Ohio Environmental Protection Agency

John R. Kasich, Governor
Mary Taylor, Lt. Governor
Craig W. Butler, Director

Certified Mail

1/20/2016

No	TOXIC REVIEW
No	SYNTHETIC MINOR TO AVOID MAJOR NSR
No	CEMS
No	MACT/GACT
No	NSPS
No	NESHAPS
No	NETTING
No	MODELING SUBMITTED
Yes	SYNTHETIC MINOR TO AVOID TITLE V
Yes	FEDERALLY ENFORCABLE PTIO (FEPTIO)
No	SYNTHETIC MINOR TO AVOID MAJOR GHG

Mr. Joshua Pigman
Parker Hannifin Corp., Parflex Division
1300 North Freedom Street
Ravenna, OH 44266

RE: FINALAIR POLLUTION PERMIT-TO-INSTALL AND OPERATE
Facility ID: 1667060121
Permit Number: P0119247
Permit Type: Renewal
County: Portage

Dear Permit Holder:

Enclosed please find a final Ohio Environmental Protection Agency (EPA) Air Pollution Permit-to-Install and Operate (PTIO) which will allow you to install, modify, and/or operate the described emissions unit(s) in the manner indicated in the permit. Because this permit contains conditions and restrictions, please read it very carefully. In this letter you will find the information on the following topics:

- **How to appeal this permit**
- **How to save money, reduce pollution and reduce energy consumption**
- **How to give us feedback on your permitting experience**
- **How to get an electronic copy of your permit**

How to appeal this permit

The issuance of this PTIO is a final action of the Director and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of $70.00, made payable to "Ohio Treasurer Josh Mandel," which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
77 South High Street, 17th Floor
Columbus, OH 43215

How to save money, reduce pollution and reduce energy consumption

The Ohio EPA is encouraging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Compliance Assistance and Pollution Prevention at (614) 644-3469. Additionally, all or a portion of the capital expenditures related to installing air pollution control equipment under this permit may be eligible for financing and State tax exemptions through the Ohio Air Quality Development Authority (OAQDA) under Ohio Revised Code Section 3706. For more information, see the OAQDA website: www.ohioairquality.org/clean_air

How to give us feedback on your permitting experience

Please complete a survey at www.epa.ohio.gov/survey.aspx and give us feedback on your permitting experience. We value your opinion.

How to get an electronic copy of your permit

This permit can be accessed electronically via the eBusiness Center: Air Services in Microsoft Word format or in Adobe PDF on the Division of Air Pollution Control (DAPC) Web page, www.epa.ohio.gov/dapc by clicking the "Search for Permits" link under the Permitting topic on the Programs tab.

If you have any questions, please contact Akron Regional Air Quality Management District at (330)375-2480or the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469.

Sincerely,

Michael E. Hopkins, P.E.
Assistant Chief, Permitting Section, DAPC

Cc: ARAQMD

FINAL

Division of Air Pollution Control
Permit-to-Install and Operate
for
Parker Hannifin Corp., Parflex Division

Facility ID:	1667060121
Permit Number:	P0119247
Permit Type:	Renewal
Issued:	1/20/2016
Effective:	1/20/2016
Expiration:	4/26/2020

Ohio Environmental Protection Agency

Division of Air Pollution Control
Permit-to-Install and Operate
for
Parker Hannifin Corp., Parflex Division

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Authorization

Facility ID:	1667060121
Application Number(s):	A0053802
Permit Number:	P0119247
Permit Description:	Renewal FEPTIO for a hose manufacturing facility.
Permit Type:	Renewal
Permit Fee:	$0.00
Issue Date:	1/20/2016
Effective Date:	1/20/2016
Expiration Date:	4/26/2020

Permit Evaluation Report (PER) Annual Date: Jan 1 - Dec 31, Due Feb 15

This document constitutes issuance to:

Parker Hannifin Corp., Parflex Division
1300 N. Freedom Street
Ravenna, OH 44266

of a Permit-to-Install and Operate for the emissions unit(s) identified on the following page.

Ohio Environmental Protection Agency (EPA) District Office or local air agency responsible for processing and administering your permit:

Akron Regional Air Quality Management District
1867 West Market St.
Akron, OH 44313
(330)375-2480

The above named entity is hereby granted this Permit-to-Install and Operate for the air contaminant source(s) (emissions unit(s))listed in this section pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the described emissions unit(s) will operate in compliance with applicable State and federal laws and regulations.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Craig W. Butler
Director

Authorization (continued)

Permit Number: P0119247
Permit Description: Renewal FEPTIO for a hose manufacturing facility.

Permits for the following Emissions Unit(s) or groups of Emissions Units are in this document as indicated below:

Emissions Unit ID:	**P001**
Company Equipment ID:	P001
Superseded Permit Number:	P0119236
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	**P006**
Company Equipment ID:	P006
Superseded Permit Number:	P0119236
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	**P007**
Company Equipment ID:	P007
Superseded Permit Number:	P0110592
General Permit Category and Type:	Not Applicable

Group Name: PreCoat and Printing Operations

Emissions Unit ID:	**R001**
Company Equipment ID:	R001
Superseded Permit Number:	P0110592
General Permit Category andType:	Not Applicable
Emissions Unit ID:	**R002**
Company Equipment ID:	R002
Superseded Permit Number:	P0110592
General Permit Category andType:	Not Applicable
Emissions Unit ID:	**R003**
Company Equipment ID:	R003
Superseded Permit Number:	P0110592
General Permit Category andType:	Not Applicable

Group Name: Tool Cleaning Ovens

Emissions Unit ID:	**N002**
Company Equipment ID:	N002
Superseded Permit Number:	P0111434
General Permit Category andType:	Not Applicable
Emissions Unit ID:	**N003**
Company Equipment ID:	N003
Superseded Permit Number:	P0106265
General Permit Category andType:	Not Applicable
Emissions Unit ID:	**N005**
Company Equipment ID:	P004
Superseded Permit Number:	P0111434
General Permit Category andType:	Not Applicable

A. Standard Terms and Conditions

1. What does this permit-to-install and operate ("PTIO") allow me to do?

This permit allows you to install and operate the emissions unit(s) identified in this PTIO. You must install and operate the unit(s) in accordance with the application you submitted and all the terms and conditions contained in this PTIO, including emission limits and those terms that ensure compliance with the emission limits (for example, operating, recordkeeping and monitoring requirements).

2. Who is responsible for complying with this permit?

The person identified on the "Authorization" page, above, is responsible for complying with this permit until the permit is revoked, terminated, or transferred. "Person" means a person, firm, corporation, association, or partnership. The words "you," "your," or "permittee" refer to the "person" identified on the "Authorization" page above.

The permit applies only to the emissions unit(s) identified in the permit. If you install or modify any other equipment that requires an air permit, you must apply for an additional PTIO(s) for these sources.

3. What records must I keep under this permit?

You must keep all records required by this permit, including monitoring data, test results, strip-chart recordings, calibration data, maintenance records, and any other record required by this permit for five years from the date the record was created. You can keep these records electronically, provided they can be made available to Ohio EPA during an inspection at the facility. Failure to make requested records available to Ohio EPA upon request is a violation of this permit requirement.

4. What are my permit fees and when do I pay them?

There are two fees associated with permitted air contaminant sources in Ohio:

PTIO fee.This one-time fee is based on a fee schedule in accordance with Ohio Revised Code (ORC) section 3745.11, or based on a time and materials charge for permit application review and permit processing if required by the Director.

You will be sent an invoice for this fee after you receive this PTIO and payment is due within 30 days of the invoice date. You are required to pay the fee for this PTIO even if you do not install or modify your operations as authorized by this permit.

Annual emissions fee.Ohio EPA will assess a separate fee based on the total annual emissions from your facility. You self-report your emissions in accordance with Ohio Administrative Code (OAC) Chapter 3745-78. This fee assessed is based on a fee schedule in ORC section 3745.11 and funds Ohio EPA's permit compliance oversight activities. For facilities that are permitted as synthetic minor sources, the fee schedule is adjusted annually for inflation. Ohio EPA will notify you when it is time to report your emissions and to pay your annual emission fees.

5. When does my PTIO expire, and when do I need to submit my renewal application?

This permit expires on the date identified at the beginning of this permit document (see "Authorization" page above) and you must submit a renewal application to renew the permit. Ohio EPA will send a renewal notice to you approximately six months prior to the expiration date of this permit. However, it is

very important that you submit a complete renewal permit application (postmarked prior to expiration of this permit) even if you do not receive the renewal notice.

If a complete renewal application is submitted before the expiration date, Ohio EPA considers this a timely application for purposes of ORC section 119.06, and you are authorized to continue operating the emissions unit(s) covered by this permit beyond the expiration date of this permit until final action is taken by Ohio EPA on the renewal application.

6. What happens to this permit if my project is delayed or I do not install or modify my source?

This PTIO expires 18 months after the issue date identified on the "Authorization" page above unless otherwise specified if you have not (1) started constructing the new or modified emission sources identified in this permit, or (2) entered into a binding contract to undertake such construction. This deadline can be extended by up to 12 months, provided you apply to Ohio EPA for this extension within a reasonable time before the 18-month period has ended and you can show good cause for any such extension.

7. What reports must I submit under this permit?

An annual permit evaluation report (PER) is required in addition to any malfunction reporting required by OAC rule 3745-15-06 or other specific rule-based reporting requirement identified in this permit. Your PER due date is identified in the Authorization section of this permit.

8. If I am required to obtain a Title V operating permit in the future, what happens to the operating provisions and PER obligations under this permit?

If you are required to obtain a Title V permit under OAC Chapter 3745-77 in the future, the permit-to-operate portion of this permit will be superseded by the issued Title V permit. From the effective date of the Title V permit forward, this PTIO will effectively become a PTI (permit-to-install) in accordance with OAC rule 3745-31-02(B). The following terms and conditions of this permit will no longer be applicable after issuance of the Title V permit: Section B, Term 1.b) and Section C, for each emissions unit, Term a)(2).

The PER requirements in this permit remain effective until the date the Title V permit is issued and is effective, and cease to apply after the effective date of the Title V permit. The final PER obligation will cover operations up to the effective date of the Title V permit and must be submitted on or before the submission deadline identified in this permit on the last day prior to the effective date of the Title V permit.

9. What are my obligations when I perform scheduled maintenance on air pollution control equipment?

You must perform scheduled maintenance of air pollution control equipment in accordance with OAC rule 3745-15-06(A). If scheduled maintenance requires shutting down or bypassing any air pollution control equipment, you must also shut down the emissions unit(s) served by the air pollution control equipment during maintenance, unless the conditions of OAC rule 3745-15-06(A)(3) are met. Any emissions that exceed permitted amount(s) under this permit (unless specifically exempted by rule) must be reported as deviations in the annual permit evaluation report (PER), including nonexempt excess emissions that occur during approved scheduled maintenance.

10. Do I have to report malfunctions of emissions units or air pollution control equipment? If so, how must I report?

If you have a reportable malfunction of any emissions unit(s) or any associated air pollution control system, you must report this to the [DO/LAA] in accordance with OAC rule 3745-15-06(B). Malfunctions that must be reported are those that result in emissions that exceed permitted emission levels. It is your responsibility to evaluate control equipment breakdowns and operational upsets to determine if a reportable malfunction has occurred.

If you have a malfunction, but determine that it is not a reportable malfunction under OAC rule 3745-15-06(B), it is recommended that you maintain records associated with control equipment breakdown or process upsets. Although it is not a requirement of this permit, Ohio EPA recommends that you maintain records for non-reportable malfunctions.

11. Can Ohio EPA or my local air agency inspect the facility where the emission unit(s) is/are located?

Yes. Under Ohio law, the Director or his authorized representative may inspect the facility, conduct tests, examine records or reports to determine compliance with air pollution laws and regulations and the terms and conditions of this permit. You must provide, within a reasonable time, any information Ohio EPA requests either verbally or in writing.

12. What happens if one or more emissions units operated under this permit is/are shut down permanently?

Ohio EPA can terminate the permit terms associated with any permanently shut down emissions unit. "Shut down" means the emissions unit 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.

You should notify Ohio EPA of any emissions unit that is permanently shut down by submitting a certification that identifies the date on which the emissions unit was permanently shut down. The certification must be submitted by an authorized official from the facility. You cannot continue to operate an emission unit once the certification has been submitted to Ohio EPA by the authorized official.

You must comply with all recordkeeping and reporting for any permanently shut down emissions unit in accordance with the provisions of the permit, regulations or laws that were enforceable during the period of operation, such as the requirement to submit a PER, air fee emission report, or malfunction report. You must also keep all records relating to any permanently shutdown emissions unit, generated while the emissions unit was in operation, for at least five years from the date the record was generated.

Again, you cannot resume operation of any emissions unit certified by the authorized official as beingpermanently shut down without first applying for and obtaining a permit pursuantto OAC Chapter 3745-31.

13. Can I transfer this permit to a new owner or operator?

You can transfer this permit to a new owner or operator. If you transfer the permit, you must follow the procedures in OAC Chapter 3745-31, including notifying Ohio EPA or the local air agency of the change in ownership or operator. Any transferee of this permit must assume the responsibilities of the transferor permit holder.

14. Does compliance with this permit constitute compliance with OAC rule 3745-15-07, "air pollution nuisance"?

This permit and OAC rule 3745-15-07 prohibit operation of the air contaminant source(s) regulated under this permit in a manner that causes a nuisance. Ohio EPA can require additional controls or modification of the requirements of this permit through enforcement orders or judicial enforcement action if, upon investigation, Ohio EPA determines existing operations are causing a nuisance.

15. What happens if a portion of this permit is determined to be invalid?

If a portion of this permit is determined to be invalid, the remainder of the terms and conditions remain valid and enforceable. The exception is where the enforceability of terms and conditions are dependent on the term or condition that was declared invalid.

B. Facility-Wide Terms and Conditions

1. This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

   a) For the purpose of a permit-to-install document, the facility-wide terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

      (1) None.

   b) For the purpose of a permit-to-operate document, the facility-wide terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

      (1) All.

2. Applicable Emissions Limitations and/or Control Requirements

   a) The emissions of volatile organic compounds (VOC) from emissions units R001, R002, and R003, combined, shall not exceed 21.66 tons per year, based upon a rolling, 12-month summation of the monthly emissions.

   b) The VOC content of each chemical purchased* shall not exceed 4.15 pounds of VOC per gallon of chemical 3, 7.05 pounds of VOC per gallon of chemical 4, 6.76 pounds of VOC per gallon of chemical 5, 6.77 pounds of VOC per gallon of chemical 8, 0.0 pound of VOC per gallon of chemical 10, 2.79 pounds of VOC per gallon of chemical 12, 3.31 pounds of VOC per gallon of chemical 13, 7.83 pounds of VOC per gallon of chemical 14, 7.93 pounds of VOC per gallon of chemical 15, and 2.10 pounds of VOC per gallon of chemical 16.

   c) The emissions of any individual hazardous air pollutant (HAP) from the entire facility (i.e., emissions units R001, R002, R003 and OAC rule 3745-31-03 exempt and "de minimis" emissions units, combined) shall not exceed 9.95 tons per year, based upon a rolling, 12-month summation of the monthly emissions.

   d) The emissions of total combined HAPs from the entire facility (i.e., emissions units R001, R002, R003 and OAC rule 3745-31-03 exempt and "de minimis" emissions units, combined) shall not exceed 24.9 tons per year, based upon a rolling, 12-month summation of the monthly emissions.

      *The pound(s) of VOC per gallon limitations are 2% higher than the VOC content supplied by the material manufacturer in order to account for inherent fluctuations in actual material formulation.

3. Operational Restrictions

   a) The maximum annual chemical 5, chemical 8, chemical 10, chemical 12, chemical 13, chemical 14 and chemical 15 usage rates (for emissions units R001, R002, and R003, combined) shall not exceed 338 gallons, 1238 gallons, 4077 gallons, 1993 gallons, 745 gallons, 125 gallons and 500 gallons, respectively, based upon rolling, 12-month summations of the monthly chemical usage rates.

b) The maximum annual net chemical 3 and chemical 4 usage rates (for emissions units R001, R002, and R003, combined) shall not exceed 326 gallons and 2604 gallons, respectively, based upon rolling, 12-month summations of the net* monthly chemical usage rates.

*The net chemical usage rate is defined as the amount of chemical used minus the amount of chemical returned, rejected or disposed of as waste. In addition, it is assumed that the amount of chemicals purchased is equivalent to the amount of chemicals used/employed.

c) The maximum annual chemical 4 and chemical 16 combined usage rate (for emissions units R001, R002 and R003, combined) shall not exceed 2604 gallons based upon a rolling, 12-month summation of the monthly combined chemical usage rates.

4. Monitoring and/or Recordkeeping Requirements

a) The permittee shall maintain monthly records of the following information for emissions units R001, R002, and R003, combined:

(1) the company identification of each chemical employed;

(2) the VOC content of each chemical employed*, in pounds of VOC per gallon of chemical;

(3) the OC content of each chemical employed, in pounds of OC per gallon of chemical;

(4) the individual HAP[1] content for each HAP of each chemical employed, in pounds of individual HAP per gallon of chemical;

(5) the total number of gallons of each chemical employed;

(6) the total number of gallons of chemical 3 and chemical 4 returned, rejected, or disposed of as waste;

(7) the total number of gallons of chemical 4 and chemical 16 employed;

(8) the rolling, 12-month chemical usage rates for each chemical** and chemical 4 and chemical 16 combined, in gallons;

(9) the rolling, 12-month net chemical usage rates for chemical 3 and chemical 4, in gallons;

(10) the amount of waste removed from the facility for emissions units R001, R002, and R003, combined, in pounds;

(11) the VOC content of the waste removed, in pounds of VOC per pound of waste;

(12) the OC content of the waste removed, in pounds of OC per pound of waste;

(13) the individual HAP content for each HAP of the waste removed, in pound of individual HAP per pound of waste;

(14) the VOC emissions, in tons (i.e., the sum of a)(2) times a)(5) for each chemical minus a)(10) times a)(11) for all waste removed, and then divide by 2000);

(15) the OC emissions, in tons (i.e., the sum of a)(3) times a)(5) for each chemical minus a)(10) times a)(12) for all waste removed, and then divide by 2000);

(16) the total individual HAP emissions for each HAP from all the chemicals employed, in tons per month (i.e., for each HAP the sum of a)(4) times a)(5) for each chemical minus a)(10) times a)(13) for all waste removed plus (x)***/12, and then divide by 2000);

(17) the total combined HAPs emissions from all the chemicals employed, in tons per month (i.e., the sum of the total individual HAP emissions in a)(16)); and

(18) the rolling, 12-month VOC, OC, each individual HAP, and total combined HAPs emissions, in tons.

[1]A listing of the HAPs can be found in Section 112(b) of the Clean Air Act or can be obtained by contacting your Ohio EPA field office or local air agency contact. Material Safety Data Sheets typically include a listing of the solvents contained in the coatings or cleanup materials. This information does not have to be kept on a line-by-line basis.

* The amount of chemical purchased (excluding any chemical returned or rejected during that period) is considered to be equal to the amount of chemical employed/used.

** This record does not need kept for chemical 3 and chemical 4.

*** "x" is the potential to emit of each individual HAP for all OAC rule 3745-31-03 exempt and "de minimis" emissions units in tons per year.

5. Reporting Requirements

a) The permittee shall submit quarterly deviation (excursion) reports that identify:

(1) all deviations (excursions) of the following emission limitations, operational restrictions and/or control device operating parameter limitations that restrict the potential to emit (PTE) of any regulated air pollutant and have been detected by the monitoring, record keeping and/or testing requirements in this permit:

a. all exceedances of the rolling, 12-month chemical usage rate limitations as specified in 3.a) and 3.c) above;

b. all exceedances of the rolling, 12-month net chemical usage rate limitations as specified in section 3.b) above;

c. all exceedances of the rolling, 12-month emission limitation for VOC of 21.66 tons (for emissions units R001, R002, and R003, combined);

d. all exceedances of the rolling, 12-month emission limitations for any individual HAP and total combined HAPs of 9.95 tons and 24.9 tons, respectively (from the entire facility);

e. all exceedances of the VOC content limitations for any chemical as specified in 2.b) above;

(2) the probable cause of each deviation (excursion);

(3) any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and

(4) the magnitude and duration of each deviation (excursion).

If no deviations (excursions) occurred during a calendar quarter, the permittee shall submit a report that states that no deviations (excursions) occurred during the quarter.

The quarterly reports shall be submitted, electronically through Ohio EPA Air Services, each year by January 31 (covering October to December), April 30 (covering January to March), July 31 (covering April to June), and October 31 (covering July to September), unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).

b) All applications, notifications or reports required by terms and conditions in this permit to be submitted or "reported in writing" are to be submitted to Ohio EPA through the Ohio EPA's eBusiness Center: Air Services web service ("Air Services"). Ohio EPA will accept hard copy submittals on an as-needed basis if the permittee cannot submit the required documents through the Ohio EPA eBusiness Center. In the event of an alternative hard copy submission in lieu of the eBusiness Center, the post-marked date or the date the document is delivered in person will be recognized as the date submitted. Electronic submission of applications, notifications, or reports required to be submitted to Ohio EPA fulfills the requirement to submit the required information to the Director, the District Office or Local Air Agency, and/or any other individual or organization specifically identified as an additional recipient identified in this permit unless otherwise specified. Consistent with OAC rule 3745-15-03, the required application, notification or report is considered to be "submitted" on the date the submission is successful using a valid electronic signature. Signature by the signatory authority may be represented as provided through procedures established in Air Services.

6. Testing Requirements

a) Compliance with the Emissions Limitations and/or Control Requirements specified in 2 above shall be determined in accordance with the following methods:

(1) Emission Limitation:

The emissions of VOC from emissions units R001, R002, and R003, combined, shall not exceed 21.66 tons per year, based upon a rolling, 12-month summation of the monthly emissions.

Applicable Compliance Method:

Compliance with the annual allowable VOC emission limitation above shall be demonstrated through the record keeping requirements established in 4.a) above.

(2) Emission Limitations:

The VOC content of each chemical purchased shall not exceed 4.15 pounds of VOC per gallon of chemical 3, 7.05 pounds of VOC per gallon of chemical 4, 6.76 pounds of VOC

per gallon of chemical 5, 6.77 pounds of VOC per gallon of chemical 8, 0.0 pound of VOC per gallon of chemical 10, 2.79 pounds of VOC per gallon of chemical 12, 3.31 pounds of VOC per gallon of chemical 13, 7.83 pounds of VOC per gallon of chemical 14, 7.93 pounds of VOC per gallon of chemical 15, and 2.10 pounds of VOC per gallon of chemical 16.

Applicable Compliance Method:

Compliance with the allowable VOC content limitations above shall be demonstrated through the record keeping requirements established in 4.a) above.

Formulation data or USEPA Method 24 (for coatings) or 24A (for flexographic and rotogravure printing inks and related coatings) shall be used to determine the VOC contents of each chemical.

(3) Emission Limitations:

The emissions of any individual HAP from the entire facility shall not exceed 9.95 tons per year, based upon a rolling, 12-month summation of the monthly emissions.

The emissions of the total combined HAPs from the entire facility shall not exceed 24.9 tons per year, based upon a rolling, 12-month summation of the monthly emissions.

Applicable Compliance Method:

Compliance with the annual allowable HAP emission limitations above shall be demonstrated through the record keeping requirements established in 4.a) above.

(4) Usage Limitations:

The maximum annual chemical 5, chemical 8, chemical 10, chemical 12, chemical 13, chemical 14, and chemical 15 usage rates (for emissions units R001, R002 and R003, combined) shall not exceed 338 gallons, 1238 gallons, 4077 gallons, 1993 gallons, 745 gallons, 125 gallons and 500 gallons, respectively, based upon rolling, 12-month summations of the monthly chemical usage rates.

The maximum annual net chemical 3 and chemical 4 usage rates (for emissions units R001, R002 and R003, combined) shall not exceed 326 gallons and 2604 gallons, respectively, based upon rolling, 12-month summations of the net* monthly chemical usage rates.

The maximum annual chemical 4 and chemical 16 combined usage rate (for emissions units R001, R002, and R003, combined) shall not exceed 2604 gallons based upon a rolling, 12-month summation of the monthly combined chemical usage rates.

Applicable Compliance Method:

Compliance with the annual allowable chemical usage rate limitations and the annual allowable net chemical usage rate limitations above shall be demonstrated through the record keeping requirements established in 4.a) above.

7. Miscellaneous Requirements

   a) For all chemical usage limitations, monitoring, record keeping, and reporting requirements that deal with chemical usage in this permit, the total quantity of chemical used/employed in this emissions unit during any rolling 12-month period is considered to be equivalent to the total quantity of chemical purchased and received during that rolling 12-month period, except that any quantity of chemical that can be shown to have been returned, rejected, or disposed after having been received shall not be considered to have been used.

C. Emissions Unit Terms and Conditions

1. P001, Plastic Grinder/Aspirator

Operations, Property and/or Equipment Description:

Plastic Grinder/Aspirator for Plastic Reclamation

a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. None.

(2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3), as effective 6/30/2008	Particulate emissions (PE) shall not exceed 0.59 ton per month, averaged over a 12-month rolling period. See b)(2)a. below.
b.	OAC rule 3745-31-05(A)(3)(a)(ii), as effective 6/30/2008	TheBATrequirementsunderOACrule3745-31-05(A)(3)donotapplytothe PElimitation fromthisaircontaminantsourcesincethepotential to emitis less than 10 tons per year. See b)(2)b. below.
c.	OAC rule 3745-17-07(A)	Visible PE from any stack shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
d.	OAC rule 3745-17-11(B)	PE shall not exceed 1.62 pounds per hour. (based on 500 pounds/hour maximum process weight rate)

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		This limit applies after the SIP is approved as noted below in b)(2)b. removing the BAT limits.

(2) Additional Terms and Conditions

a. The BAT emission limit applies until U.S. EPA approves Ohio Administrative Code (OAC) paragraph 3745-31-05(A)(3)(a)(ii) (the less than ten tons per year BAT exemption) into the Ohio State Implementation Plan (SIP). .

b. These requirements apply once U.S. EPA approves OAC paragraph 3745-31-05(A)(3)(a)(ii) (the less than ten tons per year BAT exemption) into the Ohio SIP.

c) Operational Restrictions

(1) The emissions from this emissions unit shall be vented to a fabric filter and cyclone at all times the emissions unit is in operation.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;

b. whether the emissions are representative of normal operations;

c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;

d. the total duration of any visible emissions incident; and

e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emissions incident has occurred. The observer does not have to document the exact start and end times for the visible emissions incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emissions incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

(2) The permittee shall document all instances during which this emissions unit was operating and the fabric filter and cyclone associated with the emissions unit were not in operation.

e) Reporting Requirements

(1) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA. The PER must be submitted by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.

(2) The permittee shall identify the following information in the annual permit evaluation report in accordance with the monitoring requirements for visible emissions in term number d)(1) above:

a. all days during which any visible particulate emissions were observed from the stack serving this emissions unit; and

b. any corrective actions taken to minimize or eliminate the visible particulate emissions.

f) Testing Requirements

(1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. <u>Emissions Limitations</u>:

PE shall not exceed 0.59 ton per month averaged over a 12-month rolling period.

PE shall not exceed 1.62 pounds per hour.

<u>Applicable Compliance Method</u>:

The monthly limitation was established by multiplying the hourly limitation by 8760, and then dividing by 12 and by 2000. Therefore, as long as compliance with the hourly limitation is maintained, compliance with the annual limitation shall be demonstrated.

If required, compliance shall be determined by the results of emission testing in accordance with Methods 1-5, of 40 CFR Part 60, Appendix A.

b. <u>Emission Limitations</u>:

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

Applicable Compliance Methods:

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

g) Miscellaneous Requirements

(1) None.

2. P006, Process 01 – Plasticized Nylon Air Extrusion

Operations, Property and/or Equipment Description:

Process 01 - Plasticized Nylon Air Extrusion Operations (see Table 1. Process 01 - Plasticized Nylon Air Extrusion Operations Emissions Units).

a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. None.

(2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. All.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	ORC 3704.03(T) and OAC rule 3745-31-05(A)(3)	Volatile organic compound (VOC) emissions shall not exceed 1.41 tons per month averaged over a 12-month rolling period. Particulate emissions (PE) shall not exceed 1.41 tons per month averaged over a 12-month rolling period. See b)(2)a. below.
b.	OAC rule 3745-17-07(A)	Visible PE shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
c.	OAC rule 3745-17-11(B)	PE shall not exceed 5.56 pounds per hour. (Based on a maximum process weight rate of 3,152 pounds per hour)

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
d.	OAC rule 3745-31-05(D)	Annual emissions of VOC from this emissions unit shall not exceed 16.95 tons per year, as a rolling, 12-month summation. VOC emissions shall not exceed 0.0073 pound of VOC per pound of raw material processed. The oil mist/smoke filter shall have an overall VOC control efficiency of 94%, by weight. See c)(1) – c)(2) below.

(2) Additional Terms and Conditions

a. All organic compounds (OC) emissions emitted from this emissions unit are assumed to be VOC; however, an undetermined percentage of these emissions is known to condense into a liquid state prior to being emitted to the atmosphere.

b. The total quantity of raw materials used/employed in this emissions unit during any rolling, 12-month period is equivalent to the total quantity of raw materials purchased and received during that 12-month period, except that any quantity of raw materials that can be shown to have been returned, rejected, or disposed of after having been received shall not be considered to have been used.

c) Operational Restrictions

(1) The permittee shall not employ any raw material which contains any of the hazardous air pollutants (HAPs) listed in section 112(b) of the Clean Air Act in this emissions unit.

(2) The maximum annual total raw material usage rate for this emissions unit shall not exceed 10,000,000 pounds, based upon a rolling, 12-month summation of the monthly raw material usage rates. Furthermore, the maximum annual raw material usage rate for the uncontrolled extruders shall not exceed 4,061,955 pounds, based upon a rolling, 12-month summation of the raw material usage rates. The permittee has existing production records and, therefore, does not need to be limited to first year monthly material usage rates.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall maintain monthly records of the following information for this emissions unit:

a. the identification of each raw material employed;

b. documentation as to whether or not each raw material employed contains any of the HAPs listed in section 112(b) of the Clean Air Act;

c. the total raw material usage* rate, in pounds;

d. the raw material usage rate for the uncontrolled extruders**, in pounds;

e. the rolling, 12-month total raw material usage rate, in pounds;

f. the rolling, 12-month raw material usage rate for the uncontrolled extruders, in pounds;

g. the VOC emissions, in tons (i.e., the VOC emissions shall be calculated in accordance with the methodology in f) below); and

h. the rolling, 12-month summation of VOC emissions, in tons and the average monthly VOC emissions calculated over each rolling, 12-month period.

* The total amount of raw material purchased per rolling 12-month period (excluding any raw material returned or rejected during that period) is consider to be equal to the amount of raw material used/employed in that rolling 12-month period.

** Calculated based on multiplying the total quantity of raw materials used/employed in plasticized nylon air extrusion processes at the facility by the worst case ratio of uncontrolled raw materials usage to total raw materials usage (current ratio = 0.4062).

e) Reporting Requirements

(1) All applications, notifications or reports required by terms and conditions in this permit to be submitted or "reported in writing" are to be submitted to Ohio EPA through the Ohio EPA's eBusiness Center: Air Services web service ("Air Services"). Ohio EPA will accept hard copy submittals on an as-needed basis if the permittee cannot submit the required documents through the Ohio EPA eBusiness Center. In the event of an alternative hard copy submission in lieu of the eBusiness Center, the post-marked date or the date the document is delivered in person will be recognized as the date submitted. Electronic submission of applications, notifications, or reports required to be submitted to Ohio EPA fulfills the requirement to submit the required information to the Director, the District Office or Local Air Agency, and/or any other individual or organization specifically identified as an additional recipient identified in this permit unless otherwise specified. Consistent with OAC rule 3745-15-03, the required application, notification or report is considered to be "submitted" on the date the submission is successful using a valid electronic signature. Signature by the signatory authority may be represented as provided through procedures established in Air Services.

(2) The permittee shall submit quarterly deviation (excursion) reports that identify:

a. all deviations (excursions) of the following emission limitations, operational restrictions and/or control device operating parameter limitations that restrict the potential to emit (PTE) of any regulated air pollutant and have been detected by the monitoring, record keeping and/or testing requirements in this permit:

i. all exceedances of the rolling, 12-month total raw material usage rate limitation of 10,000,000 pounds;

ii. all exceedances of the rolling, 12-month raw material usage rate limitation of 4,061,955 pounds for the uncontrolled extruders;

iii. all exceedances of the rolling, 12-month emission limitation for VOC of 16.95 tons;

iv. all exceedances of the average monthly VOC emissions (averaged over a rolling, 12-month period); and

v. all instances where a raw material which contains any of the HAPs listed in section 112(b) of the Clean Air Act was employed in this emissions unit.

b. the probable cause of each deviation (excursion);

c. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and

d. the magnitude and duration of each deviation (excursion).

If no deviations (excursions) occurred during a calendar quarter, the permittee shall submit a report that states that no deviations (excursions) occurred during the quarter.

The quarterly reports shall be submitted, electronically through Ohio EPA Air Services, each year by January 31 (covering October to December), April 30 (covering January to March), July 31 (covering April to June), and October 31 (covering July to September), unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).

(3) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA. The PER must be submitted by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.

f) Testing Requirements

(1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. <u>Emissions Limitations</u>:

VOC emissions shall not exceed 1.41 tons per month averaged over a 12-month rolling period.

Annual emissions of VOC shall not exceed 16.95 tons per year, as a rolling 12-month summation.

Applicable Compliance Method:

Compliance with the monthly and annual VOC limitation above shall be demonstrated based on the record keeping requirements in d)(1).

[Compliance with the ton(s) per month averaged over a 12-month rolling period shall be determined following the first 12 months of operation.]

b. Emissions Limitations:

PE shall not exceed 1.41 ton per month, averaged over a 12-month rolling period.

5.56 lbs PE/hr, based on a process weight rate of 3152 lbs/hr

Applicable Compliance Method:

The monthly limitation was established as follows:

i. For uncontrolled extruders:

Multiply the maximum resin usage rate (296 lbs/hr) by the Worst-Case Plasticizer Loss Factor (0.73%, by weight) =2.16 lbs/hr

ii. For controlled extruders:

Multiply the maximum hourly resin usage rate (3896 lbs/hr) by the Worst Case Plasticizer Loss Factor (0.73%, by weight*), and then by a control factor of (1-.94**) = 1.71 lbs/hr

iii. Add i+ ii above = 3.87 lbs/hr

iv. Multiply iii by 8760, and then divide by 2000 and again by 12 = 1.41 tons PE/month.

If required, compliance shall be determined based upon the results of emission testing conducted in accordance with Methods 1-5, of 40 CFR Part 60, Appendix A.

* Company-supplied emission factor

**The oil mist/smoke is assumed to have an overall VOC control efficiency of 94%, by weight.

c. Emission Limitations:

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

Applicable Compliance Methods:

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

g) Miscellaneous Requirements

(1) Table 1. Process 01 - Plasticized Nylon Air Extrusion Operations Emissions Units

Extruder Number	Serial Number	Date of Installation
J-727	16673	1975
K-326	16869	1979
J-997	17183	1979
L-810	17644	1980
L-809	17489	1981
EX177	19203	1995
EX244	96350	1996
EXTDR-003	19328	1998
EXTDR-001	19327	1998
EXTDR-017	19355	1999
EXTDR-005	AW176	1999
EXTDR-006	19417	2000
EXTDR-016	19464	2001
EXTDR-007	Z9220	2001
EXTDR-014	19445	2001
EXTDR-018	2358	2004
EXTDR-010	Z7326	2001
EXTDR-011	Z7321	2001
EXTDR-012	Z7336	2001
EXTDR-013	Z7332	2001
EXTDR-020	M7281	2012
EXTRD-024	25580-3-1	2012
EXTRD-025	R-3915	2012
EXTRD-021	25515-1-1	2012
EXTRD-023	25515-5-1	2012
EXTRD-022	25515-3-1	2012
EXTRD-035	95502-4-1	2015
EXTRD-036	95502-1-1	2015
EXTRD-037	36971-1-1	2015

3. P007, Process 02 – Tube Conditioning

Operations, Property and/or Equipment Description:

Process 02 - Tube Conditioning Operations (see Table 2. Process 02 - Tube Conditioning Operations Emissions Units).

a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. None.

(2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. All.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3)	The emissions of volatile organic compounds (VOC)* from applicator TCM-002 shall not exceed 3.14 pounds per hour. The emissions of VOC* from applicator TCM-003 shall not exceed 1.55 pounds per hour. The emissions of VOC* from applicator TCM-004 shall not exceed 1.55 pounds per hour. The emissions of VOC* from applicator TCM-005 shall not exceed 1.55 pounds per hour. The emissions of VOC* from applicator

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		TCM-006 shall not exceed 5.82 pounds per hour. See b)(2)a. below.
b.	OAC rule 3745-31-05(D) (Synthetic Minor to avoid Title V, nonattainment NSR and MACT requirements)	The emissions of VOC* from this emissions unit shall not exceed 3.54 tons per year, based upon a rolling, 12-month summation of the monthly emissions. See c)(1) and c)(2) below. *All organic compounds (OC) emitted from this emissions unit are considered to be VOC.

(2) Additional Terms and Conditions

a. The hourly VOC emission limitations are based on each applicator's potential to emit. Therefore, no monitoring, record keeping or reporting is or will be required to demonstrate compliance with these emission limitations. Such requirements would be impractical and unreasonable given the nature of this emissions unit.

b. For all tube conditioning solvent usage limitations, monitoring, record keeping, and reporting requirements that deal with tube conditioning solvent usage in this permit, the total quantity of tube conditioning solvent used/employed in this emissions unit during any rolling 12-month period is considered to be equivalent to the total quantity of tube conditioning solvent purchased and received during that rolling 12-month period, except that any quantity of tube conditioning solvent that can be shown to have been returned, rejected, or disposed after having been received shall not be considered to have been used.

c) Operational Restrictions

(1) The permittee shall not employ any material which contains any of the hazardous air pollutants (HAPs) listed in section 112(b) of the Clean Air Act in this emissions unit.

(2) The maximum annual tube conditioning solvent usage rate for this emissions unit shall not exceed 7,078 pounds, based upon a rolling, 12-month summation of the monthly tube conditioning solvent usage rates.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall maintain monthly records of the following information for this emissions unit:

a. the identification of each liquid organic material employed;

b. documentation as to whether or not each material employed contained any of the HAPs listed in section 112(b) of the Clean Air Act;

c. the tube conditioning solvent usage* rate, in pounds;

d. the rolling, 12-month tube conditioning solvent usage rate, in pounds;

e. the VOC emissions, in tons (i.e., (d) divided by 2000); and

f. the rolling, 12-month VOC emissions, in tons.

* The amount of tube conditioning solvent purchased per rolling 12-month period (excluding any tube conditioning solvent returned or rejected during that period) is considered to be equal to the amount of tube conditioning solvent used/employed in that rolling 12-month period.

e) Reporting Requirements

(1) The permittee shall submit quarterly deviation (excursion) reports that identify:

a. all deviations (excursions) of the following emission limitations, operational restrictions and/or control device operating parameter limitations that restrict the potential to emit (PTE) of any regulated air pollutant and have been detected by the monitoring, record keeping and/or testing requirements in this permit:

i. all exceedances of the rolling, 12-month tube conditioning solvent usage rate limitation of 7,078 pounds;

ii. all exceedances of the rolling, 12-month emission limitation for VOC of 3.54 tons;

iii. all deviations of the permittee shall not employ any raw material which contains any of the hazardous air pollutants (HAPs) listed in section 112(b) of the Clean Air Act in this emissions unit;

b. the probable cause of each deviation (excursion);

c. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and

d. the magnitude and duration of each deviation (excursion).

If no deviations (excursions) occurred during a calendar quarter, the permittee shall submit a report that states that no deviations (excursions) occurred during the quarter.

The quarterly reports shall be submitted, electronically through Ohio EPA Air Services, each year by January 31 (covering October to December), April 30 (covering January to March), July 31 (covering April to June), and October 31 (covering July to September), unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).

(2) All applications, notifications or reports required by terms and conditions in this permit to be submitted or "reported in writing" are to be submitted to Ohio EPA through the Ohio EPA's eBusiness Center: Air Services web service ("Air Services"). Ohio EPA will accept hard copy submittals on an as-needed basis if the permittee cannot submit the required documents through the Ohio EPA eBusiness Center. In the event of an alternative hard copy submission in lieu of the eBusiness Center, the post-marked date or the date the document is delivered in person will be recognized as the date submitted. Electronic submission of applications, notifications, or reports required to be submitted to Ohio EPA fulfills the requirement to submit the required information to the Director, the District Office or Local Air Agency, and/or any other individual or organization specifically identified as an additional recipient identified in this permit unless otherwise specified. Consistent with OAC rule 3745-15-03, the required application, notification or report is considered to be "submitted" on the date the submission is successful using a valid electronic signature. Signature by the signatory authority may be represented as provided through procedures established in Air Services.

(3) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA. The PER must be submitted by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.

f) Testing Requirements

(1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitations:

The emissions of VOC from applicator TCM-002 shall not exceed 3.14 pounds per hour.

The emissions of VOC from applicator TCM-003 shall not exceed 1.55 pounds per hour.

The emissions of VOC from applicator TCM-004 shall not exceed 1.55 pounds per hour.

The emissions of VOC from applicator TCM-005 shall not exceed 1.55 pounds per hour.

The emissions of VOC from applicator TCM-006 shall not exceed 5.82 pounds per hour.

Applicable Compliance Method:

Compliance with the hourly allowable VOC emission limitations above shall be demonstrated by multiplying the density of the tube conditioning solvent (in pound per gallon) by the maximum hourly tube conditioning solvent usage rate (in gallons).

If required and technically feasible, the permittee shall demonstrate compliance with the hourly allowable VOC emission limitations above based on the results of emission testing conducted in accordance with Methods 18, 25 or 25A, as appropriate, of 40 CFR Part 60, Appendix A.

b. Emission Limitation:

The emissions of VOC from this emissions unit shall not exceed 3.54 tons per year, based upon a rolling, 12-month summation of the monthly emissions.

Applicable Compliance Method:

Compliance with the annual allowable VOC emission limitation above shall be demonstrated through the record keeping requirements established in d)(1) above.

c. Usage Limitation:

The maximum annual tube conditioning solvent usage for this emissions unit shall not exceed 7,078 pounds, based upon a rolling, 12-month summation of the monthly tube conditioning solvent usage rates.

Applicable Compliance Method:

Compliance with the annual allowable solvent usage limitation above shall be demonstrated through the record keeping requirements established in d)(1) above.

g) Miscellaneous Requirements

(1) Table 2. Process 02 - Tube Conditioning Operations Emissions Units

pplicator Number	Date of Installation	Maximum Material Usage Rate (gallon/hour)
CM-001	1973	0.472
CM-002	1974	0.366
CM-003	1974	0.181
CM-004	1976	0.181
CM-005	2002	0.181
CM-006	2002	0.678

4. Emissions Unit Group -PreCoat and Printing Operations: R001,R002,R003,

EU ID	Operations, Property and/or Equipment Description
R001	Process 03 - Reinforcement Operations (see Table 3. Process 03 - Reinforcement Operations Emissions Units)
R002	Process 04 - PreCoat Operations (see Table 4. Process 04 - PreCoat Operations Emissions Units)
R003	Process 05 - Offset Printing Operations (see Table 5. Process 05 - Offset Printing Operations Emissions Units).

a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. None.

(2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. All.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) (Requirements for emissions unit R001)	The emissions of volatile organic compounds (VOC)* from each of the following applicators: BAA-003, BAA-004, BAA-005, BAA-006, BAA-007, BAA-008, BAA-009 and BAA-010 shall not exceed 0.82 pound per hour. The emissions of VOC* from each of the following applicators: BEA-001, BEA-002 and BEA-003 shall not exceed 0.53 pound per hour. The emissions of VOC* from applicator BEA-004 shall not exceed 1.51 pounds

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		per hour. The emissions of VOC* from each of the following applicators: BNYA-001, BNYA-002 and BNYA-003 shall not exceed 2.04 pounds per hour. The emissions of organic compounds (OC)** from applicator BTA-001 shall not exceed 1.02 pounds per hour. The emissions of VOC* from each of the following applicators: BAA-001 and BAA-002 shall not exceed 0.27 pound per hour. The emissions of OC** from emissions units R001, R002 and R003, combined, shall not exceed 31.61 tons per year, based upon a rolling, 12-month summation of the monthly emissions. *All OC emitted from applicators BAA-001, BAA-002, BAA-003, BAA-004, BAA-005, BAA-006, BAA-007, BAA-008, BAA-009, BAA-010, BEA-001, BEA-002, BEA-003, BEA-004, BNYA-001, BNYA-002 and BNYA-003 are considered to be VOC. **OC emitted from applicator BTA-001 are not considered to be VOC.
b.	OAC rule 3745-31-05(A)(3) (Requirements for emissions unit R002)	The emissions of organic compounds (OC)** from each of the following applicators: PTA-001 and PTA-002 shall not exceed 3.95 pounds per hour. The emissions of OC** from each of the following applicators: PTA-003 and PTA-004 shall not exceed 3.90 pounds per hour. The emissions of OC** from applicator PTA-005 shall not exceed 3.58 pounds per hour.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		The emissions of volatile organic compounds (VOC)* from applicator PNYA-001 shall not exceed 2.42 pounds per hour. The emissions of VOC* from applicator PEA-001 shall not exceed 1.36 pounds per hour. The emissions of OC** from emissions units R001, R002 and R003, combined, shall not exceed 31.61 tons per year, based upon a rolling, 12-month summation of the monthly emissions. *All OC emitted from applicators PNYA-001 and PEA-001 are considered to be VOC. **OC emitted from applicators PTA-001, PTA-002, PTA-003, PTA-004, and PTA-005 are not considered to be VOC.
c.	OAC rule 3745-31-05(A)(3) (Requirements for emissions unit R003)	The emissions of volatile organic compounds (VOC) from each printing operation installed on or after January 1, 1974 shall not exceed 0.05 pound per hour for inks and thinners. The emissions of OC from emissions units R001, R002 and R003, combined, shall not exceed 31.61 tons per year, based upon a rolling, 12-month summation of the monthly emissions.
d.	OAC rule 3745-31-05(D) (Synthetic Minor to avoid Title V, nonattainment NSR and MACT requirements)	See 2 through 6 of Section B. Facility-Wide Terms and Conditions.
e.	OAC rule 3745-21-28	The facility is not subject to the requirements in paragraphs (B) to (G) of OAC rule 3745-21-28 because the total actual VOC emissions, before the application of air pollution control systems, from all miscellaneous industrial adhesive application processes (including emissions from surface preparation and cleanup activities) at the facility are not equal to or greater than 3.0 tons per twelve-month rolling period. (R001 & R002)

(2) Additional Terms and Conditions

a. The hourly VOC and OC emission limitations are based on each applicator's or printing operation's potential to emit. Therefore, no monitoring, record keeping or reporting is or will be required to demonstrate compliance with these emission limitations. Such requirements would be impractical and unreasonable given the nature of this emissions unit.

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall maintain monthly records of the following information for the miscellaneous industrial adhesive and sealant application process (including emissions from surface preparation and cleanup activities) (R001 & R002):

a. Total pounds or gallons of each adhesive, sealant, adhesive primer, sealant primer, cleanup solvent and surface preparation solvent used per calendar month;

b. VOC content (per cent by weight and pounds per gallon) of each adhesive, sealant, adhesive primer, sealant primer, cleanup solvent and surface preparation solvent used per calendar month;

c. The total monthly VOC emissions, before the application of capture systems and control devices, in pounds for all adhesives, sealant, adhesive primer, sealant primer, cleanup solvent and surface preparation solvent employed per calendar month; and

d. The rolling twelve-month summation of VOC emissions, in tons, before the application of control systems and devices. The rolling twelve-month summation shall be calculated as the total VOC emissions for the current calendar month, plus the total VOC emissions from the previous eleven calendar months.

These records shall be retained for a period of five years.

e) Reporting Requirements

(1) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA. The PER must be completed electronically and submitted via the Ohio EPA eBusiness Center: Air Services by the due date identified in the Authorization section of this permit. The PER shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.

f) Testing Requirements

(1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitations:

The emissions of VOC from each of the following applicators: BAA-003, BAA-004, BAA-005, BAA-006, BAA-007, BAA-008, BAA-009, and BAA-010 shall not exceed 0.82 pound per hour. (R001)

The emissions of VOC from each of the following applicators: BEA-001, BEA-002, and BEA-003 shall not exceed 0.53 pound per hour. (R001)

The emissions of VOC from applicator BEA-004 shall not exceed 1.51 pounds per hour. (R001)

The emissions of VOC from each of the following applicators: BNYA-001, BNYA-002, and BNYA-003 shall not exceed 2.04 pounds per hour. (R001)

The emissions of OC from applicator BTA-001 shall not exceed 1.02 pounds per hour. (R001)

The emissions of VOC from each of the following applicators: BAA-001 and BAA-002 shall not exceed 0.27 pound per hour. (R001)

The emissions of OC from each of the following applicators: PTA-001 and PTA-002 shall not exceed 3.95 pounds per hour. (R002)

The emissions of OC from each of the following applicators: PTA-003 and PTA-004 shall not exceed 3.90 pounds per hour. (R002)

The emissions of OC from applicator PTA-005 shall not exceed 3.58 pounds per hour. (R002)

The emissions of VOC from applicator PNYA-001 shall not exceed 2.42 pounds per hour. (R002)

The emissions of VOC from applicator PEA-001 shall not exceed 1.36 pounds per hour. (R002)

Applicable Compliance Method:

Compliance with the hourly allowable VOC or OC emission limitations above shall be demonstrated by multiplying worst-case VOC or OC content (in pounds per gallon) by the maximum hourly usage rate (in gallons).

If required and technically feasible, the permittee shall demonstrate compliance with the hourly allowable VOC and OC emission limitations above based on the results of emission testing conducted in accordance with Methods 18, 25 or 25A, as appropriate, of 40 CFR Part 60, Appendix A.

b. Emission Limitations:

The emissions of OC from emissions units R001, R002 and R003, combined, shall not exceed 31.61 tons per year, based upon a rolling, 12-month summation of the monthly emissions.

Applicable Compliance Method:

Compliance with the annual allowable OC emission limitation above shall be demonstrated through the record keeping requirements established in 4 of Section B. Facility-Wide Terms and Conditions.

c. Emission Limitation:

The total actual VOC emissions, before the application of air pollution control systems, from all miscellaneous industrial adhesive application processes (including emissions from surface preparation and cleanup activities) at the facility are not equal to or greater than 3.0 tons per twelve-month rolling period. (R001 & R002)

Applicable Compliance Method:

Compliance with the annual allowable VOC emission limitation above shall be demonstrated through the record keeping requirements established in d)(1) above.

d. Emission Limitation:

The emissions of VOC from each printing operation installed on or after January 1, 1974 shall not exceed 0.05 pound per hour for inks and thinners. (R003)

Applicable Compliance Method:

Compliance with the hourly allowable VOC emission limitation above shall be demonstrated by multiplying worst-case VOC content (in pounds per gallon) by the maximum hourly ink usage rate (in gallons) plus the worst-case VOC content (in pounds per gallon) times the maximum hourly thinner usage rate (in gallons).

If required and technically feasible, the permittee shall demonstrate compliance with the hourly allowable VOC emission limitation above based on the results of emission testing conducted in accordance with Methods 18, 25 or 25A, as appropriate, of 40 CFR Part 60, Appendix A.

g) Miscellaneous Requirements

(1) Table 3. Process 03 - Reinforcement Operations Emissions Units

Applicator Number	Date of Installation	Maximum Material Usage Rate (gallon/hour)
BAA-003	2002	0.121
BAA-004	2002	0.121
BAA-005	2002	0.121
BAA-006	2002	0.121
BAA-007	2005	0.121
BAA-008	2005	0.121
BAA-009	2005	0.121
BAA-010	2005	0.121
BEA-001	1978	0.145
BEA-002	1979	0.145
BEA-003	1982	0.145
BEA-004	2002	0.417
BNYA-001	2002	0.73
BNYA-002	2002	0.73
BNYA-003	2002	0.73
BTA-001	2002	0.206
BAA-001	2002	0.041
BAA-002	2002	0.041

(2) Table 4. Process 04 - PreCoat Operations Emissions Units

Applicator Number	Date of Installation	Maximum Material Usage Rate (gallon/hour)
PTA-001	1974	0.807

PTA-002	1979	0.807
PTA-003	1979	0.798
PTA-004	1982	0.798
PTA-005	1982	0.732
PNYA-001	2002	0.73
PEA-001	1974	0.374

(3) Table 5. Process 05 - Offset Printing Operations Emissions Units

Printer Number	Equipment Description	erial Number	ate of Installation	aximum Material Usage Rate (gallon/hour)
611	atthews offset printer	C-73-D	73	006
573	atthews offset printer	83-D	83	006
304	atthews offset printer	6024	nknown	006

5. Emissions Unit Group -Tool Cleaning Ovens: N002,N003,N005,

EU ID	Operations, Property and/or Equipment Description
N002	Procedyne Tool Cleaning Oven #2
N003	Tool cleaning incinerator No. #3
N005	Procedyne Fluidized Bed Tool Cleaning Oven (Formerly P004)

a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. None.

(2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) (Requirements for Emissions Unit N002)	The particulate emissions (PE) shall not exceed 0.10 pound per 100 pounds ofliquid, semisolid or solid refuse and salvageable material charged and 1.45 tons per year. The emissions of nitrogen oxides (NO_x) shall not exceed 0.09 pound per hour and 0.39 ton per year. The emissions of volatile organic compounds (VOC) shall not exceed 0.005 pound per hour and 0.02 ton per year. The emissions of sulfur dioxide (SO_2) shall not exceed 0.002 pound per hour and 0.01 ton per year.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		The emissions of carbon monoxide (CO) shall not exceed 0.07 pound per hour and 0.31 ton per year. Visible PE from any stack shall not exceed 5% opacity as a six-minute average.
b.	OAC rule 3745-31-05(A)(3) (Requirements for Emissions Unit N003)	PE shall not exceed 0.2 pound per 100 pounds of materials charged, and 0.09 tons per year. NOx emissions shall not exceed 0.03 pound per hour, and 0.13 tons per year. OC emissions shall not exceed 0.02 pound per hour, and 0.09 tons per year. SO2 emissions shall not exceed 0.002 pound per hour, and 0.01 tons per year. CO emissions shall not exceed 0.05 pound per hour, and 0.22 tons per year. Visible PE from any stack shall not exceed 5% opacity as a six-minute average
c.	OAC rule 3745-17-07(A)	For emissions unit N002 and N003, the emission limitation based on this applicable rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05. For emissions unit N005, visible PE from any stack shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.
d.	OAC rule 3745-17-09	For emissions unit N002 and N003, the emission limitation based on this applicable rule is equivalent to the emission limitation established pursuant to OAC rule 3745-31-05. For emissions unit N005, the PE shall not exceed 0.10 pound per 100 pounds of liquid, semisolid or solid refuse and salvageable material charged.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		For emissions units N002, N003, and N005, incinerators, including all associated equipment and grounds, shall be designed, operated and maintained so as to prevent the emission of objectionable odors.

(2) Additional Terms and Conditions

a. None.

c) Operational Restrictions

(1) The permittee shall only employ natural gas as fuel in this emissions unit.

(2) The permittee shall not process parts which may emit vapors of toxic metals such as lead or mercury. The permittee shall not process parts or materials containing coatings or plastics which contain halogens such as chloride, fluorine, or bromine.

(3) No parts or materials shall be charged until sufficient time has been allowed for the preheating of the secondary chamber. Both the primary and secondary burners shall be kept in operation during the entire time the incinerator is in use. The auxiliary burner shall be fired until the necessary burn-down time is achieved.

(4) The secondary chamber shall be maintained at a temperature of at least 1400 degrees Fahrenheit.

d) Monitoring and/or Recordkeeping Requirements

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

(2) The permittee shall collect and record the following information for each day:

a. all 3-hour blocks of time during which the average combustion temperature within the afterburner of the incinerator, when the emissions unit(s) was/were in operation, was less than 1400 degrees Fahrenheit; and

b. a log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit(s) was/were in operation.

e) Reporting Requirements

(1) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA. The PER must be completed electronically and submitted via the Ohio EPA eBusiness Center: Air Services by the due date identified in the Authorization section of this permit. The PER shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.

(2) The permittee shall identify in the annual permit evaluation report (PER) each period of time (start time and date, and end time and date) when the average temperature within the secondary chamber of the incinerator was outside of the acceptable temperature limitation during the 12-month reporting period for this emissions unit.

f) Testing Requirements

(1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitations:

For emissions unit N002 and N003, visible PE from any stack shall not exceed 5% opacity as a six-minute average.

For emissions unit N005, visible PE from any stack shall not exceed 20 percent opacity as a six-minute average, except as specified by rule.

Applicable Compliance Method:

If required, compliance with the stack visible PE limitations shall be determined through visible emissions observations performed in accordance with U.S. EPA Method 9.

b. Emission Limitations:

The PE shall not exceed 0.10 pound per 100 pounds of liquid, semisolid or solid refuse and salvageable material charged. (N002, N005)

1.45 tons of PE per year (N005)

PE shall not exceed 0.2 pound per 100 pounds of materials charged, and 0.09 tons per year. (N003)

Applicable Compliance Method:

If required, compliance with the allowable PE limitations above shall be determined by using the test method(s) and procedures in Methods 1-5 of 40 CFR Part 60, Appendix A and OAC rule 3745-17-03(B)(8).

c. Emission Limitation:

The emissions of VOC shall not exceed 0.005 pound per hour. (N002)

OC emissions shall not exceed 0.02 pound per hour. (N003)

Applicable Compliance Method:

Compliance with the hourly allowable VOC emission limitation above shall be demonstrated by multiplying the VOC emission factor of 5.6 pounds of VOC per million cubic feet of natural gas burned* by the maximum hourly amount of natural gas burned (in million cubic feet/hour).

*The emission factor was obtained from WebFIRE (dated December 1995) SCC 3-08-9-0013.

Compliance with the hourly allowable OC emission limitation above shall be demonstrated by multiplying the AP-42 (7/98) Table 1.4-2 emission factor of 11.0 pounds per million cubic feet of natural gas fired by maximum natural gas firing rate, in million cubic feet per hour.

d. Emission Limitation:

The emissions of NO_x shall not exceed 0.09 pound per hour. (N002)

NOx emissions shall not exceed 0.03 pound per hour. (N003)

Applicable Compliance Method:

Compliance with the hourly allowable NO_x emission limitation above shall be demonstrated by multiplying the NO_x emission factor of 100 pounds of NO_x per million cubic feet of natural gas burned* by the maximum hourly amount of natural gas burned (in million cubic feet/hour).

*The emission factor was obtained from AP-42 Table 1.4-1 dated 7/98.

e. Emission Limitation:

The emissions of SO_2 shall not exceed 0.002 pound per hour. (N002)

SO2 emissions shall not exceed 0.002 pound per hour. (N003)

Applicable Compliance Method:

Compliance with the hourly allowable SO_2 emission limitation above shall be demonstrated by multiplying the SO_2 emission factor of 0.6 pound of SO_2 per million cubic feet of natural gas burned* by the maximum hourly amount of natural gas burned (in million cubic feet/hour).

*The emission factor was obtained from AP-42 Table 1.4-2 dated 7/98.

f. Emission Limitation:

The emissions of CO shall not exceed 0.07 pound per hour. (N002)

CO emissions shall not exceed 0.05 pound per hour. (N003)

Applicable Compliance Method:

Compliance with the hourly allowable CO emission limitation above shall be demonstrated by multiplying the CO emission factor of 84 pounds of CO per million cubic feet of natural gas burned* by the maximum hourly amount of natural gas burned (in million cubic feet/hour).

*The emission factor was obtained from AP-42, Fifth Edition, Table 1.4.1 dated 7/98.

g. Emission Limitations:

The emissions of NO_x shall not exceed 0.39 ton per year. (N002)

The emissions of VOC shall not exceed 0.02 ton per year. (N002)

The emissions of SO_2 shall not exceed 0.01 ton per year. (N002)

The emissions of CO shall not exceed 0.31 ton per year. (N002)

NOx emissions shall not exceed 0.13 tons per year. (N003)

OC emissions shall not exceed 0.09 tons per year. (N003)

SO2 emissions shall not exceed 0.01 tons per year. (N003)

CO emissions shall not exceed 0.22 tons per year. (N003)

Applicable Compliance Method:

Compliance with the annual allowable emission limitations above shall be demonstrated by multiplying the hourly allowable emission limitation by 8760 hours per year, and then dividing by 2000 pounds per ton. Therefore, as long as compliance with the hourly allowable emission limitations is maintained, compliance with the annual allowable emission limitations shall be demonstrated.

g) Miscellaneous Requirements

(1) None.