



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

8/10/2015

Certified Mail

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

| | |
|-----|------------------------------------|
| 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 |

RE: FINALAIR POLLUTION PERMIT-TO-INSTALL AND OPERATE

Facility ID: 1667060121
 Permit Number: P0119236
 Permit Type: OAC Chapter 3745-31 Modification
 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)375-2480 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
Parker Hannifin Corp., Parflex Division**

| | |
|----------------|----------------------------------|
| Facility ID: | 1667060121 |
| Permit Number: | P0119236 |
| Permit Type: | OAC Chapter 3745-31 Modification |
| Issued: | 8/10/2015 |
| Effective: | 8/10/2015 |
| Expiration: | 1/14/2016 |



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

Table of Contents

| | |
|---|----|
| Authorization | 1 |
| A. Standard Terms and Conditions | 3 |
| 1. What does this permit-to-install and operate ("PTIO") allow me to do?..... | 4 |
| 2. Who is responsible for complying with this permit? | 4 |
| 3. What records must I keep under this permit? | 4 |
| 4. What are my permit fees and when do I pay them?..... | 4 |
| 5. When does my PTIO expire, and when do I need to submit my renewal application? | 4 |
| 6. What happens to this permit if my project is delayed or I do not install or modify my source? | 5 |
| 7. What reports must I submit under this permit? | 5 |
| 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? | 5 |
| 9. What are my obligations when I perform scheduled maintenance on air pollution control equipment? ... | 5 |
| 10. Do I have to report malfunctions of emissions units or air pollution control equipment? If so, how must I report? | 6 |
| 11. Can Ohio EPA or my local air agency inspect the facility where the emission unit(s) is/are located? | 6 |
| 12. What happens if one or more emissions units operated under this permit is/are shut down permanently? | 6 |
| 13. Can I transfer this permit to a new owner or operator?..... | 7 |
| 14. Does compliance with this permit constitute compliance with OAC rule 3745-15-07, "air pollution nuisance"? | 7 |
| 15. What happens if a portion of this permit is determined to be invalid? | 7 |
| B. Facility-Wide Terms and Conditions..... | 8 |
| C. Emissions Unit Terms and Conditions | 10 |
| 1. P001, Plastic Grinder/Aspirator | 11 |
| 2. P006, Process 01..... | 15 |



Final Permit-to-Install and Operate
Parker Hannifin Corp., Parflex Division
Permit Number: P0119236
Facility ID: 1667060121
Effective Date: 8/10/2015

Authorization

Facility ID: 1667060121
Application Number(s): A0053802
Permit Number: P0119236
Permit Description: Chapter 31 modification to increase throughput rate on the plastic reclaim process (P001) and to allow for an additional installation of another extruder on the plasticized nylon air extrusion process (P006).
Permit Type: OAC Chapter 3745-31 Modification
Permit Fee: \$700.00
Issue Date: 8/10/2015
Effective Date: 8/10/2015
Expiration Date: 1/14/2016
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.

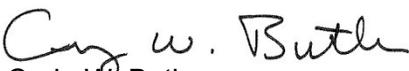
Ohio Environmental Protection Agency (EPA) District Office or local air agency responsible for processing and administering your permit:

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



Final Permit-to-Install and Operate
Parker Hannifin Corp., Parflex Division
Permit Number: P0119236
Facility ID: 1667060121
Effective Date: 8/10/2015

Authorization (continued)

Permit Number: P0119236
Permit Description: Chapter 31 modification to increase throughput rate on the plastic reclaim process (P001) and to allow for an additional installation of another extruder on the plasticized nylon air extrusion process (P006).

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: | P0111434 |
| General Permit Category and Type: | Not Applicable |
| Emissions Unit ID: | P006 |
| Company Equipment ID: | P006 |
| Superseded Permit Number: | P0118214 |
| General Permit Category and Type: | Not Applicable |



Final Permit-to-Install and Operate
Parker Hannifin Corp., Parflex Division
Permit Number: P0119236
Facility ID: 1667060121
Effective Date: 8/10/2015

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
Parker Hannifin Corp., Parflex Division
Permit Number: P0119236
Facility ID: 1667060121
Effective Date: 8/10/2015

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) None.



Final Permit-to-Install and Operate
Parker Hannifin Corp., Parflex Division
Permit Number: P0119236
Facility ID: 1667060121
Effective Date: 8/10/2015

C. Emissions Unit Terms and Conditions

1. P001, Plastic Grinder/Aspirator

Operations, Property and/or Equipment Description:

Plastic Grinder/Aspirator for Plastic Reclamation – Modification to Increase Throughput Rate

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

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 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 and shall include any exceedance of the monthly average 12-month rolling limit(s). It is recommended that the PER is submitted electronically through the Ohio EPA's "e-Business Center: Air Services" although PERs can be submitted via U.S. postal service or can be hand delivered.
- (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. Emissions Limitations:

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.

Applicable Compliance Method:

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. Emission Limitations:

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

Applicable Compliance Methods:

- c. 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

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) – modification to install an additional extruder.

- 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. g)(1).
 - (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 except for g)(1).
- 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) | 5.56 lbs PE/hr, based on a process weight rate of 3152 lbs/hr |
| 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 |



| | Applicable Rules/Requirements | Applicable Emissions Limitations/Control Measures |
|--|-------------------------------|--|
| | | 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 considered 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 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 and shall include any exceedance of the monthly average 12-month rolling limit(s). It is recommended that the PER is submitted electronically through the Ohio EPA's "e-Business Center: Air Services" although PERs can be submitted via U.S. postal service or can be hand delivered.

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. Emissions Limitations:

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 = 1.41 tons PE/year.

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) Modeling to demonstrate compliance with, the “Toxic Air Contaminant Statute”, ORC 3704.03(F)(4)(b), was not necessary because the emissions unit’s maximum annual emissions for each toxic air contaminant, as defined in OAC rule 3745-114-01, will be less than 1.0 ton per year. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified federally enforceable permit to install and operate (FEPTIO) prior to making a “modification” as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any toxic air contaminant to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new FEPTIO.
- (2) **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 |



Final Permit-to-Install and Operate
Parker Hannifin Corp., Parflex Division
Permit Number: P0119236
Facility ID: 1667060121
Effective Date: 8/10/2015

| Extruder Number | SerialNumber | Date ofInstallation |
|-----------------|--------------|---------------------|
| EXTRD-035 | 95502-4-1 | 2015 |
| EXTRD-036 | 95502-1-1 | 2015 |
| EXTRD-037 | 36971-1-1 | 2015 |