



Environmental Protection Agency

John R. Kasich, Governor
Mary Taylor, Lt. Governor
Scott J. Nally, Director

1/14/2011

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

RE: FINAL AIR POLLUTION PERMIT-TO-INSTALL AND OPERATE
Facility ID: 1667060121
Permit Number: P0107403
Permit Type: OAC Chapter 3745-31 Modification
County: Portage

Certified Mail

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

Dear Permit Holder:

Enclosed please find a final 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. Please complete a survey at www.epa.ohio.gov/dapc/permitsurvey.aspx and give us feedback on your permitting experience. We value your opinion.

The issuance of this PTI 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
309 South Fourth Street, Room 222
Columbus, OH 43215

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. This permit can be accessed electronically on the DAPC Web page, www.epa.ohio.gov/dapc, by clicking the "Issued Air Pollution Control Permits" link.

Sincerely,

Michael W. Ahern, Manager

Permit Issuance and Data Management 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:	P0107403
Permit Type:	OAC Chapter 3745-31 Modification
Issued:	1/14/2011
Effective:	1/14/2011
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

Authorization

Facility ID: 1667060121
Application Number(s): A0040929
Permit Number: P0107403
Permit Description: Chapter 31 modifications to add four extruders that were previously listed as "De Minimis".
Permit Type: OAC Chapter 3745-31 Modification
Permit Fee: \$800.00
Issue Date: 1/14/2011
Effective Date: 1/14/2011
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.

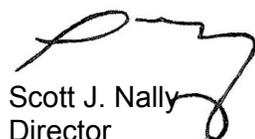
Ohio EPA District Office or local air agency responsible for processing and administering your permit:

Akron Regional Air Quality Management District
146 South High Street, Room 904
Akron, OH 44308
(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


Scott J. Nally
Director



Authorization (continued)

Permit Number: P0107403

Permit Description: Chapter 31 modifications to add four extruders that were previously listed as "De Minimis".

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

Emissions Unit ID:	P006
Company Equipment ID:	P006
Superseded Permit Number:	16-02466
General Permit Category and Type:	Not Applicable

A. Standard Terms and Conditions

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

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

2. Who is responsible for complying with this permit?

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

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

3. What records must I keep under this permit?

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

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

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

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

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

- Annual emissions fee. Ohio EPA will assess a separate fee based on the total annual emissions from your facility. You self-report your emissions in accordance with Ohio Administrative Code (OAC) Chapter 3745-78. This fee assessed is based on a fee schedule in ORC section 3745.11 and funds Ohio EPA's permit compliance oversight activities. Unless otherwise specified, facilities subject to one or more synthetic minor restrictions must use Ohio EPA's "Air Services" to submit annual emissions associated with this permit requirement. 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 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 Akron Regional Air Quality Management District 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 submitting¹ 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 emissions 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.

¹ Permittees that use Ohio EPA's "Air Services" can mark the affected emissions unit(s) as "permanently shutdown" in the facility profile along with the date the emissions unit(s) was permanently removed and/or disabled. Submitting the facility profile update will constitute notifying of the permanent shutdown of the affected emissions unit(s).

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

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

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

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

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

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

B. Facility-Wide Terms and Conditions

1. This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).
 - a) For the purpose of a permit-to-install document, the facility-wide terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (1) None.
 - b) For the purpose of a permit-to-operate document, the facility-wide terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (1) None.

C. Emissions Unit Terms and Conditions



1. P006, P006

Operations, Property and/or Equipment Description:

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

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

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

a. 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. b)(1)d., c)(1), c)(2), d)(1), e)(1), f)(1)f., f)(1)h, f)(1)i., and f)(1)j.

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)	<p>The emissions from extruder J-727 shall not exceed:</p> <p>0.66 pound of volatile organic compounds (VOC)* per hour</p> <p>0.551 pound of particulate emissions (PE) per hour and 2.41 tons of PE per year</p> <p>The emissions from extruder K-326 shall not exceed:</p> <p>0.66 pound of VOC* per hour</p> <p>0.551 pound of PE per hour and 2.41 tons of PE per year</p> <p>The emissions from extruder J-997 shall</p>



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		<p>not exceed:</p> <p>1.31 pounds of VOC* per hour</p> <p>0.817 pound of PE per hour and 3.58 tons of PE per year</p> <p>The emissions from extruder L-810 shall not exceed:</p> <p>0.69 pound of VOC* per hour</p> <p>0.551 pound of PE per hour and 2.41 tons of PE per year</p> <p>The emissions from extruder L-809 shall not exceed:</p> <p>0.09 pound of VOC* per hour</p> <p>0.09 pound of PE per hour and 0.38 ton of PE per year</p> <p>The emissions from extruder EX177 shall not exceed:</p> <p>0.07 pound of VOC* per hour</p> <p>0.07 pound of PE per hour and 0.32 ton of PE per year</p> <p>The emissions from extruder EX244 shall not exceed:</p> <p>0.95 pound of VOC* per hour</p> <p>0.657 pound of PE per hour and 2.88 tons of PE per year</p> <p>The emissions from extruder EXTDR-003 shall not exceed:</p> <p>0.06 pound of VOC* per hour</p> <p>0.06 pound of PE per hour and 0.27 ton of PE per year</p>



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		<p>The emissions from extruder EXTDR-001 shall not exceed:</p> <p>0.07 pound of VOC* per hour</p> <p>0.07 pound of PE per hour and 0.29 ton of PE per year</p> <p>The emissions from extruder EXTDR-017 shall not exceed:</p> <p>1.31 pounds of VOC* per hour</p> <p>0.817 pound of PE per hour and 3.58 tons of PE per year</p> <p>The emissions from extruder EXTDR-005 shall not exceed:</p> <p>0.09 pound of VOC* per hour</p> <p>0.09 pound of PE per hour and 0.38 ton of PE per year</p> <p>The emissions from extruder EXTDR-006 shall not exceed:</p> <p>0.06 pound of VOC* per hour</p> <p>0.06 pound of PE per hour and 0.27 ton of PE per year</p> <p>The emissions from extruder EXTDR-016 shall not exceed:</p> <p>0.08 pound of VOC* per hour</p> <p>0.08 pound of PE per hour and 0.34 ton of PE per year</p> <p>The emissions from extruder EXTDR-007 shall not exceed:</p> <p>0.58 pound of VOC* per hour</p> <p>0.551 pound of PE per hour and 2.41 tons of PE per year</p>



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		<p>The emissions from extruder EXTDR-014 shall not exceed:</p> <p>0.63 pound of VOC* per hour</p> <p>0.551 pound of PE per hour and 2.41 tons of PE per year</p> <p>The emissions from extruder EXTDR-018 shall not exceed:</p> <p>0.09 pound of VOC* per hour</p> <p>0.09 pound of PE per hour and 0.38 ton of PE per year</p> <p>The following extruders shall employ an oil mist/smoke mist filter to control emissions of VOC* and PE: extruder L-809, extruder EX177, extruder EXTDR-003, extruder EXTDR-001, extruder EXTDR-005, extruder EXTDR-006, extruder EXTDR-016, and extruder EXTDR-018.</p> <p>The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A) and OAC rule 3745-31-05(D).</p> <p>*All organic compounds (OC) 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.</p>
b.	OAC rule 3745-31-05(A)(3), as effective 11/30/01	<p>The emissions from extruder EXTDR-010 shall not exceed:</p> <p>0.03 pound of VOC* per hour</p> <p>0.03 pound of PE per hour and 0.13 ton of PE per year</p> <p>The emissions from extruder EXTDR-011 shall not exceed:</p>



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		<p>0.03 pound of VOC* per hour</p> <p>0.03 pound of PE per hour and 0.13 ton of PE per year</p> <p>The emissions from extruder EXTDR-012 shall not exceed:</p> <p>0.03 pound of VOC* per hour</p> <p>0.03 pound of PE per hour and 0.13 ton of PE per year</p> <p>The emissions from extruder EXTDR-013 shall not exceed:</p> <p>0.03 pound of VOC* per hour</p> <p>0.03 pound of PE per hour and 0.13 ton of PE per year</p> <p>The following extruders shall employ an oil mist/smoke mist filter to control emissions of VOC* and PE: extruder EXTDR-010, extruder EXTDR-011, extruder EXTDR-012, and extruder EXTDR-013.</p> <p>The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A) and OAC rule 3745-31-05(D).</p> <p>See b)(2)c. below.</p> <p>*All organic compounds (OC) 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.</p>
c.	OAC rule 3745-31-05(A)(3)(b), as effective 12/01/06	See b)(2)d. below.
d.	OAC rule 3745-31-05(D)	The emissions of VOC* from this emissions unit shall not exceed 16.13

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
	(synthetic minor to avoid Title V, nonattainment NSR and MACT requirements)	<p>tons per year, based upon a rolling, 12-month summation of the monthly emissions.</p> <p>0.0073 pound of VOC* per pound of raw material employed</p> <p>The oil mist/smoke mist filter shall have an overall control efficiency of 94 percent for VOC* emissions.</p> <p>See B.2 below.</p> <p>*All OC 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.</p>
e.	OAC rule 3745-17-07(A)	Visible PE from any stack shall not exceed 20% opacity, as a six-minute average.
f.	OAC rule 3745-17-11(B)	The emission limitation specified by this rule is less stringent than or equivalent to the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
f.	OAC rule 3745-17-11(B)	<p>For extruders EXTDR-010, EXTDR-011, EXTDR-012, and EXTDR-013:</p> <p>0.551 pound of PE per hour for each extruder</p>

(2) Additional Terms and Conditions

- a. The hourly VOC emission limitations and hourly PE limitations are based on each extruder's potential to emit. Therefore, no monitoring, record keeping or reporting is or will be required to demonstrate compliance with these emission limitations. Such requirements would be impractical and unreasonable given the nature of this emissions unit.
- b. For all raw materials usage limitations, monitoring, record keeping, and reporting requirements that deal with raw materials usage in this permit, the total quantity of raw materials used/employed in this emissions unit during any rolling 12-month period is considered to be equivalent to the total quantity of raw materials purchased and received during that rolling 12-month period, except that any

quantity of raw materials that can be shown to have been returned, rejected, or disposed after having been received shall not be considered to have been used.

- c. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to Ohio Administrative Code (OAC) paragraph 3745-31-05(A)(3), as effective November 30, 2001, in this permit. On December 1, 2006, paragraph (A)(3) of OAC rule 3745-31-05 was revised to conform to the Ohio Revised Code (ORC) changes effective August 3, 2006 (Senate Bill 265 changes), such that BAT is no longer required by State regulations for National Ambient Air Quality Standards (NAAQS) pollutant(s) less than ten tons per year. However, that rule revision has not yet been approved by U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-31-05, the requirement to satisfy BAT still exists as part of the federally-approved SIP for Ohio. Once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05, then these emission limitations/control measures no longer apply.
- d. This rule paragraph applies once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the State Implementation Plan.

The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the VOC and particulate emissions from extruders EXTDR-010, EXTDR-011, EXTDR-012, and EXTDR-013 since the uncontrolled potential to emit for VOC and particulates is less than 10 tons per year.

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 materials usage rate for this emissions unit shall not exceed 10,000,000 pounds, based upon a rolling, 12-month summation of the monthly raw materials usage rates. Furthermore, the maximum annual raw materials usage rate for the uncontrolled extruders shall not exceed 4,061,955 pounds, based upon a rolling, 12-month summation of the raw materials usage rates.

[This emissions unit has been in operation for more than 12 months and, as such, the permittee has existing records to generate the rolling, 12-month summation of the total raw materials usage rate and the raw materials usage rate for the uncontrolled extruders upon issuance of this permit.]

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 materials usage* rate, in pounds;
- d. the raw materials usage rate for the uncontrolled extruders**, in pounds;
- e. the rolling, 12-month total raw materials usage rate, in pounds;
- f. the rolling, 12-month raw materials 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 VOC emissions, in tons.

* The total amount of raw materials purchased per rolling 12-month period (excluding any raw materials returned or rejected during that period) is consider to be equal to the amount of raw materials 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) 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. the rolling, 12-month total raw materials usage rate limitation of 10,000,000 pounds;
 - ii. the rolling, 12-month raw materials usage rate limitation of 4,061,955 pounds for the uncontrolled extruders;
 - iii. the rolling, 12-month emission limitation for VOC of 16.13 tons; and
 - iv. the permittee shall not employ any raw material which contains any of the hazardous air pollutants (HAPs) listed in section 112(b) of the Clean Air Act in this emissions unit.
 - b. the probable cause of each deviation (excursion);
 - c. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and
 - d. the magnitude and duration of each deviation (excursion).

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

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

- (2) Annual PER forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.

f) **Testing Requirements**

- (1) Compliance with the emission limitation(s) in b)(1) above shall be determined in accordance with the following method(s):

a. **Emission Limitations:**

0.66 pound of VOC per hour, from extruder J-726

0.66 pound of VOC per hour, from extruder K-326

1.31 pounds of VOC per hour, from extruder J-997

0.69 pound of VOC per hour, from extruder L-810

0.95 pound of VOC per hour, from extruder EX244

1.31 pounds of VOC per hour, from extruder EXTDR-017

0.58 pound of VOC per hour, from extruder EXTDR-007

0.63 pound of VOC per hour, from extruder EXTDR-014

Applicable Compliance Method:

Compliance with the hourly allowable VOC emission limitations above shall be demonstrated by multiplying the VOC emission factor of 0.0073 pound of VOC per pound of raw material employed* by the maximum raw materials usage rate (in pounds).

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

*The VOC emission factor was determined by the supplier of the raw material through testing.

b. Emission Limitations:

0.09 pound of VOC per hour, from extruder L-809

0.07 pound of VOC per hour, from extruder EX177

0.06 pound of VOC per hour, from extruder EXTDR-003

0.07 pound of VOC per hour, from extruder EXTDR-001

0.09 pound of VOC per hour, from extruder EXTDR-005

0.06 pound of VOC per hour, from extruder EXTDR-006

0.08 pound of VOC per hour, from extruder EXTDR-016

0.09 pound of VOC per hour, from extruder EXTDR-018

0.03 pound of VOC per hour, from extruder EXTDR-010

0.03 pound of VOC per hour, from extruder EXTDR-011

0.03 pound of VOC per hour, from extruder EXTDR-012

0.03 pound of VOC per hour, from extruder EXTDR-013

Applicable Compliance Method:

Compliance with the hourly allowable VOC emission limitations above shall be demonstrated by multiplying the VOC emission factor of 0.0073 pound of VOC per pound of raw material employed* by the maximum raw materials usage rate (in pounds) times (1-0.94**).

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

*The VOC emission factor was determined by the supplier of the raw material through testing.

**The overall control efficiency for the oil mist/smoke mist filter is assumed to be 94%, by weight.

c. Emission Limitations:

0.09 pound of PE per hour, from extruder L-809

0.07 pound of PE per hour, from extruder EX177

0.06 pound of PE per hour, from extruder EXTDR-003
0.07 pound of PE per hour, from extruder EXTDR-001
0.09 pound of PE per hour, from extruder EXTDR-005
0.06 pound of PE per hour, from extruder EXTDR-006
0.08 pound of PE per hour, from extruder EXTDR-016
0.09 pound of PE per hour, from extruder EXTDR-018
0.03 pound of PE per hour, from extruder EXTDR-010
0.03 pound of PE per hour, from extruder EXTDR-011
0.03 pound of PE per hour, from extruder EXTDR-012
0.03 pound of PE per hour, from extruder EXTDR-013

Applicable Compliance Method:

Compliance with the hourly allowable PE limitations above shall be demonstrated by multiplying the PE factor of 0.0073 pound of PE per pound of raw material employed* by the maximum raw materials usage rate (in pounds) times (1-0.94**).

If required and technically feasible, compliance with the hourly allowable PE limitations above shall be determined by using the test method(s) and procedures in Methods 1-5 of 40 CFR Part 60, Appendix A.

*The PE factor was determined by the supplier of the raw material through testing.

**The overall control efficiency for the oil mist/smoke mist filter is assumed to be 94%.

d. Emission Limitations:

0.551 pound of PE per hour, from extruder J-727
0.551 pound of PE per hour, from extruder K-326
0.817 pound of PE per hour, from extruder J-997
0.551 pound of PE per hour, from extruder L-810
0.657 pound of PE per hour, from extruder EX244
0.817 pound of PE per hour, from extruder EXTDR-017
0.551 pound of PE per hour, from extruder EXTDR-007

0.551 pound of PE per hour, from extruder EXTDR-014

0.551 pound of PE per hour, from extruder EXTDR-010

0.551 pound of PE per hour, from extruder EXTDR-011

0.551 pound of PE per hour, from extruder EXTDR-012

0.551 pound of PE per hour, from extruder EXTDR-013

Applicable Compliance Method:

If required and technically feasible, compliance with the hourly allowable PE limitations above shall be determined by using the test method(s) and procedures in Methods 1-5 of 40 CFR Part 60, Appendix A.

e. Emission Limitations:

2.41 tons of PE per year, from extruder J-727

2.41 tons of PE per year, from extruder K-326

3.58 tons of PE per year, from extruder J-997

2.41 tons of PE per year, from extruder L-810

0.38 ton of PE per year, from extruder L-809

0.32 ton of PE per year, from extruder EX177

2.88 tons of PE per year, from extruder EX244

0.27 ton of PE per year, from extruder EXTDR-003

0.29 ton of PE per year, from extruder EXTDR-001

3.58 tons of PE per year, from extruder EXTDR-017

0.38 ton of PE per year, from extruder EXTDR-005

0.27 ton of PE per year, from extruder EXTDR-006

0.34 ton of PE per year, from extruder EXTDR-016

2.41 tons of PE per year, from extruder EXTDR-007

2.41 tons of PE per year, from extruder EXTDR-014

0.38 ton of PE per year, from extruder EXTDR-018

0.13 ton of PE per year, from extruder EXTDR-010

0.13 ton of PE per year, from extruder EXTDR-011

0.13 ton of PE per year, from extruder EXTDR-012

0.13 ton of PE per year, from extruder EXTDR-013

Applicable Compliance Method:

The annual allowable PE limitations above were determined by multiplying the hourly allowable PE limitations by 8760 hours per year, and then dividing by 2000. Therefore, as long as compliance with the hourly allowable emission limitations is maintained, compliance with the annual allowable emission limitations shall be assumed.

f. Emission Limitation:

The emissions of VOC from this emissions unit shall not exceed 16.13 tons per year, based upon a rolling, 12-month summation of the monthly emissions.

Applicable Compliance Method:

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

g. Emission Limitation:

Visible PE from any stack shall not exceed 20% opacity, as a six-minute average.

Applicable Compliance Method:

Compliance with the visible PE limitation for any stack from the emissions unit shall be determined in accordance with the test method and procedures specified in OAC rule 3745-17-07(B)(1).

h. Emission Limitation:

0.0073 pound of VOC per pound of raw material employed (worst-case resin)

Applicable Compliance Method:

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

i. Emission Limitation:

The oil mist/smoke mist filter shall have an overall control efficiency of 94 percent, by weight, for VOC emissions.

Applicable Compliance Method:

If required and technically feasible, the permittee shall demonstrate compliance with the allowable VOC overall control efficiency limitation based on the results of emission testing conducted in accordance with Methods 18, 25, or 25A, as appropriate, of 40 CFR Part 60, Appendix A for control efficiency and Methods 204 through 204F, as specified in 40 CFR Part 51, Appendix M for capture efficiency. The permittee may request to use an alternative method or procedure for the determination of capture efficiency in accordance with the USEPA's "Guidelines for Determining Capture Efficiency," dated January 9, 1995.

j. Usage Limitation:

The maximum annual total raw materials usage for this emissions unit shall not exceed 10,000,000 pounds, based upon a rolling, 12-month summation of the monthly raw materials usage rates. Furthermore, the maximum annual raw materials usage for the uncontrolled extruders shall not exceed 4,061,955 pounds, based upon a rolling, 12-month summation of the raw materials usage rates.

Applicable Compliance Method:

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

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