



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

6/28/2013

Certified Mail

Mr. Phillip Buerk
The Scotts Co.
14111 Scottslawn Road
Marysville, OH 43041

Facility ID: 0180010008
Permit Number: P0083902
County: Union

RE: FINAL AIR POLLUTION CONTROL TITLE V PERMIT
Permit Type: Renewal

Dear Permit Holder:

Enclosed is a final Ohio Environmental Protection Agency (EPA) Air Pollution Title V permit that allows you to operate the facility in the manner indicated in the permit. Because this permit may contain several conditions and restrictions, we urge you to read it carefully. In this letter you will find the information on the following topics:

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

How to appeal this permit

The issuance of this Title V permit 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 Generals Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

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

How to save money, reduce pollution and reduce energy consumption

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

How to give us feedback on your permitting experience

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

How to get an electronic copy of your permit

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

If you have any questions regarding this permit, please contact the Ohio EPA DAPC, Central District Office as indicated on page one of your permit.

Sincerely,



Michael W. Ahern, Manager
Permit Issuance and Data Management Section, DAPC

Cc: U.S. EPA Region 5 *Via E-Mail Notification*
Ohio EPA DAPC, Central District Office



FINAL

**Division of Air Pollution Control
Title V Permit
for
The Scotts Co.**

Facility ID:	0180010008
Permit Number:	P0083902
Permit Type:	Renewal
Issued:	6/28/2013
Effective:	7/19/2013
Expiration:	7/19/2018



Division of Air Pollution Control
Title V Permit
for
The Scotts Co.

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Final Title V Permit
 The Scotts Co.
Permit Number: P0083902
Facility ID: 0180010008
Effective Date: 7/19/2013

Authorization

Facility ID: 0180010008
 Facility Description: Fertilizers, Mixing only
 Application Number(s): A0014352, A0014353, A0036295, A0041151
 Permit Number: P0083902
 Permit Description: Title V renewal permit for fertilizer manufacturing plant
 Permit Type: Renewal
 Issue Date: 6/28/2013
 Effective Date: 7/19/2013
 Expiration Date: 7/19/2018
 Superseded Permit Number: P0083901

This document constitutes issuance of an OAC Chapter 3745-77 Title V permit to:

The Scotts Co.
 14111 Scottslawn Road
 Marysville, OH 43041

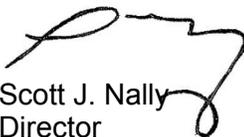
Ohio Environmental Protection Agency (EPA) District Office or local air agency responsible for processing and administering your permit:

Ohio EPA DAPC, Central District Office
 50 West Town Street, 6th Floor
 P.O. Box 1049
 Columbus, OH 43216-1049
 (614)728-3778

The above named entity is hereby granted a Title V permit pursuant to Chapter 3745-77 of the Ohio Administrative Code. This permit and the authorization to operate the air contaminant sources (emissions units) at this facility shall expire at midnight on the expiration date shown above. You will be sent a notice approximately 18 months prior to the expiration date regarding the renewal of this permit. If you do not receive a notice, please contact the Ohio EPA DAPC, Central District Office. If a renewal permit is not issued prior to the expiration date, the permittee may continue to operate pursuant to OAC rule 3745-77-08(E) and in accordance with the terms of this permit beyond the expiration date, if a timely renewal application is submitted. A renewal application will be considered timely if it is submitted no earlier than 18 months (540 days) and no later than 6 months (180 days) prior to the expiration date.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency


 Scott J. Nally
 Director



Final Title V Permit
The Scotts Co.
Permit Number: P0083902
Facility ID: 0180010008
Effective Date: 7/19/2013

A. Standard Terms and Conditions



1. Federally Enforceable Standard Terms and Conditions

- a) All Standard Terms and Conditions are federally enforceable, with the exception of those listed below which are enforceable under State law only:
- (1) Standard Term and Condition A. 24., Reporting Requirements Related to Monitoring and Record Keeping Requirements of State-Only Enforceable Permit Terms and Conditions
 - (2) Standard Term and Condition A. 25., Records Retention Requirements for State-Only Enforceable Permit Terms and Conditions
 - (3) Standard Term and Condition A. 27., Scheduled Maintenance/Malfunction Reporting
 - (4) Standard Term and Condition A. 29., Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations

(Authority for term: ORC 3704.036(A))

2. Monitoring and Related Record Keeping and Reporting Requirements

- a) Except as may otherwise be provided in the terms and conditions for a specific emissions unit (i.e., in section C. Emissions Unit Terms and Conditions of this Title V permit), the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:
- (1) The date, place (as defined in the permit), and time of sampling or measurements.
 - (2) The date(s) analyses were performed.
 - (3) The company or entity that performed the analyses.
 - (4) The analytical techniques or methods used.
 - (5) The results of such analyses.
 - (6) The operating conditions existing at the time of sampling or measurement.

(Authority for term: OAC rule 3745-77-07(A)(3)(b)(i))

- b) Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

(Authority for term: OAC rule 3745-77-07(A)(3)(b)(ii))



c) The permittee shall submit required reports in the following manner:

- (1) All reporting required in accordance with OAC rule 3745-77-07(A)(3)(c) for deviations caused by malfunctions shall be submitted in the following manner:

Any malfunction, as defined in OAC rule 3745-15-06(B)(1), shall be promptly reported to the Ohio EPA in accordance with OAC rule 3745-15-06. In addition, to fulfill the OAC rule 3745-77-07(A)(3)(c) deviation reporting requirements for malfunctions, written reports that identify each malfunction that occurred during each calendar quarter (including each malfunction reported only verbally in accordance with OAC rule 3745-15-06) shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year in accordance with Standard Term and Condition A.2.c)(2) below; and each report shall cover the previous calendar quarter. An exceedance of the visible emission limitations specified in OAC rule 3745-17-07(A)(1) that is caused by a malfunction is not a violation and does not need to be reported as a deviation if the owner or operator of the affected air contaminant source or air pollution control equipment complies with the requirements of OAC rule 3745-17-07(A)(3)(c).

In accordance with OAC rule 3745-15-06, a malfunction reportable under OAC rule 3745-15-06(B) is a deviation of the federally enforceable permit requirements. Even though verbal notifications and written reports are required for malfunctions pursuant to OAC rule 3745-15-06, the written reports required pursuant to this term must be submitted quarterly to satisfy the prompt reporting provision of OAC rule 3745-77-07(A)(3)(c).

In identifying each deviation caused by a malfunction, the permittee shall specify the emission limitation(s) (or control requirement(s)) for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation. For a specific malfunction, if this information has been provided in a written report that was submitted in accordance with OAC rule 3745-15-06, the permittee may simply reference that written report to identify the deviation. Nevertheless, all malfunctions, including those reported only verbally in accordance with OAC rule 3745-15-06, must be reported in writing on a quarterly basis.

Any scheduled maintenance, as referenced in OAC rule 3745-15-06(A)(1), that results in a deviation from a federally enforceable emission limitation (or control requirement) shall be reported in the same manner as described above for malfunctions.

(Authority for term: OAC rule 3745-77-07(A)(3)(c))

- (2) Except as may otherwise be provided in the terms and conditions for a specific emissions unit (i.e., in section C. Emissions Unit Terms and Conditions of this Title V permit or, in some cases, in section B. Facility-Wide Terms and Conditions of this Title V permit), all reporting required in accordance with OAC rule 3745-77-07(A)(3)(c) for deviations of the emission limitations, operational restrictions, and control device operating parameter limitations shall be submitted in the following manner:

Written reports of (a) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, (b) the probable cause of such deviations, and (c) any corrective actions or preventive



measures taken, shall be promptly made to the appropriate Ohio EPA District Office or local air agency. Except as provided below, the written reports shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

In identifying each deviation, the permittee shall specify the emission limitation(s), operational restriction(s), and/or control device operating parameter limitation(s) for which the deviation occurred, describe each deviation, and provide the estimated magnitude and duration of each deviation.

These written deviation reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c) pertaining to the submission of monitoring reports every six months and to the prompt reporting of all deviations. Full compliance with OAC rule 3745-77-07(A)(3)(c) requires reporting of all other deviations of the federally enforceable requirements specified in the permit as required by such rule.

If an emissions unit has a deviation reporting requirement for a specific emission limitation, operational restriction, or control device operating parameter limitation that is not on a quarterly basis (e.g., within 30 days following the end of the calendar month, or within 30 or 45 days after the exceedance occurs), that deviation reporting requirement satisfies the reporting requirements specified in this Standard Term and Condition for that specific emission limitation, operational restriction, or control device parameter limitation. Following the provisions of that non-quarterly deviation reporting requirement will also satisfy (for the deviations so reported) the requirements of OAC rule 3745-77-07(A)(3)(c) pertaining to the submission of monitoring reports every six months and to the prompt reporting of all deviations, and additional quarterly deviation reports for that specific emission limitation, operational restriction, or control device parameter limitation are not required pursuant to this Standard Term and Condition.

See A.29 below if no deviations occurred during the quarter.

(Authority for term: OAC rule 3745-77-07(A)(3)(c))

- (3) All reporting required in accordance with the OAC rule 3745-77-07(A)(3)(c) for other deviations of the federally enforceable permit requirements which are not reported in accordance with Standard Term and Condition A.2)c)(2) above shall be submitted in the following manner:

Unless otherwise specified by rule, written reports that identify deviations of the following federally enforceable requirements contained in this permit; Standard Terms and Conditions: A.3, A.4, A.5, A.7.e), A.8, A.13, A.15, A.19, A.20, A.21, and A.23 of this Title V permit, as well as any deviations from the requirements in section C. Emissions Unit Terms and Conditions of this Title V permit, and any monitoring, record keeping, and reporting requirements, which are not reported in accordance with Standard Term and Condition A.2.c)(2) above shall be submitted (i.e., postmarked) to the appropriate Ohio EPA District Office or local air agency by January 31 and July 31 of each year; and each report shall cover the previous six calendar months. Unless otherwise specified by rule, all other deviations from federally enforceable requirements identified in this permit shall be submitted annually as part of the annual compliance certification, including deviations of federally enforceable requirements not specifically addressed by permit or rule for the



insignificant activities or emissions levels (IEU) identified in section B. Facility-Wide Terms and Conditions of this Title V permit. Annual reporting of deviations is deemed adequate to meet the deviation reporting requirements for IEUs unless otherwise specified by permit or rule.

In identifying each deviation, the permittee shall specify the federally enforceable requirement for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation.

These semi-annual and annual written reports shall satisfy the reporting requirements of OAC rule 3745-77-07(A)(3)(c) for any deviations from the federally enforceable requirements contained in this permit that are not reported in accordance with Standard Term and Condition A.2.c)(2) above.

If no such deviations occurred during a six-month period, the permittee shall submit a semi-annual report which states that no such deviations occurred during that period.

(Authority for term: OAC rules 3745-77-07(A)(3)(c)(i) and (ii) and OAC rule 3745-77-07(A)(13)(b))

- (4) Each written report shall be signed by a responsible official certifying that, "based on information and belief formed after reasonable inquiry, the statements and information in the report (including any written malfunction reports required by OAC rule 3745-15-06 that are referenced in the deviation reports) are true, accurate, and complete."

(Authority for term: OAC rule 3745-77-07(A)(3)(c)(iv))

- (5) Reports of any required monitoring and/or record keeping information shall be submitted to Ohio EPA DAPC, Central District Office.

(Authority for term: OAC rule 3745-77-07(A)(3)(c))

3. Scheduled Maintenance

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. Except as provided in OAC rule 3745-15-06(A)(3), any scheduled maintenance necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s). Any scheduled maintenance, as defined in OAC rule 3745-15-06(A)(1), that results in a deviation from a federally enforceable emission limitation (or control requirement) shall be reported in the same manner as described for malfunctions in Standard Term and Condition A.2.c)(1) above.

(Authority for term: OAC rule 3745-77-07(A)(3)(c))

4. Risk Management Plans

If applicable, the permittee shall develop and register a risk management plan pursuant to section 112(r) of the Clean Air Act, as amended, 42 U.S.C. § 7401 et seq. ("Act"); and, pursuant to 40 C.F.R. 68.215(a), the permittee shall submit either of the following:



- a) a compliance plan for meeting the requirements of 40 C.F.R. Part 68 by the date specified in 40 C.F.R. 68.10(a) and OAC 3745-104-05(A); or
- b) as part of the compliance certification submitted under 40 C.F.R. 70.6(c)(5), a certification statement that the source is in compliance with all requirements of 40 C.F.R. Part 68 and OAC Chapter 3745-104, including the registration and submission of the risk management plan.

(Authority for term: OAC rule 3745-77-07(A)(4))

5. Title IV Provisions

If the permittee is subject to the requirements of 40 CFR Part 72 concerning acid rain, the permittee shall ensure that any affected emissions unit complies with those requirements. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.

(Authority for term: OAC rule 3745-77-07(A)(5))

6. Severability Clause

A determination that any term or condition of this permit is invalid shall not invalidate the force or effect of any other term or condition thereof, except to the extent that any other term or condition depends in whole or in part for its operation or implementation upon the term or condition declared invalid.

(Authority for term: OAC rule 3745-77-07(A)(6))

7. General Requirements

- a) The permittee must comply with all terms and conditions of this permit. Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and reissuance, or modification, or for denial of a permit renewal application.
- b) It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.
- c) This permit may be modified, reopened, revoked, or revoked and reissued, for cause, in accordance with Standard Term and Condition A.11 below. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.
- d) This permit does not convey any property rights of any sort, or any exclusive privilege.
- e) The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the



Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

- f) Except as otherwise indicated below, this Title V permit, or permit modification, is effective for five years from the original effective date specified in the permit. In the event that this facility becomes eligible for non-title V permits, this permit shall cease to be enforceable when:
- (1) the permittee submits an approved facility-wide potential to emit analysis supporting a claim that the facility no longer meets the definition of a "major source" as defined in OAC rule 3745-77-01(W) based on the permanent shutdown and removal of one or more emissions units identified in this permit; or
 - (2) the permittee no longer meets the definition of a "major source" as defined in OAC rule 3745-77-01(W) based on obtaining restrictions on the facility-wide potential(s) to emit that are federally enforceable or legally and practically enforceable ; or
 - (3) a combination of (1) and (2) above.

The permittee shall continue to comply with all applicable OAC Chapter 3745-31 requirements for all regulated air contaminant sources once this permit ceases to be enforceable. The permittee shall comply with any residual requirements, such as quarterly deviation reports, semi-annual deviation reports, and annual compliance certifications covering the period during which this Title V permit was enforceable. All records relating to this permit must be maintained in accordance with law.

(Authority for term: OAC rule 3745-77-01(W), OAC rule 3745-77-07(A)(3)(b)(ii), OAC rule 3745-77(A)(7))

8. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78.

(Authority for term: OAC rule 3745-77-07(A)(8))

9. Marketable Permit Programs

No revision of this permit is required under any approved economic incentive, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in this permit.

(Authority for term: OAC rule 3745-77-07(A)(9))



10. Reasonably Anticipated Operating Scenarios

The permittee is hereby authorized to make changes among operating scenarios authorized in this permit without notice to the Ohio EPA, but, contemporaneous with making a change from one operating scenario to another, the permittee must record in a log at the permitted facility the scenario under which the permittee is operating. The permit shield provided in these standard terms and conditions shall apply to all operating scenarios authorized in this permit.

(Authority for term: OAC rule 3745-77-07(A)(10))

11. Reopening for Cause

This Title V permit will be reopened prior to its expiration date under the following conditions:

- a) Additional applicable requirements under the Act become applicable to one or more emissions units covered by this permit, and this permit has a remaining term of three or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to paragraph (E)(1) of OAC rule 3745-77-08.
- b) This permit is issued to an affected source under the acid rain program and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit, and shall not require a reopening of this permit.
- c) The Director of the Ohio EPA or the Administrator of the U.S. EPA determines that the federally applicable requirements in this permit are based on a material mistake, or that inaccurate statements were made in establishing the emissions standards or other terms and conditions of this permit related to such federally applicable requirements.
- d) The Administrator of the U.S. EPA or the Director of the Ohio EPA determines that this permit must be revised or revoked to assure compliance with the applicable requirements.

(Authority for term: OAC rules 3745-77-07(A)(12) and 3745-77-08(D))

12. Federal and State Enforceability

Only those terms and conditions designated in this permit as federally enforceable, that are required under the Act, or any of its applicable requirements, including relevant provisions designed to limit the potential to emit of a source, are enforceable by the Administrator of the U.S. EPA, the State, and citizens under the Act. All other terms and conditions of this permit shall not be federally enforceable and shall be enforceable under State law only.

(Authority for term: OAC rule 3745-77-07(B))

13. Compliance Requirements

- a) Any document (including reports) required to be submitted and required by a federally applicable requirement in this Title V permit shall include a certification by a responsible official



that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.

- b) Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:
 - (1) At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.
 - (2) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with paragraph (E) of OAC rule 3745-77-03.
 - (3) Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
 - (4) As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.

- c) The permittee shall submit progress reports to the appropriate Ohio EPA District Office or local air agency concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:
 - (1) Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
 - (2) An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

- d) Compliance certifications concerning the terms and conditions contained in this permit that are federally enforceable emission limitations, standards, or work practices, shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) and the Administrator of the U.S. EPA in the following manner and with the following content:
 - (1) Compliance certifications shall be submitted annually on a calendar year basis. The annual certification shall be submitted (i.e., postmarked) on or before April 30th of each year during the permit term.
 - (2) Compliance certifications shall include the following:
 - a. An identification of each term or condition of this permit that is the basis of the certification.
 - b. The permittee's current compliance status.
 - c. Whether compliance was continuous or intermittent.



- d. The method(s) used for determining the compliance status of the source currently and over the required reporting period.
 - e. Such other facts as the Director of the Ohio EPA may require in the permit to determine the compliance status of the source.
- (3) Compliance certifications shall contain such additional requirements as may be specified pursuant to sections 114(a)(3) and 504(b) of the Act.

(Authority for term: OAC rules 3745-77-07(C)(1),(2),(4) and (5) and ORC section 3704.03(L))

14. Permit Shield

- a) Compliance with the terms and conditions of this permit (including terms and conditions established for alternate operating scenarios, emissions trading, and emissions averaging, but excluding terms and conditions for which the permit shield is expressly prohibited under OAC rule 3745-77-07) shall be deemed compliance with the applicable requirements identified and addressed in this permit as of the date of permit issuance.
- b) This permit shield provision shall apply to any requirement identified in this permit pursuant to OAC rule 3745-77-07(F)(2), as a requirement that does not apply to the source or to one or more emissions units within the source.

(Authority for term: OAC rule 3745-77-07(F))

15. Operational Flexibility

The permittee is authorized to make the changes identified in OAC rule 3745-77-07(H)(1)(a) to (H)(1)(c) within the permitted stationary source without obtaining a permit revision, if such change is not a modification under any provision of Title I of the Act [as defined in OAC rule 3745-77-01(JJ)], and does not result in an exceedance of the emissions allowed under this permit (whether expressed therein as a rate of emissions or in terms of total emissions), and the permittee provides the Administrator of the U.S. EPA and the appropriate Ohio EPA District Office or local air agency with written notification within a minimum of seven days in advance of the proposed changes, unless the change is associated with, or in response to, emergency conditions. If less than seven days notice is provided because of a need to respond more quickly to such emergency conditions, the permittee shall provide notice to the Administrator of the U.S. EPA and the appropriate District Office of the Ohio EPA or local air agency as soon as possible after learning of the need to make the change. The notification shall contain the items required under OAC rule 3745-77-07(H)(2)(d).

(Authority for term: OAC rules 3745-77-07(H)(1) and (2))

16. Emergencies

The permittee shall have an affirmative defense of emergency to an action brought for noncompliance with technology-based emission limitations if the conditions of OAC rule 3745-77-07(G)(3) are met. This emergency defense provision is in addition to any emergency or upset provision contained in any applicable requirement.

(Authority for term: OAC rule 3745-77-07(G))



17. Off-Permit Changes

The owner or operator of a Title V source may make any change in its operations or emissions at the source that is not specifically addressed or prohibited in the Title V permit, without obtaining an amendment or modification of the permit, provided that the following conditions are met:

- a) The change does not result in conditions that violate any applicable requirements or that violate any existing federally enforceable permit term or condition.
- b) The permittee provides contemporaneous written notice of the change to the Director and the Administrator of the U.S. EPA, except that no such notice shall be required for changes that qualify as insignificant emissions levels or activities as defined in OAC rule 3745-77-01(U). Such written notice shall describe each such change, the date of such change, any change in emissions or pollutants emitted, and any federally applicable requirement that would apply as a result of the change.
- c) The change shall not qualify for the permit shield under OAC rule 3745-77-07(F).
- d) The permittee shall keep a record describing all changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those changes.
- e) The change is not subject to any applicable requirement under Title IV of the Act or is not a modification under any provision of Title I of the Act.

Paragraph (I) of rule 3745-77-07 of the Administrative Code applies only to modification or amendment of the permittee's Title V permit. The change made may require a permit-to-install under Chapter 3745-31 of the Administrative Code if the change constitutes a modification as defined in that Chapter. Nothing in paragraph (I) of rule 3745-77-07 of the Administrative Code shall affect any applicable obligation under Chapter 3745-31 of the Administrative Code.

(Authority for term: OAC rule 3745-77-07(I))

18. Compliance Method Requirements

Nothing in this permit shall alter or affect the ability of any person to establish compliance with, or a violation of, any applicable requirement through the use of credible evidence to the extent authorized by law. Nothing in this permit shall be construed to waive any defenses otherwise available to the permittee, including but not limited to, any challenge to the Credible Evidence Rule (see 62 Fed. Reg. 8314, Feb. 24, 1997), in the context of any future proceeding.

(This term is provided for informational purposes only.)

19. Insignificant Activities or Emissions Levels

Each IEU that has one or more applicable requirements shall comply with those applicable requirements.

(Authority for term: OAC rule 3745-77-07(A)(1))



20. Permit to Install Requirement

Prior to the "installation" or "modification" of any "air contaminant source," as those terms are defined in OAC rule 3745-31-01, a permit to install must be obtained from the Ohio EPA pursuant to OAC Chapter 3745-31.

(Authority for term: OAC rule 3745-77-07(A)(1))

21. Air Pollution Nuisance

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

(Authority for term: OAC rule 3745-77-07(A)(1))

22. Permanent Shutdown of an Emissions Unit

The permittee may notify Ohio EPA of any emissions unit that is permanently shut down by submitting a certification from the responsible official that identifies the date on which the emissions unit was permanently shut down. Authorization to operate the affected emissions unit shall cease upon the date certified by the responsible official that the emissions unit was permanently shut down.

After the date on which an emissions unit is permanently shut down (i.e., that 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 and therefore ceases to meet the definition of an "emissions unit" as defined in OAC rule 3745-77-01(O)), rendering existing permit terms and conditions irrelevant, the permittee shall not be required, after the date of the certification and submission to Ohio EPA, to meet any Title V permit requirements applicable to that emissions unit, except for any residual requirements, such as the quarterly deviation reports, semi-annual deviation reports and annual compliance certification covering the period during which the emissions unit last operated. All records relating to the shutdown emissions unit, generated while the emissions unit was in operation, must be maintained in accordance with law.

No emissions unit certified by the responsible official as being permanently shut down may resume operation without first applying for and obtaining a permit to install pursuant to OAC Chapter 3745-31.

(Authority for term: OAC rule 3745-77-01)

23. Title VI Provisions

If applicable, the permittee shall comply with the standards for recycling and reducing emissions of ozone depleting substances pursuant to 40 CFR Part 82, Subpart F, except as provided for motor vehicle air conditioners in Subpart B of 40 CFR Part 82:

- a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices specified in 40 CFR 82.156.
- b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment specified in 40 CFR 82.158.



- c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

(Authority for term: OAC rule 3745-77-01(H)(11))

24. Reporting Requirements Related to Monitoring and Record Keeping Requirements Under State Law Only

The permittee shall submit required reports in the following manner:

- a) Reports of any required monitoring and/or record keeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b) Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (i) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and record keeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. In identifying each deviation, the permittee shall specify the applicable requirement for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted (i.e., postmarked) quarterly, by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

25. Records Retention Requirements Under State Law Only

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

26. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine



whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

(Authority for term: OAC rule 3745-77-07(C))

27. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

28. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

(Authority for term: OAC rule 3745-77-01(C))

29. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations

If no emission limitation (or control requirement), operational restriction and/or control device parameter limitation deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

The permittee is not required to submit a quarterly report which states that no deviations occurred during that quarter for the following situations:

- a) where an emissions unit has deviation reporting requirements for a specific emission limitation, operational restriction, or control device parameter limitation that override the deviation reporting requirements specified in Standard Term and Condition A.2.c)(2); or
- b) where an uncontrolled emissions unit has no monitoring, record keeping, or reporting requirements and the emissions unit's applicable emission limitations are established at the potentials to emit; or
- c) where the company's responsible official has certified that an emissions unit has been permanently shut down.



Final Title V Permit
The Scotts Co.
Permit Number: P0083902
Facility ID: 0180010008
Effective Date: 7/19/2013

B. Facility-Wide Terms and Conditions



1. All the following facility-wide terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only:
 - a) None.
2. The following insignificant emissions units at this facility must comply with all applicable State and federal regulations, as well as any emissions limitations and/or control requirements contained within the identified permit to install for the emissions unit. The insignificant emissions units listed below are subject to one or more applicable requirements contained in a permit-to-install or in the SIP approved versions of OAC Chapters 3745-17, 3745-18, and 3745-21, and/or 40 CFR Part 60 or 63:
 - a) B102- 5.0 MMBtu/hr gas-fired heater
 - b) B103- 5.0 MMBtu/hr gas-fired heater
 - c) B106- 5.0 MMBtu/hr gas-fired heater
 - d) B109- 8.475 MMBtu/hr natural gas/LPG-fired boiler, Cleaver Brooks
 - e) B110- 7.3 MMBtu/hr natural gas-fired boiler, Cleaver Brooks
 - f) B111- 4.184 MMBtu/hr, Cleaver Brooks
 - g) B112- 9.414 MMBtu/hr, Cleaver Brooks
 - h) B113- 9.414 MMBtu/hr, Cleaver Brooks
 - i) B114- 8.4 MMBtu/hr, Cleaver Brooks
 - j) B115- 9.414 MMBtu/hr, Cleaver Brooks
 - k) B116- 4.8 MMBtu/hr, Trane
 - l) B117- Diesel Emergency Water Pump (PBR 09856)
 - m) P145- COIR eZ Seed 1 Hammermill #1 with Process Dust Collector (PTI P0105673)
 - n) P146- COIR eZ Seed 1 Hammermill #2 with Process Dust Collector (PTI P0105673)
 - o) P147- COIR eZ Seed 2 Hammermill #3 with Process Dust Collector (PTI P0105673)
 - p) P148- COIR eZ Seed 2 Hammermill #4 with Process Dust Collector (PTI P0105673)
 - q) P149- COIR eZ Seed 1 Process with Dust Collector (PTI P0105673)
 - r) P150- COIR eZ Seed 2 Process with Dust Collector (PTI P0105673)
 - s) T012- 16,400 gallon bifenthrin pesticide storage tank (PTI 01-08386)



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3. The Ohio EPA, Central District Office has approved the Compliance Assurance Monitoring (CAM) plan submitted by the permittee, pursuant to 40 CFR Part 64, for emissions units P028, P031, P036, P040, P041, P042, P049, P134 and P138. The permittee shall comply with the provisions of the plan (as specified in Part C – Terms and Conditions for Emissions Units) during any operation of the aforementioned emissions units.

[Authority term: 40 CFR Part 64]



Final Title V Permit
The Scotts Co.
Permit Number: P0083902
Facility ID: 0180010008
Effective Date: 7/19/2013

C. Emissions Unit Terms and Conditions



1. P023, Poly-S Urea Storage, Sizing and Feed System

Operations, Property and/or Equipment Description:

Urea Storage vented to a baghouse

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) 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 3745-17-07(A)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
b.	OAC rule 3745-17-11(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
c.	OAC rule 3745-31-05(A)(3) (PTI 01-5928)	<p>Particulate emissions from the stack serving this emissions unit shall not exceed 0.002 grain per dry standard cubic foot, 0.27 pound per hour and 1.00 ton per year.</p> <p>PM10 emissions from the stack serving this emissions unit shall not exceed 0.003 grain per dry standard cubic foot, 0.44 pound per hour and 1.62 tons per year.</p> <p>There shall be no visible particulate emissions from the stack serving this emissions unit.</p> <p>See b)(2)a. below.</p>



(2) Additional Terms and Conditions

- a. The permittee shall vent the particulate emissions from this emissions unit to the baghouse controlling this emissions unit whenever this emissions unit is in operation.

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping Requirements

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

- a. the color of the emissions;
- b. the total duration of any visible emissions incident; and
- c. any corrective actions taken to 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 (b) 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).

[OAC rule 3745-77-07(A)(3)]

- (2) The permittee shall maintain monthly records of the operating hours for this emissions unit.

[OAC rule 3745-77-07(A)(3)(a)(ii)]

- (3) The permittee shall maintain annual records of the operating hours for this emissions unit (i.e. the summation of the monthly operating hours).

[OAC rule 3745-77-07(A)(3)(a)(ii)]

e) Reporting Requirements

- (1) The permittee shall submit semiannual written reports that identify:

- a. all days during which any visible particulate emissions were observed from the stack serving this emissions unit; and
- b. any corrective actions taken to eliminate the visible particulate emissions.



These reports shall be submitted to the director (Ohio EPA, Central District Office) by January 31 and July 31 of each year and shall cover the previous 6-month period.

[OAC rule 3745-77-07(A)(3)(c)]

- (2) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[OAC rule 3745-77-07(A)(3)(c)]

f) **Testing Requirements**

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

a. Emissions Limitations

Particulate emissions from the stack serving this emissions unit shall not exceed 0.002 grain per dry standard cubic foot, 0.27 pound per hour and 1.00 ton per year.

PM10 emissions from the stack serving this emissions unit shall not exceed 0.003 grain per dry standard cubic foot, 0.44 pound per hour and 1.62 tons per year.

Applicable Compliance Method

Emissions testing was conducted for this emissions unit on April 25, May 11 and May 12, 1995. The emissions test demonstrated compliance with the hourly emissions limitations and the grain loading limitations for this emissions unit.

If required, the permittee shall demonstrate compliance with the grain loading and hourly emissions limitations in accordance with 40 CFR Part 60, Appendix A, Methods 1-4 and 5 for particulate emissions and Method 201 or 201A for PM10 emissions.

Compliance with the annual particulate and PM10 emissions limitations shall be determined by multiplying the hourly emission rates established by the April 25 and May 11, 1995 stack tests (0.27 pound per hour for particulate and 0.4 pound per hour for PM10) or the most recent emission test that demonstrated the emission unit was in compliance by the actual number of operating hours recorded in d)(3) above and dividing by 2,000 pounds per ton to obtain the annual emissions.

b. Emissions Limitation

There shall be no visible particulate emissions from the stack serving this emissions unit.



Applicable Compliance Method

If required, compliance with the visible particulate emissions limitation shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 22.

- g) Miscellaneous Requirements
 - (1) None.



2. P024, Poly-S Fluid Bed Urea Preheater System

Operations, Property and/or Equipment Description:

Fluid Bed Pre-heater vented to a baghouse

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) 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 3745-17-07(A)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
b.	OAC rule 3745-17-11(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
c.	OAC rule 3745-31-05(A)(3) (PTI 01-5928)	<p>Particulate and PM10 emissions from the stack serving this emissions unit shall not exceed 0.001 grain per dry standard cubic foot, 0.05 pound per hour and 0.19 ton per year.</p> <p>There shall be no visible particulate emissions from the stack serving this emissions unit.</p> <p>See b)(2)a. below.</p>

(2) Additional Terms and Conditions

a. The permittee shall vent all the particulate emissions to the baghouse whenever this emissions unit is in operation.

c) Operational Restrictions

(1) None.



d) **Monitoring and/or Recordkeeping Requirements**

- (1) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. the total duration of any visible emissions incident; and
 - c. any corrective actions taken to 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 (b) 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).

[OAC rule 3745-77-07(A)(3)]

- (2) The permittee shall maintain monthly records of the operating hours for this emissions unit.

[OAC rule 3745-77-07(A)(3)(a)(ii)]
- (3) The permittee shall maintain annual records of the operating hours for this emissions unit (i.e. the summation of the monthly operating hours).

[OAC rule 3745-77-07(A)(3)(a)(ii)]

e) **Reporting Requirements**

- (1) The permittee shall submit semiannual written reports that identify:
 - a. all days during which any visible particulate emissions were observed from the stack serving this emissions unit; and
 - b. any corrective actions taken to eliminate the visible particulate emissions.

These reports shall be submitted to the director (Ohio EPA, Central District Office) by January 31 and July 31 of each year and shall cover the previous 6-month period.

[OAC rule 3745-77-07(A)(3)(c)]

- (2) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[OAC rule 3745-77-07(A)(3)(c)]



f) Testing Requirements

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

a. Emissions Limitations

Particulate and PM10 emissions from the stack serving this emissions unit shall not exceed 0.001 grain per dry standard cubic foot, 0.05 pound per hour and 0.19 ton per year.

Applicable Compliance Method

The hourly particulate and PM10 emissions limitations were established from information provided in the permit to install application for this emissions unit submitted to Ohio EPA on July 14, 1995 using the following equation.

$PE/PM10 = (\text{grain loading}) \times (\text{air flow rate}) \times (60 \text{ min/hr}) / (7,000 \text{ gr/lb})$, where

Grain loading of the baghouse = 0.001 gr/dscf

Maximum air flow rate = 6,000 acfm

If required, the permittee shall demonstrate compliance with the grain loading and hourly emissions limitations in accordance with 40 CFR Part 60, Appendix A, Methods 1-4 and 5 for particulate emissions and Method 201 or 201A for PM10 emissions.

Compliance with the annual particulate and PM10 emissions limitations shall be determined by multiplying the hourly emission rates as established by the above equation or the most recent emission test that demonstrated the emission unit was in compliance by the actual number of operating hours recorded in d)(3) above and dividing by 2,000 pounds per ton to obtain the annual emissions.

b. Emissions Limitation

There shall be no visible particulate emissions from the stack serving this emissions unit.

Applicable Compliance Method

If required, compliance with the visible particulate emissions limitation shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 22.

g) Miscellaneous Requirements

- (1) None.



3. P025, Poly-S Sulfur Coating System

Operations, Property and/or Equipment Description:

Sulfur Coating System vented to a cyclone and scrubber

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) 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 3745-17-07(A)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
b.	OAC rule 3745-17-11(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
c.	OAC rule 3745-31-05(A)(3) (PTI 01-5928)	<p>Particulate emissions from the stack serving this emissions unit shall not exceed 0.02 grain per dry standard cubic foot, 0.31 pound per hour and 1.15 tons per year.</p> <p>PM10 emissions from the stack serving this emissions unit shall not exceed 0.007 grain per dry standard cubic foot, 0.15 pound per hour and 0.54 ton per year.</p> <p>There shall be no visible particulate emissions from the stack serving this emissions unit.</p> <p>See b)(2)a. below.</p>



- (2) Additional Terms and Conditions
 - a. All of the emissions from this emissions unit shall be vented to the cyclone and scrubber at all times the emissions unit is in operation.
- c) Operational Restrictions
 - (1) None.
- d) Monitoring and/or Recordkeeping Requirements
 - (1) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. the total duration of any visible emissions incident; and
 - c. any corrective actions taken to 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 (b) 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).

[OAC rule 3745-77-07(A)(3)]
 - (2) The permittee shall maintain monthly records of the operating hours for this emissions unit.

[OAC rule 3745-77-07(A)(3)(a)(ii)]
 - (3) The permittee shall maintain annual records of the operating hours for this emissions unit (i.e. the summation of the monthly operating hours).

[OAC rule 3745-77-07(A)(3)(a)(ii)]
- e) Reporting Requirements
 - (1) The permittee shall submit semiannual written reports that identify:
 - a. all days during which any visible particulate emissions were observed from the stack serving this emissions unit; and
 - b. any corrective actions taken to eliminate the visible particulate emissions.



These reports shall be submitted to the director (Ohio EPA, Central District Office) by January 31 and July 31 of each year and shall cover the previous 6-month period.

[OAC rule 3745-77-07(A)(3)(c)]

- (2) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[OAC rule 3745-77-07(A)(3)(c)]

f) **Testing Requirements**

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

a. Emissions Limitations

Particulate emissions from the stack serving this emissions unit shall not exceed 0.02 grain per dry standard cubic foot, 0.31 pound per hour and 1.15 tons per year.

PM10 emissions from the stack serving this emissions unit shall not exceed 0.007 grain per dry standard cubic foot, 0.15 pound per hour and 0.54 ton per year.

Applicable Compliance Method

Emissions testing was conducted for this emissions unit on April 25 and May 11, 1995. The emissions test demonstrated compliance with the hourly emissions limitations and the grain loading limitations for this emissions unit.

If required, the permittee shall demonstrate compliance with the grain loading and hourly emissions limitations in accordance with 40 CFR Part 60, Appendix A, Methods 1-4 and 5 for particulate emissions and Method 201 or 201A for PM10 emissions.

Compliance with the annual particulate and PM10 emissions limitations shall be determined by multiplying the hourly emission rates established by the April 25 and May 11, 1995 stack tests (0.31 pound per hour for particulate and 0.13 pound per hour for PM10) or the most recent emission test that demonstrated the emission unit was in compliance by the actual number of operating hours recorded in d)(3) above and dividing by 2,000 pounds per ton to obtain the annual emissions.

b. Emissions Limitation

There shall be no visible particulate emissions from the stack serving this emissions unit.



Applicable Compliance Method

If required, compliance with the visible particulate emissions limitation shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 22.

- g) Miscellaneous Requirements
 - (1) None.



4. P026, Poly-S Polymer Top Coating System

Operations, Property and/or Equipment Description:

Polymer Top Coating System vented to a cyclone

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) 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 3745-17-07(A)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
b.	OAC rule 3745-17-11(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
c.	OAC rule 3745-31-05(A)(3) (PTI 01-5928)	<p>Particulate emissions from the stack serving this emissions unit shall not exceed 0.007 grain per dry standard cubic foot, 1.34 pounds per hour and 4.90 tons per year.</p> <p>PM10 emissions from the stack serving this emissions unit shall not exceed 0.009 grain per dry standard cubic foot, 1.97 pounds per hour and 7.21 tons per year.</p> <p>There shall be no visible particulate emissions from the stack serving this emissions unit.</p> <p>See b)(2)a. below.</p>



- (2) Additional Terms and Conditions
 - a. All of the emissions from this emissions unit shall be vented to the cyclone at all times the emissions unit is in operation.
- c) Operational Restrictions
 - (1) None.
- d) Monitoring and/or Recordkeeping Requirements
 - (1) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. the total duration of any visible emissions incident; and
 - c. any corrective actions taken to 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 (b) 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).

[OAC rule 3745-77-07(A)(3)]
 - (2) The permittee shall maintain monthly records of the operating hours for this emissions unit.

[OAC rule 3745-77-07(A)(3)(a)(ii)]
 - (3) The permittee shall maintain annual records of the operating hours for this emissions unit (i.e. the summation of the monthly operating hours).

[OAC rule 3745-77-07(A)(3)(a)(ii)]
- e) Reporting Requirements
 - (1) The permittee shall submit semiannual written reports that identify:
 - a. all days during which any visible particulate emissions were observed from the stack serving this emissions unit; and
 - b. any corrective actions taken to eliminate the visible particulate emissions.



These reports shall be submitted to the director (Ohio EPA, Central District Office) by January 31 and July 31 of each year and shall cover the previous 6-month period.

[OAC rule 3745-77-07(A)(3)(c)]

- (2) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[OAC rule 3745-77-07(A)(3)(c)]

f) **Testing Requirements**

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

a. Emissions Limitations

Particulate emissions from the stack serving this emissions unit shall not exceed 0.007 grain per dry standard cubic foot, 1.34 pounds per hour and 4.90 tons per year.

PM10 emissions from the stack serving this emissions unit shall not exceed 0.009 grain per dry standard cubic foot, 1.97 pounds per hour and 7.21 tons per year.

Applicable Compliance Method

Emissions testing was conducted for this emissions unit on May 23 and 24, 1995. The emissions test demonstrated compliance with the hourly emissions limitations and the grain loading limitations for this emissions unit.

If required, the permittee shall demonstrate compliance with the grain loading and hourly emissions limitations in accordance with 40 CFR Part 60, Appendix A, Methods 1-4 and 5 for particulate emissions and Method 201 or 201A for PM10 emissions.

Compliance with the annual particulate and PM10 emissions limitations shall be determined by multiplying the hourly emission rates established by the May 23 and 34, 1995 stack tests (1.2 pounds per hour for particulate and 1.87 pounds per hour for PM10) or the most recent emission test that demonstrated the emission unit was in compliance by the actual number of operating hours recorded in d)(3) above and dividing by 2,000 pounds per ton to obtain the annual emissions.

b. Emissions Limitation

There shall be no visible particulate emissions from the stack serving this emissions unit.



Applicable Compliance Method

If required, compliance with the visible particulate emissions limitation shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 22.

- g) Miscellaneous Requirements
 - (1) None.



5. P028, Poly-S P/K Storage and Feed System

Operations, Property and/or Equipment Description:

P/K Storage and Feed System vented to a baghouse

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) 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 3745-17-07(A)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
b.	OAC rule 3745-17-11(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
c.	OAC rule 3745-31-05(A)(3) (PTI 01-5928)	<p>Particulate emissions from the stack serving this emissions unit shall not exceed 0.003 grain per dry standard cubic foot, 0.46 pound per hour and 0.63 ton per year.</p> <p>PM10 emissions from the stack serving this emissions unit shall not exceed 0.008 grain per dry standard cubic foot, 1.24 pounds per hour and 1.70 tons per year.</p> <p>There shall be no visible particulate emissions from the stack serving this emissions unit.</p> <p>See b)(2)a. below.</p>
d.	40 CFR Part 64 – Compliance Assurance Monitoring (CAM)	See d)(1), d)(2) and e)(1) below.



(2) Additional Terms and Conditions

- a. The permittee shall vent the particulate emissions from this emissions unit to the baghouse controlling this emissions unit whenever this emissions unit is in operation.

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping Requirements

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

- a. the color of the emissions;
- b. the total duration of any visible emissions incident; and
- c. any corrective actions taken to 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 (b) 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).

[OAC rule 3745-77-07(A)(3) and 40 CFR Part 64]

- (2) The CAM plan for this emissions unit has been developed for particulate emissions. The CAM performance indicator for the baghouse controlling this emissions unit is daily 6-minute visible emission checks. When visible emissions are observed from the stack serving this emissions unit, the permittee shall take corrective actions to restore operation of the emissions unit and/or its control equipment to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions, and shall comply with the reporting requirements specified in Section e) below.

[OAC rule 3745-77-07(A)(3) and 40 CFR Part 64]

- (3) The permittee shall maintain monthly records of the operating hours for this emissions unit.

[OAC rule 3745-77-07(A)(3)(a)(ii)]



- (4) The permittee shall maintain annual records of the operating hours for this emissions unit (i.e. the summation of the monthly operating hours).

[OAC rule 3745-77-07(A)(3)(a)(ii)]

e) Reporting Requirements

- (1) The permittee shall submit semiannual written reports that identify:

- a. all days during which any visible particulate emissions were observed from the stack serving this emissions unit; and
- b. any corrective actions taken to eliminate the visible particulate emissions.

These reports shall be submitted to the director (Ohio EPA, Central District Office) by January 31 and July 31 of each year and shall cover the previous 6-month period.

[OAC rule 3745-77-07(A)(3)(c) and 40 CFR Part 64.9]

- (2) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[OAC rule 3745-77-07(A)(3)(c)]

f) Testing Requirements

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

a. Emissions Limitations

Particulate emissions from the stack serving this emissions unit shall not exceed 0.003 grain per dry standard cubic foot, 0.46 pound per hour and 0.63 ton per year.

PM10 emissions from the stack serving this emissions unit shall not exceed 0.008 grain per dry standard cubic foot, 1.24 pounds per hour and 1.70 tons per year.

Applicable Compliance Method

Emissions testing was conducted for this emissions unit on April 26, May 12 and 23, 1995. The emissions test demonstrated compliance with the hourly emissions limitations and the grain loading limitations for this emissions unit.

If required, the permittee shall demonstrate compliance with the grain loading and hourly emissions limitations in accordance with 40 CFR Part 60, Appendix A, Methods 1-4 and 5 for particulate emissions and Method 201 or 201A for PM10 emissions.



Compliance with the annual particulate and PM10 emissions limitations shall be determined by multiplying the hourly emission rates established by the April 26, May 12 and 23, 1995 stack tests (0.47 pound per hour for particulate and 1.15 pounds per hour for PM10) or the most recent emission test that demonstrated the emission unit was in compliance by the actual number of operating hours recorded in d)(4) above and dividing by 2,000 pounds per ton to obtain the annual emissions.

b. Emissions Limitation

There shall be no visible particulate emissions from the stack serving this emissions unit.

Applicable Compliance Method

If required, compliance with the visible particulate emissions limitation shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 22.

g) Miscellaneous Requirements

- (1) None.



6. P031, Poly-S Packaging and Blending System

Operations, Property and/or Equipment Description:

Packaging and Blending System vented to a baghouse

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) 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 3745-17-07(A)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
b.	OAC rule 3745-17-11(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
c.	OAC rule 3745-31-05(A)(3) (PTI 01-5928)	<p>Particulate emissions from the stack serving this emissions unit shall not exceed 0.004 grain per dry standard cubic foot, 0.52 pound per hour and 1.90 tons per year.</p> <p>PM10 emissions from the stack serving this emissions unit shall not exceed 0.007 grain per dry standard cubic foot, 1.01 pounds per hour and 3.70 tons per year.</p> <p>There shall be no visible particulate emissions from the stack serving this emissions unit.</p> <p>See b)(2)a. below.</p>
d.	40 CFR Part 64 – Compliance Assurance Monitoring (CAM)	See d)(1), d)(2) and e)(1) below.



(2) Additional Terms and Conditions

- a. The permittee shall vent the particulate emissions from this emissions unit to the baghouse controlling this emissions unit whenever this emissions unit is in operation.

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping Requirements

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

- a. the color of the emissions;
- b. the total duration of any visible emissions incident; and
- c. any corrective actions taken to 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 (b) 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).

[OAC rule 3745-77-07(A)(3) and 40 CFR Part 64]

- (2) The CAM plan for this emissions unit has been developed for particulate emissions. The CAM performance indicator for the baghouse controlling this emissions unit is daily 6-minute visible emission checks. When visible emissions are observed from the stack serving this emissions unit, the permittee shall take corrective actions to restore operation of the emissions unit and/or its control equipment to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions, and shall comply with the reporting requirements specified in Section e) below.

[OAC rule 3745-77-07(A)(3) and 40 CFR Part 64]

- (3) The permittee shall maintain monthly records of the operating hours for this emissions unit.

[OAC rule 3745-77-07(A)(3)(a)(ii)]



- (4) The permittee shall maintain annual records of the operating hours for this emissions unit (i.e. the summation of the monthly operating hours).

[OAC rule 3745-77-07(A)(3)(a)(ii)]

e) Reporting Requirements

- (1) The permittee shall submit semiannual written reports that identify:

- a. all days during which any visible particulate emissions were observed from the stack serving this emissions unit; and
- b. any corrective actions taken to eliminate the visible particulate emissions.

These reports shall be submitted to the director (Ohio EPA, Central District Office) by January 31 and July 31 of each year and shall cover the previous 6-month period.

[OAC rule 3745-77-07(A)(3)(c) and 40 CFR Part 64.9]

- (2) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[OAC rule 3745-77-07(A)(3)(c)]

f) Testing Requirements

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

a. Emissions Limitations

Particulate emissions from the stack serving this emissions unit shall not exceed 0.004 grain per dry standard cubic foot, 0.52 pound per hour and 1.90 tons per year.

PM10 emissions from the stack serving this emissions unit shall not exceed 0.007 grain per dry standard cubic foot, 1.01 pounds per hour and 3.70 tons per year.

Applicable Compliance Method

Emissions testing was conducted for this emissions unit on May 18 and 19, 1995. The emissions test demonstrated compliance with the hourly emissions limitations and the grain loading limitations for this emissions unit.

If required, the permittee shall demonstrate compliance with the grain loading and hourly emissions limitations in accordance with 40 CFR Part 60, Appendix A, Methods 1-4 and 5 for particulate emissions and Method 201 or 201A for PM10 emissions.



Compliance with the annual particulate and PM10 emissions limitations shall be determined by multiplying the hourly emission rates established by the May 18 and 19, 1995 stack tests (0.5 pound per hour for particulate and 1.01 pounds per hour for PM10) or the most recent emission test that demonstrated the emission unit was in compliance by the actual number of operating hours recorded in d)(4) above and dividing by 2,000 pounds per ton to obtain the annual emissions.

b. Emissions Limitation

There shall be no visible particulate emissions from the stack serving this emissions unit.

Applicable Compliance Method

If required, compliance with the visible particulate emissions limitation shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 22.

g) Miscellaneous Requirements

- (1) None.



7. P033, Poly-S Air Slide Cooler

Operations, Property and/or Equipment Description:

Air Slide Cooler vented to a cyclone

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) 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 3745-17-07(A)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
b.	OAC rule 3745-17-11(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
c.	OAC rule 3745-31-05(A)(3) (PTI 01-5928)	<p>Particulate and PM10 emissions from the stack serving this emissions unit shall not exceed 0.025 grain per dry standard cubic foot, 0.49 pound per hour and 1.80 tons per year.</p> <p>There shall be no visible particulate emissions from the stack serving this emissions unit.</p> <p>See b)(2)a. below.</p>

(2) Additional Terms and Conditions

a. The permittee shall vent the particulate emissions to the cyclone whenever this emissions unit is in operation.

c) Operational Restrictions

(1) None.



d) **Monitoring and/or Recordkeeping Requirements**

- (1) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. the total duration of any visible emissions incident; and
 - c. any corrective actions taken to 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 (b) 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).

[OAC rule 3745-77-07(A)(3)]

- (2) The permittee shall maintain monthly records of the operating hours for this emissions unit.

[OAC rule 3745-77-07(A)(3)(a)(ii)]

- (3) The permittee shall maintain annual records of the operating hours for this emissions unit (i.e. the summation of the monthly operating hours).

[OAC rule 3745-77-07(A)(3)(a)(ii)]

e) **Reporting Requirements**

- (1) The permittee shall submit semiannual written reports that identify:
 - a. all days during which any visible particulate emissions were observed from the stack serving this emissions unit; and
 - b. any corrective actions taken to eliminate the visible particulate emissions.

These reports shall be submitted to the director (Ohio EPA, Central District Office) by January 31 and July 31 of each year and shall cover the previous 6-month period.

[OAC rule 3745-77-07(A)(3)(c)]

- (2) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[OAC rule 3745-77-07(A)(3)(c)]



f) Testing Requirements

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

a. Emissions Limitations

Particulate and PM10 emissions from the stack serving this emissions unit shall not exceed 0.025 grain per dry standard cubic foot, 0.49 pound per hour and 1.80 tons per year.

Applicable Compliance Method

The hourly particulate and PM10 emissions limitations were established from information provided in the permit to install application for this emissions unit submitted to Ohio EPA on July 14, 1995 using the following equation.

$PE/PM10 = (\text{grain loading}) \times (\text{air flow rate}) \times (60 \text{ min/hr}) / (7,000 \text{ gr/lb})$, where

Grain loading of the baghouse = 0.025 gr/dscf

Maximum air flow rate = 2,300 acfm

If required, the permittee shall demonstrate compliance with the grain loading and hourly emissions limitations in accordance with 40 CFR Part 60, Appendix A, Methods 1-4 and 5 for particulate emissions and Method 201 or 201A for PM10 emissions.

Compliance with the annual particulate and PM10 emissions limitations shall be determined by multiplying the hourly emission rates as established by the above equation or the most recent emission test that demonstrated the emission unit was in compliance by the actual number of operating hours recorded in d)(3) above and dividing by 2,000 pounds per ton to obtain the annual emissions.

b. Emissions Limitation

There shall be no visible particulate emissions from the stack serving this emissions unit.

Applicable Compliance Method

If required, compliance with the visible particulate emissions limitation shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 22.

g) Miscellaneous Requirements

- (1) None.



8. P036, System 2 Granulation Drum & Process Cooler

Operations, Property and/or Equipment Description:

System 2 granulation drum and process cooler with a cyclone and two baghouses

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) b)(1)d. and b)(2)c.

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 3745-17-07(A)	Visible particulate emissions from each stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.
b.	OAC rule 3745-17-11(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
c.	OAC rule 3745-31-05(A)(3) (PTI 01-08436)	<p>Particulate emissions shall not exceed 3.5 pounds per hour and 15.3 tons per year.</p> <p>Particulate emissions from each baghouse shall not exceed 0.005 grain per dry standard cubic foot.</p> <p>PM10 emissions shall not exceed 2.6 pounds per hour and 11.4 tons per year.</p> <p>The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A).</p> <p>See b)(2)a. and b)(2)b. below.</p>
d.	OAC rule 3745-31-05(E) (PTI 01-08436)	<p>Ammonia emissions shall not exceed 88.0 pounds per hour.</p> <p>See b)(2)c. below.</p>



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
e.	40 CFR Part 64 – Compliance Assurance Monitoring (CAM)	See d)(1), d)(3), e)(1)a. and e)(1)c. below.

(2) Additional Terms and Conditions

- a. There shall be no visible fugitive particulate emissions from the building(s) housing this emissions unit. For purposes of verifying compliance with this requirement, the visible particulate emissions shall be observed at any non-stack egress point from the building housing this emissions unit. These egress points shall include, but not be limited to: doorways, windows and roof monitors.
- b. The permittee shall vent the particulate emissions from the granulation drum and process cooler to the baghouse controlling the piece of equipment whenever this emissions unit is in operation.
- c. The hourly emission limitation was established due to an appeal settlement of PTI #01-07992, issued December 27, 2001. Ammonia is an air toxic, and the hourly emission limitation was established to reflect the status quo ammonia emission rate for this emissions unit for future air toxics evaluations that may involve this emissions unit.

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack(s) serving this emissions unit. The daily check shall be performed for a minimum of six consecutive minutes. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. the total duration of any visible emissions incident; and
 - c. any corrective actions taken to 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 (b) 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).

[OAC rule 3745-77-07(A)(3) and 40 CFR Part 64]



- (2) The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
- a. the color of the emissions;
 - b. the total duration of any visible emissions incident; and
 - c. any corrective actions taken to 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 (b) above or continue the weekly 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).

[OAC rule 3745-77-07(A)(3)]

- (3) The CAM plan for this emissions unit has been developed for particulate emissions. The CAM performance indicator for the baghouse(s) controlling this emissions unit is daily 6-minute visible emission checks. When visible emissions are observed from the stack(s) serving this emissions unit, the permittee shall take corrective actions to restore operation of the emissions unit and/or its control equipment to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions, and shall comply with the reporting requirements specified in Section e) below.

[OAC rule 3745-77-07(A)(3) and 40 CFR Part 64]

e) Reporting Requirements

- (1) The permittee shall submit semiannual written reports that identify:
- a. all days during which any visible particulate emissions were observed from the stacks serving this emissions unit;
 - b. all days during which any visible emissions of fugitive dust were observed from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit; and
 - c. any corrective actions taken to eliminate the visible particulate emissions from the stack and/or visible emissions of fugitive dust.

These reports shall be submitted to the director (Ohio EPA, Central District Office) by January 31 and July 31 of each year and shall cover the previous 6-month period.

[OAC rule 3745-77-07(A)(3)(c) and 40 CFR Part 64.9]



- (2) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[OAC rule 3745-77-07(A)(3)(c)]

f) Testing Requirements

- (1) The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
- a. The emission testing shall be conducted approximately 2.5 years after permit issuance.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable grain loading and mass emission rates for particulates and PM10.
 - c. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates: 40 CFR Part 60, Appendix A, Methods 1-4 and 5 for particulate emissions and Method 201 or 201A for PM10 emissions. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
 - d. The test shall be conducted under those representative conditions that challenge to the fullest extent possible a facility's ability to meet the applicable emissions limit, unless otherwise specified or approved by the Ohio EPA, Central District Office. Although this generally consists of operating the emissions unit at its maximum material input/production rates and results in the highest emission rate of the tested pollutant, there may be circumstances where a lower emissions loading is deemed the most challenging control scenario. Failure to test under these conditions is justification for not accepting the test results as a demonstration of compliance.
 - e. Not later than 30 days prior to the proposed test date, the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Central District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time and date of the test, and the person(s) who will be conducting the test. Failure to submit such notification for review and approval prior to the test may result in the Ohio EPA, Central District Office's refusal to accept the results of the emission test.
 - f. Personnel from the Ohio EPA, Central District Office shall be permitted to witness the test, examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit.
 - g. A comprehensive written report on the results of the emissions test shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Central District Office within 30 days following completion of the test.



The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, Central District Office.

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

a. Emissions Limitation

Visible particulate emissions from each stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method

If required, compliance with the visible particulate emissions limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9.

b. Emissions Limitations

Particulate emissions shall not exceed 3.5 pounds per hour and 15.3 tons per year.

PM10 emissions shall not exceed 2.6 pounds per hour and 11.4 tons per year.

Particulate emissions from each baghouse shall not exceed 0.005 grain per dry standard cubic foot.

Applicable Compliance Method

Emissions testing was conducted for this emissions unit on March 5, 6, 7 and 8, 2007. The emissions test demonstrated compliance with the hourly emissions limitations and the grain loading limitations for this emissions unit.

If required, the permittee shall demonstrate compliance with the grain loading and hourly emissions limitations in accordance with 40 CFR Part 60, Appendix A, Methods 1-4 and 5 for particulate emissions and Method 201 or 201A for PM10 emissions.

Compliance with the annual particulate and PM10 emissions limitations shall be determined by multiplying the hourly emission rates established by the March 5, 6, 7 and 8, 2007 stack tests (0.45 pound per hour for particulate and 0.53 pound per hour for PM10) or the most recent emission test that demonstrated the emission unit was in compliance by the maximum annual hours of operation of 8,760 and dividing by 2,000 pounds per ton to obtain the annual emissions.

c. Emissions Limitation

There shall be no visible fugitive particulate emissions from the building(s) housing this emissions unit.



Applicable Compliance Method

If required, compliance with the visible particulate emissions limitation shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 22.

d. Emission Limitation

Ammonia emissions shall not exceed 88.0 pounds per hour.

Applicable Compliance Method

Emissions testing was conducted for this emissions unit in 1998 and demonstrated compliance with this emission limitation.

If required, compliance with this emission limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and modified Method 5.

g) Miscellaneous Requirements

(1) None.



9. P041, System 3 Product Handling

Operations, Property and/or Equipment Description:

System 3 milling, screening, elevators and conveyors vented to a baghouse

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only:

(1) 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 3745-17-07(A)	Visible particulate emissions from the stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.
b.	OAC rule 3745-17-11(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
c.	OAC rule 3745-31-05(A)(3) (PTI 01-07992)	Particulate and PM10 emissions from the stack serving this emissions unit shall not exceed 0.005 grain per dry standard cubic foot, 0.51 pound per hour and 2.2 tons per year. The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A) and 3745-31-10 through 20.
d.	40 CFR Part 52.21 OAC rule 3745-31-10 through 20 (Best Available Control Technology)	See b)(2)a., b)(2)b. and b)(2)c. below.
e.	40 CFR Part 64 – Compliance Assurance Monitoring (CAM)	See d)(1), d)(4), e)(1)a. and e)(1)c. below.



(2) Additional Terms and Conditions

- a. There shall be no visible fugitive particulate emissions from the building(s) housing this emissions unit. For purposes of verifying compliance with this requirement, the visible particulate emissions shall be observed at any non-stack egress point from the building housing this emissions unit. These egress points shall include, but not be limited to: doorways, windows and roof monitors.
- b. The permittee shall vent the particulate emissions from the emissions unit to the baghouse controlling this emissions unit whenever this emissions unit is in operation.
- c. The particulate and PM10 emissions from the fabric filter shall not exceed 0.005 grain per dry standard cubic foot.

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The daily check shall be performed for a minimum of six consecutive minutes. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. the total duration of any visible emissions incident; and
 - c. any corrective actions taken to 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 (b) 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).

[OAC rule 3745-77-07(A)(3) and 40 CFR Part 64]

- (2) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;



- b. the total duration of any visible emissions incident; and
- c. any corrective actions taken to 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 (b) 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).

The permittee may reduce the frequency of visual observations of fugitive dust for this emissions unit from daily to weekly readings if the following conditions are met:

- d. for 1 full quarter the facility's visual observations indicate no visible fugitive particulate emissions; and
- e. the permittee continues to comply with all the record keeping and monitoring requirements specified above.

The permittee shall revert to daily readings if any visible fugitive particulate emissions are observed.

[OAC rule 3745-77-07(A)(3)]

- (3) Pursuant to OAC Rule 3745-77-07(A)(3)(a)(ii), the following monitoring and record keeping requirements are as stringent as or more stringent than the monitoring and record keeping requirements contained in Permit to Install # 01-07992, issued on December 27, 2001: d)(1) and d)(2). The monitoring and record keeping requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping requirements in the Permit to Install.

[OAC rule 3745-77-07(A)(3)(a)(ii)]

- (4) The CAM plan for this emissions unit has been developed for particulate emissions. The CAM performance indicator for the baghouse controlling this emissions unit is daily 6-minute visible emission checks. When visible emissions are observed from the stack serving this emissions unit, the permittee shall take corrective actions to restore operation of the emissions unit and/or its control equipment to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions, and shall comply with the reporting requirements specified in Section e) below.

[OAC rule 3745-77-07(A)(3) and 40 CFR Part 64]



e) Reporting Requirements

(1) The permittee shall submit semiannual written reports that identify:

- a. all days during which any visible particulate emissions were observed from the stack serving this emissions unit;
- b. all days during which any visible emissions of fugitive dust were observed from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit; and
- c. any corrective actions taken to eliminate the visible particulate emissions from the stack and/or visible emissions of fugitive dust.

These reports shall be submitted to the director (Ohio EPA, Central District Office) by January 31 and July 31 of each year and shall cover the previous 6-month period.

[OAC rule 3745-77-07(A)(3)(c) and 40 CFR Part 64]

(2) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[OAC rule 3745-77-07(A)(3)(c)]

(3) Pursuant to OAC Rule 3745-77-07(A)(3)(a)(ii), the following reporting requirements are as stringent as or more stringent than the reporting requirements contained in Permit to Install # 01-07992, issued on December 27, 2001: e)(1). The reporting requirements contained in the above-referenced Permit to Install are subsumed into the reporting requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying reporting requirements in the Permit to Install.

[OAC rule 3745-77-07(A)(3)(a)(ii)]

f) Testing Requirements

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

a. Emissions Limitation

Visible particulate emissions from the stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method

If required, compliance with the visible particulate emissions limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9.



b. Emissions Limitations

Particulate and PM10 emissions from the stack serving this emissions unit shall not exceed 0.005 grain per dry standard cubic foot, 0.51 pound per hour and 2.2 tons per year.

Applicable Compliance Method

The baghouse controlling emissions unit P041 is shared by emissions units P040 and P042. Therefore, for the purposes of emissions testing, the emissions from the baghouse stack of the emissions units being tested shall not exceed the sum of the emissions limitations for the emissions units that are in operation during the emissions test.

Unless the emissions test is conducted with all emissions units in operation, the number of emissions units in operation during any emissions test shall be representative of the number of emissions units typically in operation.

Emissions testing was conducted for emissions unit P041 on October 30 and 31, 2007. The emissions tests demonstrated compliance with the hourly emissions limitations and the grain loading limitations for this emissions unit.

If required, the permittee shall demonstrate compliance with the grain loading and hourly emissions limitations in accordance with 40 CFR Part 60, Appendix A, Methods 1-4 and 5 for particulate emissions and Method 201 or 201A for PM10 emissions.

Compliance with the annual particulate and PM10 emissions limitations shall be determined by multiplying the hourly emission rates established by the October 30 and 31, 2007 stack tests for P041 (0.43 pound per hour for particulate from P040 and P041; and 0.29 pound per hour for PM10 from P040 and P041) or the most recent stack test that demonstrated the emission unit was in compliance by the maximum annual hours of operation of 8,760 and dividing by 2,000 pounds per ton to obtain the annual emissions.

c. Emissions Limitation

There shall be no visible fugitive particulate emissions from the building(s) housing this emissions unit.

Applicable Compliance Method

If required, compliance with the visible particulate emissions limitation shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 22.

g) Miscellaneous Requirements

- (1) None.



10. P042, System 3 Product Blending

Operations, Property and/or Equipment Description:

System 3 Product Blending vented to a baghouse

- a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only:
 - (1) 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 3745-17-07(A)	Visible particulate emissions from the stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.
b.	OAC rule 3745-17-11(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
c.	OAC rule 3745-31-05(A)(3) (PTI 01-07992)	<p>Particulate and PM10 emissions shall not exceed 0.22 pound per hour and 0.95 ton per year.</p> <p>Organic compound emissions shall not exceed 1.5 pounds per hour and 6.6 tons per year from the pesticide melter/mixer (P053), System 3 blender (P042) and System 4 blender (P052).</p> <p>The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A) and 3745-31-10 through 20.</p>
d.	40 CFR Part 52.21 OAC rule 3745-31-10 through 20 (Best Available Control Technology)	See b)(2)a. and b)(2)b. below.
e.	40 CFR Part 64 – Compliance Assurance Monitoring (CAM)	See d)(1), d)(4) and e)(1)a. and e)(1)c. below.



(2) Additional Terms and Conditions

- a. There shall be no visible fugitive particulate emissions from the building housing this emissions unit. For purposes of verifying compliance with this requirement, the visible particulate emissions shall be observed at any non-stack egress point from the building housing this emissions unit. These egress points shall include, but not be limited to: doorways, windows and roof monitors.
- b. Pursuant to 40 CFR 52.21, the permittee shall vent the emissions from this emissions unit to the baghouse at all times the emissions unit is in operation. The particulate and PM10 emissions from the fabric filter shall not exceed 0.005 grain per dry standard cubic foot.

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The daily check shall be performed for a minimum of six consecutive minutes. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. the total duration of any visible emissions incident; and
 - c. any corrective actions taken to 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 (b) 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).

[OAC rule 3745-77-07(A)(3) and 40 CFR Part 64]

- (2) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. the total duration of any visible emissions incident; and



- c. any corrective actions taken to 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 (b) 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).

The permittee may reduce the frequency of visual observations of fugitive dust for this emissions unit from daily to weekly readings if the following conditions are met:

- d. for 1 full quarter the facility's visual observations indicate no visible fugitive particulate emissions; and
- e. the permittee continues to comply with all the record keeping and monitoring requirements specified above.

The permittee shall revert to daily readings if any visible fugitive particulate emissions are observed.

[OAC rule 3745-77-07(A)(3)]

- (3) Pursuant to OAC Rule 3745-77-07(A)(3)(a)(ii), the following monitoring and record keeping requirements are as stringent as or more stringent than the monitoring and record keeping requirements contained in Permit to Install # 01-07992, issued on December 27, 2001: d)(1) and d)(2). The monitoring and record keeping requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping requirements in the Permit to Install.

[OAC rule 3745-77-07(A)(3)(a)(ii)]

- (4) The CAM plan for this emissions unit has been developed for particulate emissions. The CAM performance indicator for the baghouse controlling this emissions unit is daily 6-minute visible emission checks. When visible emissions are observed from the stack serving this emissions unit, the permittee shall take corrective actions to restore operation of the emissions unit and/or its control equipment to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions, and shall comply with the reporting requirements specified in Section e) below.

[OAC rule 3745-77-07(A)(3) and 40 CFR Part 64]

e) Reporting Requirements

- (1) The permittee shall submit semiannual written reports that identify:
 - a. all days during which any visible particulate emissions were observed from the stack serving this emissions unit;



- b. all days during which any visible emissions of fugitive dust were observed from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit; and
- c. any corrective actions taken to eliminate the visible particulate emissions from the stack and/or visible emissions of fugitive dust.

These reports shall be submitted to the director (Ohio EPA, Central District Office) by January 31 and July 31 of each year and shall cover the previous 6-month period.

[OAC rule 3745-77-07(A)(3)(c) and 40 CFR Part 64.9]

- (2) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[OAC rule 3745-77-07(A)(3)(c)]

- (3) Pursuant to OAC Rule 3745-77-07(A)(3)(a)(ii), the following reporting requirements are as stringent as or more stringent than the reporting requirements contained in Permit to Install # 01-07992, issued on December 27, 2001: e)(1). The reporting requirements contained in the above-referenced Permit to Install are subsumed into the reporting requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying reporting requirements in the Permit to Install.

[OAC rule 3745-77-07(A)(3)(a)(ii)]

f) **Testing Requirements**

- (1) The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
 - a. The emission testing shall be conducted within 12 months after permit issuance.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable grain loading and mass emission rates for particulates and PM10.
 - c. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates: 40 CFR Part 60, Appendix A, Methods 1-4 and 5 for particulate emissions and Method 201 or 201A for PM10 emissions. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
 - d. The test shall be conducted under those representative conditions that challenge to the fullest extent possible a facility's ability to meet the applicable emissions limit, unless otherwise specified or approved by the Ohio EPA, Central District Office. Although this generally consists of operating the emissions unit at its maximum material input/production rates and results in the highest emission rate of the tested pollutant, there may be circumstances where a lower emissions loading is deemed the most challenging control scenario. Failure to test under



these conditions is justification for not accepting the test results as a demonstration of compliance.

- e. Not later than 30 days prior to the proposed test date, the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Central District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time and date of the test, and the person(s) who will be conducting the test. Failure to submit such notification for review and approval prior to the test may result in the Ohio EPA, Central District Office's refusal to accept the results of the emission test.
 - f. Personnel from the Ohio EPA, Central District Office shall be permitted to witness the test, examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit.
 - g. A comprehensive written report on the results of the emissions test shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Central District Office within 30 days following completion of the test. The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, Central District Office.
- (2) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:
- a. Emissions Limitation

Visible particulate emissions from the stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method

If required, compliance with the visible particulate emissions limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9.
 - b. Emissions Limitations

Particulate and PM10 emissions shall not exceed 0.005 grain per dry standard cubic foot, 0.22 pound per hour and 0.95 ton per year.

Applicable Compliance Method

The baghouse controlling emissions unit P042 is shared by emissions units P040 and P041. Therefore, for the purposes of emissions testing, the emissions from the baghouse stack of the emissions units being tested shall not exceed the sum of the emissions limitations for the emissions units that are in operation during the emissions test.



Unless the emissions test is conducted with all emissions units in operation, the number of emissions units in operation during any emissions test shall be representative of the number of emissions units typically in operation.

If required, the permittee shall demonstrate compliance with the grain loading and hourly emissions limitations in accordance with 40 CFR Part 60, Appendix A, Methods 1-4 and 5 for particulate emissions and Method 201 or 201A for PM10 emissions.

Compliance with the annual particulate and PM10 emissions limitations shall be determined by multiplying the hourly emission rates established by the most recent emission test that demonstrated the emission unit was in compliance by the maximum annual hours of operation of 8,760 and dividing by 2,000 pounds per ton to obtain the annual emissions.

c. Emissions Limitation

Organic compound emissions shall not exceed 1.5 pounds per hour and 6.6 tons per year from the pesticide melter/mixer (P053), System 3 blender (P042) and System 4 blender (P052).

Applicable Compliance Method

Emissions testing was conducted for emissions unit P052 on December 21, 2004. The emissions test demonstrated compliance with the hourly emissions limitation for these identical emissions units.

If required, the permittee shall demonstrate compliance with the hourly emissions limitation in accordance with 40 CFR Part 60, Appendix A, Methods 18, 25, and/or 25A

Compliance with the annual emissions limitation shall be determined by multiplying the hourly emission rates established by the December 21, 2004 stack test (0.007 pound per hour) or the most recent emission test that demonstrated the emission unit was in compliance by the maximum annual hours of operation of 8,760 and dividing by 2,000 pounds per ton to obtain the annual emissions.

d. Emissions Limitation

There shall be no visible fugitive particulate emissions from the building housing this emissions unit.

Applicable Compliance Method

If required, compliance with the visible particulate emissions limitation shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 22.



Final Title V Permit
The Scotts Co.
Permit Number: P0083902
Facility ID: 0180010008
Effective Date: 7/19/2013

g) Miscellaneous Requirements

(1) None.



11. P043, Systems 1,2 and 3 Packaging

Operations, Property and/or Equipment Description:

Systems 1,2 and 3 Packaging Operations vented to baghouses

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) 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 3745-17-07(A)	Visible particulate emissions from each stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.
b.	OAC rule 3745-17-11(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
c.	OAC rule 3745-31-05(A)(3) (PTI 01-07992)	<p>Particulate emissions from each stack serving this emissions unit shall not exceed 1.54 pounds per hour and 6.8 tons per year.</p> <p>PM10 emissions from each stack serving this emissions unit shall not exceed 1.14 pounds per hour and 5.0 tons per year.</p> <p>The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A) and 3745-31-10 through 20.</p>
d.	40 CFR Part 52.21 OAC rule 3745-31-10 through 20 (Best Available Control Technology)	See b)(2)a. and b)(2)b. below.



(2) Additional Terms and Conditions

- a. There shall be no visible fugitive particulate emissions from the building(s) housing this emissions unit. For purposes of verifying compliance with this requirement, the visible particulate emissions shall be observed at any non-stack egress point from the building housing this emissions unit. These egress points shall include, but not be limited to: doorways, windows and roof monitors.
- b. Pursuant to 40 CFR 52.21, the permittee shall vent the emissions from this emissions unit to the baghouse at all times the emissions unit is in operation. The particulate and PM10 emissions from the fabric filter shall not exceed 0.005 grain per dry standard cubic foot.

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack(s) and for any visible emissions of fugitive dust from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the location and color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emissions incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.

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

The permittee may reduce the frequency of visual observations of fugitive dust for this emissions unit from daily to weekly readings if the following conditions are met:



- f. for 1 full quarter the facility's visual observations indicate no visible fugitive particulate emissions; and
- g. the permittee continues to comply with all the record keeping and monitoring requirements specified above.

The permittee shall revert to daily readings if any visible fugitive particulate emissions are observed.

[OAC rule 3745-77-07(A)(3)]

- (2) Pursuant to OAC Rule 3745-77-07(A)(3)(a)(ii), the following monitoring and record keeping requirements are as stringent as or more stringent than the monitoring and record keeping requirements contained in Permit to Install # 01-07992, issued on December 27, 2001: d)(1). The monitoring and record keeping requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping requirements in the Permit to Install.

[OAC rule 3745-77-07(A)(3)(a)(ii)]

e) Reporting Requirements

- (1) The permittee shall submit semiannual written reports that identify:
 - a. all days during which any visible particulate emissions were observed from the stacks serving this emissions unit;
 - b. all days during which any visible emissions of fugitive dust were observed from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit; and
 - c. any corrective actions taken to minimize or eliminate the visible particulate emissions from the stack and/or visible emissions of fugitive dust.

These reports shall be submitted to the director (Ohio EPA, Central District Office) by January 31 and July 31 of each year and shall cover the previous 6-month period.

[OAC rule 3745-77-07(A)(3)(c)]

- (2) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[OAC rule 3745-77-07(A)(3)(c)]

- (3) Pursuant to OAC Rule 3745-77-07(A)(3)(a)(ii), the following reporting requirements are as stringent as or more stringent than the reporting requirements contained in Permit to Install # 01-07992, issued on December 27, 2001: e)(1). The reporting requirements contained in the above-referenced Permit to Install are subsumed into the reporting



requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying reporting requirements in the Permit to Install.

[OAC rule 3745-77-07(A)(3)(a)(ii)]

f) Testing Requirements

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

a. Emissions Limitation

Visible particulate emissions from each stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method

If required, compliance with the visible particulate emissions limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9.

b. Emissions Limitations

Particulate emissions from the stack serving this emissions unit shall not exceed 0.005 grain per dry standard cubic foot, 1.54 pounds per hour and 6.8 tons per year.

PM10 emissions from the stack serving this emissions unit shall not exceed 0.005 grain per dry standard cubic foot, 1.14 pounds per hour and 5.0 tons per year.

Applicable Compliance Method

Emissions testing was conducted for this emissions unit on May 7, 8 and 9, 2007. The emissions test demonstrated compliance with the hourly emissions limitations and the grain loading limitations for this emissions unit.

If required, the permittee shall demonstrate compliance with the grain loading and hourly emissions limitations in accordance with 40 CFR Part 60, Appendix A, Methods 1-4 and 5 for particulate emissions and Method 201 or 201A for PM10 emissions.

Compliance with the annual particulate and PM10 emissions limitations shall be determined by multiplying the hourly emission rates established by the May 7, 8 and 9, 2007 stack tests (0.006 pound per hour for particulate from System 1, 0.01 pound per hour for PM10 from System 1, 0.054 pound per hour for particulate from System 2, 0.07 pound per hour for PM10 from System 2, 0.22 pound per hour for particulate from System 3, and 0.05 pound per hour for PM10 from System 3) or the most recent emission test that demonstrated the emission unit was in compliance by the maximum annual hours of operation of 8,760 and dividing by 2,000 pounds per ton to obtain the annual emissions.



c. Emissions Limitation

There shall be no visible fugitive particulate emissions from the building(s) housing this emissions unit.

Applicable Compliance Method

If required, compliance with the visible particulate emissions limitation shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 22.

g) Miscellaneous Requirements

(1) None.



12. P044, Systems 3 & 4- Monamonimum phosphate & potash system

Operations, Property and/or Equipment Description:

Systems 3 & 4 Mon-A-Mon & Potash Handling/unloading vented to a baghouse

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) 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 3745-17-07(A)	Visible particulate emissions from the stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.
b.	OAC rule 3745-17-11(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
c.	OAC rule 3745-31-05(A)(3) (PTI 01-07992)	<p>Particulate emissions from the stack and fugitives combined shall not exceed 1.4 pounds per hour and 6.1 tons per year.</p> <p>PM10 emissions from the stack and fugitives combined shall not exceed 1.1 pounds per hour and 4.6 tons per year.</p> <p>The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A) and 3745-31-10 through 20.</p> <p>See b)(2)a. below.</p>
d.	40 CFR Part 52.21 OAC rule 3745-31-10 through 20 (Best Available Control Technology)	See b)(2)b. and b)(2)c. below.



(2) Additional Terms and Conditions

- a. Visible fugitive particulate emissions shall not exceed 20 percent opacity as a three-minute average.
- b. Pursuant to 40 CFR 52.21, the permittee shall vent the emissions from this emissions unit to a fabric filter that is sufficient to minimize or eliminate visible emissions of fugitive dust. The particulate and PM10 emissions from the fabric filter shall not exceed 0.005 grain per dry standard cubic foot.

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack and for any visible emissions of fugitive dust from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the location and color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emissions incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.

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

The permittee may reduce the frequency of visual observations of fugitive dust for this emissions unit from daily to weekly readings if the following conditions are met:

- f. for 1 full quarter the facility's visual observations indicate no visible fugitive particulate emissions; and



- g. the permittee continues to comply with all the record keeping and monitoring requirements specified above.

The permittee shall revert to daily readings if any visible fugitive particulate emissions are observed.

[OAC rule 3745-77-07(A)(3)]

- (2) Pursuant to OAC Rule 3745-77-07(A)(3)(a)(ii), the following monitoring and record keeping requirements are as stringent as or more stringent than the monitoring and record keeping requirements contained in Permit to Install # 01-07992, issued on December 27, 2001: d)(1). The monitoring and record keeping requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping requirements in the Permit to Install.

[OAC rule 3745-77-07(A)(3)(a)(ii)]

- (3) The permittee shall maintain monthly records of the operating hours and production (in pounds or tons) for this emissions unit.

[OAC rule 3745-77-07(A)(3)(a)(ii)]

- (4) The permittee shall maintain annual records of the operating hours and production (in tons) for this emissions unit (i.e. the summation of the monthly operating hours and production).

[OAC rule 3745-77-07(A)(3)(a)(ii)]

e) Reporting Requirements

- (1) The permittee shall submit semiannual written reports that identify:
 - a. all days during which any visible particulate emissions were observed from the stack serving this emissions unit;
 - b. all days during which any visible emissions of fugitive dust were observed from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit; and
 - c. any corrective actions taken to minimize or eliminate the visible particulate emissions from the stack and/or visible emissions of fugitive dust.

These reports shall be submitted to the director (Ohio EPA, Central District Office) by January 31 and July 31 of each year and shall cover the previous 6-month period.

[OAC rule 3745-77-07(A)(3)(c)]



- (2) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[OAC rule 3745-77-07(A)(3)(c)]

- (3) Pursuant to OAC Rule 3745-77-07(A)(3)(a)(ii), the following reporting requirements are as stringent as or more stringent than the reporting requirements contained in Permit to Install # 01-07992, issued on December 27, 2001: e)(1). The reporting requirements contained in the above-referenced Permit to Install are subsumed into the reporting requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying reporting requirements in the Permit to Install.

[OAC rule 3745-77-07(A)(3)(a)(ii)]

f) Testing Requirements

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

a. Emissions Limitation

Visible particulate emissions from the stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method

If required, compliance with the visible particulate emissions limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9.

b. Emissions Limitations

Particulate emissions from the stack and fugitives combined shall not exceed 1.4 pounds per hour and 6.1 tons per year.

PM10 emissions from the stack and fugitives combined shall not exceed 1.1 pounds per hour and 4.6 tons per year.

Particulate and PM10 emissions from the fabric filter shall not exceed 0.005 grain per dry standard cubic foot.

Applicable Compliance Method

The baghouse controlling this emissions unit is shared by emissions units P045, P046, P049, P051 and P052. Therefore, for the purposes of emissions testing, the emissions from the baghouse stack of this emissions unit shall not exceed the sum of the emissions limitations for the emissions units that are in operation during the emissions test.



Unless the emissions test is conducted with all six emissions units in operation, the number of emissions units in operation during any emissions test shall be representative of the number of emissions units typically in operation.

Emissions testing was conducted for this emissions unit on December 18 and 19, 2006. The emissions test demonstrated compliance with the hourly emissions limitations and the grain loading limitations for this emissions unit.

If required, the permittee shall demonstrate compliance with the grain loading and hourly emissions limitations in accordance with 40 CFR Part 60, Appendix A, Methods 1-4 and 5 for particulate emissions and Method 201 or 201A for PM10 emissions.

Compliance with the annual particulate and PM10 emissions limitations shall be determined by summing the annual fugitive and stack emissions. Stack emissions shall be determined by multiplying the hourly emission rates established by the December 18 and 19, 2006 stack tests (0.66 pound per hour for particulate from P044, P045, P046, P051 and P052; and 0.38 pound per hour for PM10 from P044, P045, P046, P051 and P052) or the most recent emission test that demonstrated the emission unit was in compliance by the actual number of operating hours recorded in d)(4) above and dividing by 2,000 pounds per ton to obtain the annual emissions. Fugitive particulate and PM10 emissions shall be calculated using the following equation.

Fugitive PE/PM10 = (Emission Factor) x (Annual Production) x (100% – Capture Efficiency) / (2,000 lb/ton), where:

Emission Factor = 0.2 pound of PE/PM10 per tons of material processed (based on the Ohio EPA RACM document, Figure 2.12-3)

Annual Production = Actual annual production, as recorded in d)(4)

Capture Efficiency = 94%

Alternate emission factors may be used with prior approval from the Ohio EPA.

c. Emissions Limitation

Visible fugitive particulate emissions shall not exceed 20 percent opacity as a three-minute average.

Applicable Compliance Method

If required, compliance with the visible particulate emissions limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9 and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.



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g) Miscellaneous Requirements

(1) None.



13. P045, Systems 3 & 4-Raw Material Handling Handling System

Operations, Property and/or Equipment Description:

Systems 3 & 4 raw material unloading/handling vented to a baghouse

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) 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 3745-17-07(A)	Visible particulate emissions from the stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.
b.	OAC rule 3745-17-11(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
c.	OAC rule 3745-31-05(A)(3) (PTI 01-07992)	<p>Particulate emissions from the stack and fugitives combined shall not exceed 1.0 pound per hour and 4.4 tons per year.</p> <p>PM10 emissions from the stack and fugitives combined shall not exceed 0.9 pound per hour and 3.9 tons per year.</p> <p>The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A) and 3745-31-10 through 20.</p> <p>See b)(2)a. below.</p>
d.	40 CFR Part 52.21 OAC rule 3745-31-10 through 20 (Best Available Control Technology)	See b)(2)b. below.



(2) Additional Terms and Conditions

- a. Visible fugitive particulate emissions shall not exceed 20 percent opacity as a three-minute average.
- b. Pursuant to 40 CFR 52.21, the permittee shall vent the emissions from this emissions unit to a fabric filter that is sufficient to minimize or eliminate visible emissions of fugitive dust. The particulate and PM10 emissions from the fabric filter shall not exceed 0.005 grain per dry standard cubic foot.

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack and for any visible emissions of fugitive dust from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the location and color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emissions incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.

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

The permittee may reduce the frequency of visual observations of fugitive dust for this emissions unit from daily to weekly readings if the following conditions are met:

- f. for 1 full quarter the facility's visual observations indicate no visible fugitive particulate emissions; and



- g. the permittee continues to comply with all the record keeping and monitoring requirements specified above.

The permittee shall revert to daily readings if any visible fugitive particulate emissions are observed.

[OAC rule 3745-77-07(A)(3)]

- (2) Pursuant to OAC Rule 3745-77-07(A)(3)(a)(ii), the following monitoring and record keeping requirements are as stringent as or more stringent than the monitoring and record keeping requirements contained in Permit to Install # 01-07992, issued on December 27, 2001: d)(1). The monitoring and record keeping requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping requirements in the Permit to Install.

[OAC rule 3745-77-07(A)(3)(a)(ii)]

- (3) The permittee shall maintain monthly records of the operating hours and production (in pounds or tons) for this emissions unit.

[OAC rule 3745-77-07(A)(3)(a)(ii)]

- (4) The permittee shall maintain annual records of the operating hours and production (in tons) for this emissions unit (i.e. the summation of the monthly operating hours and production).

[OAC rule 3745-77-07(A)(3)(a)(ii)]

e) Reporting Requirements

- (1) The permittee shall submit semiannual written reports that identify:
 - a. all days during which any visible particulate emissions were observed from the stack serving this emissions unit;
 - b. all days during which any visible emissions of fugitive dust were observed from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit; and
 - c. any corrective actions taken to minimize or eliminate the visible particulate emissions from the stack and/or visible emissions of fugitive dust.

These reports shall be submitted to the director (Ohio EPA, Central District Office) by January 31 and July 31 of each year and shall cover the previous 6-month period.

[OAC rule 3745-77-07(A)(3)(c)]



- (2) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[OAC rule 3745-77-07(A)(3)(c)]

- (3) Pursuant to OAC Rule 3745-77-07(A)(3)(a)(ii), the following reporting requirements are as stringent as or more stringent than the reporting requirements contained in Permit to Install # 01-07992, issued on December 27, 2001: e)(1). The reporting requirements contained in the above-referenced Permit to Install are subsumed into the reporting requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying reporting requirements in the Permit to Install.

[OAC rule 3745-77-07(A)(3)(a)(ii)]

f) Testing Requirements

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

a. Emissions Limitation

Visible particulate emissions from the stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method

If required, compliance with the visible particulate emissions limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9.

b. Emissions Limitations

Particulate emissions from the stack and fugitives combined shall not exceed 1.0 pound per hour and 4.4 tons per year.

PM10 emissions from the stack and fugitives combined shall not exceed 0.9 pound per hour and 3.9 tons per year.

Particulate and PM10 emissions from the fabric filter shall not exceed 0.005 grain per dry standard cubic foot.

Applicable Compliance Method

The baghouse controlling this emissions unit is shared by emissions units P044, P046, P049, P051 and P052. Therefore, for the purposes of emissions testing, the emissions from the baghouse stack of this emissions unit shall not exceed the sum of the emissions limitations for the emissions units that are in operation during the emissions test.



Unless the emissions test is conducted with all six emissions units in operation, the number of emissions units in operation during any emissions test shall be representative of the number of emissions units typically in operation.

Emissions testing was conducted for this emissions unit on December 18 and 19, 2006. The emissions test demonstrated compliance with the hourly emissions limitations and the grain loading limitations for this emissions unit.

If required, the permittee shall demonstrate compliance with the grain loading and hourly emissions limitations in accordance with 40 CFR Part 60, Appendix A, Methods 1-4 and 5 for particulate emissions and Method 201 or 201A for PM10 emissions.

Compliance with the annual particulate and PM10 emissions limitations shall be determined by summing the annual fugitive and stack emissions. Stack emissions shall be determined by multiplying the hourly emission rates established by the December 18 and 19, 2006 stack tests (0.66 pound per hour for particulate from P044, P045, P046, P051 and P052; and 0.38 pound per hour for PM10 from P044, P045, P046, P051 and P052) or the most recent emission test that demonstrated the emission unit was in compliance by the actual number of operating hours recorded in d)(4) above and dividing by 2,000 pounds per ton to obtain the annual emissions. Fugitive particulate and PM10 emissions shall be calculated using the following equation.

Fugitive PE/PM10 = (Emission Factor) x (Annual Production) x (100% – Capture Efficiency) / (2,000 lb/ton), where:

Emission Factor = 0.2 pound of PE/PM10 per tons of material processed (based on the Ohio EPA RACM document, Table 2.12-1 for Fertilizer Mixing/Blending Plants)

Annual Production = Actual annual production, as recorded in d)(4)

Capture Efficiency = 94%

Alternate emission factors may be used with prior approval from the Ohio EPA.

c. Emissions Limitation

Visible fugitive particulate emissions shall not exceed 20 percent opacity as a three-minute average.

Applicable Compliance Method

If required, compliance with the visible particulate emissions limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9 and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.



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g) Miscellaneous Requirements

(1) None.



14. P046, Systems 3 & 4- Urea Handling/Unloading

Operations, Property and/or Equipment Description:

Systems 3 & 4 Urea Handling/Unloading vented to a baghouse

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) 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 3745-17-07(A)	Visible particulate emissions from the stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.
b.	OAC rule 3745-17-11(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
c.	OAC rule 3745-31-05(A)(3) (PTI 01-07992)	<p>Particulate emissions from the stack and fugitives combined shall not exceed 0.25 pound per hour and 1.1 tons per year.</p> <p>PM10 emissions from the stack and fugitives combined shall not exceed 0.19 pound per hour and 0.8 ton per year.</p> <p>The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A) and 3745-31-10 through 20.</p> <p>See b)(2)a. below.</p>
d.	40 CFR Part 52.21 OAC rule 3745-31-10 through 20 (Best Available Control Technology)	See b)(2)b. below.



(2) Additional Terms and Conditions

- a. Visible fugitive particulate emissions shall not exceed 20 percent opacity as a three-minute average.
- b. Pursuant to 40 CFR 52.21, the permittee shall vent the emissions from this emissions unit to a fabric filter that is sufficient to minimize or eliminate visible emissions of fugitive dust. The particulate and PM10 emissions from the fabric filter shall not exceed 0.005 grain per dry standard cubic foot.

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack and for any visible emissions of fugitive dust from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the location and color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emissions incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.

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

The permittee may reduce the frequency of visual observations of fugitive dust for this emissions unit from daily to weekly readings if the following conditions are met:

- f. for 1 full quarter the facility's visual observations indicate no visible fugitive particulate emissions; and



- g. the permittee continues to comply with all the record keeping and monitoring requirements specified above.

The permittee shall revert to daily readings if any visible fugitive particulate emissions are observed.

[OAC rule 3745-77-07(A)(3)]

- (2) Pursuant to OAC Rule 3745-77-07(A)(3)(a)(ii), the following monitoring and record keeping requirements are as stringent as or more stringent than the monitoring and record keeping requirements contained in Permit to Install # 01-07992, issued on December 27, 2001: d)(1). The monitoring and record keeping requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping requirements in the Permit to Install.

[OAC rule 3745-77-07(A)(3)(a)(ii)]

- (3) The permittee shall maintain monthly records of the operating hours and production (in pounds or tons) for this emissions unit.

[OAC rule 3745-77-07(A)(3)(a)(ii)]

- (4) The permittee shall maintain annual records of the operating hours and production (in tons) for this emissions unit (i.e. the summation of the monthly operating hours and production).

[OAC rule 3745-77-07(A)(3)(a)(ii)]

e) Reporting Requirements

- (1) The permittee shall submit semiannual written reports that identify:
 - a. all days during which any visible particulate emissions were observed from the stack serving this emissions unit;
 - b. all days during which any visible emissions of fugitive dust were observed from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit; and
 - c. any corrective actions taken to minimize or eliminate the visible particulate emissions from the stack and/or visible emissions of fugitive dust.

These reports shall be submitted to the director (Ohio EPA, Central District Office) by January 31 and July 31 of each year and shall cover the previous 6-month period.

[OAC rule 3745-77-07(A)(3)(c)]



- (2) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[OAC rule 3745-77-07(A)(3)(c)]

- (3) Pursuant to OAC Rule 3745-77-07(A)(3)(a)(ii), the following reporting requirements are as stringent as or more stringent than the reporting requirements contained in Permit to Install # 01-07992, issued on December 27, 2001: e)(1). The reporting requirements contained in the above-referenced Permit to Install are subsumed into the reporting requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying reporting requirements in the Permit to Install.

[OAC rule 3745-77-07(A)(3)(a)(ii)]

f) Testing Requirements

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

a. Emissions Limitation

Visible particulate emissions from the stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method

If required, compliance with the visible particulate emissions limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9.

b. Emissions Limitations

Particulate emissions from the stack and fugitives combined shall not exceed 0.25 pound per hour and 1.1 tons per year.

PM10 emissions from the stack and fugitives combined shall not exceed 0.19 pound per hour and 0.8 ton per year.

Particulate and PM10 emissions from the fabric filter shall not exceed 0.005 grain per dry standard cubic foot.

Applicable Compliance Method

The baghouse controlling this emissions unit is shared by emissions units P044, P045, P049, P051 and P052. Therefore, for the purposes of emissions testing, the emissions from the baghouse stack of this emissions unit shall not exceed the sum of the emissions limitations for the emissions units that are in operation during the emissions test.



Unless the emissions test is conducted with all six emissions units in operation, the number of emissions units in operation during any emissions test shall be representative of the number of emissions units typically in operation.

Emissions testing was conducted for this emissions unit on December 18 and 19, 2006. The emissions test demonstrated compliance with the hourly emissions limitations and the grain loading limitations for this emissions unit.

If required, the permittee shall demonstrate compliance with the grain loading and hourly emissions limitations in accordance with 40 CFR Part 60, Appendix A, Methods 1-4 and 5 for particulate emissions and Method 201 or 201A for PM10 emissions.

Compliance with the annual particulate and PM10 emissions limitations shall be determined by summing the annual fugitive and stack emissions. Stack emissions shall be determined by multiplying the hourly emission rates established by the December 18 and 19, 2006 stack tests (0.66 pound per hour for particulate from P044, P045, P046, P051 and P052; and 0.38 pound per hour for PM10 from P044, P045, P046, P051 and P052) or the most recent emission test that demonstrated the emission unit was in compliance by the actual number of operating hours recorded in d)(4) above and dividing by 2,000 pounds per ton to obtain the annual emissions. Fugitive particulate and PM10 emissions shall be calculated using the following equation.

Fugitive PE/PM10 = (Emission Factor) x (Annual Production) x (100% – Capture Efficiency) / (2,000 lb/ton), where:

Emission Factor = 0.02 pound of PE/PM10 per tons of material processed (based on WebFIRE for SCC 30104007)

Annual Production = Actual annual production, as recorded in d)(4)

Capture Efficiency = 94%

Alternate emission factors may be used with prior approval from the Ohio EPA.

c. Emissions Limitation

Visible fugitive particulate emissions shall not exceed 20 percent opacity as a three-minute average.

Applicable Compliance Method

If required, compliance with the visible particulate emissions limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9 and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.



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g) Miscellaneous Requirements

(1) None.



15. P050, System 4- Packaging Operations

Operations, Property and/or Equipment Description:

System 4 Packaging Operations vented to a baghouse

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) 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 3745-17-07(A)	Visible particulate emissions from the stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.
b.	OAC rule 3745-17-11(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
c.	OAC rule 3745-31-05(A)(3) (PTI 01-07992)	<p>Particulate emissions from the stack serving this emissions unit shall not exceed 0.51 pound per hour and 2.25 tons per year.</p> <p>PM10 emissions from the stack serving this emissions unit shall not exceed 0.38 pound per hour and 1.67 tons per year.</p> <p>The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A) and 3745-31-10 through 20.</p>
d.	40 CFR Part 52.21 OAC rule 3745-31-10 through 20 (Best Available Control Technology)	See b)(2)a. and b)(2)b. below.



(2) Additional Terms and Conditions

- a. There shall be no visible fugitive particulate emissions from the building housing this emissions unit. For purposes of verifying compliance with this requirement, the visible particulate emissions shall be observed at any non-stack egress point from the building housing this emissions unit. These egress points shall include, but not be limited to: doorways, windows and roof monitors.
- b. Pursuant to 40 CFR 52.21, the permittee shall vent the emissions from this emissions unit to the baghouse at all times the emissions unit is in operation. The particulate and PM10 emissions from the fabric filter shall not exceed 0.005 grain per dry standard cubic foot.

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack and for any visible emissions of fugitive dust from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the location and color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emissions incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.

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

The permittee may reduce the frequency of visual observations of fugitive dust for this emissions unit from daily to weekly readings if the following conditions are met:



- f. for 1 full quarter the facility's visual observations indicate no visible fugitive particulate emissions; and
- g. the permittee continues to comply with all the record keeping and monitoring requirements specified above.

The permittee shall revert to daily readings if any visible fugitive particulate emissions are observed.

[OAC rule 3745-77-07(A)(3)]

- (2) Pursuant to OAC Rule 3745-77-07(A)(3)(a)(ii), the following monitoring and record keeping requirements are as stringent as or more stringent than the monitoring and record keeping requirements contained in Permit to Install # 01-07992, issued on December 27, 2001: d)(1). The monitoring and record keeping requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping requirements in the Permit to Install.

[OAC rule 3745-77-07(A)(3)(a)(ii)]

e) Reporting Requirements

- (1) The permittee shall submit semiannual written reports that identify:
 - a. all days during which any visible particulate emissions were observed from the stack serving this emissions unit;
 - b. all days during which any visible emissions of fugitive dust were observed from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit; and
 - c. any corrective actions taken to minimize or eliminate the visible particulate emissions from the stack and/or visible emissions of fugitive dust.

These reports shall be submitted to the director (Ohio EPA, Central District Office) by January 31 and July 31 of each year and shall cover the previous 6-month period.

[OAC rule 3745-77-07(A)(3)(c)]

- (2) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[OAC rule 3745-77-07(A)(3)(c)]

- (3) Pursuant to OAC Rule 3745-77-07(A)(3)(a)(ii), the following reporting requirements are as stringent as or more stringent than the reporting requirements contained in Permit to Install # 01-07992, issued on December 27, 2001: e)(1). The reporting requirements contained in the above-referenced Permit to Install are subsumed into the reporting



requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying reporting requirements in the Permit to Install.

[OAC rule 3745-77-07(A)(3)(a)(ii)]

f) Testing Requirements

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

a. Emissions Limitation

Visible particulate emissions from the stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method

If required, compliance with the visible particulate emissions limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9.

b. Emissions Limitations

Particulate emissions from the stack serving this emissions unit shall not exceed 0.005 grain per dry standard cubic foot, 0.51 pound per hour and 2.25 tons per year.

PM10 emissions from the stack serving this emissions unit shall not exceed 0.005 grain per dry standard cubic foot, 0.38 pound per hour and 1.67 tons per year.

Applicable Compliance Method

Emissions testing was conducted for this emissions unit on December 19 and 20, 2006. The emissions test demonstrated compliance with the hourly emissions limitations and the grain loading limitations for this emissions unit.

If required, the permittee shall demonstrate compliance with the grain loading and hourly emissions limitations in accordance with 40 CFR Part 60, Appendix A, Methods 1-4 and 5 for particulate emissions and Method 201 or 201A for PM10 emissions.

Compliance with the annual particulate and PM10 emissions limitations shall be determined by multiplying the hourly emission rates established by the December 19 and 20, 2006 stack tests (0.06 pound per hour for particulate and 0.039 pound per hour for PM10) or the most recent emission test that demonstrated the emission unit was in compliance by the maximum annual hours of operation of 8,760 and dividing by 2,000 pounds per ton to obtain the annual emissions.



c. Emissions Limitation

There shall be no visible fugitive particulate emissions from the building housing this emissions unit.

Applicable Compliance Method

If required, compliance with the visible particulate emissions limitation shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 22.

d. None.

g) Miscellaneous Requirements

(1) None.



16. P051, System 4- Product Handling

Operations, Property and/or Equipment Description:

System 4 milling, screening, elevators and conveyors vented to a baghouse

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only:

(1) 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 3745-17-07(A)	Visible particulate emissions from the stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.
b.	OAC rule 3745-17-11(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
c.	OAC rule 3745-31-05(A)(3) (PTI 01-07992)	Particulate and PM10 emissions from the stack serving this emissions unit shall not exceed 0.005 grain per dry standard cubic foot, 0.51 pound per hour and 2.2 tons per year. The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A) and 3745-31-10 through 20.
d.	40 CFR Part 52.21 OAC rule 3745-31-10 through 20 (Best Available Control Technology)	See b)(2)a. and b)(2)b. below.

(2) Additional Terms and Conditions

a. There shall be no visible fugitive particulate emissions from the building(s) housing this emissions unit. For purposes of verifying compliance with this requirement, the visible particulate emissions shall be observed at any non-stack



egress point from the building housing this emissions unit. These egress points shall include, but not be limited to: doorways, windows and roof monitors.

- b. Pursuant to 40 CFR 52.21, the permittee shall vent the emissions from this emissions unit to the baghouse at all times the emissions unit is in operation. The particulate and PM10 emissions from the fabric filter shall not exceed 0.005 grain per dry standard cubic foot.
- c) Operational Restrictions
 - (1) None.
- d) Monitoring and/or Recordkeeping Requirements
 - (1) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack and for any visible emissions of fugitive dust from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the location and color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emissions incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.

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

The permittee may reduce the frequency of visual observations of fugitive dust for this emissions unit from daily to weekly readings if the following conditions are met:

- f. for 1 full quarter the facility's visual observations indicate no visible fugitive particulate emissions; and
- g. the permittee continues to comply with all the record keeping and monitoring requirements specified above.



The permittee shall revert to daily readings if any visible fugitive particulate emissions are observed.

[OAC rule 3745-77-07(A)(3)]

- (2) Pursuant to OAC Rule 3745-77-07(A)(3)(a)(ii), the following monitoring and record keeping requirements are as stringent as or more stringent than the monitoring and record keeping requirements contained in Permit to Install # 01-07992, issued on December 27, 2001: d)(1). The monitoring and record keeping requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping requirements in the Permit to Install.

[OAC rule 3745-77-07(A)(3)(a)(ii)]

e) Reporting Requirements

- (1) The permittee shall submit semiannual written reports that identify:
 - a. all days during which any visible particulate emissions were observed from the stack serving this emissions unit;
 - b. all days during which any visible emissions of fugitive dust were observed from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit; and
 - c. any corrective actions taken to minimize or eliminate the visible particulate emissions from the stack and/or visible emissions of fugitive dust.

These reports shall be submitted to the director (Ohio EPA, Central District Office) by January 31 and July 31 of each year and shall cover the previous 6-month period.

[OAC rule 3745-77-07(A)(3)(c)]

- (2) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[OAC rule 3745-77-07(A)(3)(c)]

- (3) Pursuant to OAC Rule 3745-77-07(A)(3)(a)(ii), the following reporting requirements are as stringent as or more stringent than the reporting requirements contained in Permit to Install # 01-07992, issued on December 27, 2001: e)(1). The reporting requirements contained in the above-referenced Permit to Install are subsumed into the reporting requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying reporting requirements in the Permit to Install.

[OAC rule 3745-77-07(A)(3)(a)(ii)]



f) Testing Requirements

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

a. Emissions Limitation

Visible particulate emissions from the stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method

If required, compliance with the visible particulate emissions limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9.

b. Emissions Limitations

Particulate and PM10 emissions from the stack serving this emissions unit shall not exceed 0.005 grain per dry standard cubic foot, 0.51 pound per hour and 2.2 tons per year.

Applicable Compliance Method

The baghouse controlling emissions unit P051 is shared by emissions units P044, P045, P046, P049 and P052. Therefore, for the purposes of emissions testing, the emissions from the baghouse stack of the emissions units being tested shall not exceed the sum of the emissions limitations for the emissions units that are in operation during the emissions test.

Unless the emissions test is conducted with all emissions units in operation, the number of emissions units in operation during any emissions test shall be representative of the number of emissions units typically in operation.

Emissions testing was conducted for this emissions unit on December 18 and 19, 2006. The emissions tests demonstrated compliance with the hourly emissions limitations and the grain loading limitations for this emissions unit.

If required, the permittee shall demonstrate compliance with the grain loading and hourly emissions limitations in accordance with 40 CFR Part 60, Appendix A, Methods 1-4 and 5 for particulate emissions and Method 201 or 201A for PM10 emissions.

Compliance with the annual particulate and PM10 emissions limitations shall be determined by multiplying the hourly emission rates established by the December 18 and 19, 2006 stack tests (0.66 pound per hour for particulate from P044, P045, P046, P051 and P052; and 0.38 pound per hour for PM10 from P044, P045, P046, P051 and P052) or the most recent emission test that demonstrated the emission unit was in compliance by the maximum annual hours of operation of 8,760 and dividing by 2,000 pounds per ton to obtain the annual emissions.



c. Emissions Limitation

There shall be no visible fugitive particulate emissions from the building(s) housing this emissions unit.

Applicable Compliance Method

If required, compliance with the visible particulate emissions limitation shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 22.

g) Miscellaneous Requirements

(1) None.



17. P052, System 4-Blending

Operations, Property and/or Equipment Description:

System 4 Product Blending vented to a baghouse

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only:

(1) 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 3745-17-07(A)	Visible particulate emissions from the stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.
b.	OAC rule 3745-17-11(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
c.	OAC rule 3745-31-05(A)(3) (PTI 01-07992)	<p>Particulate and PM10 emissions shall not exceed 0.22 pound per hour and 0.95 ton per year.</p> <p>Organic compound emissions shall not exceed 1.5 pounds per hour and 6.6 tons per year from the pesticide melter/mixer (P053), System 3 blender (P042) and System 4 blender (P052).</p> <p>The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A) and 3745-31-10 through 20.</p>
d.	40 CFR Part 52.21 OAC rule 3745-31-10 through 20 (Best Available Control Technology)	See b)(2)a. and b)(2)b. below.



(2) Additional Terms and Conditions

- a. There shall be no visible fugitive particulate emissions from the building housing this emissions unit. For purposes of verifying compliance with this requirement, the visible particulate emissions shall be observed at any non-stack egress point from the building housing this emissions unit. These egress points shall include, but not be limited to: doorways, windows and roof monitors.
- b. Pursuant to 40 CFR 52.21, the permittee shall vent the emissions from this emissions unit to the baghouse at all times the emissions unit is in operation. The particulate and PM10 emissions from the fabric filter shall not exceed 0.005 grain per dry standard cubic foot.

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack and for any visible emissions of fugitive dust from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the location and color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emissions incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.

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

The permittee may reduce the frequency of visual observations of fugitive dust for this emissions unit from daily to weekly readings if the following conditions are met:



- f. for 1 full quarter the facility's visual observations indicate no visible fugitive particulate emissions; and
- g. the permittee continues to comply with all the record keeping and monitoring requirements specified above.

The permittee shall revert to daily readings if any visible fugitive particulate emissions are observed.

[OAC rule 3745-77-07(A)(3)]

- (2) Pursuant to OAC Rule 3745-77-07(A)(3)(a)(ii), the following monitoring and record keeping requirements are as stringent as or more stringent than the monitoring and record keeping requirements contained in Permit to Install # 01-07992, issued on December 27, 2001: d)(1). The monitoring and record keeping requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping requirements in the Permit to Install.

[OAC rule 3745-77-07(A)(3)(a)(ii)]

e) Reporting Requirements

- (1) The permittee shall submit semiannual written reports that identify:
 - a. all days during which any visible particulate emissions were observed from the stack serving this emissions unit;
 - b. all days during which any visible emissions of fugitive dust were observed from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit; and
 - c. any corrective actions taken to minimize or eliminate the visible particulate emissions from the stack and/or visible emissions of fugitive dust.

These reports shall be submitted to the director (Ohio EPA, Central District Office) by January 31 and July 31 of each year and shall cover the previous 6-month period.

[OAC rule 3745-77-07(A)(3)(c)]

- (2) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[OAC rule 3745-77-07(A)(3)(c)]

- (3) Pursuant to OAC Rule 3745-77-07(A)(3)(a)(ii), the following reporting requirements are as stringent as or more stringent than the reporting requirements contained in Permit to Install # 01-07992, issued on December 27, 2001: e)(1). The reporting requirements contained in the above-referenced Permit to Install are subsumed into the reporting



requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying reporting requirements in the Permit to Install.

[OAC rule 3745-77-07(A)(3)(a)(ii)]

f) Testing Requirements

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

a. Emissions Limitation

Visible particulate emissions from the stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method

If required, compliance with the visible particulate emissions limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9.

b. Emissions Limitations

Particulate and PM10 emissions shall not exceed 0.005 grain per dry standard cubic foot, 0.22 pound per hour and 0.95 ton per year.

Applicable Compliance Method

The baghouse controlling emissions unit P052 is shared by emissions units P044, P045, P046, P049 and P051. Therefore, for the purposes of emissions testing, the emissions from the baghouse stack of the emissions units being tested shall not exceed the sum of the emissions limitations for the emissions units that are in operation during the emissions test.

Unless the emissions test is conducted with all emissions units in operation, the number of emissions units in operation during any emissions test shall be representative of the number of emissions units typically in operation.

Emissions testing was conducted for this emissions unit on December 18 and 19, 2006. The emissions tests demonstrated compliance with the hourly emissions limitations and the grain loading limitations for this emissions unit.

If required, the permittee shall demonstrate compliance with the grain loading and hourly emissions limitations in accordance with 40 CFR Part 60, Appendix A, Methods 1-4 and 5 for particulate emissions and Method 201 or 201A for PM10 emissions.

Compliance with the annual particulate and PM10 emissions limitations shall be determined by multiplying the hourly emission rates established by the December 18 and 19, 2006 stack tests (0.66 pound per hour for particulate from P044, P045, P046, P051 and P052; and 0.38 pound per hour for PM10 from P044,



P045, P046, P051 and P052) or the most recent emission test that demonstrated the emission unit was in compliance by the maximum annual hours of operation of 8,760 and dividing by 2,000 pounds per ton to obtain the annual emissions.

c. Emissions Limitation

Organic compound emissions shall not exceed 1.5 pounds per hour and 6.6 tons per year from the pesticide melter/mixer (P053), System 3 blender (P042) and System 4 blender (P052).

Applicable Compliance Method

Emissions testing was conducted for this emissions unit on December 21, 2004. The emissions test demonstrated compliance with the hourly emissions limitation.

If required, the permittee shall demonstrate compliance with the hourly emissions limitation in accordance with 40 CFR Part 60, Appendix A, Methods 18, 25, and/or 25A

Compliance with the annual emissions limitation shall be determined by multiplying the hourly emission rates established by the December 21, 2004 stack test (0.007 pound per hour) or the most recent emission test that demonstrated the emission unit was in compliance by the maximum annual hours of operation of 8,760 and dividing by 2,000 pounds per ton to obtain the annual emissions.

d. Emissions Limitation

There shall be no visible fugitive particulate emissions from the building housing this emissions unit.

Applicable Compliance Method

If required, compliance with the visible particulate emissions limitation shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 22.

g) Miscellaneous Requirements

- (1) None.



18. P071, SYS 2 Raw Material & Product Handling

Operations, Property and/or Equipment Description:

System 2 raw material and product handling, milling, and screening with baghouse

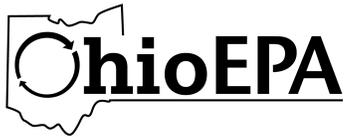
a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) 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 3745-17-07(A)	Visible particulate emissions from the stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.
b.	OAC rule 3745-17-11(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
c.	OAC rule 3745-31-05(A)(3) (PTI 01-08436)	<p>Particulate emissions from the stack serving this emissions unit shall not exceed 0.005 grain per dry standard cubic foot, 1.1 pounds per hour and 4.8 tons per year.</p> <p>PM10 emissions from the stack serving this emissions unit shall not exceed 0.8 pound per hour and 3.5 tons per year.</p> <p>The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A).</p> <p>See b)(2)a. and b)(2)b. below.</p>



(2) Additional Terms and Conditions

- a. There shall be no visible fugitive particulate emissions from the building housing this emissions unit. For purposes of verifying compliance with this requirement, the visible particulate emissions shall be observed at any non-stack egress point from the building housing this emissions unit. These egress points shall include, but not be limited to: doorways, windows and roof monitors.
- b. The permittee shall vent the particulate emissions from this emission unit to the baghouse whenever this emission unit is in operation.

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emissions incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.

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

[OAC rule 3745-77-07(A)(3)]

- (2) The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations



log. If visible emissions are observed, the permittee shall also note the following in the operations log:

- a. the color of the emissions;
- b. the total duration of any visible emissions incident; and
- c. any corrective actions taken to 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 (b) above or continue the weekly 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).

[OAC rule 3745-77-07(A)(3)]

e) Reporting Requirements

(1) The permittee shall submit semiannual written reports that identify:

- a. all days during which any visible particulate emissions were observed from the stack serving this emissions unit;
- b. all days during which any visible emissions of fugitive dust were observed from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit; and
- c. any corrective actions taken to minimize or eliminate the visible particulate emissions from the stack and/or visible emissions of fugitive dust.

These reports shall be submitted to the director (Ohio EPA, Central District Office) by January 31 and July 31 of each year and shall cover the previous 6-month period.

[OAC rule 3745-77-07(A)(3)(c)]

(2) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[OAC rule 3745-77-07(A)(3)(c)]

f) Testing Requirements

(1) The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

- a. The emission testing shall be conducted approximately 2.5 years after permit issuance.
- b. The emission testing shall be conducted to demonstrate compliance with the allowable grain loading and mass emission rates for particulates and PM10.



- c. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates: 40 CFR Part 60, Appendix A, Methods 1-4 and 5 for particulate emissions and Method 201 or 201A for PM10 emissions. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
 - d. The test shall be conducted under those representative conditions that challenge to the fullest extent possible a facility's ability to meet the applicable emissions limit, unless otherwise specified or approved by the Ohio EPA, Central District Office. Although this generally consists of operating the emissions unit at its maximum material input/production rates and results in the highest emission rate of the tested pollutant, there may be circumstances where a lower emissions loading is deemed the most challenging control scenario. Failure to test under these conditions is justification for not accepting the test results as a demonstration of compliance.
 - e. Not later than 30 days prior to the proposed test date, the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Central District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time and date of the test, and the person(s) who will be conducting the test. Failure to submit such notification for review and approval prior to the test may result in the Ohio EPA, Central District Office's refusal to accept the results of the emission test.
 - f. Personnel from the Ohio EPA, Central District Office shall be permitted to witness the test, examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit.
 - g. A comprehensive written report on the results of the emissions test shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Central District Office within 30 days following completion of the test. The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, Central District Office.
- (2) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:
- a. Emissions Limitation

Visible particulate emissions from the stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method

If required, compliance with the visible particulate emissions limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9.



b. Emissions Limitations

Particulate emissions from the stack serving this emissions unit shall not exceed 0.005 grain per dry standard cubic foot, 1.1 pounds per hour and 4.8 tons per year.

PM10 emissions from the stack serving this emissions unit shall not exceed 0.8 pound per hour and 3.5 tons per year.

Applicable Compliance Method

Emissions testing was conducted for this emissions unit on March 5, 6, 7 and 8, 2007. The emissions test demonstrated compliance with the hourly emissions limitations and the grain loading limitations for this emissions unit.

If required, the permittee shall demonstrate compliance with the grain loading and hourly emissions limitations in accordance with 40 CFR Part 60, Appendix A, Methods 1-4 and 5 for particulate emissions and Method 201 or 201A for PM10 emissions.

Compliance with the annual particulate and PM10 emissions limitations shall be determined by multiplying the hourly emission rates established by the March 5, 6, 7 and 8, 2007 stack tests (0.19 pound per hour for particulate and 0.16 pound per hour for PM10) or the most recent emission test that demonstrated the emission unit was in compliance by the maximum annual hours of operation of 8,760 and dividing by 2,000 pounds per ton to obtain the annual emissions.

c. Emissions Limitation

There shall be no visible fugitive particulate emissions from the building housing this emissions unit.

Applicable Compliance Method

If required, compliance with the visible particulate emissions limitation shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 22.

g) Miscellaneous Requirements

- (1) None.



19. P105, Central Vacuum System (Systems 1 and 2)

Operations, Property and/or Equipment Description:

Central Vacuum System

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) 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 3745-17-07(A)	Visible particulate emissions from the stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.
b.	OAC rule 3745-17-11(B)	Particulate emissions (PE) from the stack serving this emissions unit shall not exceed 3.4 pounds per hour, based upon Table I of OAC rule 3745-17-11.

(2) Additional Terms and Conditions

a. None.

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall maintain the control devices in accordance with the manufacturer's recommendations, instructions, and/or operating manual(s).

[OAC rule 3745-77-07(A)(3)]



- (2) The permittee shall maintain documentation of the manufacturer's recommendations, instructions, and/or operating manual(s) for the control devices. These documents shall be maintained at the facility and shall be made available to the Ohio EPA, Central District Office upon request.

[OAC rule 3745-77-07(A)(3)]

- (3) The permittee shall conduct weekly inspections of the control devices to determine whether they are operating in accordance with the manufacturer's recommendations, instructions, and/or operating manual(s).

[OAC rule 3745-77-07(A)(3)]

- (4) In addition to the weekly inspections, not less than once each calendar year, the permittee shall conduct a comprehensive inspection of the control devices while the emissions unit is shut down and perform any needed maintenance and repair to ensure they are operated in accordance with the manufacturer's recommendations.

[OAC rule 3745-77-07(A)(3)]

- (5) The permittee shall document each inspection (weekly and annual) of the control devices and shall maintain the following information:

- a. the date of the inspection;
- b. a description of each/any problem identified and the date it was corrected;
- c. a description of any maintenance and repairs performed; and
- d. the name of person who performed the inspection.

[OAC rule 3745-77-07(A)(3)]

e) Reporting Requirements

- (1) The permittee shall submit semiannual written reports that identify any record indicating that the control device(s) was not operated according to the manufacturer's recommendations when the emissions unit was in operation.

These reports shall be submitted to the director (Ohio EPA, Central District Office) by January 31 and July 31 of each year and shall cover the previous 6-month period.

[OAC rule 3745-77-07(A)(3)(c)]

- (2) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[OAC rule 3745-77-07(A)(3)(c)]



f) Testing Requirements

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

a. Emissions Limitation

Visible particulate emissions from the stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method

If required, compliance with the visible particulate emissions limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9.

b. Emission Limitation

Particulate emissions (PE) from the stack serving this emissions unit shall not exceed 3.4 pounds per hour, based upon Table I of OAC rule 3745-17-11.

Applicable Compliance Method

If required, compliance with this emission limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5.

g) Miscellaneous Requirements

(1) None.



20. P110, Dry Chemical Processing

Operations, Property and/or Equipment Description:

Ferrous Sulfate Handling System vented to a baghouse

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) 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 3745-17-07(A)	Visible particulate emissions from the stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.
b.	OAC rule 3745-17-11(B)	Particulate emissions (PE) from the stack serving this emissions unit shall not exceed 22 pounds per hour, based upon Table I of OAC rule 3745-17-11.

(2) Additional Terms and Conditions

a. None.

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

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

a. the color of the emissions;

b. whether the emissions are representative of normal operations;



- c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
- d. the total duration of any visible emissions incident; and
- e. any corrective actions taken to minimize or eliminate the visible emissions.

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

[OAC rule 3745-77-07(A)(3)]

e) Reporting Requirements

- (1) The permittee shall submit semiannual written reports that identify:
 - a. all days during which any visible particulate emissions were observed from the stack serving this emissions unit; and
 - b. any corrective actions taken to minimize or eliminate the visible particulate emissions.

These reports shall be submitted to the director (Ohio EPA, Central District Office) by January 31 and July 31 of each year and shall cover the previous 6-month period.

[OAC rule 3745-77-07(A)(3)(c)]

- (2) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[OAC rule 3745-77-07(A)(3)(c)]

f) Testing Requirements

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

Visible particulate emissions from the stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.



Applicable Compliance Method

If required, compliance with the visible particulate emissions limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9.

b. Emission Limitation

Particulate emissions (PE) from the stack serving this emissions unit shall not exceed 22 pounds per hour, based upon Table I of OAC rule 3745-17-11.

Applicable Compliance Method

Compliance with the hourly particulate emissions limitation shall be determined using the following equation.

$PE = (\text{Emission Factor}) \times (\text{Hourly Production}) \times (100\% - \text{Control Efficiency})$,
where:

Emission Factor = 0.2 pound of PE per tons of material processed (based on the Ohio EPA RACM document, Table 2.12-1 for Fertilizer Mixing/Blending Plants)

Maximum Hourly Production = 12 tons per hour

Baghouse Control Efficiency = 99%

If required, compliance with this emission limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5.

g) Miscellaneous Requirements

(1) None.



21. P113, System 2 Resin Kettles

Operations, Property and/or Equipment Description:

Resin Kettles vented to a wet scrubber

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) 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 3745-17-07(A)	Visible particulate emissions from the stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.
b.	OAC rule 3745-17-11(B)	Particulate emissions (PE) from the stack serving this emissions unit shall not exceed 26 pounds per hour, based upon Table I of OAC rule 3745-17-11.

(2) Additional Terms and Conditions

a. None.

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

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

a. the color of the emissions;

b. whether the emissions are representative of normal operations;



- c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
- d. the total duration of any visible emissions incident; and
- e. any corrective actions taken to minimize or eliminate the visible emissions.

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

[OAC rule 3745-77-07(A)(3)]

e) Reporting Requirements

- (1) The permittee shall submit semiannual written reports that identify:
 - a. all days during which any visible particulate emissions were observed from the stack serving this emissions unit; and
 - b. any corrective actions taken to minimize or eliminate the visible particulate emissions.

These reports shall be submitted to the director (Ohio EPA, Central District Office) by January 31 and July 31 of each year and shall cover the previous 6-month period.

[OAC rule 3745-77-07(A)(3)(c)]

- (2) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[OAC rule 3745-77-07(A)(3)(c)]

f) Testing Requirements

- (1) The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
 - a. The emission testing shall be conducted approximately 12 months after permit issuance.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for particulates.



- c. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates: 40 CFR Part 60, Appendix A, Methods 1-4 and 5. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
 - d. The test shall be conducted under those representative conditions that challenge to the fullest extent possible a facility's ability to meet the applicable emissions limit, unless otherwise specified or approved by the Ohio EPA, Central District Office. Although this generally consists of operating the emissions unit at its maximum material input/production rates and results in the highest emission rate of the tested pollutant, there may be circumstances where a lower emissions loading is deemed the most challenging control scenario. Failure to test under these conditions is justification for not accepting the test results as a demonstration of compliance.
 - e. Not later than 30 days prior to the proposed test date, the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Central District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time and date of the test, and the person(s) who will be conducting the test. Failure to submit such notification for review and approval prior to the test may result in the Ohio EPA, Central District Office's refusal to accept the results of the emission test.
 - f. Personnel from the Ohio EPA, Central District Office shall be permitted to witness the test, examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit.
 - g. A comprehensive written report on the results of the emissions test shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Central District Office within 30 days following completion of the test. The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, Central District Office.
- (2) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:
- a. Emissions Limitation

Visible particulate emissions from the stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method

If required, compliance with the visible particulate emissions limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9.



b. Emission Limitation

Particulate emissions (PE) from the stack serving this emissions unit shall not exceed 26 pounds per hour, based upon Table I of OAC rule 3745-17-11.

Applicable Compliance Method

If required, compliance with this emission limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5.

g) Miscellaneous Requirements

- (1) None.



22. P115, Control Products - Pesticide Process

Operations, Property and/or Equipment Description:

pesticide products processing including 3 kettles (controlled by a wet scrubber), bulk bag unloader, bucket elevator and two screw conveyors

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) 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 3745-17-07(A)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
b.	OAC rule 3745-17-11(B)	Particulate emissions (PE) from the stack serving this emissions unit shall not exceed 2.6 pounds per hour, based upon Figure II of OAC rule 3745-17-11. See b)(2)c. below.
c.	OAC rule 3745-31-05(A)(3) (PTI 01-01279)	PE from the stack serving this emissions unit shall not exceed 0.01 grain per dry standard cubic foot and 2.03 tons per year. Visible PE from the stack serving this emissions unit shall not exceed 10 percent opacity as a six-minute average. The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-11(B), Figure II. See b)(2)a., b)(2)b. and b)(2)c. below.



(2) Additional Terms and Conditions

- a. There shall be no visible fugitive particulate emissions from the building(s) housing this emissions unit. For purposes of verifying compliance with this requirement, the visible particulate emissions shall be observed at any non-stack egress point from the building housing this emissions unit. These egress points shall include, but not be limited to: doorways, windows and roof monitors.
- b. The grain loading emission limitation is based on the wet scrubber flow rate of 5,000 acfm specified in the permit to install application received by the Ohio EPA, Central District Office on April 11, 2005.
- c. The annual PE limitation was established to reflect the potential to emit for this emission unit with use of the wet scrubber. The Figure II hourly PE limitation established by OAC rule 3745-17-11(B) is greater than the potential to emit for this emissions unit with the use of the wet scrubber. Therefore, it is not necessary to develop additional monitoring, recordkeeping, and reporting requirements to ensure compliance with these emission limitations.

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emissions incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.

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



emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

[OAC rule 3745-77-07(A)(3)]

- (2) The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. the total duration of any visible emissions incident; and
 - c. any corrective actions taken to 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 (b) above or continue the weekly 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).

[OAC rule 3745-77-07(A)(3)]

e) Reporting Requirements

- (1) The permittee shall submit semiannual written reports that identify:
 - a. all days during which any visible particulate emissions were observed from the stacks serving this emissions unit;
 - b. all days during which any visible emissions of fugitive dust were observed from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit; and
 - c. any corrective actions taken to minimize or eliminate the visible particulate emissions from the stack and/or visible emissions of fugitive dust.

These reports shall be submitted to the director (Ohio EPA, Central District Office) by January 31 and July 31 of each year and shall cover the previous 6-month period.

[OAC rule 3745-77-07(A)(3)(c)]

- (2) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[OAC rule 3745-77-07(A)(3)(c)]



f) Testing Requirements

- (1) The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
 - a. The emission testing shall be conducted approximately 12 months after permit issuance.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable grain loading and mass emission rates for particulates.
 - c. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates: 40 CFR Part 60, Appendix A, Methods 1-4 and 5. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
 - d. The test shall be conducted under those representative conditions that challenge to the fullest extent possible a facility's ability to meet the applicable emissions limit, unless otherwise specified or approved by the Ohio EPA, Central District Office. Although this generally consists of operating the emissions unit at its maximum material input/production rates and results in the highest emission rate of the tested pollutant, there may be circumstances where a lower emissions loading is deemed the most challenging control scenario. Failure to test under these conditions is justification for not accepting the test results as a demonstration of compliance.
 - e. Not later than 30 days prior to the proposed test date, the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Central District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time and date of the test, and the person(s) who will be conducting the test. Failure to submit such notification for review and approval prior to the test may result in the Ohio EPA, Central District Office's refusal to accept the results of the emission test.
 - f. Personnel from the Ohio EPA, Central District Office shall be permitted to witness the test, examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit.
 - g. A comprehensive written report on the results of the emissions test shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Central District Office within 30 days following completion of the test. The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, Central District Office.
- (2) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:



a. Emission Limitation

Particulate emissions (PE) from the stack serving this emissions unit shall not exceed 2.6 pounds per hour, based upon Figure II of OAC rule 3745-17-11.

Applicable Compliance Method

If required, compliance with this emission limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5.

b. Emission Limitation

PE from the stack serving this emissions unit shall not exceed 0.01 grain per dry standard cubic foot and 2.03 tons per year.

Applicable Compliance Method

If required, compliance with this emission limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5. Compliance with the annual particulate emissions limitation shall be determined by multiplying the hourly emission rate established by the most recent emission test that demonstrated the emission unit was in compliance by the maximum annual hours of operation of 8,760 and dividing by 2,000 pounds per ton to obtain the annual emissions.

c. Emission Limitation

Visible PE from the stack serving this emissions unit shall not exceed 10 percent opacity as a six-minute average.

Applicable Compliance Method

If required, compliance with the visible particulate emissions limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9.

d. Emissions Limitation

There shall be no visible fugitive particulate emissions from the building(s) housing this emissions unit.

Applicable Compliance Method

If required, compliance with the visible particulate emissions limitation shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 22.

g) Miscellaneous Requirements

- (1) None.



23. P134, Mon-A-Mon & Potash Unloading

Operations, Property and/or Equipment Description:

Mon-A-Mon & Potash Unloading vented to baghouses

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) 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 3745-17-07(A)	Visible particulate emissions from each stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.
b.	OAC rule 3745-17-11(B)	Particulate emissions (PE) from all stacks serving this emissions unit combined shall not exceed 5.6 pounds per hour, based upon Figure II of OAC rule 3745-17-11.
c.	40 CFR Part 64 – Compliance Assurance Monitoring (CAM)	See d)(1), d)(2) and e)(1) below.

(2) Additional Terms and Conditions

a. None.

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack(s) serving this emissions unit. The daily check shall be performed for a minimum of six consecutive minutes. The presence or absence of any visible emissions shall be noted



in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

- a. the color of the emissions;
- b. the total duration of any visible emissions incident; and
- c. any corrective actions taken to 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 (b) 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).

[OAC rule 3745-77-07(A)(3) and 40 CFR Part 64]

- (2) The CAM plan for this emissions unit has been developed for particulate emissions. The CAM performance indicator for the baghouse(s) controlling this emissions unit is daily 6-minute visible emission checks. When visible emissions are observed from the stack(s) serving this emissions unit, the permittee shall take corrective actions to restore operation of the emissions unit and/or its control equipment to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions, and shall comply with the reporting requirements specified in Section e) below.

[OAC rule 3745-77-07(A)(3) and 40 CFR Part 64]

e) Reporting Requirements

- (1) The permittee shall submit semiannual written reports that identify:
 - a. all days during which any visible particulate emissions were observed from the stacks serving this emissions unit; and
 - b. any corrective actions taken to eliminate the visible particulate emissions.

These reports shall be submitted to the director (Ohio EPA, Central District Office) by January 31 and July 31 of each year and shall cover the previous 6-month period.

[OAC rule 3745-77-07(A)(3)(c) and 40 CFR Part 64.9]

- (2) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[OAC rule 3745-77-07(A)(3)(c)]



f) Testing Requirements

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

a. Emissions Limitation

Visible particulate emissions from each stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method

If required, compliance with the visible particulate emissions limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9.

b. Emission Limitation

Particulate emissions (PE) from all stacks serving this emissions unit combined shall not exceed 5.6 pounds per hour, based upon Figure II of OAC rule 3745-17-11.

Applicable Compliance Method

Emissions testing was conducted for this emissions unit on November 18, 2005 and demonstrated compliance with this emission limitation.

If required, compliance with this emission limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5.

g) Miscellaneous Requirements

(1) None.



24. P138, MURP Granulation Drum

Operations, Property and/or Equipment Description:

System I, MURP Granulation Drum vented to a baghouse

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) b)(1)d. and b)(2)a.

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 3745-17-07(A)	Visible particulate emissions from the stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.
b.	OAC rule 3745-17-11(B)	The emissions limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
c.	OAC rule 3745-31-05(A)(3) (PTI 01-12047)	Particulate emissions from the baghouse stack shall not exceed 2.5 pounds per hour. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A).
d.	OAC rule 3745-31-05(E) (PTI 01-12047)	Ammonia emissions shall not exceed 55.0 pounds per hour. See b)(2)a. below.
e.	40 CFR Part 64 – Compliance Assurance Monitoring (CAM)	See d)(1), d)(2) and e)(1) below.

(2) Additional Terms and Conditions

a. The hourly emission limitation was established due to an appeal settlement of PTI #01-07992, issued December 27, 2001. Ammonia is an air toxic, and the hourly emission limitation was established to reflect the status quo ammonia



emission rate for this emissions unit for future air toxics evaluations that may involve this emissions unit.

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping Requirements

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

- a. the color of the emissions;
- b. the total duration of any visible emissions incident; and
- c. any corrective actions taken to 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 (b) 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).

[OAC rule 3745-77-07(A)(3) and 40 CFR Part 64]

- (2) The CAM plan for this emissions unit has been developed for particulate emissions. The CAM performance indicator for the baghouse controlling this emissions unit is daily 6-minute visible emission checks. When visible emissions are observed from the stack serving this emissions unit, the permittee shall take corrective actions to restore operation of the emissions unit and/or its control equipment to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions, and shall comply with the reporting requirements specified in Section e) below.

[OAC rule 3745-77-07(A)(3) and 40 CFR Part 64]

e) Reporting Requirements

- (1) The permittee shall submit semiannual written reports that identify:
- a. all days during which any visible particulate emissions were observed from the stack serving this emissions unit; and
 - b. any corrective actions taken to eliminate the visible particulate emissions.



These reports shall be submitted to the director (Ohio EPA, Central District Office) by January 31 and July 31 of each year and shall cover the previous 6-month period.

[OAC rule 3745-77-07(A)(3)(c) and 40 CFR Part 64.9]

- (2) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[OAC rule 3745-77-07(A)(3)(c)]

f) **Testing Requirements**

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

a. Emissions Limitation

Visible particulate emissions from each stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method

If required, compliance with the visible particulate emissions limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9.

b. Emission Limitation

Particulate emissions from the baghouse stack shall not exceed 2.5 pounds per hour.

Applicable Compliance Method

Emissions testing was conducted for this emissions unit on May 6 and 7, 1997 and demonstrated compliance with this emission limitation.

If required, compliance with this emission limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5.

c. Emission Limitation

Ammonia emissions shall not exceed 55.0 pounds per hour.

Applicable Compliance Method

Emissions testing was conducted for this emissions unit on November 29, 2012 and demonstrated compliance with this emission limitation.



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If required, compliance with this emission limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and modified Method 5.

- g) Miscellaneous Requirements
 - (1) None.



25. P139, System 1 Resin Reactor System

Operations, Property and/or Equipment Description:

System 1, resin reactor vented to a wet scrubber

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) b)(1)d. and b)(2)b.

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 3745-17-07(A)	Visible particulate emissions from the stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.
b.	OAC rule 3745-17-11(B)	The emissions limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
c.	OAC rule 3745-31-05(A)(3) (PTI 01-03522)	Particulate emissions shall not exceed 0.3 pound per hour. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A). See b)(2)a. below.
d.	OAC rule 3745-31-05(E) (PTI 01-03522)	Ammonia emissions shall not exceed 57.0 pounds per hour. See b)(2)b. below.

(2) Additional Terms and Conditions

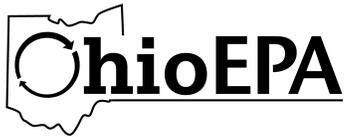
a. The permittee shall vent the emissions from this emissions unit to the wet scrubber at all times the emissions unit is in operation.



- b. The hourly emission limitation was established due to an appeal settlement of PTI #01-07992, issued December 27, 2001. Ammonia is an air toxic, and the hourly emission limitation was established to reflect the status quo ammonia emission rate for this emissions unit for future air toxics evaluations that may involve this emissions unit.
- c) Operational Restrictions
 - (1) None.
- d) Monitoring and/or Recordkeeping Requirements
 - (1) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emissions incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.

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

[OAC rule 3745-77-07(A)(3)]
- e) Reporting Requirements
 - (1) The permittee shall submit semiannual written reports that identify:
 - a. all days during which any visible particulate emissions were observed from the stack serving this emissions unit; and
 - b. any corrective actions taken to minimize or eliminate the visible particulate emissions.



These reports shall be submitted to the director (Ohio EPA, Central District Office) by January 31 and July 31 of each year and shall cover the previous 6-month period.

[OAC rule 3745-77-07(A)(3)(c)]

- (2) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[OAC rule 3745-77-07(A)(3)(c)]

f) **Testing Requirements**

- (1) The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
 - a. The emission testing shall be conducted approximately 12 months after permit issuance.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for particulates.
 - c. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates: 40 CFR Part 60, Appendix A, Methods 1-4 and 5. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
 - d. The test shall be conducted under those representative conditions that challenge to the fullest extent possible a facility's ability to meet the applicable emissions limit, unless otherwise specified or approved by the Ohio EPA, Central District Office. Although this generally consists of operating the emissions unit at its maximum material input/production rates and results in the highest emission rate of the tested pollutant, there may be circumstances where a lower emissions loading is deemed the most challenging control scenario. Failure to test under these conditions is justification for not accepting the test results as a demonstration of compliance.
 - e. Not later than 30 days prior to the proposed test date, the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Central District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time and date of the test, and the person(s) who will be conducting the test. Failure to submit such notification for review and approval prior to the test may result in the Ohio EPA, Central District Office's refusal to accept the results of the emission test.
 - f. Personnel from the Ohio EPA, Central District Office shall be permitted to witness the test, examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit.



- g. A comprehensive written report on the results of the emissions test shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Central District Office within 30 days following completion of the test. The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, Central District Office.
- (2) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emissions Limitation

Visible particulate emissions from each stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method

If required, compliance with the visible particulate emissions limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9.

b. Emission Limitation

Particulate emissions shall not exceed 0.3 pound per hour.

Applicable Compliance Method

Compliance with the hourly particulate emissions limitation shall be determined using the following equation.

$PE = (\text{Emission Factor}) \times (\text{Hourly Production}) \times (100\% - \text{Control Efficiency})$,
where:

Emission Factor = 0.2 pound of PE per tons of material processed (based on the Ohio EPA RACM document, Table 2.12-1 for Fertilizer Mixing/Blending Plants)

Maximum Hourly Production = 10 tons per hour

Wet Scrubber Control Efficiency = 90%

If required, compliance with this emission limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5.

c. Emission Limitation

Ammonia emissions shall not exceed 57.0 pounds per hour.

Applicable Compliance Method

Emissions testing was conducted for this emissions unit on November 22, 1994 and demonstrated compliance with this emission limitation.



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If required, compliance with this emission limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and modified Method 5.

- g) Miscellaneous Requirements
 - (1) None.



26. P140, Product Milling & Screening

Operations, Property and/or Equipment Description:

System I, Product Milling and Screening vented to a baghouse

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) 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 3745-17-07(A)	Visible particulate emissions from the stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.
b.	OAC rule 3745-17-11(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
c.	OAC rule 3745-31-05(A)(3) (PTI 01-03522)	Particulate emissions shall not exceed 0.6 pound per hour. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A). See b)(2)a. below.

(2) Additional Terms and Conditions

a. The permittee shall vent the emissions from this emissions unit to the baghouse at all times the emissions unit is in operation.

c) Operational Restrictions

(1) None.



d) **Monitoring and/or Recordkeeping Requirements**

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

- a. the color of the emissions;
- b. whether the emissions are representative of normal operations;
- c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
- d. the total duration of any visible emissions incident; and
- e. any corrective actions taken to minimize or eliminate the visible emissions.

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

[OAC rule 3745-77-07(A)(3)]

e) **Reporting Requirements**

(1) The permittee shall submit semiannual written reports that identify:

- a. all days during which any visible particulate emissions were observed from the stack serving this emissions unit; and
- b. any corrective actions taken to minimize or eliminate the visible particulate emissions.

These reports shall be submitted to the director (Ohio EPA, Central District Office) by January 31 and July 31 of each year and shall cover the previous 6-month period.

[OAC rule 3745-77-07(A)(3)(c)]



- (2) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[OAC rule 3745-77-07(A)(3)(c)]

f) Testing Requirements

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

a. Emissions Limitation

Visible particulate emissions from each stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method

If required, compliance with the visible particulate emissions limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9.

b. Emission Limitation

Particulate emissions shall not exceed 0.6 pound per hour.

Applicable Compliance Method

Emissions testing was conducted for this emissions unit on November 27, 2007 and demonstrated compliance with this emission limitation.

If required, compliance with this emission limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5.

g) Miscellaneous Requirements

- (1) None.



27. P141, System 1 Product Cooler

Operations, Property and/or Equipment Description:

System I, Product Cooler vented to a baghouse

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) 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 3745-17-07(A)	Visible particulate emissions from the stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.
b.	OAC rule 3745-17-11(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
c.	OAC rule 3745-31-05(A)(3) (PTI 01-03522)	Particulate emissions shall not exceed 0.06 pound per hour. The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A).

(2) Additional Terms and Conditions

a. None.

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack



serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

- a. the color of the emissions;
- b. whether the emissions are representative of normal operations;
- c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
- d. the total duration of any visible emissions incident; and
- e. any corrective actions taken to minimize or eliminate the visible emissions.

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

[OAC rule 3745-77-07(A)(3)]

e) Reporting Requirements

- (1) The permittee shall submit semiannual written reports that identify:
 - a. all days during which any visible particulate emissions were observed from the stack serving this emissions unit; and
 - b. any corrective actions taken to minimize or eliminate the visible particulate emissions.

These reports shall be submitted to the director (Ohio EPA, Central District Office) by January 31 and July 31 of each year and shall cover the previous 6-month period.

[OAC rule 3745-77-07(A)(3)(c)]

- (2) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[OAC rule 3745-77-07(A)(3)(c)]



f) Testing Requirements

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

a. Emissions Limitation

Visible particulate emissions from each stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method

If required, compliance with the visible particulate emissions limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9.

b. Emission Limitation

Particulate emissions shall not exceed 0.06 pound per hour.

Applicable Compliance Method

Emissions testing was conducted for this emissions unit on November 27, 2007 and demonstrated compliance with this emission limitation.

If required, compliance with this emission limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5.

g) Miscellaneous Requirements

(1) None.



28. P151, Coir eZ Seed Blending Process with Dust Collector

Operations, Property and/or Equipment Description:

Coir eZ Seed Blending Process with Dust Collector

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) 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 3745-17-07(A)(1)	Visible particulate emissions from the stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.
b.	OAC rule 3745-17-11(B)	Particulate emissions (PE) from the stack serving this emissions unit shall not exceed 22 pounds per hour, based upon Table I of OAC rule 3745-17-11.
c.	OAC rule 3745-31-05(A)(3) (PTI P0105673)	The emissions from this emissions unit shall be vented to a fabric filter baghouse which shall achieve a particulate emissions rate of not greater than 0.005 grain per dry standard cubic foot. See b.(2)a below.

(2) Additional Terms and Conditions

a. The emissions from this emissions unit shall be vented to a baghouse when one or more of the COIR eZ process emissions units (P145, P146, P147, P148, P149, P150, and P151) are in operation.

c) Operational Restrictions

(1) None.



d) **Monitoring and/or Recordkeeping Requirements**

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

- a. the color of the emissions;
- b. whether the emissions are representative of normal operations;
- c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
- d. the total duration of any visible emission incident; and
- e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission 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.

[OAC rule 3745-17-07(A)(1)]

e) **Reporting Requirements**

(1) The permittee shall submit semiannual written reports that identify:

- a. all days during which any visible particulate emissions were observed from the stack serving this emissions unit; and
- b. any corrective actions taken to minimize or eliminate the visible particulate emissions.

These reports shall be submitted to the director (Ohio EPA, Central District Office) by January 31 and July 31 of each year and shall cover the previous 6-month period.

[OAC rule 3745-77-07(A)(3)(c)]



- (2) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[OAC rule 3745-77-07(A)(3)(c)]

f) Testing Requirements

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

a. Emissions Limitation

Visible particulate emissions from the stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method

If required, compliance with the visible particulate emissions limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9.

b. Emission Limitation

Particulate emissions (PE) from the stack serving this emissions unit shall not exceed 22 pounds per hour, based upon Table I of OAC rule 3745-17-11.

Applicable Compliance Method

The hourly PE limitation is less than the potential hourly PE (0.48 lb/hr), calculated from information provided in the permit to install application for this emissions unit submitted to Ohio EPA on October 29, 2009 using the following equation.

$$PE = (\text{grain loading}) \times (\text{air flow rate}) \times (60 \text{ min/hr}) / (7,000 \text{ gr/lb}), \text{ where}$$

Grain loading of the baghouse = 0.0056 gr/dscf

Maximum air flow rate = 10,000 acfm

If required, compliance with this emission limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5.

c. Emission Limitation

The emissions from this emissions unit shall be vented to a fabric filter baghouse which shall achieve a particulate emissions rate of not greater than 0.005 grain per dry standard cubic foot.



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Applicable Compliance Method

Emissions testing was conducted for this emissions unit on July 21, 22 and 23, 2010 and demonstrated compliance with this emission limitation.

If required, compliance with this emission limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5.

g) Miscellaneous Requirements

- (1) None.



29. Emissions Unit Group -Granulator and Process Cooler: P040,P049

EU ID	Operations, Property and/or Equipment Description
P040	System 3 Granulation Drum and Process Cooler vented to baghouses
P049	System 4 Granulation Drum and Process Cooler vented to baghouses

- a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only:
- (1) b)(1)d. and b)(2)b.
- 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 3745-17-07(A)	Visible particulate emissions from the stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.
b.	OAC rule 3745-17-11(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
c.	OAC rule 3745-31-05(A)(3) (PTI 01-07992)	<p>Particulate and PM10 emissions shall not exceed 3.03 pounds per hour and 13.3 tons per year.</p> <p>Nitrogen oxide (NOx) emissions shall not exceed 0.09 pound per hour and 0.40 ton per year.</p> <p>Carbon monoxide (CO) emissions shall not exceed 0.07 pound per hour and 0.31 ton per year.</p> <p>The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A) and 3745-31-10 through 20.</p> <p>See b)(2)a. below.</p>



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
d.	OAC rule 3745-31-05(E) (PTI 01-07992)	Ammonia emissions shall not exceed 20.0 pounds per hour. See b)(2)b. below.
e.	40 CFR Part 52.21 OAC rule 3745-31-10 through 20 (Best Available Control Technology)	See b)(2)c. and b)(2)d. below.
f.	40 CFR Part 64 – Compliance Assurance Monitoring (CAM)	See d)(1), d)(5), e)(1)a. and e)(1)c. below.

(2) Additional Terms and Conditions

- a. The permittee shall burn only natural gas or LPG in this emissions unit.
- b. The hourly emission limitation was established due to an appeal settlement of PTI #01-07992, issued December 27, 2001. Ammonia is an air toxic, and the hourly emission limitation was established to reflect the status quo ammonia emission rate for this emissions unit for future air toxics evaluations that may involve this emissions unit.
- c. There shall be no visible fugitive particulate emissions from the building housing this emissions unit. For purposes of verifying compliance with this requirement, the visible particulate emissions shall be observed at any non-stack egress point from the building housing this emissions unit. These egress points shall include, but not be limited to: doorways, windows and roof monitors.
- d. Pursuant to 40 CFR 52.21, the permittee shall vent the emissions from this emissions unit to a baghouse at all times the emissions unit is in operation. The particulate and PM10 emissions from each fabric filter shall not exceed 0.005 grain per dry standard cubic foot.

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The daily check shall be performed for a minimum of six consecutive minutes. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. the total duration of any visible emissions incident; and



- c. any corrective actions taken to 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 (b) 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).

[OAC rule 3745-77-07(A)(3) and 40 CFR Part 64]

- (2) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible emissions of fugitive dust from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

- a. the color of the emissions;
- b. the total duration of any visible emissions incident; and
- c. any corrective actions taken to 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 (b) 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).

The permittee may reduce the frequency of visual observations of fugitive dust for this emissions unit from daily to weekly readings if the following conditions are met:

- d. for 1 full quarter the facility's visual observations indicate no visible fugitive particulate emissions; and
- e. the permittee continues to comply with all the record keeping and monitoring requirements specified above.

The permittee shall revert to daily readings if any visible fugitive particulate emissions are observed.

[OAC rule 3745-77-07(A)(3)]

- (3) For each day during which the permittee burns a fuel other than natural gas or LPG, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

[OAC rule 3745-77-07(A)(3)]

- (4) Pursuant to OAC Rule 3745-77-07(A)(3)(a)(ii), the following monitoring and record keeping requirements are as stringent as or more stringent than the monitoring and



record keeping requirements contained in Permit to Install # 01-07992, issued on December 27, 2001: d)(1) and d)(2). The monitoring and record keeping requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping requirements in the Permit to Install.

[OAC rule 3745-77-07(A)(3)(a)(ii)]

- (5) The CAM plan for this emissions unit has been developed for particulate emissions. The CAM performance indicator for the baghouse controlling this emissions unit is daily 6-minute visible emission checks. When visible emissions are observed from the stack serving this emissions unit, the permittee shall take corrective actions to restore operation of the emissions unit and/or its control equipment to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions, and shall comply with the reporting requirements specified in Section e) below.

[OAC rule 3745-77-07(A)(3) and 40 CFR Part 64]

e) Reporting Requirements

- (1) The permittee shall submit semiannual written reports that identify:
 - a. all days during which any visible particulate emissions were observed from the stack serving this emissions unit;
 - b. all days during which any visible emissions of fugitive dust were observed from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit; and
 - c. any corrective actions taken to eliminate the visible particulate emissions from the stack and/or visible emissions of fugitive dust.

These reports shall be submitted to the director (Ohio EPA, Central District Office) by January 31 and July 31 of each year and shall cover the previous 6-month period.

[OAC rule 3745-77-07(A)(3)(c) and 40 CFR Part 64.9]

- (2) The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas or LPG was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

[OAC rule 3745-77-07(A)(3)(c)]

- (3) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[OAC rule 3745-77-07(A)(3)(c)]



- (4) Pursuant to OAC Rule 3745-77-07(A)(3)(a)(ii), the following reporting requirements are as stringent as or more stringent than the reporting requirements contained in Permit to Install # 01-07992, issued on December 27, 2001: e)(1) and e)(2). The reporting requirements contained in the above-referenced Permit to Install are subsumed into the reporting requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying reporting requirements in the Permit to Install.

[OAC rule 3745-77-07(A)(3)(a)(ii)]

f) Testing Requirements

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

a. Emissions Limitation

Visible particulate emissions from the stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method

If required, compliance with the visible particulate emissions limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9.

b. Emissions Limitations

Particulate and PM10 emissions shall not exceed 0.005 grain per dry standard cubic foot, 3.03 pounds per hour and 13.3 tons per year.

Applicable Compliance Method

Emissions unit P040 is vented to two baghouses. The granulation drum vents to one baghouse and the process cooler shares the other baghouse with emissions units P041 and P042. Therefore, for the purposes of emissions testing, the emissions from the baghouse stacks of P040 shall not exceed the sum of the emission limitations for the emissions units that are in operation during the emissions test.

Emissions unit P049 is vented to two baghouses. The granulation drum vents to one baghouse and the process cooler shares the other baghouse with emissions units P044, P045, P046, P051 and P052. Therefore, for the purposes of emissions testing, the emissions from the baghouse stacks of P049 shall not exceed the sum of the emission limitations for the emissions units that are in operation during the emissions test.

Unless the emissions test is conducted with all emissions units in operation, the number of emissions units in operation during any emissions test shall be representative of the number of emissions units typically in operation.



Emissions testing was conducted for emissions unit P040 on October 30 and 31, 2007. Emissions testing was conducted for emissions unit P049 on December 18, 19 and 20, 2006. The emissions tests demonstrated compliance with the hourly emissions limitations and the grain loading limitations for these emissions units.

If required, the permittee shall demonstrate compliance with the grain loading and hourly emissions limitations in accordance with 40 CFR Part 60, Appendix A, Methods 1-4 and 5 for particulate emissions and Method 201 or 201A for PM10 emissions.

Compliance with the annual particulate and PM10 emissions limitations shall be determined by multiplying the hourly emission rates established by the October 30 and 31, 2007 stack tests for P040 (0.85 pound per hour for particulate; and 0.40 pound per hour for PM10), the December 18, 19 and 20, 2006 stack tests for P049 (2.26 pounds per hour for particulate; and 1.15 pounds per hour for PM10) or the most recent stack test that demonstrated the emission unit was in compliance by the maximum annual hours of operation of 8,760 and dividing by 2,000 pounds per ton to obtain the annual emissions.

c. Emissions Limitation

Nitrogen oxide (NO_x) emissions shall not exceed 0.09 pound per hour and 0.40 ton per year.

Applicable Compliance Method

Compliance with the hourly NO_x emission limitation may be demonstrated by multiplying an emission factor of 100 pounds of NO_x per million cubic feet of natural gas combusted by the emissions unit's maximum consumption rate of 850 cubic feet per hour. This emission factor is specified in AP-42, "Compilation of Air Pollutant Emission Factors", 5th Edition, Section 1.4, Table 1.4-1 (7/98). The annual limitation was calculated by multiplying the hourly limitation by 8,760 hr/yr and then dividing by 2,000 lb/ton.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1-4 and 7E.

d. Emissions Limitation

Carbon monoxide (CO) emissions shall not exceed 0.07 pound per hour and 0.31 ton per year.

Applicable Compliance Method

Compliance with the hourly CO emission limitation may be demonstrated by multiplying an emission factor of 84 pounds of CO per million cubic feet of natural gas combusted by the emissions unit's maximum consumption rate of 850 cubic feet per hour. This emission factor is specified in AP-42, "Compilation of Air Pollutant Emission Factors", 5th Edition, Section 1.4, Table 1.4-1 (7/98). The



annual limitation was calculated by multiplying the hourly limitation by 8,760 hr/yr and then dividing by 2,000 lb/ton.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1-4 and 10.

e. Emissions Limitation

Ammonia emissions shall not exceed 20.0 pounds per hour.

Applicable Compliance Method

Emissions testing was conducted for emissions unit P040 in 1999 and demonstrated compliance with this emission limitation. Emissions testing was conducted for emissions unit P049 on February 25, 2003 and demonstrated compliance with this emission limitation.

If required, compliance with this emission limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and modified Method 5.

f. Emissions Limitation

There shall be no visible fugitive particulate emissions from the building housing this emissions unit.

Applicable Compliance Method

If required, compliance with the visible particulate emissions limitation shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 22.

g) Miscellaneous Requirements

- (1) None.



30. Emissions Unit Group -Pesticide Blenders: P069,P070,P106

EU ID	Operations, Property and/or Equipment Description
P069	System 1 Pesticide Blender vented to a baghouse and carbon adsorber
P070	System 3 Pesticide Blender vented to a baghouse and carbon adsorber
P106	System 2 Pesticide Blender vented to a baghouse and carbon adsorber

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only:

(1) b)(1)d., d)(8), d)(9), d)(10) and d)(11).

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 3745-17-07(A)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
b.	OAC rule 3745-17-11(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
c.	OAC rule 3745-31-05(A)(3) (PTI 01-08847)	Organic compound (OC) emissions shall not exceed 0.9 pound per hour and 4.0 tons per year. Particulate emissions (PE) shall not exceed 0.5 pound per hour and 2.2 tons per year. Visible PE from the stack serving this emissions unit shall not exceed 10 percent opacity as a six-minute average. See b)(2)a. and b)(2)b. below.
d.	ORC 3704.03(F)(4)(d) [Toxic Air Contaminant Statute]	See d)(8), d)(9), d)(10) and d)(11) below.



(2) Additional Terms and Conditions

- a. The OC emission limitations of 0.9 pound per hour and 4.0 tons per year were established to reflect the potentials to emit for this emissions unit as vented through a carbon adsorber when a blending liquid organic material as defined by OAC rule 3745-21-01(C)(3). The OC emissions from all non-liquid organic materials blended in this emissions unit are able to meet the emission limitations for OC at potential to emit without the use of the carbon adsorber.

The PE emission limitations of 0.5 pound per hour and 2.2 tons per year were established to reflect the potentials to emit for this emissions unit as vented to a baghouse.

Therefore, the monitoring of the carbon adsorber and baghouse as established in the following terms and conditions may be used to ensure ongoing compliance with these emission limitations.

- b. The permittee shall vent all particulate emissions from this emissions unit to the baghouse whenever this emissions unit is in operation, except for brief periods of time when the operator of the emissions unit opens the blender door to inspect the blender operation and a small amount of particulates from the blender door opening may be emitted into the building housing this emissions unit. Due to the very small, unquantifiable amount of particulate matter that could be released from the opening of the blender door, no additional emission limitations, monitoring, record keeping, or reporting requirements were deemed necessary to address the potential release of this particulate matter from the building housing this emissions unit.

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall properly install, operate, and maintain a carbon adsorber to control the OC emissions from this emissions unit. The carbon adsorber must be in operation at all times the emissions unit is blending a liquid organic material.

[OAC rule 3745-77-07(A)(3)]

- (2) The permittee shall vent emissions from this emissions unit to the alternative activated carbon bed within five days whenever the outlet gas concentration of the carbon adsorber exceeds 80% of the permitted hourly OC emission limitation above (i.e., 0.72 pound/hour or 40 ppm, as isobutylene).

[OAC rule 3745-77-07(A)(3)]

- (3) The permittee shall maintain records that document (a) any time periods when the emissions unit was in operation and the baghouse was not in service, and (b) any time periods when the emissions unit was in operation and the baghouse was not in service,



and (b) any time periods when the emissions unit was blending a liquid organic material and the carbon adsorber was not in service.

[OAC rule 3745-77-07(A)(3)]

- (4) The permittee shall properly operate and maintain equipment to monitor the OC concentration of the outlet gases from the carbon adsorber when the emissions unit is in operation. The equipment shall meet the specifications and performance criteria of Section 6.0 of Method 21 (40 CFR Part 60, Appendix A) to be considered a compliant monitoring device. The monitoring equipment shall be calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s).

[OAC rule 3745-77-07(A)(3)]

- (5) The permittee shall collect and record the following information on a twice per month basis when the emissions unit is blending a liquid organic material:
- a. the OC concentration of the outlet gas from the carbon adsorber, in ppm (the permittee shall record the maximum OC concentration of the outlet gas when the probe of the monitoring device measures several different concentrations);
 - b. the production rate of the emissions unit at the time the OC concentration is recorded, in tons per hour, for the purpose of ensuring that the OC concentration is recorded at or near maximum production; and
 - c. if the maximum concentration exceeded 40 ppm, as isobutylene, a record indicating the date and time the emissions were vented to the alternative activated carbon bed.

[OAC rule 3745-77-07(A)(3)]

- (6) The permittee shall maintain a record of each date the activated carbon was replaced.

[OAC rule 3745-77-07(A)(3)]

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

- a. the color of the emissions;
- b. whether the emissions are representative of normal operations;
- c. if the emissions are not representative of normal operations, the cause of the visible emissions;
- d. the total duration of any visible emission incident; and



- e. any corrective actions taken to eliminate the visible emissions.

The visible emissions check is not required to be performed by individuals certified to conduct U.S. EPA Reference Method 9 observations.

[OAC rule 3745-77-07(A)(3)]

- (8) The permit to install application for these emissions units, P069, P070 and P106, was evaluated based on the actual materials and the design parameters of the emissions units' exhaust system, as specified by the permittee. The "Toxic Air Contaminant Statute", ORC 3704.03(F), was applied to these emissions units for each toxic air contaminant listed in OAC rule 3745-114-01, using data from the permit application; and modeling was performed for each toxic air contaminant(s) emitted at over one ton per year using an air dispersion model such as SCREEN3, AERMOD, or ISCST3, or other Ohio EPA approved model. The predicted 1-hour maximum ground-level concentration result(s) from the approved air dispersion model, was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC), calculated as described in the Ohio EPA guidance document entitled "Review of New Sources of Air Toxic Emissions, Option A", as follows:
 - a. the exposure limit, expressed as a time-weighted average concentration for a conventional 8-hour workday and a 40-hour workweek, for each toxic compound(s) emitted from the emissions units, (as determined from the raw materials processed and/or coatings or other materials applied) has been documented from one of the following sources and in the following order of preference (TLV was and shall be used, if the chemical is listed):
 - i. threshold limit value (TLV) from the American Conference of Governmental Industrial Hygienists (ACGIH) "Threshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices"; or
 - ii. STEL (short term exposure limit) or the ceiling value from the American Conference of Governmental Industrial Hygienists (ACGIH) "Threshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices"; the STEL or ceiling value is multiplied by 0.737 to convert the 15-minute exposure limit to an equivalent 8-hour TLV.
 - b. The TLV is divided by ten to adjust the standard from the working population to the general public (TLV/10).
 - c. This standard is/was then adjusted to account for the duration of the exposure or the operating hours of the emissions unit(s), i.e., "24" hours per day and "7" days per week, from that of 8 hours per day and 5 days per week. The resulting calculation was (and shall be) used to determine the Maximum Acceptable Ground-Level Concentration (MAGLC):

$$TLV/10 \times 8/X \times 5/Y = 4 TLV/XY = MAGLC$$



- d. The following summarizes the results of dispersion modeling for the “worst case” toxic contaminant:

Toxic Contaminant: hexylene glycol
TLV (mg/m³): 121.4
Maximum Hourly Emission Rate (lb/hr): 2.7
Predicted 1-Hour Maximum Ground-Level Concentration (ug/m³): 927
MAGLC (ug/m³): 2,889.8

The permittee, has demonstrated that emissions of hexylene glycol, from emissions units P069, P070 and P106, is calculated to be less than eighty per cent of the maximum acceptable ground level concentration (MAGLC); any new raw material or processing agent shall not be applied without evaluating each component toxic air contaminant in accordance with the “Toxic Air Contaminant Statute”, ORC 3704.03(F).

[ORC 3704.03(F)(3)(c) and F(4)], [OAC rule 3745-114-01], Option A, Engineering Guide #70

- (9) Prior to making any physical changes to or changes in the method of operation of the emissions unit(s), that could impact the parameters or values that were used in the predicted 1-hour maximum ground-level concentration, the permittee shall re-model the change(s) to demonstrate that the MAGLC has not been exceeded. Changes that can affect the parameters/values used in determining the 1-hour maximum ground-level concentration include, but are not limited to, the following:
- a. changes in the composition of the materials used or the use of new materials, that would result in the emission of a new toxic air contaminant with a lower Threshold Limit Value (TLV) than the lowest TLV previously modeled;
 - b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any toxic air contaminant listed in OAC rule 3745-114-01, that was modeled from the initial (or last) application; and
 - c. physical changes to the emissions unit(s) or its/their exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the “Toxic Air Contaminant Statute”, ORC 3704.03(F), will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01 solely due to a non-restrictive change to a parameter or process operation, where compliance with the “Toxic Air Contaminant Statute”, ORC 3704.03(F), has been documented. If the change(s) meet(s) the definition of a “modification”, the permittee shall apply for and obtain a final permit to install prior to the change. The director may consider any significant departure from the operations of the emissions unit, described in the permit application, as a modification that results in greater emissions than the emissions rate modeled to determine the ground level concentration; and he/she may require the permittee to submit a permit application for the increased emissions.

[ORC 3704.03(F)(3)(c) and F(4)], [OAC rule 3745-114-01], Option A, Engineering Guide #70



- (10) The permittee shall collect, record, and retain the following information for each toxic evaluation conducted to determine compliance with the "Toxic Air Contaminant Statute":
- a. a description of the parameters/values used in each compliance demonstration and the parameters or values changed for any re-evaluation of the toxic(s) modeled (the composition of materials, new toxic contaminants emitted, change in stack/exhaust parameters, etc.);
 - b. the Maximum Acceptable Ground-Level Concentration (MAGLC) for each significant toxic contaminant or worst-case contaminant, calculated in accordance with the "Toxic Air Contaminant Statute", ORC 3704.03(F);
 - c. a copy of the computer model run(s), that established the predicted 1-hour maximum ground-level concentration that demonstrated the emissions unit(s) to be in compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F), initially and for each change that requires re-evaluation of the toxic air contaminant emissions; and
 - d. the documentation of the initial evaluation of compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F), and documentation of any determination that was conducted to re-evaluate compliance due to a change made to the emissions unit(s) or the materials applied.

[ORC 3704.03(F)(3)(c) and F(4)], [OAC rule 3745-114-01], Option A, Engineering Guide #70

- (11) The permittee shall maintain a record of any change made to a parameter or value used in the dispersion model, used to demonstrate compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F), through the predicted 1-hour maximum ground-level concentration. The record shall include the date and reason(s) for the change and if the change would increase the ground-level concentration.

[ORC 3704.03(F)(3)(c) and F(4)], [OAC rule 3745-114-01], Option A, Engineering Guide #70

e) Reporting Requirements

- (1) The permittee shall submit quarterly deviation (excursion) reports that identify the following:
- a. all occurrences (dates) during which the OC concentration of the outlet gas of the carbon adsorber exceeded 40 ppm (0.72 lb OC/hr) and the emissions from this emissions unit were not vented to the alternative activated carbon bed within five days;
 - b. any time when the emissions unit was in operation and the baghouse was not in service; and
 - c. any time periods when the emissions unit was blending a liquid organic material and the carbon adsorber was not in service.

[OAC rule 3745-77-07(A)(3)(c)]



- (2) The permittee shall submit semiannual written reports that identify:
- a. all days during which any visible particulate emissions were observed from the stack serving this emissions unit; and
 - b. any corrective actions taken to minimize or eliminate the visible particulate emissions from the stack.

These reports shall be submitted to the director (Ohio EPA, Central District Office) by January 31 and July 31 of each year and shall cover the previous 6-month period.

[OAC rule 3745-77-07(A)(3)(c)]

- (3) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[OAC rule 3745-77-07(A)(3)(c)]

f) **Testing Requirements**

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

a. Emissions Limitations

Organic compound (OC) emissions shall not exceed 0.9 pound per hour and 4.0 tons per year.

Applicable Compliance Method

Emissions testing was conducted for this emissions unit on December 20 and 21, 2004 and demonstrated compliance with the hourly emissions limitation.

If required, the permittee shall demonstrate compliance with the hourly emissions limitation in accordance with 40 CFR Part 60, Appendix A, Methods 18, 25, and/or 25A.

Compliance with the annual emissions limitation shall be determined by multiplying the hourly emission rate established by the December 20 and 21, 2004 stack tests (0.0279 pound per hour) or the most recent emission test that demonstrated the emission unit was in compliance by the maximum annual hours of operation of 8,760 and dividing by 2,000 pounds per ton to obtain the annual emissions.

b. Emissions Limitations

Particulate emissions (PE) shall not exceed 0.5 pound per hour and 2.2 tons per year.



Applicable Compliance Method

Emissions testing was conducted for this emissions unit on December 20 and 21, 2004 and demonstrated compliance with the hourly emissions limitation.

If required, compliance with the hourly emissions limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5.

Compliance with the annual emissions limitation shall be determined by multiplying the hourly emission rate established by the December 20 and 21, 2004 stack tests (0.03 pound per hour) or the most recent emission test that demonstrated the emission unit was in compliance by the maximum annual hours of operation of 8,760 and dividing by 2,000 pounds per ton to obtain the annual emissions.

c. Emissions Limitation

Visible PE from the stack serving this emissions unit shall not exceed 10 percent opacity as a six-minute average.

Applicable Compliance Method

If required, compliance with the visible particulate emissions limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9.

g) Miscellaneous Requirements

- (1) None.



31. Emissions Unit Group -Resin Reactors: P037,P038,P047,P048

EU ID	Operations, Property and/or Equipment Description
P037	System 3 Resin Reactor No. 1 vented to a wet scrubber
P038	System 3 Resin Reactor No. 2 vented to a wet scrubber
P047	System 4 Resin Reactor No. 1 vented to a wet scrubber
P048	System 4 Resin Reactor No. 2 vented to a wet scrubber

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only:

(1) b)(1)e. and b)(2)b.

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 3745-17-07(A)	Visible particulate emissions from the stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.
b.	OAC rule 3745-17-11(B)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
c.	OAC rule 3745-31-05(A)(3) (PTI 01-07992)	Particulate and PM10 emissions from the stack serving this emissions unit shall not exceed 0.01 grain per dry standard cubic foot, 0.22 pound per hour and 0.96 ton per year. The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A) and 3745-31-10 through 20.
d.	40 CFR Part 52.21 OAC rule 3745-31-10 through 20 (Best Available Control Technology)	See b)(2)a. below.
e.	OAC rule 3745-31-05(E) (PTI 01-07992)	For emissions units P037 and P038, ammonia emissions shall not exceed 41.5 pounds per hour.



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		For emissions units P047 and P048, ammonia emissions shall not exceed 42.5 pounds per hour. See b)(2)b. below.

(2) Additional Terms and Conditions

- a. Pursuant to 40 CFR 52.21, the permittee shall vent the emissions from this emissions unit to a wet scrubber. The particulate and PM10 emissions from the wet scrubber shall not exceed 0.01 grain per dry standard cubic foot.
- b. The hourly emission limitation was established due to an appeal settlement of PTI #01-07992, issued December 27, 2001. Ammonia is an air toxic, and the hourly emission limitation was established to reflect the status quo ammonia emission rate for this emissions unit for future air toxics evaluations that may involve this emissions unit.

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping Requirements

- (1) The wet scrubber water flow rate shall be continuously maintained at a value of not less than 110 gallons per minute at all times the emissions unit is in operation.

[OAC rule 3745-77-07(A)(3)]

- (2) The permittee shall properly install, operate, inspect, and maintain equipment to monitor the water flow rate through the wet scrubber while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, inspected, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the water flow rate through the wet scrubber on a per shift basis.

[OAC rule 3745-77-07(A)(3)]

- (3) The per shift records shall include the shift, time and date the monitoring is performed; the Ohio EPA Source ID number; the company's control unit ID number; the person's name performing the monitoring; and the actual measured gallons of water per minute through the wet scrubber.

[OAC rule 3745-77-07(A)(3)]



- (4) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
- a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emissions incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.

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

[OAC rule 3745-77-07(A)(3)]

- (5) Pursuant to OAC Rule 3745-77-07(A)(3)(a)(ii), the following monitoring and record keeping requirements are as stringent as or more stringent than the monitoring and record keeping requirements contained in Permit to Install # 01-07992, issued on December 27, 2001: d)(1) through d)(4). The monitoring and record keeping requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping requirements in the Permit to Install.

[OAC rule 3745-77-07(A)(3)(a)(ii)]

e) Reporting Requirements

- (1) The permittee shall submit quarterly deviation (excursion) reports that identify all deviations of the water flow rate specified in d)(1) above.

[OAC rule 3745-77-07(A)(3)(c)]

- (2) The permittee shall submit semiannual written reports that identify:



- a. all days during which any visible particulate emissions were observed from the stacks serving this emissions unit; and
- b. any corrective actions taken to minimize or eliminate the visible particulate emissions.

These reports shall be submitted to the director (Ohio EPA, Central District Office) by January 31 and July 31 of each year and shall cover the previous 6-month period.

[OAC rule 3745-77-07(A)(3)(c)]

- (3) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[OAC rule 3745-77-07(A)(3)(c)]

- (4) Pursuant to OAC Rule 3745-77-07(A)(3)(a)(ii), the following reporting requirements are as stringent as or more stringent than the reporting requirements contained in Permit to Install # 01-07992, issued on December 27, 2001: e)(1) and e)(2). The reporting requirements contained in the above-referenced Permit to Install are subsumed into the reporting requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying reporting requirements in the Permit to Install.

[OAC rule 3745-77-07(A)(3)(a)(ii)]

f) **Testing Requirements**

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

- a. Emissions Limitation

Visible particulate emissions from the stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method

If required, compliance with the visible particulate emissions limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9.

- b. Emissions Limitations

Particulate and PM10 emissions from the stack serving this emissions unit shall not exceed 0.01 grain per dry standard cubic foot, 0.22 pound per hour and 0.96 ton per year.



Applicable Compliance Method

The wet scrubber controlling this emissions unit is shared by emissions units P037, P038, P047 and P048. Therefore, for the purposes of emissions testing, the emissions from the wet scrubber stack of this emissions unit shall not exceed the sum of the emissions limitations for the emissions units that are in operation during the emissions test.

Unless the emissions test is conducted with all four emissions units in operation, the number of emissions units in operation during any emissions test shall be representative of the number of emissions units typically in operation.

Emissions testing was conducted for P037, P038, P047 and P048 on October 30 and 31, 2007. The emissions test demonstrated compliance with the hourly emissions limitations and the grain loading limitations for this emissions unit.

If required, the permittee shall demonstrate compliance with the grain loading and hourly emissions limitations in accordance with 40 CFR Part 60, Appendix A, Methods 1-4 and 5 for particulate emissions and Method 201 or 201A for PM10 emissions.

Compliance with the annual particulate and PM10 emissions limitations shall be determined by multiplying the hourly emission rates established by the October 30 and 31, 2007 stack tests (0.31 pound per hour for particulate from P037, P038, P047 and P048; and 0.38 pound per hour for PM10 from P037, P038, P047 and P048) or the most recent stack test that demonstrated the emission unit was in compliance by the maximum annual hours of operation of 8,760 and dividing by 2,000 pounds per ton to obtain the annual emissions.

c. Emissions Limitations

For emissions units P037 and P038, ammonia emissions shall not exceed 41.5 pounds per hour.

For emissions units P047 and P048, ammonia emissions shall not exceed 42.5 pounds per hour.

Applicable Compliance Method

Emissions testing was conducted for P037, P038, P047 and P048 on May 19, 20 and 21, 2003 and demonstrated compliance with these emissions limitations.

If required, compliance with this emission limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and modified Method 5.

g) Miscellaneous Requirements

- (1) None.