



Environmental
Protection Agency

Ted Strickland, Governor
Lee Fisher, Lt. Governor
Chris Korleski, Director

12/8/2010

Michael McCormick
Flow Polymers
12819 Coit Rd
Cleveland, OH 44108

RE: FINAL AIR POLLUTION PERMIT-TO-INSTALL AND OPERATE

Facility ID: 1318008746
Permit Number: P0106815
Permit Type: Initial Installation
County: Cuyahoga

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
No	SYNTHETIC MINOR TO AVOID TITLE V
No	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 Kevin Boyce," 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 Cleveland Division of Air Quality at (216)664-2297 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: CDAQ



FINAL

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

Facility ID: 1318008746
Permit Number: P0106815
Permit Type: Initial Installation
Issued: 12/8/2010
Effective: 12/8/2010
Expiration: 12/8/2020



Division of Air Pollution Control
Permit-to-Install and Operate
for
Flow Polymers

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Authorization

Facility ID: 1318008746

Application Number(s): A0040064

Permit Number: P0106815

Permit Description: New Installation of 9 emissions units under permit P0106815. Flow Polymers is a manufacturer of chemical dispersions. The installation consists of roll mixer lines. P006-P009 are identical EU's.

Permit Type: Initial Installation

Permit Fee: \$2,700.00

Issue Date: 12/8/2010

Effective Date: 12/8/2010

Expiration Date: 12/8/2020

Permit Evaluation Report (PER) Annual Date: Oct 1 - Sept 30, Due Nov 15

This document constitutes issuance to:

Flow Polymers
17000 St Clair Ave
Building 3
Cleveland, OH 44110

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:

Cleveland Division of Air Quality
2nd Floor
75 Erieview Plaza
Cleveland, OH 44114
(216)664-2297

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



Chris Korleski
Director



Authorization (continued)

Permit Number: P0106815
Permit Description: New Installation of 9 emissions units under permit P0106815. Flow Polymers is a manufacturer of chemical dispersions. The installation consists of roll mixer lines. P006-P009 are identical EU's.

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: MAP Mixer
Superseded Permit Number:
General Permit Category and Type: Not Applicable
- Emissions Unit ID: P002**
Company Equipment ID: Tilt Body Mixing (TBM) with Extruder
Superseded Permit Number:
General Permit Category and Type: Not Applicable
- Emissions Unit ID: P003**
Company Equipment ID: Tilt Body Mixing (TBM) with 2-Roll Mill
Superseded Permit Number:
General Permit Category and Type: Not Applicable
- Emissions Unit ID: P004**
Company Equipment ID: CaO mixer (Littleford Mixer)
Superseded Permit Number:
General Permit Category and Type: Not Applicable
- Emissions Unit ID: P005**
Company Equipment ID: New Sigma Mixer with 2-Roll Mill
Superseded Permit Number:
General Permit Category and Type: Not Applicable

Group Name: Ross Mixer

Emissions Unit ID: P006	Company Equipment ID: Ross Mixer 2 with 3-Roll Process Line
	Superseded Permit Number:
	General Permit Category and Type: Not Applicable
Emissions Unit ID: P007	Company Equipment ID: Ross Mixer 1 with 3-Roll Process Line
	Superseded Permit Number:
	General Permit Category and Type: Not Applicable
Emissions Unit ID: P008	Company Equipment ID: Ross Mixer 3 with 3-Roll Process Line
	Superseded Permit Number:
	General Permit Category and Type: Not Applicable
Emissions Unit ID: P009	Company Equipment ID: Ross Mixer 4 with 3-Roll Process Line
	Superseded Permit Number:
	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 Cleveland Division of Air Quality 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.

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

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).

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

Final Permit-to-Install and Operate

Flow Polymers

Permit Number: P0106815

Facility ID: 1318008746

Effective Date: 12/8/2010

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. P001, MAP Mixer

Operations, Property and/or Equipment Description:

MAP Mixer

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 11/30/01	Particulate Matter emissions (PM) shall not exceed 0.0278 lb/hr and 0.12 tons per year (TPY) Volatile Organic Compound emissions (VOC) shall not exceed 0.32 lb/hour and 1.41 tons per year (TPY) See b)(2)a.
b.	OAC rule 3745-31-05(A)(3)(a)(ii), as effective 12/1/06	See b)(2)b.
c.	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack serving this emissions unit shall not exceed 20% opacity as a six-minute average.
d.	OAC rule 3745-17-07(B)(1)	Visible emissions of fugitive dust shall not exceed 20% opacity as a three-minute average.
e.	OAC rule 3745-17-08(B)	See b)(2)c. - f.
f.	OAC rule 3745-17-11(B)	PE shall not exceed 3.38 lbs/hr

(2) Additional Terms and Conditions

a. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to 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 ORC changes effective August 3, 2006 (S.B. 265 changes), such that BAT is no longer required by State regulations for NAAQS pollutant 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 3745-31-05, then these emission limits/control measures no longer apply.

b. 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 or PM emissions from this air contaminant source since the uncontrolled potential to emit for VOC and PM emissions is less than 10 tons per year.

c. The material handling operation(s) that are covered by this permit and subject to the following requirements are listed below:

- i. loading hopper;
- ii. transfer to mixer; and
- iii. transfer to bulk container.

d. The permittee shall employ reasonably available control measures for the above-identified material handling operation(s) for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to perform the following control measure(s) to ensure compliance by committing to reduce the polymer unloading velocity at such stations in order to reduce fugitive emissions. Other activities include but are not limited to the cleanup of dust material at the surrounding process areas to assure compliance with these requirements.

Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

e. For each material handling operation that is not adequately enclosed, the above-identified control measure(s) shall be implemented if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) is (are) necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during the operation of the material

handling operation(s) until further observation confirms that use of the control measure(s) is unnecessary.

- f. Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-17-08(B).

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping Requirements

- (1) For each material processing and handling operation that is not adequately enclosed, the permittee shall perform inspections of such material processing and handling operations in accordance with the following minimum frequencies in order to determine if control measures need to be implemented:

<u>Material Handling Operation(s)</u>	<u>Minimum Inspection Frequency</u>
All Operations	Once During Each Day of Operation

Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance. The inspections shall be performed during representative, normal operating conditions.

- (2) The permittee shall perform daily checks, when the emissions unit is in operation and when weather conditions allow, for any visible particulate emissions from the stacks serving the baghouse associated with this emissions unit. The presence or absence of any visible emissions from the stack shall be noted in an operations log. If visible emissions from the stack 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 emission 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.

- (3) The permittee may, upon receipt of written approval from the Cleveland Division of Air Quality (DAQ), modify the above-mentioned inspection frequencies in d)(1) and d)(2) if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
- (4) The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed, including those inspections that were not performed due to process and operations shutdown;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
 - c. the dates the control measures were implemented; and
 - d. on a calendar quarter basis, the total number of weeks the control measures were implemented and the total number of weeks when inspections were not performed due to process and operations shutdown.

e) Reporting Requirements

- (1) Annual Permit Evaluation Report (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.
- (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. each day during which an inspection was not performed by the required frequency;
 - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented; and
 - c. all days during which any visible particulate emissions were observed from the stack serving this emission unit.

f) Testing Requirements

- (1) Compliance with the emissions limitation(s) in Section b)(1) of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation:
0.0278 lb/hr PM

Applicable Compliance Method:

Compliance with the hourly emission limitations shall be determined by multiplying the emission factor of 9.25E-04 lb PM/lbs rubber (taken from AP-42 emission factors from Chapter 4 Section 4.12 – Manufacture of Rubber Products, compound #5) by the hourly throughput in (lbs) by a control efficiency of (1- .98).

- b. Emission Limitation:
0.12 TPY PM

Applicable Compliance Method:

Compliance with the annual emission limitation shall be determined by multiplying the emission factor of 9.25E-04 lb PM/lbs rubber by the annual throughput (in lbs) and dividing by 2,000 lbs.

- c. Emission Limitation:
0.32 lb/hr VOC

Applicable Compliance Method:

Compliance with the hourly emission limitations shall be determined by multiplying the emission factor of 2.15E-04 lb VOC/lbs rubber (taken from AP-42 emission factors from Chapter 4 Section 4.12 – Manufacture of Rubber Products, compound #5) by the hourly throughput in (lbs).

- d. Emission Limitation:
1.41 TPY VOC

Applicable Compliance Method:

Compliance with the annual emission limitation shall be determined by multiplying the emission factor of 2.15E-04 lb VOC/lbs rubber by the annual throughput (in lbs) and dividing by 2,000 lbs.

- e. Emission Limitation:
Visible particulate emissions from any stack serving this emissions unit shall not exceed 20% opacity, as a six-minute average.

Applicable Compliance Method:

If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

- f. Emission Limitation:
Visible emissions of fugitive dust shall not exceed 20% opacity, as a three-minute average.

Applicable Compliance Method:

If required, compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).

- g. Emission Limitation:
3.38 lbs/hr PE

Final Permit-to-Install and Operate

Flow Polymers

Permit Number: P0106815

Facility ID: 1318008746

Effective Date: 12/8/2010

Applicable Compliance Method:

If required, compliance with the lb/hr limitation shall be demonstrated through emissions tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-5.

g) Miscellaneous Requirements

(1) None.

2. P002, Tilt Body Mixing (TBM) with Extruder

Operations, Property and/or Equipment Description:

Tilt Body Mixing (TBM) with 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. 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 11/30/01	Particulate Matter emissions (PM) shall not exceed 0.0185 lb/hr and 0.08 tons per year (TPY). Volatile Organic Compound emissions (VOC) shall not exceed 0.23 lb/hour and 0.98 tons per year (TPY). See b)(2)a.
b.	OAC rule 3745-31-05(A)(3)(a)(ii), as effective 12/1/06	See b)(2)b.
c.	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack serving this emissions unit shall not exceed 20% opacity as a six-minute average.
d.	OAC rule 3745-17-07(B)(1)	Visible emissions of fugitive dust shall not exceed 20% opacity as a three-minute average.
e.	OAC rule 3745-17-08(B)	See b)(2)c. – f.
f.	OAC rule 3745-17-11(B)	PE shall not exceed 2.58 lbs/hr.

(2) Additional Terms and Conditions

a. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to 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 ORC changes effective August 3, 2006 (S.B. 265 changes), such that BAT is no longer required by State regulations for NAAQS pollutant 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 3745-31-05, then these emission limits/control measures no longer apply.

b. 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 or PM emissions from this air contaminant source since the uncontrolled potential to emit for VOC and PM emissions is less than 10 tons per year.

c. The material handling operation(s) that are covered by this permit and subject to the following requirements are listed below:

- i. loading mixer;
- ii. transfer to hopper;
- iii. transfer to extruder with talc added; and
- iv. product packaging.

d. The permittee shall employ reasonably available control measures for the above-identified material handling operation(s) for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to perform the following control measure(s) to ensure compliance by committing to reduce the polymer unloading velocity at such stations in order to reduce fugitive emissions. Other activities include but are not limited to the cleanup of dust material at the surrounding process areas to assure compliance with these requirements.

Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

e. For each material handling operation that is not adequately enclosed, the above-identified control measure(s) shall be implemented if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) is (are) necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of

the control measure(s) shall continue during the operation of the material handling operation(s) until further observation confirms that use of the control measure(s) is unnecessary.

- f. Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-17-08(B).

c) Operational Restrictions

- (1) The pressure drop across the baghouse shall be maintained within the range of 2.0 and 6.0 inches of water, or otherwise in accordance to the manufacturer's recommendation, while the emissions unit is in operation.

d) Monitoring and/or Recordkeeping Requirements

- (1) For each material processing and handling operation that is not adequately enclosed, the permittee shall perform inspections of such material processing and handling operations in accordance with the following minimum frequencies in order to determine if control measures need to be implemented:

<u>Material Handling Operation(s)</u>	<u>Minimum Inspection Frequency</u>
All Operations	Once During Each Day of Operation

Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance. The inspections shall be performed during representative, normal operating conditions.

- (2) The permittee shall perform daily checks, when the emissions unit is in operation and when weather conditions allow, for any visible particulate emissions from the stacks serving the baghouse associated with this emissions unit. The presence or absence of any visible emissions from the stack shall be noted in an operations log. If visible emissions from the stack 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 emission 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.

- (3) The permittee may, upon receipt of written approval from the Cleveland Division of Air Quality (DAQ), modify the above-mentioned inspection frequencies in d)(1) and d)(2) if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
- (4) The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed, including those inspections that were not performed due to process and operations shutdown;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
 - c. the dates the control measures were implemented; and
 - d. on a calendar quarter basis, the total number of weeks the control measures were implemented and the total number of weeks when inspections were not performed due to process and operations shutdown.

e) Reporting Requirements

- (1) Annual Permit Evaluation Report (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.
- (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. each day during which an inspection was not performed by the required frequency;
 - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented; and
 - c. all days during which any visible particulate emissions were observed from the stack serving this emission unit.

f) Testing Requirements

- (1) Compliance with the emissions limitation(s) in Section b)(1) of these terms and conditions shall be determined in accordance with the following method(s):

- a. Emission Limitation:
0.0185 lb/hr PM

Applicable Compliance Method:

Compliance with the hourly emission limitations shall be determined by multiplying the emission factor of 9.25E-04 lb PM/lbs rubber (taken from AP-42 emission factors from Chapter 4 Section 4.12 – Manufacture of Rubber Products, compound #5) by the hourly throughput in (lbs) by a control efficiency of (1- .98).

- b. Emission Limitation:
0.08 TPY PM

Applicable Compliance Method:

Compliance with the annual emission limitation shall be determined by multiplying the emission factor of 9.25E-04 lb PM/lbs rubber by the annual throughput (in lbs) and dividing by 2,000 lbs.

- c. Emission Limitation:
0.23 lb/hr VOC

Applicable Compliance Method:

Compliance with the hourly emission limitations shall be determined by summing the mixing and extruding emissions. For mixing, multiply the emission factor of 2.15E-04 lb VOC/lbs rubber for compound #5 by the hourly throughput (in lbs). For extrusion, multiply the emission factor of 8.30E-06 lb VOC/lbs rubber for compound #22 by the hourly throughput (in lbs). (Both emission factors taken from AP-42, Chapter 4 Section 4.12 – Manufacture of Rubber Products)

- d. Emission Limitation:
0.98 TPY VOC

Applicable Compliance Method:

Compliance with the annual emission limitation shall be determined by summing the mixing and extruding emissions. For mixing, multiply the emission factor of 2.15E-04 lb VOC/lbs rubber by the annual throughput (in lbs) and dividing by 2,000 lbs. For extrusion, multiply the emission factor of 8.30E-06 lb VOC/lbs rubber by the annual throughput (in lbs) and divide by 2,000 lbs.

- e. Emission Limitation:

Visible particulate emissions from any stack serving this emissions unit shall not exceed 20% opacity, as a six-minute average.

Applicable Compliance Method:

If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

- f. Emission Limitation:

Visible emissions of fugitive dust shall not exceed 20% opacity, as a three-minute average.

Applicable Compliance Method:

If required, compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).

- g. Emission Limitation:
2.58 lbs/hr PE

Applicable Compliance Method:

If required, compliance with the lb/hr limitation shall be demonstrated through emissions tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-5.

- g) Miscellaneous Requirements

- (1) None.

3. P003, Tilt Body Mixing (TBM) with 2-Roll Mill

Operations, Property and/or Equipment Description:

Tilt Body Mixing (TBM) with 2-Roll Mill

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 11/30/01	Particulate Matter emissions (PM) shall not exceed 0.0185 lb/hr and 0.08 tons per year (TPY) Volatile Organic Compound emissions (VOC) shall not exceed 0.33 lb/hour and 1.43 tons per year (TPY). See b)(2)a.
b.	OAC rule 3745-31-05(A)(3)(a)(ii), as effective 12/1/06	See b)(2)b.
c.	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack serving this emissions unit shall not exceed 20% opacity as a six-minute average.
d.	OAC rule 3745-17-07(B)(1)	Visible emissions of fugitive dust shall not exceed 20% opacity as a three-minute average.
e.	OAC rule 3745-17-08(B)	See b)(2)c. – f.
f.	OAC rule 3745-17-11(B)	PE shall not exceed 2.58 lbs/hr.

(2) Additional Terms and Conditions

a. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to 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 ORC changes effective August 3, 2006 (S.B. 265 changes), such that BAT is no longer required by State regulations for NAAQS pollutant 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 3745-31-05, then these emission limits/control measures no longer apply.

b. 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 or PM emissions from this air contaminant source since the uncontrolled potential to emit for VOC and PM emissions is less than 10 tons per year.

c. The material handling operation(s) that are covered by this permit and subject to the following requirements are listed below:

- i. loading mixer;
- ii. transfer to 2-roll mill with talc added; and
- iii. packaging.

d. The permittee shall employ reasonably available control measures for the above-identified material handling operation(s) for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to perform the following control measure(s) to ensure compliance by committing to reduce the polymer unloading velocity at such stations in order to reduce fugitive emissions. Other activities include but are not limited to the cleanup of dust material at the surrounding process areas to assure compliance with these requirements.

Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

e. For each material handling operation that is not adequately enclosed, the above-identified control measure(s) shall be implemented if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) is (are) necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during the operation of the material

handling operation(s) until further observation confirms that use of the control measure(s) is unnecessary.

- f. Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-17-08(B).

c) Operational Restrictions

- (1) The pressure drop across the baghouse shall be maintained within the range of 2.0 and 6.0 inches of water, or otherwise in accordance to the manufacturer's recommendation, while the emissions unit is in operation.

d) Monitoring and/or Recordkeeping Requirements

- (1) For each material processing and handling operation that is not adequately enclosed, the permittee shall perform inspections of such material processing and handling operations in accordance with the following minimum frequencies in order to determine if control measures need to be implemented:

<u>Material Handling Operation(s)</u>	<u>Minimum Inspection Frequency</u>
All Operations	Once During Each Day of Operation

Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance. The inspections shall be performed during representative, normal operating conditions.

- (2) The permittee shall perform daily checks, when the emissions unit is in operation and when weather conditions allow, for any visible particulate emissions from the stacks serving the baghouse associated with this emissions unit. The presence or absence of any visible emissions from the stack shall be noted in an operations log. If visible emissions from the stack 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 emission 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.

- (3) The permittee may, upon receipt of written approval from the Cleveland Division of Air Quality (DAQ), modify the above-mentioned inspection frequencies in d)(1) and d)(2) if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
- (4) The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed, including those inspections that were not performed due to process and operations shutdown;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
 - c. the dates the control measures were implemented; and
 - d. on a calendar quarter basis, the total number of weeks the control measures were implemented and the total number of weeks when inspections were not performed due to process and operations shutdown.

e) Reporting Requirements

- (1) Annual Permit Evaluation Report (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.
- (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. each day during which an inspection was not performed by the required frequency;
 - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented; and
 - c. all days during which any visible particulate emissions were observed from the stack serving this emission unit.

f) Testing Requirements

- (1) Compliance with the emissions limitation(s) in Section b)(1) of these terms and conditions shall be determined in accordance with the following method(s):

- a. Emission Limitation:
0.0185 lb/hr PM

Applicable Compliance Method:

Compliance with the hourly emission limitations shall be determined by multiplying the emission factor of 9.25E-04 lb PM/lbs rubber (taken from AP-42 emission factors from Chapter 4 Section 4.12 – Manufacture of Rubber Products, compound #5) by the hourly throughput in (lbs) by a control efficiency of (1- .98).

- b. Emission Limitation:
0.08 TPY PM

Applicable Compliance Method:

Compliance with the annual emission limitation shall be determined by multiplying the emission factor of 9.25E-04 lb PM/lbs rubber by the annual throughput (in lbs) and dividing by 2,000 lbs.

- c. Emission Limitation:
0.33 lb/hr VOC

Applicable Compliance Method:

Compliance with the hourly emission limitations shall be determined by summing the mixing and milling emissions. For mixing, multiply the emission factor of 2.15E-04 lb VOC/lbs rubber for compound #5 by the hourly throughput (in lbs). For milling, multiply the emission factor of 1.13E-04 lb VOC/lbs rubber for compound #3 by the hourly throughput (in lbs). (Both emission factors taken from AP-42, Chapter 4 Section 4.12 – Manufacture of Rubber Products)

- d. Emission Limitation:
1.43 TPY VOC

Applicable Compliance Method:

Compliance with the annual emission limitation shall be determined by summing the mixing and milling emissions. For mixing, multiply the emission factor of 2.15E-04 lb VOC/lbs rubber by the annual throughput (in lbs) and dividing by 2,000 lbs. For milling, multiply the emission factor of 1.13E-04 lb VOC/lbs rubber by the annual throughput (in lbs) and divide by 2,000 lbs.

- e. Emission Limitation:

Visible particulate emissions from any stack serving this emissions unit shall not exceed 20% percent opacity, as a six-minute average.

Applicable Compliance Method:

If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

- f. Emission Limitation:

Visible emissions of fugitive dust shall not exceed 20% opacity, as a three-minute average.

Applicable Compliance Method:

If required, compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).

- g. Emission Limitation:
2.58 lbs/hr PE

Applicable Compliance Method:

If required, compliance with the lb/hr limitation shall be demonstrated through emissions tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-5.

- g) Miscellaneous Requirements

- (1) None.

4. P004, CaO mixer (Littleford Mixer)

Operations, Property and/or Equipment Description:

CaO mixer (Littleford Mixer)

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 11/30/01	Particulate Matter emissions (PM) shall not exceed 1.39 lbs/hr and 6.08 tons per year (TPY) Volatile Organic Compound emissions (VOC) shall not exceed 0.32 lb/hour and 1.41 tons per year (TPY) See b)(2)a.
b.	OAC rule 3745-31-05(A)(3)(a)(ii), as effective 12/1/06	See b)(2)b.
c.	OAC rule 3745-17-07(B)(1)	Visible emissions of fugitive dust shall not exceed 20% opacity as a three-minute average.
d.	OAC rule 3745-17-08(B)	See b)(2)c. – f.

(2) Additional Terms and Conditions

a. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to 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 ORC changes effective August 3, 2006 (S.B. 265 changes), such that BAT is no longer required by State regulations for NAAQS pollutant 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 3745-31-05, then these emission limits/control measures no longer apply.

b. 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 or PM emissions from this air contaminant source since the uncontrolled potential to emit for VOC and PM emissions is less than 10 tons per year.

c. The material handling operation(s) that are covered by this permit and subject to the following requirements are listed below:

- i. loading hopper;
- ii. transfer to mixer; and
- iii. transfer to packaging.

d. The permittee shall employ reasonably available control measures for the above-identified material handling operation(s) for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to perform the following control measure(s) to ensure compliance by committing to reduce the polymer unloading velocity at such stations in order to reduce fugitive emissions. Other activities include but are not limited to the cleanup of dust material at the surrounding process areas to assure compliance with these requirements.

Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

e. For each material handling operation that is not adequately enclosed, the above-identified control measure(s) shall be implemented if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) is (are) necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during the operation of the material

handling operation(s) until further observation confirms that use of the control measure(s) is unnecessary.

- f. Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-17-08(B).

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping Requirements

- (1) For each material processing and handling operation that is not adequately enclosed, the permittee shall perform inspections of such material processing and handling operations in accordance with the following minimum frequencies in order to determine if control measures need to be implemented:

<u>Material Handling Operation(s)</u>	<u>Minimum Inspection Frequency</u>
All Operations	Once During Each Day of Operation

Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance. The inspections shall be performed during representative, normal operating conditions.

- (2) The permittee may, upon receipt of written approval from the Cleveland Division of Air Quality (DAQ), modify the above-mentioned inspection frequencies in d)(1) if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
- (3) The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed, including those inspections that were not performed due to process and operations shutdown;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
 - c. the dates the control measures were implemented; and
 - d. on a calendar quarter basis, the total number of weeks the control measures were implemented and the total number of weeks when inspections were not performed due to process and operations shutdown.

e) Reporting Requirements

- (1) Annual Permit Evaluation Report (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.

- (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. each day during which an inspection was not performed by the required frequency; and
 - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.

f) Testing Requirements

- (1) Compliance with the emissions limitation(s) Section in b)(1) of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation:
1.39 lbs/hr PM

Applicable Compliance Method:
Compliance with the hourly emission limitations shall be determined by multiplying the emission factor of 9.25E-04 lb PM/lbs rubber (taken from AP-42 emission factors from Chapter 4 Section 4.12 – Manufacture of Rubber Products, compound #5) by the hourly throughput in (lbs).
 - b. Emission Limitation:
6.08 TPY PM

Applicable Compliance Method:
Compliance with the annual emission limitation shall be determined by multiplying the emission factor of 9.25E-04 lb PM/lbs rubber by the annual throughput (in lbs) and dividing by 2,000 lbs.
 - c. Emission Limitation:
0.32 lb/hr VOC

Applicable Compliance Method:
Compliance with the hourly emission limitations shall be determined by multiplying the emission factor of 2.15E-04 lb VOC/lbs rubber (taken from AP-42 emission factors from Chapter 4 Section 4.12 – Manufacture of Rubber Products, compound #5) by the hourly throughput in (lbs).
 - d. Emission Limitation:
1.41 TPY VOC

Applicable Compliance Method:
Compliance with the annual emission limitation shall be determined by multiplying the emission factor of 2.15E-04 lb VOC/lbs rubber by the annual throughput (in lbs) and dividing by 2,000 lbs.

Final Permit-to-Install and Operate

Flow Polymers

Permit Number: P0106815

Facility ID: 1318008746

Effective Date: 12/8/2010

- e. Emission Limitation:
Visible emissions of fugitive dust shall not exceed 20% opacity, as a three-minute average.

Applicable Compliance Method:

If required, compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).

g) Miscellaneous Requirements

- (1) None.

5. P005, New Sigma Mixer with 2-Roll Mill

Operations, Property and/or Equipment Description:

New Sigma Mixer with 2-Roll Mill

- 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 11/30/01	Particulate Matter emissions (PM) shall not exceed 1.39 lbs/hr and 6.08 tons per year (TPY) Volatile Organic Compound emissions (VOC) shall not exceed 0.49 lb/hour and 2.15 tons per year (TPY) See b)(2)a.
b.	OAC rule 3745-31-05(A)(3)(a)(ii), as effective 12/1/06	See b)(2)b.
c.	OAC rule 3745-17-07(B)(1)	Visible emissions of fugitive dust shall not exceed 20% opacity as a three-minute average.
d.	OAC rule 3745-17-08(B)	See b)(2)c. – f.

(2) Additional Terms and Conditions

a. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to 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 ORC changes effective August 3, 2006 (S.B. 265 changes), such that BAT is no longer required by State regulations for NAAQS pollutant 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 3745-31-05, then these emission limits/control measures no longer apply.

b. 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 or PM emissions from this air contaminant source since the uncontrolled potential to emit for VOC and PM emissions is less than 10 tons per year.

c. The material handling operation(s) that are covered by this permit and subject to the following requirements are listed below:

- i. loading mixer;
- ii. transfer to 2-roll mill with talc added; and
- iii. packaging.

d. The permittee shall employ reasonably available control measures for the above-identified material handling operation(s) for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to perform the following control measure(s) to ensure compliance by committing to reduce the polymer unloading velocity at such stations in order to reduce fugitive emissions. Other activities include but are not limited to the cleanup of dust material at the surrounding process areas to assure compliance with these requirements.

Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

e. For each material handling operation that is not adequately enclosed, the above-identified control measure(s) shall be implemented if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) is (are) necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during the operation of the material

handling operation(s) until further observation confirms that use of the control measure(s) is unnecessary.

- f. Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-17-08(B).

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping Requirements

- (1) For each material processing and handling operation that is not adequately enclosed, the permittee shall perform inspections of such material processing and handling operations in accordance with the following minimum frequencies in order to determine if control measures need to be implemented:

<u>Material Handling Operation(s)</u>	<u>Minimum Inspection Frequency</u>
All Operations	Once During Each Day of Operation

Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance. The inspections shall be performed during representative, normal operating conditions.

- (2) The permittee may, upon receipt of written approval from the Cleveland Division of Air Quality (DAQ), modify the above-mentioned inspection frequencies in d)(1) if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
- (3) The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed, including those inspections that were not performed due to process and operations shutdown;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
 - c. the dates the control measures were implemented; and
 - d. on a calendar quarter basis, the total number of weeks the control measures were implemented and the total number of weeks when inspections were not performed due to process and operations shutdown.

e) Reporting Requirements

- (1) Annual Permit Evaluation Report (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.

(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. each day during which an inspection was not performed by the required frequency; and
- b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.

f) Testing Requirements

(1) Compliance with the emissions limitation(s) Section in b)(1) of these terms and conditions shall be determined in accordance with the following method(s):

- a. Emission Limitation:
1.39 lbs/hr PM

Applicable Compliance Method:

Compliance with the hourly emission limitations shall be determined by multiplying the emission factor of 9.25E-04 lb PM/lbs rubber (taken from AP-42 emission factors from Chapter 4 Section 4.12 – Manufacture of Rubber Products, compound #5) by the hourly throughput in (lbs).

- b. Emission Limitation:
6.08 TPY PM

Applicable Compliance Method:

Compliance with the annual emission limitation shall be determined by multiplying the emission factor of 9.25E-04 lb PM/lbs rubber by the annual throughput (in lbs) and dividing by 2,000 lbs.

- c. Emission Limitation:
0.49 lb/hr VOC

Applicable Compliance Method:

Compliance with the hourly emission limitations shall be determined by summing the mixing and milling emissions. For mixing, multiply the emission factor of 2.15E-04 lb VOC/lbs rubber for compound #5 by the hourly throughput (in lbs). For milling, multiply the emission factor of 1.13E-04 lb VOC/lbs rubber for compound #3 by the hourly throughput (in lbs). (Both emission factors taken from AP-42, Chapter 4 Section 4.12 – Manufacture of Rubber Products.)

- d. Emission Limitation:
2.15 TPY VOC

Applicable Compliance Method:

Compliance with the annual emission limitation shall be determined by summing the mixing and milling emissions. For mixing, multiply the emission factor of

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2.15E-04 lb VOC/lbs rubber by the annual throughput (in lbs) and dividing by 2,000 lbs. For milling, multiply the emission factor of 1.13E-04 lb VOC/lbs rubber by the annual throughput (in lbs) and divide by 2,000 lbs.

e. Emission Limitation:

Visible emissions of fugitive dust shall not exceed 20% opacity, as a three-minute average.

Applicable Compliance Method:

If required, compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).

g) Miscellaneous Requirements

(1) None.

6. Emissions Unit Group - Ross Mixer: P006, P007, P008, P009

EU ID	Operations, Property and/or Equipment Description
P006	Ross Mixer 2 with 3-Roll Process Line
P007	Ross Mixer 1 with 3-Roll Process Line
P008	Ross Mixer 3 with 3-Roll Process Line
P009	Ross Mixer 4 with 3-Roll Process Line

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 11/30/01	Particulate Matter emissions (PM) shall not exceed 0.0185 lb/hr and 0.08 tons per year (TPY) Volatile Organic Compound emissions (VOC) shall not exceed 0.33 lb/hour and 1.43 tons per year (TPY). See b)(2)a.
b.	OAC rule 3745-31-05(A)(3)(a)(ii), as effective 12/1/06	See b)(2)b.
c.	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack serving this emissions unit shall not exceed 20% opacity as a six-minute average.
d.	OAC rule 3745-17-07(B)(1)	Visible emissions of fugitive dust shall not

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	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		exceed 20% opacity as a three-minute average.
e.	OAC rule 3745-17-08(B)	See b)(2)c. – f.
f.	OAC rule 3745-17-11(B)	PE shall not exceed 2.58 lbs/hr.

(2) Additional Terms and Conditions

a. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to 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 ORC changes effective August 3, 2006 (S.B. 265 changes), such that BAT is no longer required by State regulations for NAAQS pollutant 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 3745-31-05, then these emission limits/control measures no longer apply.

b. 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 or PM emissions from this air contaminant source since the uncontrolled potential to emit for VOC and PM emissions is less than 10 tons per year.

c. The material handling operation(s) that are covered by this permit and subject to the following requirements are listed below:

- i. loading mixer;
- ii. transfer to 3-roll mill with talc added; and
- iii. packaging.

d. The permittee shall employ reasonably available control measures for the above-identified material handling operation(s) for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to perform the following control measure(s) to ensure compliance by committing to reduce the polymer unloading velocity at such stations in order to reduce fugitive emissions. Other activities include but are not limited to the cleanup of dust material at the surrounding process areas to assure compliance with these requirements.

Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

- e. For each material handling operation that is not adequately enclosed, the above-identified control measure(s) shall be implemented if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) is (are) necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during the operation of the material handling operation(s) until further observation confirms that use of the control measure(s) is unnecessary.
- f. Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-17-08(B).

c) Operational Restrictions

- (1) The pressure drop across the baghouse shall be maintained within the range of 2.0 and 6.0 inches of water, or otherwise in accordance to the manufacturer's recommendation, while the emissions unit is in operation.

d) Monitoring and/or Recordkeeping Requirements

- (1) For each material processing and handling operation that is not adequately enclosed, the permittee shall perform inspections of such material processing and handling operations in accordance with the following minimum frequencies in order to determine if control measures need to be implemented:

<u>Material Handling Operation(s)</u>	<u>Minimum Inspection Frequency</u>
All Operations	Once During Each Day of Operation

Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance. The inspections shall be performed during representative, normal operating conditions.

- (2) The permittee shall perform daily checks, when the emissions unit is in operation and when weather conditions allow, for any visible particulate emissions from the stacks serving the baghouse associated with this emissions unit. The presence or absence of any visible emissions from the stack shall be noted in an operations log. If visible emissions from the stack 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 emission 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.

- (3) The permittee may, upon receipt of written approval from the Cleveland Division of Air Quality (DAQ), modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
- (4) The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed, including those inspections that were not performed due to process and operations shutdown;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
 - c. the dates the control measures were implemented; and
 - d. on a calendar quarter basis, the total number of weeks the control measures were implemented and the total number of weeks when inspections were not performed due to process and operations shutdown.

e) Reporting Requirements

- (1) Annual Permit Evaluation Report (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.
- (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. each day during which an inspection was not performed by the required frequency;
 - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented; and
 - c. all days during which any visible particulate emissions were observed from the stack serving this emission unit.

f) Testing Requirements

(1) Compliance with the emissions limitation(s) Section in b)(1) of these terms and conditions shall be determined in accordance with the following method(s):

a. Emission Limitation:
0.0185 lb PM/hr

Applicable Compliance Method:

Compliance with the hourly emission limitations shall be determined by multiplying the emission factor of 9.25E-04 lb PM/lbs rubber (taken from AP-42 emission factors from Chapter 4 Section 4.12 – Manufacture of Rubber Products, compound #5) by the hourly throughput in (lbs) by a control efficiency of (1- .98).

b. Emission Limitation:
0.08 TPY PM

Applicable Compliance Method:

Compliance with the annual emission limitation shall be determined by multiplying the emission factor of 9.25E-04 lb PM/lbs rubber by the annual throughput (in lbs) and dividing by 2,000 lbs.

c. Emission Limitation:
0.33 lb/hr VOC

Applicable Compliance Method:

Compliance with the hourly emission limitations shall be determined by summing the mixing and milling emissions. For mixing, multiply the emission factor of 2.15E-04 lb VOC/lbs rubber for compound #5 by the hourly throughput (in lbs). For milling, multiply the emission factor of 1.13E-04 lb VOC/lbs rubber for compound #3 by the hourly throughput (in lbs). (Both emission factors taken from AP-42, Chapter 4 Section 4.12 – Manufacture of Rubber Products.)

d. Emission Limitation:
1.43 TPY VOC

Applicable Compliance Method:

Compliance with the annual emission limitation shall be determined by summing the mixing and milling emissions. For mixing, multiply the emission factor of 2.15E-04 lb VOC/lbs rubber by the annual throughput (in lbs) and dividing by 2,000 lbs. For milling, multiply the emission factor of 1.13E-04 lb VOC/lbs rubber by the annual throughput (in lbs) and divide by 2,000 lbs.

e. Emission Limitation:

Visible particulate emissions from any of the stacks serving this emissions unit shall not exceed 20% opacity, as a six-minute average.

Applicable Compliance Method:

If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

- f. Emission Limitation:
Visible emissions of fugitive dust shall not exceed 20% opacity, as a three-minute average.

Applicable Compliance Method:

If required, compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(3).

- g. Emission Limitation:
2.58 lbs/hr PE

Applicable Compliance Method:

If required, compliance with the lb/hr limitation shall be demonstrated through emissions tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-5.

g) Miscellaneous Requirements

- (1) None.