



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

12/11/2015

Mr. Edward Just  
Eaton Corp Aurora  
115 Lena Drive  
Aurora, OH 44202

Certified Mail

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

RE: FINALAIR POLLUTION PERMIT-TO-INSTALL AND OPERATE

Facility ID: 1667020046  
Permit Number: P0119459  
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](http://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](http://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](http://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)375-2480 or 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  
Eaton Corp Aurora**

Facility ID:	1667020046
Permit Number:	P0119459
Permit Type:	Renewal
Issued:	12/11/2015
Effective:	12/11/2015
Expiration:	12/11/2025





**Division of Air Pollution Control  
Permit-to-Install and Operate**

for  
Eaton Corp Aurora

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**Final Permit-to-Install and Operate**  
Eaton Corp Aurora  
**Permit Number:** P0119459  
**Facility ID:** 1667020046  
**Effective Date:** 12/11/2015

## Authorization

Facility ID: 1667020046  
Application Number(s): A0053298  
Permit Number: P0119459  
Permit Description: Renewal PTIO for reinforced braided hose manufacturing and transition to minor source permitting and remove existing federally enforceable restrictions.  
Permit Type: Renewal  
Permit Fee: \$0.00  
Issue Date: 12/11/2015  
Effective Date: 12/11/2015  
Expiration Date: 12/11/2025  
Permit Evaluation Report (PER) Annual Date: Jan 1 - Dec 31, Due Feb 15

This document constitutes issuance to:

Eaton Corp Aurora  
115 Lena Ave  
Aurora, OH 44202

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

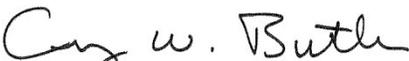
Ohio Environmental Protection Agency (EPA) District Office or local air agency responsible for processing and administering your permit:

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: P0119459

Permit Description: Renewal PTIO for reinforced braided hose manufacturing and transition to minor source permitting and remove existing federally enforceable restrictions.

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

**Emissions Unit ID: N002**  
 Company Equipment ID: Tool Room Burn-off Oven  
 Superseded Permit Number: P0107059  
 General Permit Category and Type: Not Applicable

**Emissions Unit ID: P029**  
 Company Equipment ID: Extrusion Machine E-16  
 Superseded Permit Number: P0115048  
 General Permit Category and Type: Not Applicable

**Emissions Unit ID: P030**  
 Company Equipment ID: Karg Braider KH2014  
 Superseded Permit Number: P0116405  
 General Permit Category and Type: Not Applicable

**Emissions Unit ID: P031**  
 Company Equipment ID: Extrusion Processing Line E-18  
 Superseded Permit Number: P0117556  
 General Permit Category and Type: Not Applicable

**Group Name: Braiding Lines**

<b>Emissions Unit ID:</b>	<b>P001</b>
Company Equipment ID:	Lapper 1
Superseded Permit Number:	P0111261
General Permit Category and Type:	Not Applicable
<b>Emissions Unit ID:</b>	<b>P003</b>
Company Equipment ID:	MR 11 Machine 1
Superseded Permit Number:	P0111261
General Permit Category and Type:	Not Applicable
<b>Emissions Unit ID:</b>	<b>P004</b>
Company Equipment ID:	MR 11 Machine 2
Superseded Permit Number:	P0111261
General Permit Category and Type:	Not Applicable
<b>Emissions Unit ID:</b>	<b>P005</b>
Company Equipment ID:	MR11 Machine 3
Superseded Permit Number:	P0107059
General Permit Category and Type:	Not Applicable
<b>Emissions Unit ID:</b>	<b>P006</b>
Company Equipment ID:	MR11 Machine 4,
Superseded Permit Number:	P0107059
General Permit Category and Type:	Not Applicable
<b>Emissions Unit ID:</b>	<b>P007</b>
Company Equipment ID:	MR11 Machine 5
Superseded Permit Number:	P0107059
General Permit Category and Type:	Not Applicable

<b>Emissions Unit ID:</b>	<b>P008</b>
Company Equipment ID:	MR11 Machine 6
Superseded Permit Number:	P0107059
General Permit Category andType:	Not Applicable
<b>Emissions Unit ID:</b>	<b>P009</b>
Company Equipment ID:	MR11 Machine 7,
Superseded Permit Number:	P0107059
General Permit Category andType:	Not Applicable
<b>Emissions Unit ID:</b>	<b>P010</b>
Company Equipment ID:	MR 11 Machine 8
Superseded Permit Number:	P0111261
General Permit Category andType:	Not Applicable
<b>Emissions Unit ID:</b>	<b>P011</b>
Company Equipment ID:	MR 11 Machine 9
Superseded Permit Number:	P0111261
General Permit Category andType:	Not Applicable
<b>Emissions Unit ID:</b>	<b>P012</b>
Company Equipment ID:	MR 11 Machine 10
Superseded Permit Number:	P0111261
General Permit Category andType:	Not Applicable
<b>Emissions Unit ID:</b>	<b>P013</b>
Company Equipment ID:	MR 11 Machine 11
Superseded Permit Number:	P0111261
General Permit Category andType:	Not Applicable
<b>Emissions Unit ID:</b>	<b>P014</b>
Company Equipment ID:	MR11 Machine 12,
Superseded Permit Number:	P0107059
General Permit Category andType:	Not Applicable
<b>Emissions Unit ID:</b>	<b>P015</b>
Company Equipment ID:	MR11 Machine13,
Superseded Permit Number:	P0107059
General Permit Category andType:	Not Applicable
<b>Emissions Unit ID:</b>	<b>P016</b>
Company Equipment ID:	Beam Server SO1
Superseded Permit Number:	P0111261
General Permit Category andType:	Not Applicable
<b>Emissions Unit ID:</b>	<b>P017</b>
Company Equipment ID:	Beam Server SO2
Superseded Permit Number:	P0111261
General Permit Category andType:	Not Applicable
<b>Emissions Unit ID:</b>	<b>P018</b>
Company Equipment ID:	Karg Braider K1
Superseded Permit Number:	P0111261
General Permit Category andType:	Not Applicable
<b>Emissions Unit ID:</b>	<b>P020</b>
Company Equipment ID:	Karg Braider K3
Superseded Permit Number:	P0111261
General Permit Category andType:	Not Applicable
<b>Emissions Unit ID:</b>	<b>P021</b>
Company Equipment ID:	Karg Braider K4
Superseded Permit Number:	P0111261
General Permit Category andType:	Not Applicable
<b>Emissions Unit ID:</b>	<b>P027</b>
Company Equipment ID:	MR 11 Machine 14
Superseded Permit Number:	P0110067
General Permit Category andType:	Not Applicable



**Final Permit-to-Install and Operate**  
 Eaton Corp Aurora  
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<b>Emissions Unit ID:</b>	<b>P028</b>
Company Equipment ID:	Karg Braider K6
Superseded Permit Number:	P0110067
General Permit Category andType:	Not Applicable

**Group Name: Extrusion Lines**

<b>Emissions Unit ID:</b>	<b>P024</b>
Company Equipment ID:	Extruder #12
Superseded Permit Number:	P0107093
General Permit Category andType:	Not Applicable
<b>Emissions Unit ID:</b>	<b>P025</b>
Company Equipment ID:	Extruder #13
Superseded Permit Number:	P0107093
General Permit Category andType:	Not Applicable
<b>Emissions Unit ID:</b>	<b>P026</b>
Company Equipment ID:	Extruder #14
Superseded Permit Number:	P0107093
General Permit Category andType:	Not Applicable

**Group Name: Precoaters**

<b>Emissions Unit ID:</b>	<b>R001</b>
Company Equipment ID:	Precoater 1
Superseded Permit Number:	P0107059
General Permit Category andType:	Not Applicable
<b>Emissions Unit ID:</b>	<b>R002</b>
Company Equipment ID:	Precoater 2,
Superseded Permit Number:	P0107059
General Permit Category andType:	Not Applicable



**Final Permit-to-Install and Operate**  
Eaton Corp Aurora  
**Permit Number:** P0119459  
**Facility ID:** 1667020046  
**Effective Date:** 12/11/2015

## **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 being permanently shut down without first applying for and obtaining a permit pursuant to 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.



**Final Permit-to-Install and Operate**  
Eaton Corp Aurora  
**Permit Number:** P0119459  
**Facility ID:** 1667020046  
**Effective Date:** 12/11/2015

## **B. Facility-Wide Terms and Conditions**



**Final Permit-to-Install and Operate**

Eaton Corp Aurora

**Permit Number:** P0119459

**Facility ID:** 1667020046

**Effective Date:** 12/11/2015

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) None.



**Final Permit-to-Install and Operate**  
Eaton Corp Aurora  
**Permit Number:** P0119459  
**Facility ID:** 1667020046  
**Effective Date:** 12/11/2015

## **C. Emissions Unit Terms and Conditions**

**1. N002, Tool Room Burn-off Oven**

**Operations, Property and/or Equipment Description:**

Tool Room Burn-off Oven

- 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 0.05 pound per hour, and 0.22 ton per year.  (Based on 25 pounds per hour maximum charge capacity.)  See b)(2)a. below.
b.	OAC rule 3745-31-05(A)(3)(a)(ii), as effective 6/30/2008	The BAT requirements under OAC rule 3745-31-05(A)(3) do not apply to the PE limitation from this air contaminant source since the potential to emit is 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.



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
d.	OAC rule 3745-17-09(B) & (C)	PE shall not exceed 0.20 pound per 100 pounds of liquid, semi-solid or solid refuse and salvageable material charged.  This emission limit applies after the SIP is approved as noted below in b)(2)b. removing the BAT limits.  See b)(2)c. below.

(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. The incinerator, including all associated equipment, stacks and grounds, shall be designed, operated, and maintained so as to prevent the emissions of objectionable odors.
- d. The incinerator shall be operated and maintained according to the manufacturer's specifications. The operators shall be properly trained in the operation and maintenance of the emissions unit.

c) Operational Restrictions

- (1) The permittee shall only fire natural gas as fuel in this emissions unit.
- (2) The permittee shall not charge the incinerator with "infectious agent" as defined in OAC rule 3745-75-01(B)(19).

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall perform daily 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.

e) Reporting Requirements

- (1) The reports required by this permit may be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal; or they may be mailed as a hard copy to the appropriate district office or local air agency.
- (2) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA District Office or Local Air Agency 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.
- (3) 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. Emission Limitation:  
PE shall not exceed 0.05 pound per hour, and 0.22 ton per year.  
0.20 pound of PE per 100 pounds of material charged



Applicable Compliance Method:

If required, compliance with this mass emission limitation shall be based on the results of stack testing in accordance with Methods 1 - 5 of 40 CFR Part 60, Appendix A.

The annual emission limitation was developed by multiplying the hourly mass emission limitation by 8760 hours per year, and then dividing by 2000. Therefore, compliance with the annual limitation shall be demonstrated if compliance with the hourly limitation is maintained.

b. Emission Limitation:

Visible PE shall not exceed 20 percent opacity as a six-minute average.

Applicable Compliance Method:

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. P029, Extrusion Machine E-16**

**Operations, Property and/or Equipment Description:**

Extrusion process consisting of hosing/tubing that is reinforced by the addition of fiber which is wrapped around hose and secured by adhesive followed by an extruder that applies an outer layer of plastic over the braid.

- 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	<p>Volatile organic compound (VOC) emissions shall not exceed 0.43 pound per hour, and 1.88 tons per year.</p> <p>Particulate emissions (PE) shall not exceed 0.10 pound per hour, and 0.44 ton per year.</p> <p>See b)(2)a. below.</p>
b.	OAC rule 3745-31-05(A)(3)(a)(ii), as effective 6/30/2008	<p>The BAT requirements under OAC rule 3745-31-05(A)(3) do not apply to the VOC limitation from this air contaminants source since the potential to emit is less than 10 tons per year.</p> <p>See b)(2)b. below.</p>



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
c.	OAC rule 3745-21-28(A)(1)(a)	Exempt from paragraphs (B) through (G) of this rule provided total actual uncontrolled VOC emissions from all miscellaneous industrial adhesive and sealant application processes at the entire facility are less than 3.0 tons per month per 12-month rolling period.  See d)(1) and e)(4) below.

(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) None.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain the following records for a period of five years from all miscellaneous industrial adhesive and sealant application processes (including emissions from surface preparation and cleanup activities) at this entire facility:
  - 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 (percent 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, 12-month summation of VOC emissions, in tons, before the application of control systems and devices. The rolling, 12-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.

e) Reporting Requirements

- (1) The reports required by this permit may be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal; or they may be mailed as a hard copy to the appropriate district office or local air agency.
- (2) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA District Office or Local Air Agency 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.
- (3) The permittee shall identify in the annual permit evaluation report whether or not any new adhesives or inks were employed in this emissions unit or if any existing adhesives or inks were reformulated that resulted in a higher VOC content.
- (4) The permittee shall notify the Ohio EPA District Office or Local Air Agency within 60 days after the process becomes subject to the requirements of paragraphs (B) through (G) of OAC rule 3745-21-28. The notification shall contain the information required by (G)(1) of this rule.

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 Limitation:

VOC emissions shall not exceed 0.43 pound per hour, and 1.88 tons per year.

Applicable Compliance Method:

The permittee shall demonstrate compliance with the hourly limitation based upon the following material balance methodology to determine total VOC emissions:

$$E_M = H_R + H_A + H_I$$

Where:

$E_M$  = Total VOC emissions;

$H_R$  = VOC emissions from extruded polymer resin, calculated by multiplying the maximum resin throughput of 250 kilograms per hour by the facility supplied emission factor of 0.026 grams of VOC per kilogram of extruded polymer resin;

$H_A$  = VOC emissions from adhesive application, calculated by multiplying the maximum adhesive usage rate of 0.798 pounds per hour by the facility supplied worst-case adhesive VOC content of 0.493 pounds of VOC per pound of adhesive applied; and



$H_i$  = VOC emissions from inks, calculated by multiplying the maximum ink usage rate of 0.0026 gallons per hour by the facility supplied worst-case ink VOC content of 7.03 pounds of VOC per gallon of ink applied.

Should a new worst-case adhesive or ink be employed or an existing one be reformatted in a manner that results in it becoming a new worst-case, the facility shall immediately incorporate its VOC content in the calculation of VOC emissions.

If required, the permittee shall demonstrate compliance with the hourly VOC limitation based on the results of emission testing conducted in accordance with Methods 1-4 and 18 or 25/25A, as appropriate, of 40 CFR Part 60, Appendix A.

The annual emission limitation was developed by multiplying the hourly mass emission limitation by 8760 hours per year, and then dividing by 2000. Therefore, compliance with the annual limitation shall be demonstrated if compliance with the hourly limitation is maintained.

b. Emission Limitation:

PE shall not exceed 0.10 pound per hour, and 0.44 ton per year.

Applicable Compliance Method:

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

The annual emission limitation was developed by multiplying the hourly mass emission limitation by 8760 hours per year, and then dividing by 2000. Therefore, compliance with the annual limitation shall be demonstrated if compliance with the hourly limitation is maintained.

g) Miscellaneous Requirements

- (1) None.

**3. P030, Karg Braider KH2014**

**Operations, Property and/or Equipment Description:**

Karg Braider KH2014 - plastic hose is reinforced by the addition of fiber which is wrapped around and secured by adhesive. The equipment consists of hose reels, adhesive applicators, braiders, capstan puller and coilers.

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	<p>Volatile organic compound (VOC) emissions shall not exceed 0.166 ton per month averaged over a 12-month rolling period.</p> <p>See b)(2)a. below.</p>
b.	OAC rule 3745-31-05(A)(3)(a)(ii), as effective 6/30/2008	<p>TheBATrequirementsunderOACrule3745-31-05(A)(3)donotapplytotheVOClimitation fromthisaircontaminantsourcesincethepotential to emit is less than 10 tons per year.</p> <p>See b)(2)b. below.</p>



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
c.	OAC rule 3745-21-28(A)(1)(a)	Exempt from paragraphs (B) through (G) of this rule provided total actual uncontrolled VOC emissions from all miscellaneous industrial adhesive and sealant application processes at the entire facility are less than 3.0 tons per month per 12-month rolling period.  See d)(1) and e)(4) below.

(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) None.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain the following records for a period of five years from all miscellaneous industrial adhesive and sealant application processes (including emissions from surface preparation and cleanup activities) at this entire facility:
  - 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 (percent 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, 12-month summation of VOC emissions, in tons, before the application of control systems and devices. The rolling, 12-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.

e) Reporting Requirements

- (1) The reports required by this permit may be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal; or they may be mailed as a hard copy to the appropriate district office or local air agency.
- (2) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA District Office or Local Air Agency 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.
- (3) The permittee shall identify in the annual permit evaluation report whether or not any new adhesives were employed in this emissions unit or if any existing adhesives were reformulated that resulted in a higher VOC content.
- (4) The permittee shall notify the Ohio EPA District Office or Local Air Agency within 60 days after the process becomes subject to the requirements of paragraphs (B) through (G) of OAC rule 3745-21-28. The notification shall contain the information required by (G)(1) of this rule.

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 Limitation:

VOC emissions shall not exceed 0.166 ton per month averaged over a 12-month rolling period.

Applicable Compliance Method:

The permittee shall demonstrate compliance with the VOC limitation based upon the following material balance methodology to determine total VOC emissions:

VOC emissions from adhesive application are calculated by multiplying the maximum hose/tubing throughput rate of 260 feet per hour by the maximum adhesive application rate of 0.0038 pounds of adhesive per feet of hose and then multiply the result by the facility supplied worst-case adhesive VOC content of 0.447 pounds of VOC per pound of adhesive applied.

Should a new worst-case adhesive be employed or an existing one be reformatted in a manner that results in it becoming a new worst-case, the facility shall immediately incorporate its VOC content in the calculation of VOC emissions.

If required, the permittee shall demonstrate compliance with the VOC limitation based on the results of emission testing conducted in accordance with Methods 1-4 and 18 or 25/25A, as appropriate, of 40 CFR Part 60, Appendix A.



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- g) Miscellaneous Requirements
  - (1) None.

**4. P031, Extrusion Processing Line E-18**

**Operations, Property and/or Equipment Description:**

Extrusion line E-18

- 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	<p>Volatile organic compound (VOC) emissions shall not exceed 0.153 ton per month averaged over a 12-month rolling period.</p> <p>The permittee shall install a pneumatic conveyor loading system for the extruders that has a design removal efficiency for particulate emissions (PE) of at least 99%.</p> <p>See b)(2)a. below.</p>
b.	OAC rule 3745-31-05(A)(3)(a)(ii), as effective 6/30/2008	<p>The BAT requirements under OAC rule 3745-31-05(A)(3) do not apply to the VOC limitation from this air contaminant source since the potential to emit is less than 10 tons per year.</p> <p>See b)(2)b. below.</p>

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
c.	OAC rule 3745-21-28(A)(1)(a)	Exempt from paragraphs (B) through (G) of this rule provided total actual uncontrolled VOC emissions from all miscellaneous industrial adhesive and sealant application processes at the entire facility are less than 3.0 tons per month per 12-month rolling period.  See d)(1) and e)(4) below.

(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) None.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain the following records for a period of five years from all miscellaneous industrial adhesive and sealant application processes (including emissions from surface preparation and cleanup activities) at this entire facility:
  - 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 (percent 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, 12-month summation of VOC emissions, in tons, before the application of control systems and devices. The rolling, 12-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.

e) Reporting Requirements

- (1) The reports required by this permit may be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal; or they may be mailed as a hard copy to the appropriate district office or local air agency.
- (2) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA District Office or Local Air Agency 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.
- (3) The permittee shall identify in the annual permit evaluation report whether or not any new adhesives or inks were employed in this emissions unit or if any existing adhesives or inks were reformulated that resulted in a higher VOC content.
- (4) The permittee shall notify the Ohio EPA District Office or Local Air Agency within 60 days after the process becomes subject to the requirements of paragraphs (B) through (G) of OAC rule 3745-21-28. The notification shall contain the information required by (G)(1) of this rule.

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 Limitation:

VOC emissions shall not exceed 0.153 ton per month averaged over a 12-month rolling period.

Applicable Compliance Method:

The permittee shall demonstrate compliance with the VOC limitation based upon the following material balance methodology to determine total VOC emissions:

$$E_M = H_R + H_A + H_I$$

Where:

$E_M$  = Total VOC emissions;

$H_R$  = VOC emissions from extruded polymer resin, calculated by multiplying the maximum resin throughput of 136 kilograms per hour by the facility supplied emission factor of 0.026 grams of VOC per kilogram of extruded polymer resin;

$H_A$  = VOC emissions from adhesive application, calculated by multiplying the maximum adhesive usage rate of 0.798 pounds per hour by the facility supplied worst-case adhesive VOC content of 0.493 pounds of VOC per pound of adhesive applied; and



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$H_i$  = VOC emissions from inks, calculated by multiplying the maximum ink usage rate of 0.0026 gallons per hour by the facility supplied worst-case ink VOC content of 7.03 pounds of VOC per gallon of ink applied.

Should a new worst-case adhesive or ink be employed or an existing one be reformatted in a manner that results in it becoming a new worst-case, the facility shall immediately incorporate its VOC content in the calculation of VOC emissions.

If required, the permittee shall demonstrate compliance with the VOC limitation based on the results of emission testing conducted in accordance with Methods 1-4 and 18 or 25/25A, as appropriate, of 40 CFR Part 60, Appendix A.

g) Miscellaneous Requirements

- (1) None.

**5. Emissions Unit Group - Braiding Lines: P001, P003, P004, P005, P006, P007, P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P020, P021, P027, and P028.**

<b>EU ID</b>	<b>Operations, Property and/or Equipment Description</b>
P001	Lapper 1. Application of reinforcing fiber braid to hoses and plastic tubing using adhesives. Equipment includes: hose reels, adhesive applicators, braiders, capstan puller and coilers.
P003	MR11 Machine 1. Application of reinforcing fiber braid to hoses and plastic tubing using adhesives. Equipment includes hose reels, adhesive applicators, braiders, capstan puller and coilers.
P004	MR11 Machine 2. Application of reinforcing fiber braid to hoses and plastic tubing using adhesives. Equipment includes: hose reels, adhesive applicators, braiders, capstan puller and coilers.
P005	MR11 Machine 3. Application of reinforcing braid to hoses and plastic tubing using adhesives. Consisting of hose reels, adhesive applicators, braiders, capstan puller and reel coilers.
P006	MR11 Machine 4. Application of reinforcing braid to hoses and plastic tubing using adhesives. Consisting of hose reels, adhesive applicators, braiders, capstan puller and reel coilers.
P007	MR11 Machine 5. Application of reinforcing braid to hoses and plastic tubing using adhesives. Consisting of hose reels, adhesive applicators, braiders, capstan puller and reel coilers.
P008	MR11 Machine 6. Application of reinforcing braid to hoses and plastic tubing using adhesives. Consisting of hose reels, adhesive applicators, braiders, capstan puller and reel coilers.
P009	MR11 Machine 7. Application of reinforcing braid to hoses and plastic tubing using adhesives. Consisting of hose reels, adhesive applicators, braiders, capstan puller and reel coilers.
P010	MR11 Machine 8. Application of reinforcing fiber braid to hoses and plastic tubing using adhesives. Equipments includes: hose reels, adhesive applicators, braiders, capstan puller and coilers.
P011	MR11 Machine 9. Application of reinforcing fiber braid to hoses and plastic tubing using adhesives. Equipment includes: hose reels, adhesive applicators, braiders, capstan puller and coilers.
P012	MR11 Machine 10. Application of reinforcing fiber braid to hoses and plastic tubing using adhesives. Equipment includes: hose reels, adhesive applicators, braiders, capstan puller and coilers.
P013	MR11 Machine 11. Application of reinforcing fiber braid to hoses and plastic tubing using adhesives. Equipment includes: hose reels, adhesive applicators, braiders, capstan puller and coilers.
P014	MR11 Machine 12. Application of reinforcing braid to hoses and plastic tubing using adhesives. Consisting of hose reels, adhesive applicators, braiders, capstan puller and reel coilers.
P015	MR11 Machine 13. Application of reinforcing braid to hoses and plastic tubing using adhesives. Consisting of hose reels, adhesive applicators, braiders, capstan puller and reel coilers.
P016	Beam Server SO1. Application of reinforcing fiber braid to hoses and plastic tubing using adhesives. Equipment includes: hose reels, adhesive applicators, braiders, capstan puller and coilers.

<b>EU ID</b>	<b>Operations, Property and/or Equipment Description</b>
P017	Beam Server SO2. Application of reinforcing fiber braid to hoses and plastic tubing using adhesives. Equipment includes: hose reels, adhesive applicators, braiders, capstan puller and coilers.
P018	KARG Braider K1. Application of reinforcing fiber braid to hoses and plastic tubing using adhesives. Equipment includes: hose reels, adhesive applicators, braiders, capstan puller and coilers.
P020	KARG Braider K3. Application of reinforcing fiber braid to hoses and plastic tubing using adhesives. Equipment includes: hose reels, adhesive applicators, braiders, capstan puller and coilers.
P021	KARG Braider K4. Application of reinforcing fiber braid to hoses and plastic tubing using adhesives. Equipment includes: hose reels, adhesive applicators, braiders, capstan puller and coilers.
P027	MR 11 Machine 14. Plastic hosing/tubing is reinforced by the addition of fiber which is wrapped around and secured by various adhesives. The equipment consists of hose reels, adhesive applicators, braiders, capstan puller and coilers.
P028	Karg Braider K6. Plastic hosing/tubing is reinforced by the addition of fiber which is wrapped around and secured by various adhesives. The equipment consists of hose reels, adhesive applicators, braiders, capstan puller and coilers.

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	Volatile organic compound (VOC) emissions shall not exceed 0.92 pound per hour, and 4.02 tons per year. (For each emissions unit P005, P006,

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		<p>P007, P008, P009, P014, and P015.)</p> <p>VOC emissions shall not exceed 0.14 pound per hour, and 0.61 ton per year. (For emissions unit P001.)</p> <p>VOC emissions shall not exceed 0.12 pound per hour, and 0.53 ton per year. (For each emissions unit P003, P004, P010, P011, P012, and P013.)</p> <p>VOC emissions shall not exceed 1.66 pounds per hour, and 7.27 tons per year. (For each emissions unit P016 and P017.)</p> <p>VOC emissions shall not exceed 0.15 pound per hour, and 0.66 ton per year. (For each emissions unit P018, P020, and P021.)</p> <p>VOC emissions shall not exceed 0.20 pound per hour, and 0.88 ton per year. (For emissions unit P027.)</p> <p>VOC emissions shall not exceed 0.44 pound per hour, and 1.93 tons per year. (For emissions unit P028.)</p> <p>See b)(2)a. below.</p>
b.	OAC rule 3745-31-05(A)(3)(a)(ii), as effective 6/30/2008	<p>The BAT requirements under OAC rule 3745-31-05(A)(3) do not apply to the VOC limitation from this air contaminants source since the potential to emit is less than 10 tons per year.</p> <p>See b)(2)b. below.</p>
c.	OAC rule 3745-21-28(A)(1)(a)	<p>Exempt from paragraphs (B) through (G) of this rule provided total actual uncontrolled VOC emissions from all miscellaneous industrial adhesive and sealant application processes at the entire facility are less than 3.0 tons per month per 12-month rolling period.</p> <p>See d)(1) and e)(4) below.</p>

- (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) None.
- d) Monitoring and/or Recordkeeping Requirements
  - (1) The permittee shall maintain the following records for a period of five years from all miscellaneous industrial adhesive and sealant application processes (including emissions from surface preparation and cleanup activities) at this entire facility:
    - 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 (percent 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, 12-month summation of VOC emissions, in tons, before the application of control systems and devices. The rolling, 12-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.
- e) Reporting Requirements
  - (1) The reports required by this permit may be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal; or they may be mailed as a hard copy to the appropriate district office or local air agency.
  - (2) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA District Office or Local Air Agency 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.
  - (3) The permittee shall identify in the annual permit evaluation report whether or not any new adhesives were employed in this emissions unit or if any existing adhesives were reformulated that resulted in a higher VOC content.

- (4) The permittee shall notify the Ohio EPA District Office or Local Air Agency within 60 days after the process becomes subject to the requirements of paragraphs (B) through (G) of OAC rule 3745-21-28. The notification shall contain the information required by (G)(1) of this rule.

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 Limitation:

VOC emissions shall not exceed 0.92 pound per hour, and 4.02 tons per year.  
(For each emissions unit P005, P006, P007, P008, P009, P014, and P015.)

VOC emissions shall not exceed 0.14 pound per hour, and 0.61 ton per year.  
(For emissions unit P001.)

VOC emissions shall not exceed 0.12 pound per hour, and 0.53 ton per year.  
(For each emissions unit P003, P004, P010, P011, P012, and P013.)

VOC emissions shall not exceed 1.66 pounds per hour, and 7.27 tons per year.  
(For each emissions unit P016 and P017.)

VOC emissions shall not exceed 0.15 pound per hour, and 0.66 ton per year.  
(For each emissions unit P018, P020, and P021.)

VOC emissions shall not exceed 0.20 pound per hour, and 0.88 ton per year.  
(For emissions unit P027.)

VOC emissions shall not exceed 0.44 pound per hour, and 1.93 tons per year.  
(For emissions unit P028.)

Applicable Compliance Method:

The permittee shall demonstrate compliance with the hourly limitation based upon the following material balance methodology to determine total VOC emissions:

VOC emissions from adhesive application are calculated by multiplying the maximum hose/tubing throughput rate by the maximum adhesive application rate and then multiply the result by the facility supplied worst-case adhesive VOC content of adhesive applied.



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Emissions Unit(s)	Hose Throughput (Feet per Hour)	Adhesive Application Rate (Pound of Adhesive per Feet of Hose)	Adhesive VOC Content (Pound of VOC per Pound of Adhesive)
P001	1500	0.00146	0.051
P003 – P015, P027	400	0.000672	0.447
P016 – P017	5535	0.000672	0.447
P018, P020, P021, P028	500	0.000672	0.447

Should a new worst-case adhesive be employed or an existing one be reformatted in a manner that results in it becoming a new worst-case, the facility shall immediately incorporate its VOC content in the calculation of VOC emissions.

If required, the permittee shall demonstrate compliance with the hourly VOC limitation based on the results of emission testing conducted in accordance with Methods 1-4 and 18 or 25/25A, as appropriate, of 40 CFR Part 60, Appendix A.

The annual emission limitation was developed by multiplying the hourly mass emission limitation by 8760 hours per year, and then dividing by 2000. Therefore, compliance with the annual limitation shall be ensured if compliance with the hourly limitation is maintained.

g) Miscellaneous Requirements

- (1) None.

**6. Emissions Unit Group - Extrusion Lines: P024, P025, P026.**

<b>EU ID</b>	<b>Operations, Property and/or Equipment Description</b>
P024	plastic extruder with an adhesive application station allowing plastic to be extruded over braided hose.
P025	plastic extruder with an adhesive application station allowing plastic to be extruded over braided hose.
P026	plastic extruder with an adhesive application station allowing plastic to be extruded over braided hose.

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.

	<b>Applicable Rules/Requirements</b>	<b>Applicable Emissions Limitations/Control Measures</b>
a.	OAC rule 3745-31-05(A)(3), as effective 6/30/2008	<p>Volatile organic compound (VOC) emissions shall not exceed 1.1 pounds per hour, and 4.8 tons per year for each emissions unit.</p> <p>See b)(2)a. below.</p>
b.	OAC rule 3745-31-05(A)(3)(a)(ii), as effective 6/30/2008	<p>The BAT requirements under OAC rule 3745-31-05(A)(3) do not apply to the VOC limitation from this air contaminant source since the potential to emit is less than 10 tons per year.</p> <p>See b)(2)b. below.</p>
c.	OAC rule 3745-21-28(A)(1)(a)	Exempt from paragraphs (B) through (G)



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		<p>of this rule provided total actual uncontrolled VOC emissions from all miscellaneous industrial adhesive and sealant application processes at the entire facility are less than 3.0 tons per month per 12-month rolling period.</p> <p>See d)(1) and e)(4) below.</p>

(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) None.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain the following records for a period of five years from all miscellaneous industrial adhesive and sealant application processes (including emissions from surface preparation and cleanup activities) at this entire facility:
  - 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 (percent 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, 12-month summation of VOC emissions, in tons, before the application of control systems and devices. The rolling, 12-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.

e) Reporting Requirements

- (1) The reports required by this permit may be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal; or they may be mailed as a hard copy to the appropriate district office or local air agency.
- (2) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA District Office or Local Air Agency 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.
- (3) The permittee shall identify in the annual permit evaluation report whether or not any new adhesives or inks were employed in this emissions unit or if any existing adhesives or inks were reformulated that resulted in a higher VOC content.
- (4) The permittee shall notify the Ohio EPA District Office or Local Air Agency within 60 days after the process becomes subject to the requirements of paragraphs (B) through (G) of OAC rule 3745-21-28. The notification shall contain the information required by (G)(1) of this rule.

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 Limitation:

VOC emissions shall not exceed 1.1 pounds per hour, and 4.8 tons per year for each emissions unit.

Applicable Compliance Method:

The permittee shall demonstrate compliance with the hourly VOC limitation based upon the following material balance methodology to determine total VOC emissions:

$$E_M = H_R + H_A + H_I$$

Where:

$E_M$  = Total VOC emissions;

$H_R$  = VOC emissions from extruded polymer resin, calculated by multiplying the maximum resin throughput of 350 pounds per hour by the facility supplied emission factor of 0.026 grams of VOC per kilogram of extruded polymer resin;

$H_A$  = VOC emissions from adhesive application, calculated by multiplying the maximum adhesive usage rate of 3.92 pounds per hour by the facility supplied worst-case adhesive VOC content of 0.249 pounds of VOC per pound of adhesive applied; and



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$H_i$  = VOC emissions from inks, calculated by multiplying the maximum ink usage rate of 0.12 gallons per hour by the facility supplied worst-case ink VOC content of 6.46 pounds of VOC per gallon of ink applied.

Should a new worst-case adhesive or ink be employed or an existing one be reformatted in a manner that results in it becoming a new worst-case, the facility shall immediately incorporate its VOC content in the calculation of VOC emissions.

If required, the permittee shall demonstrate compliance with the VOC limitation based on the results of emission testing conducted in accordance with Methods 1-4 and 18 or 25/25A, as appropriate, of 40 CFR Part 60, Appendix A.

The annual emission limitation was developed by multiplying the hourly mass emission limitation by 8760 hours per year, and then dividing by 2000. Therefore, compliance with the annual limitation shall be demonstrated if compliance with the hourly limitation is maintained.

g) Miscellaneous Requirements

- (1) None.

**7. Emissions Unit Group - Precoaters: R001, R002.**

<b>EU ID</b>	<b>Operations, Property and/or Equipment Description</b>
R001	Precoater 1, &#65279;Application of adhesives to hoses and plastic tubing. Consisting of hose reels, adhesive applicators, capstan puller and reel coilers.
R002	Precoater 2, &#65279;Application of adhesives to hoses and plastic tubing. Consisting of hose reels, adhesive applicators, capstan puller and reel coilers.

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	<p>Volatile organic compound (VOC) emissions shall not exceed 2.15 pounds per hour, and 9.42 tons per year.</p> <p>See b)(2)a. below.</p>
b.	OAC rule 3745-31-05(A)(3)(a)(ii), as effective 6/30/2008	<p>TheBATrequirementsunderOACrule3745-31-05(A)(3)donotapplytotheVOClimitationfromthisaircontaminantsourcesincethepotentialtoemitisless than 10 tons per year.</p> <p>See b)(2)b. below.</p>
c.	OAC rule 3745-21-28(A)(1)(a)	Exempt from paragraphs (B) through (G) of this rule provided total actual uncontrolled VOC emissions from all



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		miscellaneous industrial adhesive and sealant application processes at the entire facility are less than 3.0 tons per month per 12-month rolling period.  See d)(1) and e)(4) below.

(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) None.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain the following records for a period of five years from all miscellaneous industrial adhesive and sealant application processes (including emissions from surface preparation and cleanup activities) at this entire facility:
  - 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 (percent 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, 12-month summation of VOC emissions, in tons, before the application of control systems and devices. The rolling, 12-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.

e) Reporting Requirements

- (1) The reports required by this permit may be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal; or they may be mailed as a hard copy to the appropriate district office or local air agency.
- (2) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA District Office or Local Air Agency 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.
- (3) The permittee shall identify in the annual permit evaluation report whether or not any new adhesives were employed in this emissions unit or if any existing adhesives were reformulated that resulted in a higher VOC content.
- (4) The permittee shall notify the Ohio EPA District Office or Local Air Agency within 60 days after the process becomes subject to the requirements of paragraphs (B) through (G) of OAC rule 3745-21-28. The notification shall contain the information required by (G)(1) of this rule.

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 Limitation:

VOC emissions shall not exceed 2.15 pounds per hour, and 9.42 tons per year.

Applicable Compliance Method:

The permittee shall demonstrate compliance with the VOC limitation based upon the following material balance methodology to determine total VOC emissions:

VOC emissions from adhesive application are calculated by multiplying the maximum hose/tubing throughput rate of 1300 feet per hour by the maximum adhesive application rate of 0.000439 pounds of adhesive per feet of hose and then multiply the result by the facility supplied worst-case adhesive VOC content of 0.125 pounds of VOC per pound of adhesive applied.

Should a new worst-case adhesive be employed or an existing one be reformatted in a manner that results in it becoming a new worst-case, the facility shall immediately incorporate its VOC content in the calculation of VOC emissions.

If required, the permittee shall demonstrate compliance with the hourly VOC limitation based on the results of emission testing conducted in accordance with Methods 1-4 and 18 or 25/25A, as appropriate, of 40 CFR Part 60, Appendix A.



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The annual emission limitation was developed by multiplying the hourly mass emission limitation by 8760 hours per year, and then dividing by 2000. Therefore, compliance with the annual limitation shall be ensured if compliance with the hourly limitation is maintained.

g) Miscellaneous Requirements

- (1) None.