ensure compliance with this emission limitation.

II. Operational Restrictions

- The maximum rolling, 12-month quantity of coatings and cleanup materials employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined, is limited by the following equation:

$$\text{sum}[M=1,12] \{ \text{sum}[i=1,n] (V_i G_i) \div 2000 \text{ lbs/ton} \} \leq 230.0$$

where,

M = the increment of the rolling 12-month period;

V_i = OC content in pounds per gallon of each coating/cleanup employed;

G_i = Gallons used of each coating and cleanup material for the rolling 12 month period

n = total number of unique coatings and cleanup materials employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112

To ensure enforceability during the first 12 calendar months of operation under the provisions of this permit, the maximum cumulative amount of coating and cleanup material employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined, shall not exceed the following rates:

Month	sum[M=1,12] {sum[i=1,n](V _i G _i) ÷ 2000 lbs/ton} <=
1	23.0
1-2	41.8
1-3	60.6
1-4	79.5
1-5	98.3
1-6	117
1-7	136
1-8	155
1-9	174
1-10	192
1-11	211
1-12	230

After the first 12 calendar months of operation under the provisions of this permit, compliance with the annual restriction on the amount coating and cleanup material shall be based upon a rolling, 12-month summation. [OAC rules 3745-77-07(A)(1) and 3745-31-05(A)(3)]

- The use of photochemically reactive materials, as defined in OAC rule 3745-21-01, in this emissions unit is prohibited. [OAC rules 3745-77-07(A)(1) and 3745-31-05(A)(3)]
- The permittee shall operate the dry filtration /water curtain system for the control of particulate emissions whenever this emissions unit is in operation. [OAC rules 3745-77-07(A)(1) and 3745-31-05(A)(3)]

III. Monitoring and/or Record Keeping Requirements

- The permittee shall collect and record the following information each month coating and cleanup material employed in this emissions unit:
 - the name and company identification number for each coating and cleanup material employed;
 - documentation of whether or not each coating and cleanup material employed is a photochemically reactive material, as defined in OAC rule 3745-21-01. [OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

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

2. The permittee shall collect and record the following information each month for all coatings and cleanup materials employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined:
- the name and identification number of each coating and cleanup material employed;
 - the OC content of each coating and cleanup material employed, in pounds per gallon, as applied;
 - the volume, in gallons, of each coating and cleanup material employed;
 - the OC emission rate for each coating and cleanup material employed (A.III.2.b x A.III.2.c), in pounds.
 - for the first 12 months of operation under the provisions of this permit, the cumulative monthly OC emission rate for all coatings and cleanup materials employed (the summation of A.III.2.d for all coatings and cleanup materials), in tons;
 - after the first 12 months of operation under the provisions of this permit, the rolling, 12-month OC emissions, for all coatings and cleanup materials, in tons.

Note: The information required above must be recorded for the materials as applied, including any thinning solvents added at the emissions unit.

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

3. The permittee shall collect and record the following HAP information each month for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined:
- the name and identification number of each coating and cleanup material employed;
 - the amount of each individual HAP in each coating and cleanup material, in lbs/gallon, as applied;
 - the number of gallons of each coating and cleanup material employed;
 - the emission rate for each individual HAP from each coating and cleanup material employed (A.III.3.b x A.III.3.c) for each individual HAP, in lbs;
 - the total emission rate for each individual HAP from all the coatings and cleanup materials employed (for each individual HAP, the summation of A.III.3.d for all coatings and cleanup materials), in lbs;
 - the total HAP emission rate for all HAPs combined from all the coatings and cleanup materials employed (summation of A.III.3.e for all HAPs for all coatings and cleanup materials), in lbs;
 - for the first 12 months of operation under the provisions of this permit, the cumulative monthly emission rate of each individual HAP and all HAPs combined, in tons; and
 - after the first 12 months of operation under the provisions of this permit, the rolling, 12-month emissions of each individual HAP and all HAPs combined, in tons.
- [OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
4. The permittee shall maintain daily records that document any time periods when the dry filtration /water curtain system was not in service when the emissions unit was in operation.
- [OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify the following:
 - a. for the first 12 calendar months of operation under the provisions of this permit, all exceedances of the maximum allowable cumulative quantity of coating and cleanup material limitations specified in section A.II.1 (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).
 - b. after the first 12 months of operation under the provisions of this permit, all exceedances of the rolling, 12-month quantity of coatings and cleanup materials employed as specified in section A.II.1 (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).
 - c. for the first 12 calendar months of operation under the provisions of this permit, all exceedances of the maximum allowable cumulative individual HAP and combined HAPs emission limitations specified in section A.I.2.b (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).
 - d. after the first 12 months of operation under the provisions of this permit, all exceedances of the rolling, 12-month individual HAP and combined HAPs emission limitations of 9.90 tons and 24.90 tons, respectively (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).

These reports shall be submitted in accordance with the general terms and conditions of this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

2. The permittee shall notify the Director (the Ohio EPA, Northwest District Office) in writing of any monthly record showing the use of any cleanup material which exceeds an OC content of 7.34 lbs OC/gallon. These notifications 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.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
3. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any daily record showing that the dry filtration/water curtain system was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days after the event occurs.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

V. Testing Requirements

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

- 1.a Emission Limitation:
4.02 lbs OC/hr, from coatings operations

Applicable Compliance Method:

The hourly allowable OC emission limitation above represents the potential to emit for this emission unit and was established by multiplying the maximum hourly coatings usage rate (0.60 gallons per hour) by the maximum OC content of all the coatings (6.67 pounds per gallon).

If required, the permittee shall demonstrate compliance with the hourly allowable OC emission limitation above in accordance with 40 CFR Part 60 Appendix A, Methods 1 through 4 and 18, 25, or 25A, as appropriate.

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

V. Testing Requirements (continued)

1.b Emission Limitation:

230.0 tons of OC per rolling, 12-month period, from coating and cleanup materials employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined.

Applicable Compliance Method:

Compliance with the annual allowable OC emission limitation above shall be based upon the record keeping requirements specified in section A.III.2 of this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

1.c Emission Limitation:

9.90 tons per rolling, 12- month period for any individual Hazardous Air Pollutant (HAP) and 24.90 tons per rolling, 12-month period for any combination of HAPs [for emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined]

Applicable Compliance Method:

Compliance with the annual allowable HAP emission limitations above shall be based upon the record keeping requirements specified in section A.III.3 of this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

1.d Emission Limitation:

The OC content of any cleanup material employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and/or R112 shall not exceed 7.34 lbs OC/gallon

Applicable Compliance Method:

Compliance with the OC content limitation above shall be based upon the record keeping requirements specified in section A.III.2.b if this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

1.e Emission Limitation:

0.551 pound PE per hour (per individual coating operation)

Applicable Compliance Method:

To determine the actual worst case PE rate (E), the following equation shall be used for each individual coating operations:

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

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

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

CE = control efficiency of the control equipment (established at > 98%)

If required, the permittee shall demonstrate compliance with the emission limitation above pursuant to OAC rule 3745-17-03(B)(10).

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

1.f Emission Limitation:

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

Applicable Compliance Method:

If required, compliance shall be determine in accordance with OAC rule 3745-17-03(B)(1).

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

Facility Name: **Jay Plastics**
Facility ID: **03-70-01-0058**
Emissions Unit: **Paint Line Base Coat (R111)**

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: Paint Line Base & Top (R112)

Activity Description: Base coat and top coat. Replaces R106, R107, and P105

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>
Downstairs Base Coat, Clear Coat and Oven (plastic parts) [Formerly R106, R107 and P105]	OAC rule 3745-31-05 (A)(3) (PTI 03-17180 issued April 3, 2007)	10.3 lbs organic compounds (OC)/hr from coating operations
	OAC rule 3745-31-05 (A)(3) (PTI 03-17260 issued May 17, 2007)	See A.I.2.a and A.I.2.c The OC content of any cleanup material employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and/or R112 shall not exceed 7.34 lbs OC/gallon.
	OAC rule 3745-31-05(C) (PTI 03-17260 issued May 17, 2007)	230 tons of OC per rolling, 12-month period from coating and cleanup materials employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined (See A.I.2.b.i and A.II.1)
	OAC rule 3745-17-11(B) OAC rule 3745-17-07(A)	9.90 tons per rolling, 12- month period for any individual Hazardous Air Pollutant (HAP) and 24.9 tons per rolling, 12-month period for any combination of HAPs [for emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined] (See A.I.2.b.ii.) 0.551 lb particulate emission (PE)/hr Visible particulate emissions shall not exceed 20 percent opacity, as a six-minute average, except as provided by rule

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	OAC rule 3745-21-07(G)(2)	See A.II.2

2. Additional Terms and Conditions

- 2.a** The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(C), OAC rule 3745-17-11(B), and OAC rule 3745-17-07(A).
- 2.b** The Permit to Install (PTI) established the following federally enforceable emission limitations for purposes of avoiding the applicability of Maximum Achievable Control Technology (MACT) regulations and establish the facility as a minor source for attainment New Source Review:
 - i. 230.0 tons of OC per rolling, 12-month period from the coating and cleanup operations [for emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined] based on a coating/cleanup usage restriction (See A.II.1). For purposes of federal enforceability an emission limitation on OC effectively limits emissions of volatile organic compounds (VOC).
 - ii. Annual HAP emissions from emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined, shall not exceed 9.90 tons per rolling, 12-month period for any individual HAP or 24.90 tons per rolling, 12-month period for any combination of HAPs.

To ensure federal enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the HAP emission rates specified in the following table:

Maximum Allowable Cumulative HAP Emission Rates (tons):		
Month(s)	Individual HAP	Combined HAPs
1-1	1.00	2.49
1-2	1.81	4.53
1-3	2.62	6.57
1-4	3.43	8.61
1-5	4.24	10.6
1-6	5.05	12.7
1-7	5.86	14.7
1-8	6.67	16.8
1-9	7.48	18.8
1-10	8.29	20.8
1-11	9.10	22.9
1-12	9.90	24.9

After the first 12 calendar months of operation under the provisions of this permit, compliance with the annual HAP limitations shall be based upon a rolling, 12-month summation of the monthly emission rates.

Hazardous Air Pollutant (HAP) means any air pollutant listed in or pursuant to Section 112 (b) of the Clean Air Act.

- 2.c** The hourly emission limitation of 10.3 lbs OC/hr from coating operations represents the potential to emit for this emissions unit. Therefore, no monitoring, record keeping, or reporting requirements are necessary to ensure compliance with this emission limitation.

II. Operational Restrictions

1. The maximum rolling, 12-month quantity of coatings and cleanup materials employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined, is limited by the following equation:

$$\text{sum}[M=1,12] \{ \text{sum}[i=1,n] (V_i G_i) \div 2000 \text{ lbs/ton} \} \leq 230.0$$

where,

M = the increment of the rolling 12-month period;

V_i = OC content in pounds per gallon of each coating/cleanup employed;

G_i = Gallons used of each coating and cleanup material for the rolling 12 month period

n = total number of unique coatings and cleanup materials employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112

To ensure enforceability during the first 12 calendar months of operation under the provisions of this permit, the maximum cumulative amount of coating and cleanup material employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined, shall not exceed the following rates:

Month	sum[M=1,12] {sum[i=1,n](V _i G _i) ÷ 2000 lbs/ton} <=
1	23.0
1-2	41.8
1-3	60.6
1-4	79.5
1-5	98.3
1-6	117
1-7	136
1-8	155
1-9	174
1-10	192
1-11	211
1-12	230

After the first 12 calendar months of operation under the provisions of this permit, compliance with the annual restriction on the amount coating and cleanup material shall be based upon a rolling, 12-month summation. [OAC rules 3745-77-07(A)(1) and 3745-31-05(A)(3)]

2. The use of photochemically reactive materials, as defined in OAC rule 3745-21-01, in this emissions unit is prohibited. [OAC rules 3745-77-07(A)(1) and 3745-31-05(A)(3)]
3. The permittee shall operate the dry filtration /water curtain system for the control of particulate emissions whenever this emissions unit is in operation. [OAC rules 3745-77-07(A)(1) and 3745-31-05(A)(3)]

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information each month coating and cleanup material employed in this emissions unit:
 - a. the name and company identification number for each coating and cleanup material employed;
 - b. documentation of whether or not each coating and cleanup material employed is a photochemically reactive material, as defined in OAC rule 3745-21-01. [OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

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

2. The permittee shall collect and record the following information each month for all coatings and cleanup materials employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined:
- the name and identification number of each coating and cleanup material employed;
 - the OC content of each coating and cleanup material employed, in pounds per gallon, as applied;
 - the volume, in gallons, of each coating and cleanup material employed;
 - the OC emission rate for each coating and cleanup material employed (A.III.2.b x A.III.2.c), in pounds.
 - for the first 12 months of operation under the provisions of this permit, the cumulative monthly OC emission rate for all coatings and cleanup materials employed (the summation of A.III.2.d for all coatings and cleanup materials), in tons;
 - after the first 12 months of operation under the provisions of this permit, the rolling, 12-month OC emissions, for all coatings and cleanup materials, in tons.

Note: The information required above must be recorded for the materials as applied, including any thinning solvents added at the emissions unit.

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

3. The permittee shall collect and record the following HAP information each month for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined:
- the name and identification number of each coating and cleanup material employed;
 - the amount of each individual HAP in each coating and cleanup material, in lbs/gallon, as applied;
 - the number of gallons of each coating and cleanup material employed;
 - the emission rate for each individual HAP from each coating and cleanup material employed (A.III.3.b x A.III.3.c) for each individual HAP, in lbs;
 - the total emission rate for each individual HAP from all the coatings and cleanup materials employed (for each individual HAP, the summation of A.III.3.d for all coatings and cleanup materials), in lbs;
 - the total HAP emission rate for all HAPs combined from all the coatings and cleanup materials employed (summation of A.III.3.e for all HAPs for all coatings and cleanup materials), in lbs;
 - for the first 12 months of operation under the provisions of this permit, the cumulative monthly emission rate of each individual HAP and all HAPs combined, in tons; and
 - after the first 12 months of operation under the provisions of this permit, the rolling, 12-month emissions of each individual HAP and all HAPs combined, in tons.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
4. The permittee shall maintain daily records that document any time periods when the dry filtration /water curtain system was not in service when the emissions unit was in operation.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify the following:
 - a. for the first 12 calendar months of operation under the provisions of this permit, all exceedances of the maximum allowable cumulative quantity of coating and cleanup material limitations specified in section A.II.1 (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).
 - b. after the first 12 months of operation under the provisions of this permit, all exceedances of the rolling, 12-month quantity of coatings and cleanup materials employed as specified in section A.II.1 (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).
 - c. for the first 12 calendar months of operation under the provisions of this permit, all exceedances of the maximum allowable cumulative individual HAP and combined HAPs emission limitations specified in section A.I.2.b (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).
 - d. after the first 12 months of operation under the provisions of this permit, all exceedances of the rolling, 12-month individual HAP and combined HAPs emission limitations of 9.90 tons and 24.90 tons, respectively (for emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined).

These reports shall be submitted in accordance with the general terms and conditions of this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

2. The permittee shall notify the Director (the Ohio EPA, Northwest District Office) in writing of any monthly record showing the use of any cleanup material which exceeds an OC content of 7.34 lbs OC/gallon. These notifications 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.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
3. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any daily record showing that the dry filtration/water curtain system was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days after the event occurs.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

V. Testing Requirements

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

- 1.a Emission Limitation:
10.3 lbs OC/hr, from coatings operations

Applicable Compliance Method:

The hourly allowable OC emission limitation above represents the potential to emit for this emission unit and was established by multiplying the maximum hourly coatings usage rate (1.44 gallons per hour) by the maximum OC content of all the coatings (7.13 pounds per gallon).

If required, the permittee shall demonstrate compliance with the hourly allowable OC emission limitation above in accordance with 40 CFR Part 60 Appendix A, Methods 1 through 4 and 18, 25, or 25A, as appropriate.

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

V. Testing Requirements (continued)

- 1.b** Emission Limitation:
230.0 tons of OC per rolling, 12-month period, from coating and cleanup materials employed in emissions units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined.
- Applicable Compliance Method:
Compliance with the annual allowable OC emission limitation above shall be based upon the record keeping requirements specified in section A.III.2 of this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
- 1.c** Emission Limitation:
9.90 tons per rolling, 12- month period for any individual Hazardous Air Pollutant (HAP) and 24.90 tons per rolling, 12-month period for any combination of HAPs [for emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and R112 combined]
- Applicable Compliance Method:
Compliance with the annual allowable HAP emission limitations above shall be based upon the record keeping requirements specified in section A.III.3 of this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
- 1.d** Emission Limitation:
The OC content of any cleanup material employed in emission units R003, R004, R005, R006, R007, R008, R009, R010, R011, R012, R013, R101, R103, R105, R108, R109, R110, R111 and/or R112 shall not exceed 7.34 lbs OC/gallon
- Applicable Compliance Method:
Compliance with the OC content limitation above shall be based upon the record keeping requirements specified in section A.III.2.b if this permit.
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
- 1.e** Emission Limitation:
0.551 pound PE per hour (per individual coating operation)
- Applicable Compliance Method:
To determine the actual worst case PE rate (E), the following equation shall be used for each individual coating operations:
- $E = PE \text{ rate (lbs/hr)}$
- $E = \text{maximum coating solids usage rate, in pounds per hour } (1-TE) \times (1-CE)$
- TE = transfer efficiency, which is the ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used
- CE = control efficiency of the control equipment (established at > 98%)
- If required, the permittee shall demonstrate compliance with the emission limitation above pursuant to OAC rule 3745-17-03(B)(10).
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]
- 1.f** Emission Limitation:
Visible particulate emissions shall not exceed 20 percent opacity, as a six-minute average, except as provided by rule
- Applicable Compliance Method:
If required, compliance shall be determine in accordance with OAC rule 3745-17-03(B)(1).
[OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

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

Facility Name: **Jay Plastics**
Facility ID: **03-70-01-0058**

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