



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL MODIFICATION
UNION COUNTY**

CERTIFIED MAIL

Street Address:

Lazarus Gov. Center TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov.
Center

Application No: 01-07992

DATE: 12/27/2001

The Scotts Co
Gary Daugherty
14111 Scottslawn Rd
Marysville, OH 43026

Enclosed Please find a modification to the Ohio EPA Permit To Install referenced above which will modify the terms and conditions.

You are hereby notified that this action by the Director is final and may be appealed to the Ohio Environmental Review Appeals Commission pursuant to Chapter 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. It must be filed within thirty (30) days after the notice of the Directors action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
236 East Town Street, Room 300
Columbus, Ohio 43215

Very truly yours,

Thomas G. Rigo
Field Operations and Permit Section
Division of Air Pollution Control

CC: USEPA

CDO



**Permit To Install
Terms and Conditions**

**Issue Date: 12/27/2001
Effective Date: 12/27/2001**

FINAL ADMINISTRATIVE MODIFICATION OF PERMIT TO INSTALL 01-07992

Application Number: 01-07992
APS Premise Number: 0180010008
Permit Fee: **\$0**
Name of Facility: The Scotts Co
Person to Contact: Gary Daugherty
Address: 14111 Scottslawn Rd
Marysville, OH 43026

Location of proposed air contaminant source(s) [emissions unit(s)]:
**14111 Scottslawn Rd
Marysville, Ohio**

Description of proposed emissions unit(s):
Fertilizer mixing line.

The above named entity is hereby granted a modification to the permit to install described above pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this modification does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described source(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans included in the application, the above described source(s) of pollutants will be granted the necessary operating permits.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

Part I - GENERAL TERMS AND CONDITIONS**A. State and Federally Enforceable Permit To Install General Terms and Conditions****1. Monitoring and Related Recordkeeping and Reporting Requirements**

- a. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:
 - i. The date, place (as defined in the permit), and time of sampling or measurements.
 - ii. The date(s) analyses were performed.
 - iii. The company or entity that performed the analyses.
 - iv. The analytical techniques or methods used.
 - v. The results of such analyses.
 - vi. The operating conditions existing at the time of sampling or measurement.
- 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, 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.
- c. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:
 - i. Reports of any required monitoring and/or recordkeeping of federally enforceable information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
 - ii. Quarterly written reports of (i) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be made to the appropriate Ohio EPA District Office or local air agency. The written reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous

calendar quarters. See B.10 below if no deviations occurred during the quarter.

- iii. Written reports, which identify any deviations from the federally enforceable monitoring, recordkeeping, and reporting requirements contained in this permit shall be submitted to the appropriate Ohio EPA District Office or local air agency every six months, i.e., by January 31 and July 31 of each year for the previous six calendar months. If no deviations occurred during a six-month period, the permittee shall submit a semi-annual report, which states that no deviations occurred during that period.
- iv. 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 are true, accurate, and complete.

2. 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, i.e., upset, 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. (The definition of an upset condition shall be the same as that used in OAC rule 3745-15-06(B)(1) for a malfunction.) The verbal and written reports shall be submitted pursuant to 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 emission unit(s) that is (are) served by such control system(s).

3. Risk Management Plans

If the permittee is required to 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"), the permittee shall comply with the requirement to register such a plan.

4. 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.

5. 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.

6. 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. 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.

7. 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. The permittee shall pay all applicable Permit To Install fees within 30 days after the issuance of this Permit To Install.

8. 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.

9. Compliance Requirements

- a. Any document (including reports) required to be submitted and required by a federally applicable requirement in this 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:
 - i. 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.
 - ii. 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 ORC section 3704.08.
 - iii. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
 - iv. 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:
 - i. Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
 - ii. 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.

10. Source Operation and Operating Permit Requirements After Completion of Construction

- a. If the permittee is required to apply for a Title V permit pursuant to OAC Chapter 3745-77, the permittee shall submit a complete Title V permit application or a complete Title V permit modification application within twelve (12) months after commencing operation of the emissions units covered by this permit. However, if the proposed new or modified source(s) would be prohibited by the terms and conditions of an existing Title V permit, a Title V permit modification must be obtained before the operation of such new or modified source(s) pursuant to OAC rule 3745-77-04(D) and OAC rule 3745-77-08(C)(3)(d).
- b. If the permittee is required to apply for permit(s) pursuant to OAC Chapter 3745-35, the source(s) identified in this Permit To Install is (are) permitted to operate for a period of up to one year from the date the source(s) commenced operation. Permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within thirty (30) days after commencing operation of the source(s) covered by this permit.

11. Best Available Technology

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

B. State Only Enforceable Permit To Install General Terms and Conditions**1. Compliance Requirements**

The emissions unit(s) identified in this Permit to Install shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

2. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping of state-only enforceable 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 (a) any deviations (excursions) from state-only required emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) 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. 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 quarterly, i.e., 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.)

3. 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.

4. 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.

5. Termination of Permit To Install

This permit to install shall terminate within eighteen months of the effective date of the permit to install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

6. Construction of New Sources(s)

The proposed emissions unit(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources cannot meet the requirements of this permit or cannot meet applicable standards.

If the construction of the proposed emissions unit(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.

7. Public Disclosure

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

8. Applicability

This Permit to Install is applicable only to the emissions unit(s) identified in the Permit To Install. Separate application must be made to the Director for the installation or modification of any other emissions unit(s).

9. Construction Compliance Certification

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has been constructed in accordance with the Permit To Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

10. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations (See Section A of This Permit)

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 quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters.

C. Permit To Install Summary of Allowable Emissions

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

**SUMMARY (for informational purposes only)
 TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS**

<u>Pollutant</u>	<u>Tons Per Year</u>
PM	103.60
PM ₁₀	93.74
CO	3.5
NO _x	4.2
OC	6.60
NH ₃ (Ammonia)	1752.00

Part II -Facility Specific Terms and Conditions

A. State and Federally Enforceable Permit To Install Facility Specific Terms and Conditions

1. This emissions unit, as described in this Permit to Install (PTI), is subject to the applicable provisions of the Prevention of Significant Deterioration (PSD) regulations as promulgated by the United States Environmental Protection Agency (U.S. EPA). The authority to apply and enforce the PSD regulations has been delegated to Ohio EPA.

In accordance with 40 CFR 124.15, 124.19, and 124.20, the following shall apply:

- a. The effective date of the permit shall be 30 days after the service of notice to any public commentors the final decision to issue, modify or revoke and re-issue the permit, unless the service of notice is by mail, in which case the effective date of the permit shall be 33 days after the service notice; and
- b. If an appeal is made to the Environmental Appeals Board of the U.S. EPA, the effective date of the permit is suspended until such time as the appeal is resolved or denied.

Appeals will be addressed to:

United State Environmental Protection
Agency
Environmental Appeals Board
401 M Street, SW (MC-113do)
Washington, DC 21460

This permit condition applies to the following emission units: P036 through P066.

B. State Only Enforceable Permit To Install Facility Specific Terms and Conditions

1. Emissions/Operational limitations and Air Toxics Impacts Analysis

The permit to install for this project was evaluated based on the actual materials and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. An air toxic impact analysis, using the ISCST3 model, was submitted to the Ohio EPA, DAPC on May 5, 1999. This analysis was reviewed by the Ohio EPA and accepted. The analysis demonstrated a "Net Air Quality Improvement" from the changes proposed in this permit for ammonia (NH₃) emissions. Maximum NH₃ emissions modeled were as follows:

Egress Point A12/System 4 Granulation Drum (P049)- 4.0 lbs/hr
Egress Point A13/System 4 Cooler (P049)- 16.0 lbs/hr

Egress Point A2/Specialty System Granulation Drum (P058)-4.0 lbs/hr
Egress Point A3/Specialty System Cooler (P058)- 16.0 lbs/hr
Egress Point A7/Specialty System Reactors #1 and #2 (P056 and P057)- 84.0 lbs/hr
Egress Point EST-14/System 2 Granulation Drum (P036)- 78.0 lbs/hr
Egress Point EST-68/System 2 Process Cooler (P036)- 10.0 lbs/hr
Egress Point SYSRR03/System 3 & System 4 Reactors (P037 & P038, P047 & P048)- 168.0 lbs/hr
Egress Point SYSGRAN03/System 3 Granulation Drum (P040)- 4.0 lbs/hr
Egress Point SYSPC03/System 3 Cooler (P040)- 16.0 lbs/hr

Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the air toxic impact analysis is satisfied. Changes that result in maintaining the Net Air Quality Improvement shall be considered satisfaction of the air toxics impact analysis. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the air toxic impact analysis will still be satisfied. If, upon evaluation, the permittee determines that the air toxic impact analysis will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the air toxic impact analysis include the following:

- a. changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value 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 pollutant with a listed TLV that was proposed in the application and modeled; and
- c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the air toxic impact analysis 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(VV)(1)(a)(ii). If the change(s) is (are) defined as a modification under other provisions of the modification definition (other than (VV)(1)(a)(ii)), then the permittee shall obtain a final permit to install prior to the change.

2. Monitoring and/or Record Keeping Requirements

The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will still satisfy the "Air Toxic Policy:"

- a. a description of the parameters changed (composition of materials, new pollutants emitted, etc.);

- b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxic Policy"; and
 - c. where computer modeling is performed, a copy of the resulting computer modeling runs that show the results of the application of the "Air Toxic Policy" for the change.
3. Reporting Requirements

None.
 4. Testing Requirements

Note: Emissions testing demonstrating maximum hourly NH₃ emissions do not exceed the modeled hourly rates was performed (and witnessed by Ohio EPA staff) on the System 2 Granulation Drum and Cooler (P036) in 1998 and the System 3 Granulation Drum and Cooler (P040) in 1999. This permit will only increase annual production rates and annual emissions for these units.

The permittee shall conduct, or have conducted, NH₃ emissions testing for the System 3 and System 4 resin reactors egress point (SYSRR03), System 4 granulation drum and cooler (P049), Specialty System granulation drum and cooler (P058) and Specialty System Resin Reactors (P056 and P057) in accordance with the following:

- a. The emissions testing shall be conducted within 180 days of startup of each unit.
- b. The testing shall be conducted to demonstrate maximum hourly emissions do not exceed the above-referenced modeled ammonia emissions from each egress point;
- c. Methods 1-4 and Modified Method 5 or alternative test methods approved by Ohio EPA shall be employed to demonstrate the maximum hourly emissions rates; and,
- d. The tests shall be conducted with units operating at, or near, maximum operating capacities, unless otherwise specified or approved by the Ohio EPA, Central District Office.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the tests, and the persons who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission tests.

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the tests, 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

and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions tests shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the tests. The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

5. Miscellaneous Requirements

- a. Modeling to demonstrate compliance with the Ohio EPA Air Toxics Policy, due to the increase in NH₃ emissions from this new project, was performed. It was shown that a Net Air Quality Improvement will be realized, as a result of emissions decreases at the plant which were included in the modeling.

Part III - Special Terms and Conditions for Specific Emissions Unit(s)

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	
P036- System 2 Granulation Drum and Process Cooler w/fabric filters (modification to PTI 01-7379 issued May 7, 1998)	40 <u>CFR</u> Part 52.21 OAC Rule 3745-31-10 through 20 OAC Rule 3745-31-05(A)(3)	OAC rule 3745-23-06(B)
		OAC rule 3745-21-08(B)
		OAC rule 3745-17-07(A)(1)
		OAC rule 3745-17-11(B)

Applicable Emissions
Limitations/Control Measures

See A.I.2. below for Best Available Control Technology (BACT) determination.

Particulate emissions shall not exceed 1.83 pounds per hour and 8.02 tons per year.

Particulate emissions less than 10 microns (PM₁₀) shall not exceed 1.36 pounds per hour and 5.9 tons per year.

NO_x emissions shall not exceed 0.09 pounds per hour and 0.40 tons per year. See A.II.2. below.

CO emissions shall not exceed 0.07 pounds per hour and 0.31 tons per year. See A.II.2. below.

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

The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1) and 3745-31-10 through 20.

The emissions limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

The emissions limitation specified by this rule is less

stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

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

The emissions limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rules 3745-31-05(A)(3) and 3745-31-10 through 20.

2. Additional Terms and Conditions

- 2.a** Pursuant to 40 CFR 52.21, the permittee shall install fabric filters to control PM/PM₁₀ emissions as Best Available Control Technology (BACT). The emissions from each fabric filter shall not exceed 0.005 grain/scf.
- 2.b** There shall be no visible fugitive particulate emissions escaping 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.

II. Operational Restrictions

1. The pressure drop across the fabric filter shall be maintained within the range of 0.5-15.0 inches of water while the emissions unit is in operation.
2. The permittee shall burn only natural gas or LPG in this emissions unit.

III. Monitoring and/or Recordkeeping Requirements

1. This facility shall install, operate and maintain equipment to monitor the pressure drop across each fabric filter 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 manuals. The facility shall record the pressure drop across each fabric filter at least once per each operating shift of the emissions unit.

IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across any of the fabric filters did not comply with the allowable range specified above. These reports shall be submitted to the Ohio EPA, Central District Office in accordance with section A.1. of the general terms and conditions of this permit.

V. Testing Requirements

1. Compliance with the emission limitations in Section A.I. of these terms and conditions shall be determined in accordance with the following methods:

Modification Issued: 12/27/2001

Emissions Limitations for particulate and PM₁₀:

Particulate emissions shall not exceed 1.83 pounds per hour and 8.02 tons per year. PM₁₀ emissions shall not exceed 1.36 pounds per hour and 5.9 tons per year.

Applicable Compliance Method:

Within 180 days after the issuance of this permit, the permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates: Methods 1-4 and; Method 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.

The tests shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the tests, and the persons who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission tests.

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the tests, 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 and/or the performance of the control equipment.

Emissions Unit ID: **P036**

A comprehensive written report on the results of the emissions tests shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the tests. The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

Emission Limitation:

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

Applicable Compliance Method:

If required, compliance shall be determined through visible observations of the non-stack egress points from the building housing this emissions unit in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a), (B)(4)(b) and (B)(4)(c) of OAC rule 3745-17-03.

Emissions Limitation:

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

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such appendix existed on July 1, 1996.

Emissions Limitation:

NO_x emissions shall not exceed 0.09 lb/hr and 0.40 tons per year.

Applicable Compliance Method:

Compliance for the NO_x emission limits be based upon an emission factor of 100 lb NO_x/million cubic feet (from table 1.4-1(7/98) of AP-42, 5th edition) and a maximum natural gas consumption of 850 CFH. If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 7E.

Emissions Limitation:

Carbon Monoxide emissions shall not exceed 0.07 lb/hr and 0.31 ton/yr.

Applicable Compliance Method:

Compliance with the CO emission limits shall be based upon an emission factor 84 lbs CO/million cubic feet (from table 1.4-1(7/98) of AP-42, 5th edition) and a maximum natural gas consumption of 850 CFH. If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 10.

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Modification Issued: 12/27/2001

Emissions Unit ID: **P036**

VI. Miscellaneous Requirements

1. This emissions unit shall be deemed in compliance if the total emissions from egress points EST14, and EST68 are equal to or less than the emissions limit for this emissions unit.

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P036- System 2 Granulation Drum and Process Cooler w/fabric filters	OAC 3475-31-05(D)	NH ₃ emissions shall not exceed 88.0 lbs/hour.

2. Additional Terms and Conditions

- 2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

1. Compliance with the emission limitations in Section B.I. of these terms and conditions shall be determined in accordance with the following methods:

Emissions Limitation:
 NH₃ emissions shall not exceed 88.0 lbs/hr.

Applicable Compliance Method:
 Compliance with the NH₃ emissions limit for this unit shall be demonstrated via the emissions testing required in the state only enforceable requirements in section Part II(B)(4) of this permit.

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The Scotts Co

PTI Application: 01 07002

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Facility ID: 0180010008

Emissions Unit ID: P036

VI. Miscellaneous Requirements

None

Part III - Special Terms and Conditions for Specific Emissions Unit(s) [Continued]

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P037-System 3 resin reactor #1 w/wet scrubber (modification to PTI 01-7379, issued May 7, 1998)	40 <u>CFR</u> Part 52.21 OAC Rule 3745-31-10 through 20 OAC Rule 3745-31-05(A)(3)	See A.I.2. below for Best Available Control Technology (BACT) determination. Particulate emissions shall not exceed 0.22 pound per hour and 0.96 ton per year. Particulate emissions less than 10 microns (PM ₁₀) shall not exceed 0.22 pound per hour and 0.96 ton per year.
	OAC rule 3745-17-07(A)(1)	The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1) and 3745-31-10 through 20. Visible particulate emissions shall not exceed 20% opacity as a 6 minute average, except as exempted by rule.
	OAC rule 3745-17-11(B)	The emissions limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rules 3745-31-05(A)(3) and 3745-31-10 through 20.

2. Additional Terms and Conditions

- 2.a** Pursuant to 40 CFR 52.21, the permittee shall install a wet scrubber to control of PM/PM₁₀ emissions as Best Available Control Technology (BACT). The emissions from the wet scrubber shall not exceed 0.01 grain/scf.

II. Operational Restrictions

1. The pressure drop across the wet scrubber shall be continuously maintained at a value of not less than 0.15 inches of water at all times while the emissions unit is in operation.
2. The wet scrubber water flow rate shall be continuously maintained at a value of not less than 110 gallons per minute at all times while the emissions units are in operation.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall properly install, operate, inspect, and maintain equipment to monitor the pressure drop across the wet scrubber and water flow rate through the wet scrubber while the emission 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 pressure drop across the wet scrubber and the water flow rate through the wet scrubber on a per shift basis.
2. The per shift records shall include the shift, the time, the 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 actual measured pressure drop in inches of water column across the wet scrubber and the actual measured gallons of water per minute through the wet scrubber.

IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify each period of time during which the pressure drop across the wet scrubber did not comply with the allowable range specified above. These reports shall be submitted to the Ohio EPA, Central District Office in accordance with section A.1. of the general terms and conditions of this permit.
2. The permittee shall submit water flow rate deviation (excursion) reports that identify each period of time during which the water flow rate through the scrubber did not comply with the allowable range specified above. These reports shall be submitted to the Ohio EPA, Central District Office in accordance with section A.1. of the general terms and conditions of this permit.

V. Testing Requirements

1. Compliance with the emission limitations in Section A.I. of these terms and conditions shall be determined in accordance with the following methods:

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DTI Application: **01 07002**

Facility ID: **0180010008**

Emissions Unit ID: **P037**

Modification Issued: 12/27/2001

Emissions Limitations for particulate and PM₁₀:

Particulate emissions shall not exceed 0.22 pound per hour and 0.96 ton per year. PM₁₀ emissions shall not exceed 0.22 pound per hour and 0.96 ton per year. Emissions from the wet scrubber shall not exceed 0.01 grain/scf.

Applicable Compliance Method:

Emissions testing was conducted for this emissions unit on May 19 and 20, 1999. The emissions test showed compliance with the emissions limitations for this emissions unit.

If required, compliance shall be demonstrated through emissions testing using the following test methods: for particulate, methods 1-4 and; Method 5 of 40 CFR Part 60, Appendix A; for PM₁₀, Method 201 or 201A of 40 CFR Part 51, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

Emissions Limitation:

Visible particulate emissions shall not exceed 20% opacity as a 6 minute average, except as exempted by rule.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such appendix existed on July 1, 1996.

VI. Miscellaneous Requirements

1. For the purpose of demonstrating compliance with the allowable emissions limits, the sum of the allowable limits for all units vented to the control system during the compliance demonstration shall be utilized for comparison against the measured emissions.

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B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P037-System 3 resin reactor #1 w/wet scrubber	OAC rule 3745-31-05(D)	NH ₃ emissions shall not exceed 41.5 lbs/hour.

2. Additional Terms and Conditions

- 2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

1. Compliance with the emission limitations in Section B.I. of these terms and conditions shall be determined in accordance with the following methods:

Emissions Limitation for NH₃:
Emissions shall not exceed 41.5 lbs/hr.

Emissions Unit ID: **P037**

Modification Issued: 12/27/2001

Applicable Compliance Method:

Compliance with the NH₃ emissions limit for this unit shall be demonstrated via the emissions testing required in the state only enforceable requirements in section Part II(B)(4) of this permit.

VI. Miscellaneous Requirements

None

Modification Issued: 12/27/2001

Part III - Special Terms and Conditions for Specific Emissions Unit(s) [Continued]

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>
P038-System 3 resin reactor #2 w/wet scrubber (modification to PTI 01-7379, issued May 7, 1998)	40 <u>CFR</u> Part 52.21 OAC Rule 3745-31-10 through 20 OAC Rule 3745-31-05(A)(3)
	OAC rule 3745-17-07(A)(1)
	OAC rule 3745-17-11(B)
<u>Applicable Emissions Limitations/Control</u>	<u>Measures</u>
	See A.I.2. below for Best Available Control Technology (BACT)

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determination.

Particulate emissions shall not exceed 0.22 pound per hour and 0.96 ton per year.

Particulate emissions less than 10 microns (PM₁₀) shall not exceed 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)(1) and 3745-31-10 through 20.

Visible particulate emissions shall not exceed 20% opacity as a 6 minute average, except as exempted by rule.

The emissions limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rules 3745-31-05(A)(3) and 3745-31-10 through 20.

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2. Additional Terms and Conditions

- 2.a** Pursuant to 40 CFR 52.21, the permittee shall install a wet scrubber to control of PM/PM₁₀ emissions as Best Available Control Technology (BACT). The emissions from the wet scrubber shall not exceed 0.01 grain/scf.

II. Operational Restrictions

1. The pressure drop across the wet scrubber shall be continuously maintained at a value of not less than 0.15 inches of water at all times while the emissions unit is in operation.
2. The wet scrubber water flow rate shall be continuously maintained at a value of not less than 110 gallons per minute at all times while the emissions units are in operation.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall properly install, operate, inspect, and maintain equipment to monitor the pressure drop across the wet scrubber and water flow rate through the wet scrubber while the emission 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 pressure drop across the wet scrubber and the water flow rate through the wet scrubber on a per shift basis.
2. The per shift records shall include the shift, the time, the 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 actual measured pressure drop in inches of water column across the wet scrubber and the actual measured gallons of water per minute through the wet scrubber.

IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify each period of time during which the pressure drop across the wet scrubber did not comply with the allowable range specified above. These reports shall be submitted to the Ohio EPA, Central District Office in accordance with section A.1. of the general terms and conditions of this permit.
2. The permittee shall submit water flow rate deviation (excursion) reports that identify each period of time during which the water flow rate through the scrubber did not comply with the allowable range specified above. These reports shall be submitted to the Ohio EPA, Central District Office

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in accordance with section A.1. of the general terms and conditions of this permit.

V. Testing Requirements

1. Compliance with the emission limitations in Section A.I. of these terms and conditions shall be determined in accordance with the following methods:

Emissions Unit ID: P038

Emissions Limitations for particulate and PM₁₀:

Particulate emissions shall not exceed 0.22 pound per hour and 0.96 ton per year. PM₁₀ emissions shall not exceed 0.22 pound per hour and 0.96 ton per year. Emissions from the wet scrubber shall not exceed 0.01 grain/scf.

Applicable Compliance Method:

Emissions testing was conducted for this emissions unit on May 19 and 20, 1999. The emissions test showed compliance with the emissions limitations for this emissions unit.

If required, compliance shall be demonstrated through emissions testing using the following test methods: for particulate, Methods 1-4 and; Method 5 of 40 CFR Part 60, Appendix A; for PM₁₀, Method 201 or 201A of 40 CFR Part 51, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

Emissions Limitation:

Visible particulate emissions shall not exceed 20% opacity as a 6 minute average, except as exempted by rule.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such appendix existed on July 1, 1996.

VI. Miscellaneous Requirements

1. For the purpose of demonstrating compliance with the allowable emissions limits, the sum of the allowable limits for all units vented to the control system during the compliance demonstration shall be utilized for comparison against the measured emissions.

Modification Issued: 12/27/2001**B. State Only Enforceable Section****I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P038-System 3 resin reactor #2 w/wet scrubber	OAC rule 3745-31-05(D)	NH ₃ emissions shall not exceed 41.5 lbs/hour.

2. Additional Terms and Conditions

- 2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

1. Compliance with the emission limitations in Section B.I. of these terms and conditions shall be determined in accordance with the following methods:

Emissions Limitation for NH₃:
Emissions shall not exceed 41.5 lbs/hr.

Emissions Unit ID: **P038**

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Applicable Compliance Method:

Compliance with the NH₃ emissions limit for this unit shall be demonstrated via the emissions testing required in the state only enforceable requirements in section Part II(B)(4) of this permit.

Emissions Unit ID: **P038**

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VI. Miscellaneous Requirements

None

Modification Issued: 12/27/2001

Part III - Special Terms and Conditions for Specific Emissions Unit(s) [Continued]

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	
P040- System3 Granulation Drum and Process Cooler w/fabric filters (modification to PTI 01-7379, issued May 7, 1998)	40 <u>CFR</u> Part 52.21 OAC Rule 3745-31-10 through 20 OAC Rule 3745-31-05(A)(3)	OAC rule 3745-23-06(B) OAC rule 3745-21-08(B) OAC rule 3745-17-07(A)(1) OAC rule 3745-17-11(B)

Applicable Emissions
Limitations/Control
Measures

See A.I.2. below for Best Available Control Technology (BACT) determination.

Particulate emissions shall not exceed 3.03 pounds per hour and 13.3 tons per year.

Particulate emissions less than 10 microns (PM₁₀) shall not exceed 3.03 pounds per hour and 13.3 tons per year.

NO_x emissions shall not exceed 0.09 pounds per hour and 0.40 tons per year. See A.II.2. below.

CO emissions shall not exceed 0.07 pounds per hour and 0.31 tons per year. See A.II.2. below.

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

The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1) and 3745-31-10 through 20.

The emissions limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

The emissions limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

Visible particulate emissions shall not exceed 20% opacity as a 6 minute average, except as exempted by rule.

The emissions limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3) and 3745-31-10 through 20.

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2. Additional Terms and Conditions

- 2.a** Pursuant to 40 CFR 52.21, the permittee shall install fabric filters to control PM/PM₁₀ emissions as Best Available Control Technology (BACT). The emissions from each fabric filter shall not exceed 0.005 grain/scf.
- 2.b** There shall be no visible fugitive particulate emissions escaping 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.

II. Operational Restrictions

- 1. The pressure drop across the fabric filters shall be maintained within the range of 0.5-15.0 inches of water while the emissions unit is in operation.
- 2. The permittee shall burn only natural gas or LPG in this emissions unit.

III. Monitoring and/or Recordkeeping Requirements

- 1. This facility shall install, operate and maintain equipment to monitor the pressure drop across each fabric filter 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 manuals. The facility shall record the pressure drop across each fabric filter at least once per each operating shift of the emissions unit.

IV. Reporting Requirements

- 1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across any of the fabric filters did not comply with the allowable range specified above. These reports shall be submitted to the Ohio EPA, Central District Office in accordance with section A.1. of the general terms and conditions of this permit.

V. Testing Requirements

- 1. Compliance with the emission limitations in Section A.I. of these terms and conditions shall be determined in accordance with the following methods:

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Emissions Limitations for particulate and PM₁₀:

Particulate emissions shall not exceed 3.03 pounds per hour and 13.3 tons per year. PM₁₀ emissions shall not exceed 3.03 pounds per hour and 13.3 tons per year. Emissions from the fabric filter shall not exceed 0.005 grain/scf.

Applicable Compliance Method:

Emissions testing was conducted for this emissions unit on May 19 and 20, 1999. The emissions test showed compliance with the emissions limitations for this emissions unit.

If required, compliance shall be demonstrated through emissions testing using the following test methods: for particulate, Method 1-4 and; Method 5 of 40 CFR Part 60, Appendix A; for PM₁₀, Method 201 or 201A of 40 CFR Part 51, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

The test shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the tests, and the persons who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission tests.

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the tests, 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 and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions tests shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the tests. The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

Emission Limitation:

Emissions Unit ID: P040

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

Applicable Compliance Method:

If required, compliance shall be determined through visible observations of the non-stack egress points from the building housing this emissions unit in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such appendix existed on July 1, 1996 and the modifications listed in paragraphs (B)(4)(a), (B)(4)(b) and (B)(4)(c) of OAC rule 3745-17-03.

Emissions Limitation:

Visible particulate emissions shall not exceed 20% opacity as a 6 minute average, except as exempted by rule.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such appendix existed on July 1, 1996.

Emissions Limitation:

NO_x emissions shall not exceed 0.09 lb/hr and 0.40 tons per year.

Applicable Compliance Method:

Compliance for the NO_x emission limits be based upon an emission factor of 100 lb NO_x/million cubic feet (from table 1.4-1(7/98) of AP-42, 5th edition) and a maximum natural gas consumption of 850 CFH. If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 7E.

Emissions Limitation:

Carbon Monoxide emissions shall not exceed 0.07 lb/hr and 0.31 ton/yr.

Applicable Compliance Method:

Compliance with the CO emission limits shall be based upon an emission factor 84 lbs CO/million cubic feet (from table 1.4-1(7/98) of AP-42, 5th edition) and a maximum natural gas consumption of 850 CFH. If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 10.

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VI. Miscellaneous Requirements

1. For the purpose of demonstrating compliance with the allowable emissions limits, the sum of the allowable limits for all units vented to the control system during the compliance demonstration shall be utilized for comparison against the measured emissions.

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B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P040-System 3 Granulation Drum and Process Cooler w/fabric filters	OAC rule 3745-31-05(D)	NH ₃ emissions shall not exceed 20.0 lbs/hour.

2. Additional Terms and Conditions

- 2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

1. Compliance with the emission limitations in Section B.I. of these terms and conditions shall be determined in accordance with the following methods:

Emissions Limitation:

NH₃ emissions shall not exceed 20.0 lbs/hr.

Applicable Compliance Method:

Compliance with the NH₃ emissions limit for this unit shall be demonstrated via the emissions testing required in the state only enforceable requirements in section Part II(B)(4) of this permit.

Emissions Unit ID: **P040**

Modification Issued: 12/27/2001

VI. Miscellaneous Requirements

None

Modification Issued: 12/27/2001

Part III - Special Terms and Conditions for Specific Emissions Unit(s) [Continued]

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	OAC rule 3745-17-11(B)
P041-System 3 milling, screening, elevators and conveyors w/fabric filter (modification to PTI 01-7379, issued May 7, 1998)	40 <u>CFR</u> Part 52.21 OAC Rule 3745-31-10 through 20 OAC Rule 3745-31-05(A)(3)	
	OAC rule 3745-17-07(A)(1)	

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Applicable Emissions
Limitations/Control
Measures

3745-31-05(A)(3) and 3745-31-10
through 20.

See A.I.2. below for Best
Available Control
Technology (BACT)
determination

Particulate emissions shall
not exceed 0.51 pound per
hour and 2.2 tons per year.

Particulate emissions less
than 10 microns (PM₁₀) shall
not exceed 0.51 pound per
hour and 2.2 tons per year.

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

The requirements of this rule
also include compliance with
the requirements of OAC
rules 3745-17-07(A)(1) and
3745-31-10 through 20.

Visible particulate emissions
shall not exceed 20%
opacity as a 6 minute
average, except as exempted
by rule.

The emissions limitation
specified by this rule is less
stringent than the emission
limitation established
pursuant to OAC rules

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Emissions Unit ID: **P041**

Modification Issued: 12/27/2001

2. Additional Terms and Conditions

- 2.a** Pursuant to 40 CFR 52.21, the permittee shall install a fabric filter to control PM/PM₁₀ emissions as Best Available Control Technology (BACT). The emissions from the fabric filter shall not exceed 0.005 grain/scf.

- 2.b** There shall be no visible fugitive particulate emissions escaping 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.

II. Operational Restrictions

- 1. The pressure drop across the fabric filter serving this emissions unit shall be maintained within the range of 0.5-15.0 inches of water column while the emissions unit is in operation.

III. Monitoring and/or Recordkeeping Requirements

- 1. This facility shall install, operate and maintain equipment to monitor the pressure drop across each fabric filter 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 manuals. The facility shall record the pressure drop across each fabric filter at least once per each operating shift of the emissions unit.

IV. Reporting Requirements

- 1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above. These reports shall be submitted to the Ohio EPA, Central District Office in accordance with section A.1. of the general terms and conditions of this permit.

V. Testing Requirements

- 1. Compliance with the emission limitations in Section A.I. of these terms and conditions shall be determined in accordance with the following methods:

Emissions Limitations for particulate and PM₁₀:

Particulate emissions shall not exceed 0.51 pounds per hour and 2.2 tons per year. PM₁₀ emissions shall not exceed 0.51 pounds per hour and 2.2 tons per year. Emissions from the fabric

Emissions Unit ID: P041

filter shall not exceed 0.005 grain/scf. There shall be no fugitive emissions escaping from the building housing this emissions unit.

Applicable Compliance Method:

Emissions testing was conducted for this emissions unit on May 19 and 20, 1999. The emissions test showed compliance with the emissions limitations for this emissions unit.

If required, compliance shall be demonstrated through emissions testing using the following test methods: for particulate, Methods 1-4 and; Method 5 of 40 CFR Part 60, Appendix A; for PM_{10} , Method 201 or 201A of 40 CFR Part 51, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

The test shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the tests, and the persons who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission tests.

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the tests, 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 and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions tests shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the tests. The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

Emission Limitation:

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

Applicable Compliance Method:

If required, compliance shall be determined through visible observations of the non-stack egress points from the building housing this emissions unit in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such appendix existed on July 1, 1996.

Modification Issued: 12/27/2001

Emissions Limitation:

Visible particulate emissions shall not exceed 20% opacity as a 6 minute average, except as exempted by rule.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such appendix existed on July 1, 1996.

VI. Miscellaneous Requirements

1. This emissions unit shall be deemed in compliance if the total emissions from egress point SYSPC03 is equal to or less than the sum of the emission limits for P040, P041 and P042 minus the total emissions from egress point SYSGRAN03 (which are the emissions from granulation drum, P040).

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P041-System 3 milling, screening, elevators and conveyors w/fabric filter	None	None

2. **Additional Terms and Conditions**

- 2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Special Terms and Conditions for Specific Emissions Unit(s) [Continued]

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	OAC rule 3745-17-11(B)
P042-System 3 blending with fabric filter (modification to PTI 01-7379, issued May 7, 1998)	40 <u>CFR</u> Part 52.21 OAC Rule 3745-31-10 through 20 OAC Rule 3745-31-05(A)(3)	
	OAC rule 3745-17-07(A)(1)	

Modification Issued: 12/27/2001

Applicable Emissions
Limitations/Control
Measures

See A.I.2. below for Best Available Control Technology (BACT) determination.

Particulate emissions shall not exceed 0.22 pound per hour and 0.95 ton per year.

Organic compounds 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).

Particulate emissions less than 10 microns (PM₁₀) shall not exceed 0.22 pound per hour and 0.95 ton per year.

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

The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1) and 3745-31-10 through 20.

Visible particulate emissions shall not exceed 20%

opacity as a 6 minute average, except as exempted by rule.

The emissions limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3) and 3745-31-10 through 20.

Modification Issued: 12/27/2001

2. Additional Terms and Conditions

- 2.a** Pursuant to 40 CFR 52.21, the permittee shall install a fabric filter to control PM/PM₁₀ emissions as Best Available Control Technology (BACT). The emissions from the fabric filter shall not exceed 0.005 grain/scf.
- 2.b** There shall be no visible fugitive particulate emissions escaping 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.

II. Operational Restrictions

1. The pressure drop across the fabric filter serving this emissions unit shall be maintained within the range of 0.5-15.0 inches of water column while the emissions unit is in operation.

III. Monitoring and/or Recordkeeping Requirements

1. This facility shall install, operate and maintain equipment to monitor the pressure drop across each fabric filter 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 manuals. The facility shall record the pressure drop across each fabric filter at least once per each operating shift of the emissions unit.

IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above. These reports shall be submitted to the Ohio EPA, Central District Office in accordance with section A.1. of the general terms and conditions of this permit.

V. Testing Requirements

1. Compliance with the emission limitations in Section A.I. of these terms and conditions shall be determined in accordance with the following methods:

Emissions Limitations for particulate and PM₁₀:

Particulate emissions shall not exceed 0.22 pound per hour and 0.95 ton per year. PM₁₀ emissions shall not exceed 0.22 pound per hour and 0.95 ton per year. Emissions from the fabric filter shall

Emissions Unit ID: P042

not exceed 0.005 grain/scf.

Applicable Compliance Method:

Emissions testing was conducted for this emissions unit on May 19 and 20, 1999. The emissions test showed compliance with the emissions limitations for this emissions unit.

If required, compliance shall be demonstrated through emissions testing using the following test methods: for particulate, Methods 1-4 and; Method 5 of 40 CFR Part 60, Appendix A; for PM_{10} , Method 201 or 201A of 40 CFR Part 51, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

The test shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the tests, and the persons who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission tests.

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the tests, 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 and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions tests shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the tests. The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

Emission Limitation:

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

Applicable Compliance Method:

If required, compliance shall be determined through visible observations of the non-stack egress points from the building housing this emissions unit in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a), (B)(4)(b) and (B)(4)(c) of OAC rule 3745-17-03.

Modification Issued: 12/27/2001

Emissions Limitation:

Visible particulate emissions shall not exceed 20% opacity as a 6 minute average, except as exempted by rule.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such appendix existed on July 1, 1996.

Emissions Limitation:

Organic compounds 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:

Compliance with this limit is based on previous stack test conducted in similar emissions units at the facility. The permittee conducted stack testing on System 1 and System 2 pesticide melters and blenders. The stack test results were 0.49 pound per hour of organic compounds. If required, the permittee shall conduct stack testing to show compliance with these emissions limitations in accordance to test methods 1-4 and 25A.

VI. Miscellaneous Requirements

1. This emissions unit shall be deemed in compliance if the total emissions from egress point SYSPC03 is equal to or less than the sum of the emission limits for P040, P041 and P042 minus the total emissions from egress point SYSGRAN03 (which are the emissions from the granulation drum, P040).

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P042-System 3 blending w/fabric filter	None	None

2. **Additional Terms and Conditions**

- 2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

1. Pursuant to Engineering Guide #69, modeling to demonstrate compliance with the Ohio EPA's Air Toxic Policy was not necessary since the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant

Emissions Unit ID: **P042**

Modification Issued: 12/27/2001

that has a listed TLV to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

Modification Issued: 12/27/2001

Part III - Special Terms and Conditions for Specific Emissions Unit(s) [Continued]

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	OAC rule 3745-17-11(B)
P043, System 1, 2 and 3 Packaging Operations w/fabric filters	40 <u>CFR</u> Part 52.21 OAC Rule 3745-31-10 through 20 OAC Rule 3745-31-05(A)(3)	
	OAC rule 3745-17-07(A)(1)	

Modification Issued: 12/27/2001

Applicable Emissions
Limitations/Control
Measures

3745-31-05(A)(3) and 3745-31-10
through 20.

See A.I.2. below for Best
Available Control
Technology (BACT)
determination

Particulate emissions shall
not exceed 1.54 pounds per
hour and 6.8 tons per year.

Particulate emissions less
than 10 microns (PM₁₀) shall
not exceed 1.14 pounds per
hour and 5.0 tons per year.

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

The requirements of this rule
also include compliance with
the requirements of OAC
rules 3745-17-07(A)(1) and
3745-31-10 through 20.

Visible particulate emissions
shall not exceed 20%
opacity as a 6 minute
average, except as exempted
by rule.

The emissions limitation
specified by this rule is less
stringent than the emission
limitation established
pursuant to OAC rules

Modification Issued: 12/27/2001

Emissions Unit ID: **P043**

2. Additional Terms and Conditions

- 2.a** Pursuant to 40 CFR 52.21, the permittee shall install fabric filters to control PM/PM₁₀ emissions as Best Available Control Technology (BACT). The emissions from the fabric filter shall not exceed 0.005 grain/scf.
- 2.b** There shall be no visible fugitive particulate emissions escaping 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.

II. Operational Restrictions

1. The pressure drop across each fabric filter serving this emissions unit shall be maintained within the range of 0.5-15.0 inches of water column while the emissions unit is in operation.

III. Monitoring and/or Recordkeeping Requirements

1. This facility shall install, operate and maintain equipment to monitor the pressure drop across each fabric filter 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 manuals. The facility shall record the pressure drop across each fabric filter at least once per each operating shift of the emissions unit.

IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across any of the three (3) fabric filters did not comply with the allowable range specified above. These reports shall be submitted to the Ohio EPA, Central District Office in accordance with section A.1. of the general terms and conditions of this permit.

V. Testing Requirements

1. Compliance with the emission limitations in Section A.I. of these terms and conditions shall be determined in accordance with the following methods:

Emissions Limitations for particulate and PM₁₀:

Particulate emissions shall not exceed 1.54 pounds per hour and 6.8 tons per year. Particulate emissions less than 10 microns (PM₁₀) shall not exceed 1.14 pounds per hour and 5.0 tons per year.

Applicable Compliance Method:

No later than 180 days after startup of this emissions unit, this facility shall conduct, or have conducted, emissions testing to demonstrate compliance with the allowable PM and PM₁₀ emissions limits.

Emissions Unit ID: P043

The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates: Methods 1-4 and; Method 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.

The tests shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the tests, and the persons who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission tests.

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the tests, 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 and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions tests shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the tests. The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

Emission Limitation:

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

Applicable Compliance Method:

If required, compliance shall be determined through visible observations of the non-stack egress points from the building housing this emissions unit in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a), (B)(4)(b) and (B)(4)(c) of OAC rule 3745-17-03.

Emissions Limitation:

Visible particulate emissions shall not exceed 20% opacity as a 6 minute average, except as exempted by rule.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996.

VI. Miscellaneous Requirements

1. This emissions unit shall be deemed in compliance if the total emissions from egress points EST25, EST26, EST27 is equal to or less than the emission limits for P043.

Modification Issued: 12/27/2001

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P043, System 1, 2 and 3 Packaging Operations w/fabric filter	None	None

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

Emissions Unit ID: **P043**

Modification Issued: 12/27/2001

VI. Miscellaneous Requirements

None

Modification Issued: 12/27/2001

Part III - Special Terms and Conditions for Specific Emissions Unit(s) [Continued]**A. State and Federally Enforceable Section****I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	
P044 System 4 Mon-A-Mon, Potash & Vermiculite Handling/unloading w/ fabric filter	40 <u>CFR</u> Part 52.21 OAC Rule 3745-31-10 through 20 OAC Rule 3745-31-05(A)(3)	OAC rule 3745-17-11(B)
	OAC rule 3745-17-07(A)(1)	

Modification Issued: 12/27/2001

Applicable Emissions
Limitations/Control
Measures

See A.I.2. below for Best Available Control Technology (BACT) determination.

Particulate emissions shall not exceed 1.4 pounds per hour and 6.1 tons per year;

Fugitive visible particulate emissions from this emissions unit shall not exceed 20% opacity as a 3 minute average;

Particulate emissions less than 10 microns (PM₁₀) shall not exceed 1.1 pounds per hour and 4.6 tons per year (these emissions limits include fugitive emissions);

The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1) and 3745-31-10 through 20.

Visible particulate emissions from the stack shall not exceed 20% opacity as a 6 minute average, except as exempted by rule.

The emissions limitation specified by this rule is less

stringent than the emission limitation established pursuant to OAC rules 3745-31-05(A)(3) and 3745-31-10 through 20.

Modification Issued: 12/27/2001

2. Additional Terms and Conditions

- 2.a** Pursuant to 40 CFR 52.21, the permittee shall install a fabric filter to control PM/PM₁₀ emissions as Best Available Control Technology (BACT) that is sufficient to minimize or eliminate visible emissions of fugitive dust. The emissions from the fabric filter shall not exceed 0.005 grain PM/scf.

II. Operational Restrictions

1. The pressure drop across the fabric filter serving this emissions unit shall be maintained within the range of 0.5-15.0 inches of water while the emissions unit is in operation.

III. Monitoring and/or Recordkeeping Requirements

1. This facility shall install, operate and maintain equipment to monitor the pressure drop across the fabric filter 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 manuals. The facility shall record the pressure drop across each fabric filter at least once per each operating shift of the emissions unit.

IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above. These reports shall be submitted to the Ohio EPA, Central District Office in accordance with section A.1. of the general terms and conditions of this permit.

V. Testing Requirements

1. Compliance with the emission limitations in Section A.I. of these terms and conditions shall be determined in accordance with the following methods:

Emissions Limitations for particulate and PM₁₀:

Particulate emissions shall not exceed 1.4 pounds per hour and 6.1 tons per year; Particulate emissions less than 10 microns (PM₁₀) shall not exceed 1.1 pounds per hour and 4.6 tons per year (these emissions limits include fugitive emissions)

Applicable Compliance Method:

Fugitive PM/PM₁₀ mass emissions determination- Fugitive emissions estimates for this operation shall be based upon an overall 94% capture efficiency and an uncontrolled PM/PM₁₀

Emissions Unit ID: P044

emissions factor of 0.2 lb/ton (based on the Ohio EPA RACM document, Figure 2.12.-3) of material handled unless otherwise approved by Ohio EPA.

No later than 180 days after startup of this unit, this facility shall conduct, or have conducted, emissions testing to demonstrate compliance with the allowable PM and PM₁₀ emissions limits.

The following test methods shall be employed to demonstrate compliance with the allowable mass emissions rates: Methods 1-4 and; Method 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.

The emissions testing shall be conducted while the emissions units are operating at or near the maximum capacities, unless otherwise approved by the Ohio EPA.

Not later than 30 days prior to the proposed test dates, the permittee shall submit a completed "Intent To Test" (ITT) to the Ohio EPA Central District Office. The ITT shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in Ohio EPA refusal to accept the results of the emissions test.

Personnel from the Ohio EPA shall be permitted to witness the tests, 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 and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) 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 tests. The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA.

Emissions Limitation:

Visible particulate emissions shall not exceed 20% opacity as a 6 minute average, except as exempted by rule and fugitive visible particulate emissions from this emissions unit shall not exceed 20% opacity as a 3 minute average.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

VI. Miscellaneous Requirements

1. This emissions unit shall be deemed in compliance if the total emissions from egress point SYSPC04 is equal to or less than the sum of the emission limits for P044, P045, P046, P049,

Emissions Unit ID: P044

P051, and P052 minus the emissions from egress point A12 (which are the emissions from the Granulation Drum, P049).

Modification Issued: 12/27/2001

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P044 System 4 Mon-A-Mon, Potash & Vermiculite Handling/unloading w/ fabric filter	None	None

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

Emissions Unit ID: **P044**

Modification Issued: 12/27/2001

None

VI. Miscellaneous Requirements

None

Modification Issued: 12/27/2001

Part III - Special Terms and Conditions for Specific Emissions Unit(s) [Continued]

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	
P045 System 4 raw material unloading/handling w/fabric filter	40 <u>CFR</u> Part 52.21 OAC Rule 3745-31-10 through 20 OAC Rule 3745-31-05(A)(3)	OAC rule 3745-17-11(B)
	OAC rule 3745-17-07(A)(1)	

Modification Issued: 12/27/2001

Applicable Emissions
Limitations/Control
Measures

See A.I.2. below for Best Available Control Technology (BACT) determination.

Particulate emissions shall not exceed 1.0 pound per hour and 4.4 tons per year;

Fugitive visible particulate emissions from this emissions unit shall not exceed 20% opacity as a 3 minute average;

Particulate emissions less than 10 microns (PM₁₀) shall not exceed 0.9 pound per hour and 3.9 tons per year (these emissions limits include fugitive emissions);

The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1) and 3745-31-10 through 20.

Visible particulate emissions from the stack shall not exceed 20% opacity as a 6 minute average, except as exempted by rule.

The emissions limitation specified by this rule is less

stringent than the emission limitation established pursuant to OAC rules 3745-31-05(A)(3) and 3745-31-10 through 20.

Modification Issued: 12/27/2001

2. Additional Terms and Conditions

- 2.a** Pursuant to 40 CFR 52.21, the permittee shall install a fabric filter to control PM/PM₁₀ emissions as Best Available Control Technology (BACT) that is sufficient to minimize or eliminate visible emissions of fugitive dust. The emissions from the fabric filter shall not exceed 0.005 grain PM/scf.

II. Operational Restrictions

1. The pressure drop across the fabric filter serving this emissions unit shall be maintained within the range of 0.5-15.0 inches of water while the emissions unit is in operation.

III. Monitoring and/or Recordkeeping Requirements

1. This facility shall install, operate and maintain equipment to monitor the pressure drop across the fabric filter 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 manuals. The facility shall record the pressure drop across each fabric filter at least once per each operating shift of the emissions unit.

IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the fabric filter did not comply with the allowable range specified above. These reports shall be submitted to the Ohio EPA, Central District Office in accordance with section A.1. of the general terms and conditions of this permit.

V. Testing Requirements

1. Compliance with the emission limitations in Section A.I. of these terms and conditions shall be determined in accordance with the following methods:

Emissions Limitations for particulate and PM₁₀:

Particulate emissions shall not exceed 1.0 pound per hour and 4.4 tons per year; Particulate emissions less than 10 microns (PM₁₀) shall not exceed 0.9 pound per hour and 3.9 tons per year (these emissions limits include fugitive emissions);

Applicable Compliance Method:

Fugitive PM/PM₁₀ mass emissions determination- Fugitive emissions estimates for this operation shall be based upon an overall 94% capture efficiency and an uncontrolled

Emissions Unit ID: P045

PM/PM₁₀ emissions factor of 0.2 lb/ton (based on the Ohio EPA RACM document, Figure 2.12.-3) of material handled unless otherwise approved by Ohio EPA.

No later than 180 days of startup of this unit, this facility shall conduct, or have conducted, emissions testing to demonstrate compliance with the allowable PM and PM₁₀ emissions limits.

The following test methods shall be employed to demonstrate compliance with the allowable mass emissions rates: Methods 1-4 and; Method 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.

The emissions testing shall be conducted while the emissions units are operating at or near the maximum capacities, unless otherwise approved by the Ohio EPA.

Not later than 30 days prior to the proposed test dates, the permittee shall submit a completed "Intent To Test" (ITT) to the Ohio EPA Central District Office. The ITT shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in Ohio EPA refusal to accept the results of the emissions test.

Personnel from the Ohio EPA shall be permitted to witness the tests, 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 and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) 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 tests. The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA.

Emissions Limitation:

Visible particulate emissions shall not exceed 20% opacity as a 6 minute average, except as exempted by rule and fugitive visible particulate emissions from this emissions unit shall not exceed 20% opacity as a 3 minute average.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

VI. Miscellaneous Requirements

1. This emissions unit shall be deemed in compliance if the total emissions from egress point

Emissions Unit ID: P045

SYSPC04 is equal to or less than the sum of the emission limits for P044, P045, P046, P049, P051, and P052 minus the emissions from egress point A12 (which are the emissions from the Granulation Drum, P049).

Modification Issued: 12/27/2001

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P045 System 4 raw material unloading/handling w/fabric filter	None	None

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Modification Issued: 12/27/2001

Emissions Unit ID: **P045**

Modification Issued: 12/27/2001

Part III - Special Terms and Conditions for Specific Emissions Unit(s) [Continued]**A. State and Federally Enforceable Section****I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	
P046 System 4 Urea Handling/Unloading w/fabric filter	40 <u>CFR</u> Part 52.21 OAC Rule 3745-31-10 through 20 OAC Rule 3745-31-05(A)(3)	OAC rule 3745-17-11(B)
	OAC rule 3745-17-07(A)(1)	

Modification Issued: 12/27/2001

Applicable Emissions
Limitations/Control
Measures

See A.I.2. below for Best Available Control Technology (BACT) determination.

Particulate emissions shall not exceed 0.25 pound per hour and 1.1 ton per year;

Fugitive visible particulate emissions from this emissions unit shall not exceed 20% opacity as a 3 minute average;

Particulate emissions less than 10 microns (PM₁₀) shall not exceed 0.19 pound per hour and 0.8 ton per year (these emissions limits include fugitive emissions);

The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1) and 3745-31-10 through 20.

Visible particulate emissions from the stack shall not exceed 20% opacity as a 6 minute average, except as exempted by rule.

The emissions limitation specified by this rule is less

stringent than the emission limitation established pursuant to OAC rules 3745-31-05(A)(3) and 3745-31-10 through 20.

Modification Issued: 12/27/2001

2. Additional Terms and Conditions

- 2.a** Pursuant to 40 CFR 52.21, the permittee shall install a fabric filter to control PM/PM₁₀ emissions as Best Available Control Technology (BACT) that is sufficient to minimize or eliminate visible emissions of fugitive dust. The emissions from the fabric filter shall not exceed 0.005 grain PM/scf.

II. Operational Restrictions

1. The pressure drop across the fabric filter serving this emissions unit shall be maintained within the range of 0.5-15.0 inches of water while the emissions unit is in operation.

III. Monitoring and/or Recordkeeping Requirements

1. This facility shall install, operate and maintain equipment to monitor the pressure drop across the fabric filter 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 manuals. The facility shall record the pressure drop across each fabric filter at least once per each operating shift of the emissions unit.

IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the fabric filter did not comply with the allowable range specified above. These reports shall be submitted to the Ohio EPA, Central District Office in accordance with section A.1. of the general terms and conditions of this permit.

V. Testing Requirements

1. Compliance with the emission limitations in Section A.I. of these terms and conditions shall be determined in accordance with the following methods:

Emissions Limitations for particulate and PM₁₀:

Particulate emissions shall not exceed 0.25 pound per hour and 1.1 tons per year; Particulate emissions less than 10 microns (PM₁₀) shall not exceed 0.19 pound per hour and 0.8 ton per year (these emissions limits include fugitive emissions);

Applicable Compliance Method:

Fugitive PM/PM₁₀ mass emissions determination- Fugitive emissions estimates for this operation shall be based upon an overall 94% capture efficiency and an uncontrolled emissions factors of

Emissions Unit ID: P046

0.02 lb PM/ton and 0.017 lb PM₁₀/ton (both based on FIRE v6.01/SCC 301040007) of material handled unless otherwise approved by Ohio EPA.

No later than 180 days after startup of this unit, this facility shall conduct, or have conducted, emissions testing to demonstrate compliance with the allowable PM and PM₁₀ emissions limits.

The following test methods shall be employed to demonstrate compliance with the allowable mass emissions rates: Methods 1-4 and; Method 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.

The emissions testing shall be conducted while the emissions units are operating at or near the maximum capacities, unless otherwise approved by the Ohio EPA.

Not later than 30 days prior to the proposed test dates, the permittee shall submit a completed "Intent To Test" (ITT) to the Ohio EPA Central District Office. The ITT shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in Ohio EPA refusal to accept the results of the emissions test.

Personnel from the Ohio EPA shall be permitted to witness the tests, 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 and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) 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 tests. The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA.

Emissions Limitation:

Visible particulate emissions shall not exceed 20% opacity as a 6 minute average, except as exempted by rule and fugitive visible particulate emissions from this emissions unit shall not exceed 20% opacity as a 3 minute average.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

VI. Miscellaneous Requirements

1. This emissions unit shall be deemed in compliance if the total emissions from egress point SYSPC04 is equal to or less than the sum of the emission limits for P044, P045, P046, P049,

Emissions Unit ID: **P046**

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P051, and P052 minus the emissions from egress point A12 (which are the emissions from the Granulation Drum, P049).

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B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P046 System 4 Urea Handling/Unloading w/fabric filter	None	None

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

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DTI Application: **01 07002**

Facility ID: **0180010008**

Emissions Unit ID: **P046**

Modification Issued: 12/27/2001

Part III - Special Terms and Conditions for Specific Emissions Unit(s) [Continued]**A. State and Federally Enforceable Section****I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P047 System 4 resin reactor #1 w/wet scrubber	40 <u>CFR</u> Part 52.21 OAC Rule 3745-31-10 through 20	See A.I.2. below for Best Available Control Technology (BACT) determination.
	OAC Rule 3745-31-05(A)(3)	Particulate emissions shall not exceed 0.22 pounds per hour and 0.96 tons per year.
		Particulate emissions less than 10 microns (PM ₁₀) shall not exceed 0.22 pounds per hour and 0.96 tons per year.
		The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1) and 3745-31-10 through 20.
	OAC rule 3745-17-07(A)(1)	Visible particulate emissions shall not exceed 20% opacity as a 6 minute average, except as exempted by rule.
	OAC rule 3745-17-11(B)	The emissions limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rules 3745-31-05(A)(3) and 3745-31-10

Emissions Unit ID: **P047**

Modification Issued: 12/27/2001

through 20.

Modification Issued: 12/27/2001

2. Additional Terms and Conditions

- 2.a** Pursuant to 40 CFR 52.21, the permittee shall install a wet scrubber to control of PM/PM₁₀ emissions as Best Available Control Technology (BACT). The emissions from the wet scrubber shall not exceed 0.01 grain/scf.

II. Operational Restrictions

1. The pressure drop across the wet scrubber shall be continuously maintained at a value of not less than 0.15 inches of water at all times while the emissions unit is in operation.
2. The wet scrubber water flow rate shall be continuously maintained at a value of not less than 110 gallons per minute at all times while the emissions units are in operation.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall properly install, operate, inspect, and maintain equipment to monitor the pressure drop across the wet scrubber and water flow rate through the wet scrubber while the emission 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 pressure drop across the wet scrubber and the water flow rate through the wet scrubber on a per shift basis.
2. The per shift records shall include the shift, the time, the 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 actual measured pressure drop in inches of water column across the wet scrubber and the actual measured gallons of water per minute through the wet scrubber.

IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify each period of time during which the pressure drop across the wet scrubber did not comply with the allowable range specified above. These reports shall be submitted to the Ohio EPA, Central District Office in accordance with section A.1. of the general terms and conditions of this permit.
2. The permittee shall submit water flow rate deviation (excursion) reports that identify each period of time during which the water flow rate through the scrubber did not comply with the allowable range specified above. These reports shall be submitted to the Ohio EPA, Central District Office in accordance with section A.1. of the general terms and conditions of this permit.

V. Testing Requirements

1. Compliance with the emission limitations in Section A.I. of these terms and conditions shall be determined in accordance with the following methods:

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Emissions Limitations for particulate and PM₁₀:

Particulate emissions shall not exceed 0.22 pounds per hour and 0.96 tons per year. Particulate emissions less than 10 microns (PM₁₀) shall not exceed 0.22 pounds per hour and 0.96 tons per year.

Applicable Compliance Method:

Within 180 days after startup of this emissions unit the permittee shall conduct, or have conducted, emissions testing to demonstrate compliance with the allowable mass emission rate for particulate and PM₁₀. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates:

for particulate, Method 5 of 40 CFR Part 60, Appendix A;

for PM₁₀, Method 201 or 201A of 40 CFR Part 51, Appendix A;

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

The tests shall be conducted while the emissions units are operating at or near their maximum capacities, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Not later than 30 days prior to the proposed test dates, the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the tests, and the persons who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission tests.

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the tests, 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 and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions tests shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the tests.

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

Emissions Limitation:

Visible particulate emissions shall not exceed 20% opacity as a 6 minute average, except as exempted by rule.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such appendix existed on July 1, 1996.

VI. Miscellaneous Requirements

1. For the purpose of demonstrating compliance with the allowable emissions limits, the sum of the allowable limits for all units vented to the control system during the compliance demonstration shall be utilized for comparison against the measured emissions.

B. State Only Enforceable Section**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P047 System 4 resin reactor #1 w/wet scrubber	OAC rule 3745-31-05(D)	NH ₃ emissions shall not exceed 42.5 lbs/hour.

2. Additional Terms and Conditions**2.a** None**II. Operational Restrictions**

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

1. Compliance with the emission limitations in Section B.I. of these terms and conditions shall be determined in accordance with the following methods:

Emissions Limitation for NH₃:
Emissions shall not exceed 42.5 lbs/hr.

Applicable Compliance Method:
Compliance with the NH₃ emissions limit for this unit shall be demonstrated via the emissions testing required in the state only enforceable requirements in section Part II(B)(4) of this permit.

VI. Miscellaneous Requirements

None

Modification Issued: 12/27/2001

**Part III - Special Terms
and Conditions for Specific Emissions Unit(s) [Continued]**

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P048 System 4 resin reactor #2 w/wet scrubber	40 <u>CFR</u> Part 52.21 OAC Rule 3745-31-10 through 20	See A.I.2. below for Best Available Control Technology (BACT) determination.
	OAC Rule 3745-31-05(A)(3)	Particulate emissions shall not exceed 0.22 pounds per hour and 0.96 tons per year.
		Particulate emissions less than 10 microns (PM ₁₀) shall not exceed 0.22 pounds per hour and 0.96 tons per year.
	OAC rule 3745-17-07(A)(1)	The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1) and 3745-31-10 through 20.
	OAC rule 3745-17-11(B)	Visible particulate emissions shall not exceed 20% opacity as a 6 minute average, except as exempted by rule.
		The emissions limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC

Emissions Unit ID: **P048**

Modification Issued: 12/27/2001

rules 3745-31-05(A)(3) and
3745-31-10 through 20.

Modification Issued: 12/27/2001

2. Additional Terms and Conditions

- 2.a** Pursuant to 40 CFR 52.21, the permittee shall install a wet scrubber to control of PM/PM₁₀ emissions as Best Available Control Technology (BACT). The emissions from the wet scrubber shall not exceed 0.01 grain/scf.

II. Operational Restrictions

1. The pressure drop across the wet scrubber shall be continuously maintained at a value of not less than 0.15 inches of water at all times while the emissions unit is in operation.
2. The wet scrubber water flow rate shall be continuously maintained at a value of not less than 110 gallons per minute at all times while the emissions units are in operation.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall properly install, operate, inspect, and maintain equipment to monitor the pressure drop across the wet scrubber and water flow rate through the wet scrubber while the emission 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 pressure drop across the wet scrubber and the water flow rate through the wet scrubber on a per shift basis.
2. The per shift records shall include the shift, the time, the 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 actual measured pressure drop in inches of water column across the wet scrubber and the actual measured gallons of water per minute through the wet scrubber.

IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify each period of time during which the pressure drop across the wet scrubber did not comply with the allowable range specified above. These reports shall be submitted to the Ohio EPA, Central District Office in accordance with section A.1. of the general terms and conditions of this permit.
2. The permittee shall submit water flow rate deviation (excursion) reports that identify each period of time during which the water flow rate through the scrubber did not comply with the allowable range specified above. These reports shall be submitted to the Ohio EPA, Central District Office in accordance with section A.1. of the general terms and conditions of this permit.

V. Testing Requirements

1. Compliance with the emission limitations in Section A.I. of these terms and conditions shall be determined in accordance with the following methods:

Modification Issued: 12/27/2001

Emissions Limitations for particulate and PM₁₀:

Particulate emissions shall not exceed 0.22 pounds per hour and 0.96 tons per year. Particulate emissions less than 10 microns (PM₁₀) shall not exceed 0.22 pounds per hour and 0.96 tons per year.

Applicable Compliance Method:

Within 180 days after startup of this emissions unit the permittee shall conduct, or have conducted, emissions testing to demonstrate compliance with the allowable mass emission rate for particulate and PM₁₀. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates:

for particulate, Method 5 of 40 CFR Part 60, Appendix A;

for PM₁₀, Method 201 or 201A of 40 CFR Part 51, Appendix A;

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

The tests shall be conducted while the emissions units are operating at or near their maximum capacities, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Not later than 30 days prior to the proposed test dates, the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the tests, and the persons who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission tests.

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the tests, 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 and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions tests shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the tests.

Emissions Unit ID: **P048**

Modification Issued: 12/27/2001

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

Emissions Limitation:

Visible particulate emissions shall not exceed 20% opacity as a 6 minute average, except as exempted by rule.

Modification Issued: 12/27/2001

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such appendix existed on July 1, 1996.

VI. Miscellaneous Requirements

1. For the purpose of demonstrating compliance with the allowable emissions limits, the sum of the allowable limits for all units vented to the control system during the compliance demonstration shall be utilized for comparison against the measured emissions.

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P048 System 4 resin reactor #2 w/wet scrubber	OAC rule 3745-31-05(D)	NH ₃ emissions shall not exceed 42.5 lbs/hour.

2. Additional Terms and Conditions

- 2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

- 1. Compliance with the emission limitations in Section B.I. of these terms and conditions shall be determined in accordance with the following methods:

Emissions Limitation for NH₃:
Emissions shall not exceed 42.5 lbs/hr.

Applicable Compliance Method:
Compliance with the NH₃ emissions limit for this unit shall be demonstrated via the emissions testing required in the state only enforceable requirements in section Part II(B)(4) of this permit.

VI. Miscellaneous Requirements

Modification Issued: 12/27/2001

None

Part III - Special Terms and Conditions for Specific Emissions Unit(s) [Continued]**A. State and Federally Enforceable Section****I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	
P049 System 4 Granulation Drum and Process Cooler w/fabric filters	40 <u>CFR</u> Part 52.21 OAC Rule 3745-31-10 through 20 OAC Rule 3745-31-05(A)(3)	OAC rule 3745-23-06(B) OAC rule 3745-21-08(B) OAC rule 3745-17-07(A)(1) OAC rule 3745-17-11(B)

Modification Issued: 12/27/2001

Applicable Emissions
Limitations/Control
Measures

See A.I.2. below for Best Available Control Technology (BACT) determination.

Particulate emissions shall not exceed 3.03 pounds per hour and 13.3 tons per year.

Particulate emissions less than 10 microns (PM₁₀) shall not exceed 3.03 pounds per hour and 13.3 tons per year.

NO_x emissions shall not exceed 0.09 pounds per hour and 0.40 tons per year. See A.II.2. below.

CO emissions shall not exceed 0.07 pounds per hour and 0.31 tons per year. See A.II.2. below.

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

The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1) and 3745-31-10 through 20.

The emissions limitation

specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

The emissions limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

Visible particulate emissions shall not exceed 20% opacity as a 6 minute average, except as exempted by rule.

The emissions limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rules 3745-31-05(A)(3) and 3745-31-10 through 20.

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2. Additional Terms and Conditions

- 2.a** Pursuant to 40 CFR 52.21, the permittee shall install a fabric filter to control PM/PM₁₀ emissions as Best Available Control Technology (BACT). The emissions from the fabric filter shall not exceed 0.005 grain/scf.
- 2.b** There shall be no visible fugitive particulate emissions escaping 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.

II. Operational Restrictions

- 1. The pressure drop across the fabric filter shall be maintained within the range of 0.5-15.0 inches of water while the emissions unit is in operation.
- 2. The permittee shall burn only natural gas or LPG in this emissions unit.

III. Monitoring and/or Recordkeeping Requirements

- 1. This facility shall install, operate and maintain equipment to monitor the pressure drop across each fabric filter 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 manuals. The facility shall record the pressure drop across each fabric filter at least once per each operating shift of the emissions unit.

IV. Reporting Requirements

- 1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above. These reports shall be submitted to the Ohio EPA, Central District Office in accordance with section A.1. of the general terms and conditions of this permit.

V. Testing Requirements

- 1. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following methods:

Emissions Unit ID: P049

Emissions Limitations for particulate and PM₁₀:

Particulate emissions shall not exceed 3.03 pounds per hour and 13.3 tons per year. PM₁₀ emissions shall not exceed 3.03 pounds per hour and 13.3 tons per year.

Applicable Compliance Method:

Within 180 days after startup of this emissions unit the permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates: Methods 1-4 and; Method 5 for particulate emissions and Method 201A or Method 201A for PM₁₀ emissions. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

The tests shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the tests, and the persons who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission tests.

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the tests, 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 and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions tests shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

Emission Limitation:

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

Applicable Compliance Method:

If required, compliance shall be determined through visible observations of the non-stack egress points from the building housing this emissions unit in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New

Emissions Unit ID: **P049**

Stationary Sources"), as such appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a), (B)(4)(b) and (B)(4)(c) of OAC rule 3745-17-03.

Emissions Limitation:

Visible particulate emissions shall not exceed 20% opacity as a 6 minute average, except as exempted by rule.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such appendix existed on July 1, 1996.

Emissions Limitation:

NO_x emissions shall not exceed 0.09 lb/hr and 0.40 tons per year.

Applicable Compliance Method:

Compliance for the NO_x emission limits be based upon an emission factor of 100 lb NO_x/million cubic feet (from table 1.4-1(7/98) of AP-42, 5th edition) and a maximum natural gas consumption of 850 CFH. If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 7E.

Emissions Limitation:

Carbon Monoxide emissions shall not exceed 0.07 lb/hr and 0.31 ton/yr.

Applicable Compliance Method:

Compliance with the CO emission limits shall be based upon an emission factor 84 lbs CO/million cubic feet (from table 1.4-1(7/98) of AP-42, 5th edition) and a maximum natural gas consumption of 850 CFH. If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 10.

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VI. Miscellaneous Requirements

1. This emissions unit shall be deemed in compliance if the total emissions from egress point SYSPC04 is equal to or less than the sum of the emission limits for P044, P045, P046, P049, P051, and P052 minus the emissions from egress point A12 (which are the emissions from the Granulation Drum, P049).

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B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P049 System 4 Granulation Drum and Process Cooler w/fabric filters	OAC rule 3745-31-05(D)	NH ₃ emissions shall not exceed 20.0 lbs/hour.

2. **Additional Terms and Conditions**

- 2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

1. Compliance with the emission limitation(s) in Section B.I. of these terms and conditions shall be determined in accordance with the following methods:

Emissions Limitation for NH₃:
Emissions shall not exceed 20.0 lbs/hr.

Emissions Unit ID: **P049**

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Applicable Compliance Method:

Compliance with the NH₃ emissions limit for this unit shall be demonstrated via the emissions testing required in the state only enforceable requirements in section Part II(B)(4) of this permit.

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VI. Miscellaneous Requirements

None

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Part III - Special Terms and Conditions for Specific Emissions Unit(s) [Continued]

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	OAC rule 3745-17-11(B)
P050 System 4 Packaging Operations w/fabric filter	40 <u>CFR</u> Part 52.21 OAC Rule 3745-31-10 through 20 OAC Rule 3745-31-05(A)(3)	
	OAC rule 3745-17-07(A)(1)	

Applicable Emissions
Limitations/Control
Measures

See A.I.2. below for Best Available Control Technology (BACT) determination.

Particulate emissions shall not exceed 0.51 pounds per hour and 2.25 tons per year.

Particulate emissions less than 10 microns (PM₁₀) shall not exceed 0.38 pounds per hour and 1.67 tons per year.

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

The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1) and 3745-31-10 through 20.

Visible particulate emissions shall not exceed 20% opacity as a 6 minute average, except as exempted by rule.

The emissions limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rules 3745-31-05(A)(3) and 3745-31-10 through 20.

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2. Additional Terms and Conditions

- 2.a** Pursuant to 40 CFR 52.21, the permittee shall install fabric filters to control PM/PM₁₀ emissions as Best Available Control Technology (BACT). The emissions from the fabric filter shall not exceed 0.005 grain/scf.
- 2.b** There shall be no visible fugitive particulate emissions escaping 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.

II. Operational Restrictions

- 1. The pressure drop across each fabric filter serving this emissions unit shall be maintained within the range of 0.5-15.0 inches of water column while the emissions unit is in operation.

III. Monitoring and/or Recordkeeping Requirements

- 1. This facility shall install, operate and maintain equipment to monitor the pressure drop across each fabric filter 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 manuals. The facility shall record the pressure drop across each fabric filter at least once per each operating shift of the emissions unit.

IV. Reporting Requirements

- 1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across any of the three (3) fabric filters did not comply with the allowable range specified above. These reports shall be submitted to the Ohio EPA, Central District Office in accordance with section A.1. of the general terms and conditions of this permit.

V. Testing Requirements

- 1. Compliance with the emission limitations in Section A.I. of these terms and conditions shall be determined in accordance with the following methods:

Emissions Limitations for particulate and PM₁₀:

Particulate emissions shall not exceed 0.51 pounds per hour and 2.25 tons per year. Particulate emissions less than 10 microns (PM₁₀) shall not exceed 0.38 pounds per hour and

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1.67 tons per year.

Applicable Compliance Method:

Within 180 days after startup of this emissions unit, the permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates: Methods 1-4 and; Method 5 for particulate emissions and Method 201A or Method 201A for PM₁₀ emissions. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

The tests shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the tests, and the persons who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission tests.

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the tests, 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 and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions tests shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the tests. The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

Emission Limitation:

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

Applicable Compliance Method:

If required, compliance shall be determined through visible observations of the non-stack egress

Emissions Unit ID: **P050**

points from the building housing this emissions unit in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a), (B)(4)(b) and (B)(4)(c) of OAC rule 3745-17-03.

Emissions Limitation:

Visible particulate emissions shall not exceed 20% opacity as a 6 minute average, except as exempted by rule.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such appendix existed on July 1, 1996.

VI. Miscellaneous Requirements

1. This emissions unit shall be deemed in compliance if the total emissions from egress point A14 is equal to or less than the emission limits for P050.

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B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P050 System 4 Packaging Operations w/fabric filter	None	None

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

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Emissions Unit ID: **P050**

Modification Issued: 12/27/2001

Part III - Special Terms and Conditions for Specific Emissions Unit(s) [Continued]

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	OAC rule 3745-17-11(B)
P051 System 4 milling, screening, elevators and conveyors w/fabric filter	40 <u>CFR</u> Part 52.21 OAC Rule 3745-31-10 through 20 OAC Rule 3745-31-05(A)(3)	
	OAC rule 3745-17-07(A)(1)	

Applicable Emissions
Limitations/Control
Measures

See A.I.2. below for Best Available Control Technology (BACT) determination.

Particulate emissions shall not exceed 0.51 pound per hour and 2.2 tons per year.

Particulate emissions less than 10 microns (PM₁₀) shall not exceed 0.51 pound per hour and 2.2 tons per year.

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

The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1) and 3745-31-10 through 20.

Visible particulate emissions shall not exceed 20% opacity as a 6 minute average, except as exempted by rule.

The emissions limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3) and 3745-31-10 through 20.

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2. Additional Terms and Conditions

- 2.a** Pursuant to 40 CFR 52.21, the permittee shall install a fabric filter to control PM/PM₁₀ emissions as Best Available Control Technology (BACT). The emissions from the fabric filter shall not exceed 0.005 grain/scf.
- 2.b** There shall be no visible fugitive particulate emissions escaping 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.

II. Operational Restrictions

1. The pressure drop across the fabric filter serving this emissions unit shall be maintained within the range of 0.5-15.0 inches of water column while the emissions unit is in operation.

III. Monitoring and/or Recordkeeping Requirements

1. This facility shall install, operate and maintain equipment to monitor the pressure drop across each fabric filter 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 manuals. The facility shall record the pressure drop across each fabric filter at least once per each operating shift of the emissions unit.

IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above. These reports shall be submitted to the Ohio EPA, Central District Office in accordance with section A.1. of the general terms and conditions of this permit.

V. Testing Requirements

1. Compliance with the emission limitations in Section A.I. of these terms and conditions shall be determined in accordance with the following methods:

Emissions Limitations for particulate and PM₁₀:

Emissions Unit ID: **P051**

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Particulate emissions shall not exceed 0.51 pounds per hour and 2.2 tons per year. Particulate emissions less than 10 microns (PM₁₀) shall not exceed 0.51 pounds per hour and 2.2 tons per year.

Applicable Compliance Method:

Within 180 days after startup of this emissions unit the permittee shall conduct, or have conducted, emissions testing to demonstrate compliance with the allowable mass emission rate for particulate

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and PM_{10} . The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates:

for particulate, Method 5 of 40 CFR Part 60, Appendix A;

for PM_{10} , Method 201 or 201A of 40 CFR Part 51, Appendix A;

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

The tests shall be conducted while the emissions units are operating at or near their maximum capacities, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Not later than 30 days prior to the proposed test dates, the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the tests, and the persons who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission tests.

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the tests, 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 and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions tests shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the tests. The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

Emission Limitation:

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

Emissions Unit ID: P051

Applicable Compliance Method:

If required, compliance shall be determined through visible observations of the non-stack egress points from the building housing this emissions unit in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a), (B)(4)(b) and (B)(4)(c) of OAC rule 3745-17-03.

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Emissions Limitation:

Visible particulate emissions shall not exceed 20% opacity as a 6 minute average, except as exempted by rule.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such appendix existed on July 1, 1996.

VI. Miscellaneous Requirements

1. This emissions unit shall be deemed in compliance if the total emissions from egress point SYSPC04 is equal to or less than the sum of the emission limits for P044, P045, P046, P049, P051, and P052 minus the emissions from egress point A12 (which are the emissions from the Granulation Drum, P049).

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B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P051 System 4 milling, screening, elevators and conveyors w/fabric filter	None	None

2. **Additional Terms and Conditions**

- 2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

Modification Issued: 12/27/2001

VI. Miscellaneous Requirements

None

Modification Issued: 12/27/2001

Part III - Special Terms and Conditions for Specific Emissions Unit(s) [Continued]**A. State and Federally Enforceable Section****I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	
P052 System 4 blending w/fabric filter	40 <u>CFR</u> Part 52.21 OAC Rule 3745-31-10 through 20	OAC rule 3745-17-07(A)(1)
	OAC Rule 3745-31-05(A)(3)	OAC rule 3745-17-11(B)

Applicable Emissions
Limitations/Control
Measures

See A.I.2. below for Best Available Control Technology (BACT) determination.

Particulate emissions shall not exceed 0.22 pound per hour and 0.95 ton per year.

Organic compounds 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).

Particulate emissions less than 10 microns (PM₁₀) shall not exceed 0.22 pound per hour and 0.95 ton per year.

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

The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1) and 3745-31-10 through 20.

Visible particulate emissions shall not exceed 20% opacity as a 6 minute average, except as exempted by rule.

The emissions limitation specified by this rule is less

stringent than the emission limitation established pursuant to OAC rules 3745-31-05(A)(3) and 3745-31-10 through 20.

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2. Additional Terms and Conditions

- 2.a** Pursuant to 40 CFR 52.21, the permittee shall install a fabric filter to control PM/PM₁₀ emissions as Best Available Control Technology (BACT). The emissions from the fabric filter shall not exceed 0.005 grain/scf.
- 2.b** There shall be no visible fugitive particulate emissions escaping 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.

II. Operational Restrictions

1. The pressure drop across the fabric filter serving this emissions unit shall be maintained within the range of 0.5-15.0 inches of water column while the emissions unit is in operation.

III. Monitoring and/or Recordkeeping Requirements

1. This facility shall install, operate and maintain equipment to monitor the pressure drop across each fabric filter 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 manuals. The facility shall record the pressure drop across each fabric filter at least once per each operating shift of the emissions unit.

IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above. These reports shall be submitted to the Ohio EPA, Central District Office in accordance with section A.1. of the general terms and conditions of this permit.

V. Testing Requirements

1. Compliance with the emission limitations in Section A.I. of these terms and conditions shall be determined in accordance with the following methods:

Emissions Limitations for particulate and PM₁₀:

Emissions Unit ID: **P052**

Modification Issued: 12/27/2001

Particulate emissions shall not exceed 0.22 pounds per hour and 0.95 tons per year. Particulate emissions less than 10 microns (PM₁₀) shall not exceed 0.22 pounds per hour and 0.95 tons per year.

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Applicable Compliance Method:

Within 180 days after startup of this emissions unit the permittee shall conduct, or have conducted, emissions testing to demonstrate compliance with the allowable mass emission rate for particulate and PM_{10} . The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates:

for particulate, Method 5 of 40 CFR Part 60, Appendix A;

for PM_{10} , Method 201 or 201A of 40 CFR Part 51, Appendix A;

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

The tests shall be conducted while the emissions units are operating at or near their maximum capacities, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Not later than 30 days prior to the proposed test dates, the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the tests, and the persons who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission tests.

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the tests, 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 and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions tests shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the tests. The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

Emission Limitation:

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

Emissions Unit ID: P052

unit.

Applicable Compliance Method:

If required, compliance shall be determined through visible observations of the non-stack egress points from the building housing this emissions unit in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a), (B)(4)(b) and (B)(4)(c) of OAC rule 3745-17-03.

Emissions Limitation:

Visible particulate emissions shall not exceed 20% opacity as a 6 minute average, except as exempted by rule.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such appendix existed on July 1, 1996.

Emissions Limitation:

Organic compounds 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:

Compliance with this limit is based on previous stack test conducted in similar emissions units at the facility. The permittee conducted stack testing on System 1 and System 2 pesticide melters and blenders. The stack test results were 0.49 pound per hour of organic compounds. If required, the permittee shall conduct stack testing to show compliance with these emissions limitations in accordance to test methods 1-4 and 25A.

VI. Miscellaneous Requirements

1. This emissions unit shall be deemed in compliance if the total emissions from egress point SYSPC04 is equal to or less than the sum of the emission limits for P044, P045, P046, P049, P051, and P052 minus the emissions from egress point A12 (which are the emissions from the Granulation Drum, P049).

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B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P052 System 4 blending w/fabric filter	None	None

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

Emissions Unit ID: **P053**

1. Pursuant to Engineering Guide #69, modeling to demonstrate compliance with the Ohio EPA's Air Toxic Policy was not necessary since the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant that has a listed TLV to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

Modification Issued: 12/27/2001

Part III - Special Terms and Conditions for Specific Emissions Unit(s) [Continued]

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	
P053 System 3&4 mixer melters w/wet scrubber	40 <u>CFR</u> Part 52.21 OAC Rule 3745-31-10 through 20 OAC Rule 3745-31-05(A)(3)	OAC rule 3745-17-11(B)
	OAC rule 3745-17-07(A)(1)	

Modification Issued: 12/27/2001

Applicable Emissions
Limitations/Control
Measures

See A.I.2. below for Best Available Control Technology (BACT) determination.

Particulate emissions shall not exceed 0.51 pound per hour and 2.2 tons per year;

Organic compounds emissions shall not exceed 1.50 pounds per hour and 6.6 tons per year from the pesticide melter/mixer (P053), System 3 blender (P042) and System 4 blender (P052).

Particulate emissions less than 10 microns (PM₁₀) shall not exceed 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)(1) and 3745-31-10 through 20.

Visible particulate emissions shall not exceed 20% opacity as a 6 minute average, except as exempted by rule.

The emissions limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rules 3745-31-05(A)(3) and 3745-31-10 through 20.

Modification Issued: 12/27/2001

2. Additional Terms and Conditions

- 2.a** Pursuant to 40 CFR 52.21, the permittee shall install a wet scrubber to control of PM/PM₁₀ emissions as Best Available Control Technology (BACT). The emissions from the wet scrubber shall not exceed 0.01 grain/scf.

II. Operational Restrictions

1. The pressure drop across the wet scrubber shall be continuously maintained at a value of not less than 0.15 inches of water at all times while the emissions unit is in operation.
2. The wet scrubber water flow rate shall be continuously maintained consistent with the scrubber manufacturer's recommended range.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall properly install, operate, inspect, and maintain equipment to monitor the pressure drop across the wet scrubber and water flow rate through the wet scrubber while the emission 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 pressure drop across the wet scrubber and the water flow rate through the wet scrubber on a per shift basis.
2. The per shift records shall include the shift, the time, the 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 actual measured pressure drop in inches of water column across the wet scrubber and the actual measured gallons of water per minute through the wet scrubber.

IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify each period of time during which the pressure drop across the wet scrubber did not comply with the allowable range specified above.
2. The permittee shall submit water flow rate deviation (excursion) reports that identify each period of time during which the water flow rate through the scrubber did not comply with the allowable range specified above.

V. Testing Requirements

Emissions Unit ID: P053

1. Compliance with the emission limitations in Section A.I. of these terms and conditions shall be determined in accordance with the following methods:

Emissions Limitations for particulate and PM₁₀:

Particulate emissions shall not exceed 0.51 pounds per hour and 2.2 tons per year. Particulate emissions less than 10 microns (PM₁₀) shall not exceed 0.51 pounds per hour and 2.2 tons per year.

Applicable Compliance Method:

Within 180 days after startup of this emissions unit the permittee shall conduct, or have conducted, emissions testing to demonstrate compliance with the allowable mass emission rate for particulate and PM₁₀. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates:

for particulate, Method 5 of 40 CFR Part 60, Appendix A;

for PM₁₀, Method 201 or 201A of 40 CFR Part 51, Appendix A;

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

The tests shall be conducted while the emissions units are operating at or near their maximum capacities, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Not later than 30 days prior to the proposed test dates, the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the tests, and the persons who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission tests.

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the tests, 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 and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions tests shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the tests. The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

Modification Issued: 12/27/2001

Emissions Limitation:

Visible particulate emissions shall not exceed 20% opacity as a 6 minute average, except as exempted by rule.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such appendix existed on July 1, 1996.

Emissions Limitation:

Organic compounds 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:

Compliance with this limit is based on previous stack test conducted in similar emissions units at the facility. The permittee conducted stack testing on System 1 and System 2 pesticide melters and blenders. The stack test results were 0.49 pound per hour of organic compounds. If required, the permittee shall conduct stack testing to show compliance with these emissions limitations in accordance to test methods 1-4 and 25A.

VI. Miscellaneous Requirements

1. This emissions unit shall be deemed in compliance if the total emissions from egress point A8 is equal to or less than the emission limits for P053.

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>
P053 System 3&4 mixer melters w/wet scrubber	None
<u>Applicable Emissions Limitations/Control Measures</u>	
None	

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

Modification Issued: 12/27/2001

1. Pursuant to Engineering Guide #69, modeling to demonstrate compliance with the Ohio EPA's Air Toxic Policy was not necessary since the emissions unit's maximum annual emissions for each toxic compound will be less than 1.0 ton. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as

defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant that has a listed TLV to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

Modification Issued: 12/27/2001

Part III - Special Terms and Conditions for Specific Emissions Unit(s) [Continued]**A. State and Federally Enforceable Section****I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	
P054 Specialty Mon-A-Mon, & Potash Handling/unloading w/ fabric filter	40 <u>CFR</u> Part 52.21 OAC Rule 3745-31-10 through 20 OAC Rule 3745-31-05(A)(3)	OAC rule 3745-17-11(B)
	OAC rule 3745-17-07(A)(1)	

Modification Issued: 12/27/2001

Applicable Emissions
Limitations/Control
Measures

See A.I.2. below for Best Available Control Technology (BACT) determination.

Particulate emissions shall not exceed 1.4 pounds per hour and 6.1 tons per year;

Fugitive visible particulate emissions from this emissions unit shall not exceed 20% opacity as a 3 minute average;

Particulate emissions less than 10 microns (PM₁₀) shall not exceed 1.06 pounds per hour and 4.6 tons per year (these emissions limits include fugitive emissions);

The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1) and 3745-31-10 through 20.

Visible particulate emissions from the stack shall not exceed 20% opacity as a 6 minute average, except as exempted by rule.

The emissions limitation specified by this rule is less

stringent than the emission limitation established pursuant to OAC rules 3745-31-05(A)(3) and 3745-31-10 through 20.

Modification Issued: 12/27/2001

2. Additional Terms and Conditions

- 2.a** Pursuant to 40 CFR 52.21, the permittee shall install a fabric filter to control PM/PM₁₀ emissions as Best Available Control Technology (BACT) that is sufficient to minimize or eliminate visible emissions of fugitive dust. The emissions from the fabric filter shall not exceed 0.005 grain PM/scf.

II. Operational Restrictions

1. The pressure drop across the fabric filter serving this emissions unit shall be maintained within the range of 0.5-15.0 inches of water while the emissions unit is in operation.

III. Monitoring and/or Recordkeeping Requirements

1. This facility shall install, operate and maintain equipment to monitor the pressure drop across the fabric filter 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 manuals. The facility shall record the pressure drop across each fabric filter at least once per each operating shift of the emissions unit.

IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above. These reports shall be submitted to the Ohio EPA, Central District Office in accordance with section A.1. of the general terms and conditions of this permit.

V. Testing Requirements

1. Compliance with the emission limitations in Section A.I. of these terms and conditions shall be determined in accordance with the following methods:

Emissions Limitations for particulate and PM₁₀:

Particulate emissions shall not exceed 1.4 pounds per hour and 6.1 tons per year; Particulate emissions less than 10 microns (PM₁₀) shall not exceed 1.06 pounds per hour and 4.6 tons per year (these emissions limits include fugitive emissions)

Applicable Compliance Method:

Fugitive PM/PM₁₀ mass emissions determination- Fugitive emissions estimates for this operation shall be based upon an overall 94% capture efficiency and an uncontrolled PM/PM₁₀

Emissions Unit ID: P054

emissions factor of 0.2 lb/ton (based on the Ohio EPA RACM document, Figure 2.12.-3) of material handled unless otherwise approved by Ohio EPA.

Within 180 days after startup of this emissions unit the permittee shall conduct, or have conducted, emissions testing to demonstrate compliance with the allowable PM and PM₁₀ emissions limits. The following test methods shall be employed to demonstrate compliance with the allowable mass emissions rates:

for particulate, Methods 1-4 and Method 5;

for PM₁₀, Method 201 or 201A of 40 CFR Part 51, Appendix A.

The emissions testing shall be conducted while the emissions units are operating at or near the maximum capacities, unless otherwise approved by the Ohio EPA.

Not later than 30 days prior to the proposed test dates, the permittee shall submit a completed "Intent To Test" (ITT) to the Ohio EPA Central District Office. The ITT shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in Ohio EPA refusal to accept the results of the emissions test.

Personnel from the Ohio EPA shall be permitted to witness the tests, 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 and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) 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 tests. The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA.

Emissions Limitation:

Visible particulate emissions shall not exceed 20% opacity as a 6 minute average, except as exempted by rule and fugitive visible particulate emissions from this emissions unit shall not exceed 20% opacity as a 3 minute average.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

VI. Miscellaneous Requirements

None

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>
P054 Specialty Mon-A-Mon, & Potash Handling/unloading w/ fabric filter	None
<u>Applicable Emissions Limitations/Control Measures</u>	

None

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

Emissions Unit ID: **P054**

Modification Issued: 12/27/2001

None

Modification Issued: 12/27/2001

Part III - Special Terms and Conditions for Specific Emissions Unit(s) [Continued]**A. State and Federally Enforceable Section****I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

Operations, Property, <u>and/or</u> <u>Equipment</u>	<u>Applicable Rules/Requirements</u>	OAC rule 3745-17-11(B)
P055 Specialty Urea Handling/Unloading w/fabric filter	40 <u>CFR</u> Part 52.21 OAC Rule 3745-31-10 through 20 OAC Rule 3745-31-05(A)(3)	
	OAC rule 3745-17-07(A)(1)	

Modification Issued: 12/27/2001

Applicable Emissions
Limitations/Control
Measures

See A.I.2. below for Best Available Control Technology (BACT) determination.

Particulate emissions shall not exceed 0.25 pound per hour and 1.1 tons per year;

Fugitive visible particulate emissions from this emissions unit shall not exceed 20% opacity as a 3 minute average;

Particulate emissions less than 10 microns (PM₁₀) shall not exceed 0.8 pound per hour and 0.21 ton per year (these emissions limits include fugitive emissions);

The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1) and 3745-31-10 through 20.

Visible particulate emissions from the stack shall not exceed 20% opacity as a 6 minute average, except as exempted by rule.

The emissions limitation

specified by this rule is less stringent than the emission limitation established pursuant to OAC rules 3745-31-05(A)(3) and 3745-31-10 through 20.

Modification Issued: 12/27/2001

2. Additional Terms and Conditions

- 2.a** Pursuant to 40 CFR 52.21, the permittee shall install a fabric filter to control PM/PM₁₀ emissions as Best Available Control Technology (BACT) that is sufficient to minimize or eliminate visible emissions of fugitive dust. The emissions from the fabric filter shall not exceed 0.005 grain PM/scf.

II. Operational Restrictions

1. The pressure drop across the fabric filter serving this emissions unit shall be maintained within the range of 0.5-15.0 inches of water while the emissions unit is in operation.

III. Monitoring and/or Recordkeeping Requirements

1. This facility shall install, operate and maintain equipment to monitor the pressure drop across the fabric filter 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 manuals. The facility shall record the pressure drop across each fabric filter at least once per each operating shift of the emissions unit.

IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the fabric filter did not comply with the allowable range specified above. These reports shall be submitted to the Ohio EPA, Central District Office in accordance with section A.1. of the general terms and conditions of this permit.

V. Testing Requirements

1. Compliance with the emission limitations in Section A.I. of these terms and conditions shall be determined in accordance with the following methods:

Emissions Limitations for particulate and PM₁₀:

Particulate emissions shall not exceed 0.25 pound per hour and 1.1 tons per year; Particulate emissions less than 10 microns (PM₁₀) shall not exceed 0.8 pound per hour and .21 ton per year (these emissions limits include fugitive emissions);

Applicable Compliance Method:

Fugitive PM/PM₁₀ mass emissions determination- Fugitive emissions estimates for this operation shall be based upon an overall 94% capture efficiency and an uncontrolled emissions factors of

Emissions Unit ID: P055

0.02 lb PM/ton and 0.017 lb PM₁₀/ton (both based on FIRE v6.01/SCC 301040007) of material handled unless otherwise approved by Ohio EPA.

Within 180 days after startup of this emissions unit the permittee shall conduct, or have conducted, emissions testing to demonstrate compliance with the allowable PM and PM₁₀ emissions limits.

The emissions testing shall be conducted while the emissions units are operating at or near the maximum capacities, unless otherwise approved by the Ohio EPA.

Not later than 30 days prior to the proposed test dates, the permittee shall submit a completed "Intent To Test" (ITT) to the Ohio EPA Central District Office. The ITT shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in Ohio EPA refusal to accept the results of the emissions test.

Personnel from the Ohio EPA shall be permitted to witness the tests, 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 and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) 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 tests. The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA.

Emissions Limitation:

Visible particulate emissions shall not exceed 20% opacity as a 6 minute average, except as exempted by rule and fugitive visible particulate emissions from this emissions unit shall not exceed 20% opacity as a 3 minute average.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

VI. Miscellaneous Requirements

None

Modification Issued: 12/27/2001

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P055 Specialty Urea Handling/Unloading w/fabric filter	None	None

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

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DTI Application: **01 07002**

Facility ID: **0180010008**

Emissions Unit ID: **P055**

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Part III - Special Terms and Conditions for Specific Emissions Unit(s) [Continued]**A. State and Federally Enforceable Section****I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P056 Specialty resin reactor #1 w/wet scrubber	40 <u>CFR</u> Part 52.21 OAC Rule 3745-31-10 through 20	See A.I.2. below for Best Available Control Technology (BACT) determination.
	OAC Rule 3745-31-05(A)(3)	Particulate emissions shall not exceed 0.44 pounds per hour and 1.9 tons per year.
		Particulate emissions less than 10 microns (PM ₁₀) shall not exceed 0.44 pounds per hour and 1.9 tons per year.
		The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1) and 3745-31-10 through 20.
	OAC rule 3745-17-07(A)(1)	Visible particulate emissions shall not exceed 20% opacity as a 6 minute average, except as exempted by rule.
	OAC rule 3745-17-11(B)	The emissions limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rules 3745-31-05(A)(3) and 3745-31-10

Modification Issued: 12/27/2001

through 20.

2. Additional Terms and Conditions

- 2.a** Pursuant to 40 CFR 52.21, the permittee shall install a wet scrubber to control of PM/PM₁₀ emissions as Best Available Control Technology (BACT). The emissions from the wet scrubber shall not exceed 0.01 grain/scf.

II. Operational Restrictions

1. The pressure drop across the wet scrubber shall be continuously maintained at a value of not less than 0.15 inches of water at all times while the emissions unit is in operation.
2. The wet scrubber water flow rate shall be continuously maintained consistent with the scrubber manufacturer's recommended range.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall properly install, operate, inspect, and maintain equipment to monitor the pressure drop across the wet scrubber and water flow rate through the wet scrubber while the emission 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 pressure drop across the wet scrubber and the water flow rate through the wet scrubber on a per shift basis.
2. The per shift records shall include the shift, the time, the 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 actual measured pressure drop in inches of water column across the wet scrubber and the actual measured gallons of water per minute through the wet scrubber.

IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify each period of time during which the pressure drop across the wet scrubber did not comply with the allowable range specified above. The reports shall be submitted to the Ohio EPA, Central District Office in accordance with section A.1. of the general terms and conditions of this permit.
2. The permittee shall submit water flow rate deviation (excursion) reports that identify each period of time during which the water flow rate through the scrubber did not comply with the allowable range specified above. The reports shall be submitted to the Ohio EPA, Central District Office in accordance with section A.1. of the general terms and conditions of this permit.

V. Testing Requirements

1. Compliance with the emission limitations in Section A.I. of these terms and conditions shall be determined in accordance with the following methods:

Emissions Limitations for particulate and PM₁₀:

Particulate emissions shall not exceed 0.44 pounds per hour and 1.9 tons per year. Particulate emissions less than 10 microns (PM₁₀) shall not exceed 0.44 pounds per hour and 1.9 tons per year.

Emissions Unit ID: P056

Applicable Compliance Method:

Within 180 days after startup of this emissions unit the permittee shall conduct, or have conducted, emissions testing to demonstrate compliance with the allowable mass emission rate for particulate and, PM_{10} . The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates:

for particulate, Method 5 of 40 CFR Part 60, Appendix A;

for PM_{10} , Method 201 or 201A of 40 CFR Part 51, Appendix A;

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

The tests shall be conducted while the emissions units are operating at or near their maximum capacities, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Not later than 30 days prior to the proposed test dates, the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the tests, and the persons who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission tests.

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the tests, 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 and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions tests shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the tests. The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

Emissions Limitation:

Visible particulate emissions shall not exceed 20% opacity as a 6 minute average, except as exempted by rule.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such appendix existed on July 1, 1996.

Modification Issued: 12/27/2001

VI. Miscellaneous Requirements

1. This emissions unit shall be deemed in compliance if the total emissions from egress point A7 is equal to or less than the sum of the emission limits for P056 and P057 (total of each emission limitation of each emission unit venting to that egress point).

Modification Issued: 12/27/2001

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P056 Specialty resin reactor #1 w/wet scrubber	OAC rule 3745-31-05(D)	NH ₃ emissions shall not exceed 42.0 lbs/hour.

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

1. Compliance with the emission limitations in Section B.I. of these terms and conditions shall be determined in accordance with the following methods:

Emissions Limitation for NH₃:
Emissions shall not exceed 42.0 lbs/hr.

Applicable Compliance Method:

Compliance with the NH₃ emissions limit for this unit shall be demonstrated via the emissions testing required in the state only enforceable requirements in section Part II(B)(4) of this permit.

VI. Miscellaneous Requirements

None

Part III - Special Terms and Conditions for Specific Emissions Unit(s) [Continued]

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

- The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P057 Specialty resin reactor #2 w/wet scrubber	40 CFR Part 52.21 OAC Rule 3745-31-10 through 20 OAC Rule 3745-31-05(A)(3)	See A.I.2. below for Best Available Control Technology (BACT) determination. Particulate emissions shall not exceed 0.44 pounds per hour and 1.9 tons per year. Particulate emissions less than 10 microns (PM ₁₀) shall not exceed 0.44 pounds per hour and 1.9 tons per year. The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1) and 3745-31-10 through 20. Visible particulate emissions shall not exceed 20% opacity as a 6 minute average, except as exempted by rule. The emissions limitation specified by this rule is less stringent than the emission
	OAC rule 3745-17-07(A)(1)	
	OAC rule 3745-17-11(B)	

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limitation established
pursuant to OAC rules
3745-31-05(A)(3) and
3745-31-10 through 20.

2. Additional Terms and Conditions

- 2.a** Pursuant to 40 CFR 52.21, the permittee shall install a wet scrubber to control of PM/PM₁₀ emissions as Best Available Control Technology (BACT). The emissions from the wet scrubber shall not exceed 0.01 grain/scf.

II. Operational Restrictions

1. The pressure drop across the wet scrubber shall be continuously maintained at a value of not less than 0.15 inches of water at all times while the emissions unit is in operation.
2. The wet scrubber water flow rate shall be continuously maintained consistent with the scrubber manufacturer's recommended range.

III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall properly install, operate, inspect, and maintain equipment to monitor the pressure drop across the wet scrubber and water flow rate through the wet scrubber while the emission 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 pressure drop across the wet scrubber and the water flow rate through the wet scrubber on a per shift basis.
2. The per shift records shall include the shift, the time, the 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 actual measured pressure drop in inches of water column across the wet scrubber and the actual measured gallons of water per minute through the wet scrubber.

IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify each period of time during which the pressure drop across the wet scrubber did not comply with the allowable range specified above. The reports shall be submitted to the Ohio EPA, Central District Office in

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accordance with section A.1. of the general terms and conditions of this permit.

2. The permittee shall submit water flow rate deviation (excursion) reports that identify each period of time during which the water flow rate through the scrubber did not comply with the allowable range specified above. The reports shall be submitted to the Ohio EPA, Central District Office in accordance with section A.1. of the general terms and conditions of this permit.

V. Testing Requirements

1. Compliance with the emission limitations in Section A.I. of these terms and conditions shall be determined in accordance with the following methods:

Emissions Limitations for particulate and PM₁₀:

Particulate emissions shall not exceed 0.44 pounds per hour and 1.9 tons per year. Particulate emissions less than 10 microns (PM₁₀) shall not exceed 0.44 pounds per hour and 1.9 tons per year.

Emissions Unit ID: P057

Applicable Compliance Method:

Within 180 days after startup of this emissions unit the permittee shall conduct, or have conducted, emissions testing to demonstrate compliance with the allowable mass emission rate for particulate and PM_{10} . The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates:

for particulate, Method 5 of 40 CFR Part 60, Appendix A;

for PM_{10} , Method 201 or 201A of 40 CFR Part 51, Appendix A;

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

The tests shall be conducted while the emissions units are operating at or near their maximum capacities, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Not later than 30 days prior to the proposed test dates, the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the tests, and the persons who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission tests.

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the tests, 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 and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions tests shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the tests. The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

Emissions Limitation:

Visible particulate emissions shall not exceed 20% opacity as a 6 minute average, except as exempted by rule.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such appendix existed on July 1, 1996.

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VI. Miscellaneous Requirements

1. This emissions unit shall be deemed in compliance if the total emissions from egress point A7 is equal to or less than the sum of the emission limits for P056 and P057 (total of each emission limitation of each emission unit venting to that egress point).

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B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>
Specialty resin reactor #2 w/wet scrubber	OAC rule 3745-31-05(D)
<u>Applicable Emissions Limitations/Control Measures</u>	
NH ₃ emissions shall not exceed 42.0 lbs/hour.	

2. Additional Terms and Conditions

- 2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

1. Compliance with the emission limitations in Section B.I. of these terms and conditions shall be determined in accordance with the following methods:

Emissions Limitation for NH₃:

Emissions shall not exceed 42.0 lbs/hr.

Applicable Compliance Method:

Compliance with the NH₃ emissions limit for this unit shall be demonstrated via the emissions testing required in the state only enforceable requirements in section Part II(B)(4) of this permit.

Emissions Unit ID: **P057**

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VI. Miscellaneous Requirements

None

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Part III - Special Terms and Conditions for Specific Emissions Unit(s) [Continued]**A. State and Federally Enforceable Section****I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	
P058 Specialty Granulation Drum and Process Cooler w/fabric filters	40 <u>CFR</u> Part 52.21 OAC Rule 3745-31-10 through 20	OAC rule 3745-23-06(B)
	OAC Rule 3745-31-05(A)(3)	
		OAC rule 3745-21-08(B)
		OAC rule 3745-17-07(A)(1)
		OAC rule 3745-17-11(B)

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Applicable Emissions
Limitations/Control
Measures

See A.I.2. below for Best Available Control Technology (BACT) determination.

Particulate emissions shall not exceed 3.03 pounds per hour and 13.3 tons per year.

Particulate emissions less than 10 microns (PM₁₀) shall not exceed 3.03 pounds per hour and 13.3 tons per year.

NO_x emissions shall not exceed 0.09 pounds per hour and 0.40 tons per year. See A.II.2. below.

CO emissions shall not exceed 0.07 pounds per hour and 0.31 tons per year. See A.II.2. below.

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

The requirements of this rule also include compliance with the requirements of OAC rules

3745-17-07(A)(1) and 3745-31-10 through 20.

The emissions limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

The emissions limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

Visible particulate emissions shall not exceed 20% opacity as a 6 minute average, except as exempted by rule.

The emissions limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rules 3745-31-05(A)(3) and 3745-31-10 through 20.

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2. Additional Terms and Conditions

- 2.a** Pursuant to 40 CFR 52.21, the permittee shall install a fabric filter to control PM/PM₁₀ emissions as Best Available Control Technology (BACT). The emissions from the fabric filter shall not exceed 0.005 grain/scf.
- 2.b** There shall be no visible fugitive particulate emissions escaping 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.

II. Operational Restrictions

1. The pressure drop across the fabric filter shall be maintained within the range of 0.5-15.0 inches of water while the emissions unit is in operation.
2. The permittee shall burn only natural gas or LPG in this emissions unit.

III. Monitoring and/or Recordkeeping Requirements

1. This facility shall install, operate and maintain equipment to monitor the pressure drop across each fabric filter 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 manuals. The facility shall record the pressure drop across each fabric filter at least once per each operating shift of the emissions unit.

IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above. These reports shall be submitted to the Ohio EPA, Central District Office in accordance with section A.1. of the general terms and conditions of this permit.

V. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):

Emissions Limitations for particulate and PM₁₀:

Particulate emissions shall not exceed 3.03 pounds per hour and 13.3 tons per year. PM₁₀ emissions shall not exceed 3.03 pounds per hour and 13.3 tons per year.

Applicable Compliance Method:

Within 180 days after startup of this emissions unit, the permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): Methods 1-4 and; Method 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.

The tests shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the tests, and the persons who will be conducting the tests. Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission tests.

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the tests, 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 and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions tests shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

Emission Limitation:

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

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Applicable Compliance Method:

If required, compliance shall be determined through visible observations of the non-stack egress points from the building housing this emissions unit in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a), (B)(4)(b) and (B)(4)(c) of OAC rule 3745-17-03.

Emissions Limitation:

Visible particulate emissions shall not exceed 20% opacity as a 6 minute average, except as exempted by rule.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such appendix existed on July 1, 1996.

Emissions Limitation:

NO_x emissions shall not exceed 0.09 lb/hr and 0.40 tons per year.

Applicable Compliance Method:

Compliance for the NO_x emission limits be based upon an emission factor of 100 lb NO_x/million cubic feet (from table 1.4-1(7/98) of AP-42, 5th edition) and a maximum natural gas consumption of 850 CFH. If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 7E.

Emissions Limitation:

Carbon Monoxide emissions shall not exceed 0.07 lb/hr and 0.31 ton/yr.

Applicable Compliance Method:

Compliance with the CO emission limits shall be based upon an emission factor 84 lbs CO/million cubic feet (from table 1.4-1(7/98) of AP-42, 5th edition) and a maximum natural gas consumption of 850 CFH. If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 10.

VI. Miscellaneous Requirements

1. This emissions unit shall be deemed in compliance if the total emissions from egress points A2 and A3 are equal to or less than the sum of the emission limits for P058, P059 and P060 (total of each emission limitation for each emission unit venting to that egress point).

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B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P058 Specialty Granulation Drum and Process Cooler w/fabric filters	OAC rule 3745-31-05(D)	NH ₃ emissions shall not exceed 20.0 lbs/hour.

2. **Additional Terms and Conditions**

- 2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

1. Compliance with the emission limitation(s) in Section B.I. of these terms and conditions shall be determined in accordance with the following method(s):

Emissions Limitation for NH₃:
Emissions shall not exceed 42.0 lbs/hr.

Emissions Unit ID: **P058**

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Applicable Compliance Method:

Compliance with the NH₃ emissions limit for this unit shall be demonstrated via the emissions testing required in the state only enforceable requirements in section Part II(B)(4) of this permit.

Emissions Unit ID: **P058**

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VI. Miscellaneous Requirements

None

OAC rule 3745-17-11(B)

Applicable Emissions
Limitations/Control Measures

See A.I.2. below for Best Available Control Technology (BACT) determination.

Particulate emissions shall not exceed 0.51 pound per hour and 2.2 tons per year.

Particulate emissions less than 10 microns (PM₁₀) shall not exceed 0.51 pound per hour and 2.2 tons per year.

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

The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1) and 3745-31-10 through 20.

Visible particulate emissions shall not exceed 20% opacity as a 6 minute average, except as exempted by rule.

The emissions limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rules 3745-31-05(A)(3) and 3745-31-10 through 20.

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2. Additional Terms and Conditions

2.a Pursuant to 40 CFR 52.21, the permittee shall install a fabric filter to control PM/PM₁₀ emissions as Best Available Control Technology (BACT). The emissions from the fabric filter shall not exceed 0.005 grain/scf.

2.b There shall be no visible fugitive particulate emissions escaping 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.

II. Operational Restrictions

1. The pressure drop across the fabric filter serving this emissions unit shall be maintained within the range of 0.5-15.0 inches of water column while the emissions unit is in operation.

III. Monitoring and/or Recordkeeping Requirements

1. This facility shall install, operate and maintain equipment to monitor the pressure drop across each fabric filter 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 manuals. The facility shall record the pressure drop across each fabric filter at least once per each operating shift of the emissions unit.

IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above. These reports shall be submitted to the Ohio EPA, Central District Office in accordance with section A.1. of the general terms and conditions of this permit.

V. Testing Requirements

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1. Compliance with the emission limitations in Section A.I. of these terms and conditions shall be determined in accordance with the following methods:

Emissions Limitations for particulate and PM₁₀:

Particulate emissions shall not exceed 0.51 pounds per hour and 2.2 tons per year. Particulate emissions less than 10 microns (PM₁₀) shall not exceed 0.51 pounds per hour and 2.2 tons per year.

Applicable Compliance Method:

Within 180 days after startup of this emissions unit the permittee shall conduct, or have conducted, emissions testing to demonstrate compliance with the allowable mass emission rate for particulate

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and PM_{10} . The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates:

for particulate, Method 5 of 40 CFR Part 60, Appendix A;

for PM_{10} , Method 201 or 201A of 40 CFR Part 51, Appendix A;

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

The tests shall be conducted while the emissions units are operating at or near their maximum capacities, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Not later than 30 days prior to the proposed test dates, the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the tests, and the persons who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission tests.

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the tests, 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 and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions tests shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the tests. The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

Emissions Limitation:

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

Applicable Compliance Method:

If required, compliance shall be determined through visible observations of the non-stack egress

Emissions Unit ID: **P059**

points from the building housing this emissions unit in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a), (B)(4)(b) and (B)(4)(c) of OAC rule 3745-17-03.

Emissions Limitation:

Visible particulate emissions shall not exceed 20% opacity as a 6 minute average, except as exempted by rule.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such appendix existed on July 1, 1996.

VI. Miscellaneous Requirements

1. This emissions unit shall be deemed in compliance if the total emissions from egress point A3 is equal to or less than the sum of the emission limits for P058, P059 and P060 minus the total emissions from egress point A2 (which are the emissions from the granulation drum, P058).

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B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P059 Specialty milling, screening, elevators and conveyors w/fabric filter	None	None

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

Emissions Unit ID: **P059**

Modification Issued: 12/27/2001

None

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Part III - Special Terms and Conditions for Specific Emissions Unit(s) [Continued]**A. State and Federally Enforceable Section****I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	OAC rule 3745-17-11(B)
P060 Specialty blending w/fabric filter	40 <u>CFR</u> Part 52.21 OAC Rule 3745-31-10 through 20 OAC Rule 3745-31-05(A)(3)	
	OAC rule 3745-17-07(A)(1)	

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Applicable Emissions
Limitations/Control
Measures

See A.I.2. below for Best Available Control Technology (BACT) determination.

Particulate emissions shall not exceed 0.07 pound per hour and 0.32 ton per year.

Particulate emissions less than 10 microns (PM₁₀) shall not exceed 0.07 pound per hour and 0.32 ton per year.

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

The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1) and 3745-31-10 through 20.

Visible particulate emissions shall not exceed 20% opacity as a 6 minute average, except as exempted by rule.

The emissions limitation specified by this rule is less

stringent than the emission limitation established pursuant to OAC rules 3745-31-05(A)(3) and 3745-31-10 through 20.

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The Scotts Co

DTI Application: 01 07002

Facility ID: 0180010008

Emissions Unit ID: P060

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2. Additional Terms and Conditions

- 2.a** Pursuant to 40 CFR 52.21, the permittee shall install a fabric filter to control PM/PM₁₀ emissions as Best Available Control Technology (BACT). The emissions from the fabric filter shall not exceed 0.005 grain/scf.
- 2.b** There shall be no visible fugitive particulate emissions escaping 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.

II. Operational Restrictions

- 1. The pressure drop across the fabric filter serving this emissions unit shall be maintained within the range of 0.5-15.0 inches of water column while the emissions unit is in operation.

III. Monitoring and/or Recordkeeping Requirements

- 1. This facility shall install, operate and maintain equipment to monitor the pressure drop across each fabric filter 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 manuals. The facility shall record the pressure drop across each fabric filter at least once per each operating shift of the emissions unit.

IV. Reporting Requirements

- 1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above. These reports shall be submitted to the Ohio EPA, Central District Office in accordance with section A.1. of the general terms and conditions of this permit.

V. Testing Requirements

- 1. Compliance with the emission limitations in Section A.I. of these terms and conditions shall be determined in accordance with the following methods:

Emissions Limitations for particulate and PM₁₀:

Particulate emissions shall not exceed 0.07 pounds per hour and 0.32 tons per year. Particulate

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emissions less than 10 microns (PM₁₀) shall not exceed 0.07 pounds per hour and 0.32 tons per year.

Applicable Compliance Method:

Within 180 days after startup of this emissions unit the permittee shall conduct, or have conducted, emissions testing to demonstrate compliance with the allowable mass emission rate for particulate and PM₁₀. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates:

for particulate, Method 5 of 40 CFR Part 60, Appendix A;

for PM₁₀, Method 201 or 201A of 40 CFR Part 51, Appendix A;

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

The tests shall be conducted while the emissions units are operating at or near their maximum capacities, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Not later than 30 days prior to the proposed test dates, the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the tests, and the persons who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission tests.

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the tests, 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 and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions tests shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the tests. The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

Emissions Unit ID: P060

Emissions Limitation:

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

Applicable Compliance Method:

If required, compliance shall be determined through visible observations of the non-stack egress points from the building housing this emissions unit in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a), (B)(4)(b) and (B)(4)(c) of OAC rule 3745-17-03.

Emissions Limitation:

Visible particulate emissions shall not exceed 20% opacity as a 6 minute average, except as exempted by rule.

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Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such appendix existed on July 1, 1996.

VI. Miscellaneous Requirements

1. This emissions unit shall be deemed in compliance if the total emissions from egress point A3 is equal to or less than the sum of the emission limits for P058, P059 and P060 minus the total emissions from egress point A2 (which are the emissions from the granulation drum, P058).

Modification Issued: 12/27/2001

B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

Operations, Property, <u>and/or</u> <u>Equipment</u>	<u>Applicable</u> <u>Rules/Requirements</u>	<u>Applicable Emissions</u> <u>Limitations/Control Measures</u>
P060 Specialty blending w/fabric filter	None	None

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

Modification Issued: 12/27/2001

None

Part III - Special Terms and Conditions for Specific Emissions Unit(s) [Continued]**A. State and Federally Enforceable Section****I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	
P061 Specialty Packaging Operations w/fabric filter	40 <u>CFR</u> Part 52.21 OAC Rule 3745-31-10 through 20	OAC rule 3745-17-07(A)(1)
	OAC Rule 3745-31-05(A)(3)	OAC rule 3745-17-11(B)

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Applicable Emissions
Limitations/Control
Measures

pursuant to OAC rules
3745-31-05(A)(3) and 3745-31-10
through 20.

See A.I.2. below for Best Available Control Technology (BACT) determination.

Particulate emissions shall not exceed 0.51 pounds per hour and 2.25 tons per year.

Particulate emissions less than 10 microns (PM₁₀) shall not exceed 0.38 pounds per hour and 1.67 tons per year.

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

The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1) and 3745-31-10 through 20.

Visible particulate emissions shall not exceed 20% opacity as a 6 minute average, except as exempted by rule.

The emissions limitation specified by this rule is less stringent than the emission limitation established

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DTI Application: **01 07002**

Facility ID: **0180010008**

Emissions Unit ID: **P061**

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2. Additional Terms and Conditions

- 2.a** Pursuant to 40 CFR 52.21, the permittee shall install fabric filters to control PM/PM₁₀ emissions as Best Available Control Technology (BACT). The emissions from the fabric filter shall not exceed 0.005 grain/scf.
- 2.b** There shall be no visible fugitive particulate emissions escaping 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.

II. Operational Restrictions

- 1. The pressure drop across each fabric filter serving this emissions unit shall be maintained within the range of 0.5-15.0 inches of water column while the emissions unit is in operation.

III. Monitoring and/or Recordkeeping Requirements

- 1. This facility shall install, operate and maintain equipment to monitor the pressure drop across each fabric filter 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 manuals. The facility shall record the pressure drop across each fabric filter at least once per each operating shift of the emissions unit.

IV. Reporting Requirements

- 1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across any of the three (3) fabric filters did not comply with the allowable range specified above. These reports shall be submitted to the Ohio EPA, Central District Office in accordance with section A.1. of the general terms and conditions of this permit.

V. Testing Requirements

- 1. Compliance with the emission limitations in Section A.I. of these terms and conditions shall be determined in accordance with the following methods:

Emissions Limitations for particulate, and PM₁₀:

Particulate emissions shall not exceed 0.51 pounds per hour and 2.25 tons per year. Particulate

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emissions less than 10 microns (PM₁₀) shall not exceed 0.38 pounds per hour and 1.67 tons per year.

Applicable Compliance Method:

Within 180 days after the issuance of this permit, the permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates: Methods 1-4 and; Method 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.

The tests shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the tests, and the persons who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission tests.

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the tests, 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 and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions tests shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the tests. The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

Emissions Limitation:

Emissions Unit ID: **P061**

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

Applicable Compliance Method:

If required, compliance shall be determined through visible observations of the non-stack egress points from the building housing this emissions unit in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a), (B)(4)(b) and (B)(4)(c) of OAC rule 3745-17-03.

Emissions Limitation:

Visible particulate emissions shall not exceed 20% opacity as a 6 minute average, except as exempted by rule.

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Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such appendix existed on July 1, 1996.

VI. Miscellaneous Requirements

1. This emissions unit shall be deemed in compliance if the total emissions from egress point A6 is equal to or less than the emission limits for P061.

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B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

Operations, Property, <u>and/or</u> <u>Equipment</u>	<u>Applicable</u> <u>Rules/Requirements</u>	<u>Applicable Emissions</u> <u>Limitations/Control Measures</u>
P061 Specialty Packaging Operations w/fabric filter	None	None

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

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None

VI. Miscellaneous Requirements

None

Modification Issued: 12/27/2001

Part III - Special Terms and Conditions for Specific Emissions Unit(s) [Continued]**A. State and Federally Enforceable Section****I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	
P062 Vermiculite Expander Number 1	40 <u>CFR</u> Part 52.21 OAC Rule 3745-31-10 through 20 OAC Rule 3745-31-05(A)(3)	OAC rule 3745-23-06(B) OAC rule 3745-21-08(B) OAC rule 3745-17-07(A)(1) OAC rule 3745-17-11(B)

Modification Issued: 12/27/2001Applicable Emissions
Limitations/Control
Measures

See A.I.2. below for Best Available Control Technology (BACT) determination.

Particulate emissions shall not exceed 0.28 pounds per hour and 1.24 tons per year.

Particulate emissions less than 10 microns (PM₁₀) shall not exceed 0.28 pounds per hour and 1.24 tons per year.

NO_x emissions not to exceed 0.15 pound per hour and 0.66 tons per year. See A.II.2. below.

CO emissions not to exceed 0.13 pound per hour and 0.57 ton per year. See A.II.2. below.

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

The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1) and 3745-31-10 through 20.

The emissions limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

The emissions limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

Visible particulate emissions shall not exceed 20% opacity as a 6 minute average, except as exempted by rule.

The emissions limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rules 3745-31-05(A)(3) and 3745-31-10 through 20.

Emissions Unit ID: P062

2. Additional Terms and Conditions

- 2.a** Pursuant to 40 CFR 52.21, the permittee shall install a fabric filter to control PM/PM₁₀ emissions as Best Available Control Technology (BACT). The emissions from the fabric filter shall not exceed 0.005 grain/scf.
- 2.b** There shall be no visible fugitive particulate emissions escaping 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.

II. Operational Restrictions

1. The pressure drop across the fabric filter shall be maintained within the range of 0.5-15.0 inches of water while the emissions unit is in operation.
2. The permittee shall burn only natural gas or LPG in this emissions unit.

III. Monitoring and/or Recordkeeping Requirements

1. This facility shall install, operate and maintain equipment to monitor the pressure drop across each fabric filter 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 manuals. The facility shall record the pressure drop across each fabric filter at least once per each operating shift of the emissions unit.

Modification Issued: 12/27/2001

IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above. These reports shall be submitted to the Ohio EPA, Central District Office in accordance with section A.1. of the general terms and conditions of this permit.

V. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):

Emissions Limitations for particulate and PM₁₀:

Particulate emissions shall not exceed 0.28 pounds per hour and 1.24 tons per year. PM₁₀ emissions shall not exceed 0.28 pounds per hour and 1.24 tons per year.

Applicable Compliance Method:

Within 180 days after startup of this emissions unit, the permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): Methods 1-4 and; Method 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.

The tests shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the tests, and the persons who will be conducting the tests. Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission tests.

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the tests, examine the testing equipment, and acquire data and information necessary to

Emissions Unit ID: **P062**

ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions tests shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

Emissions Limitation:

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

Applicable Compliance Method:

If required, compliance shall be determined through visible observations of the non-stack egress points from the building housing this emissions unit in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a), (B)(4)(b) and (B)(4)(c) of OAC rule 3745-17-03.

Emissions Limitation:

Visible particulate emissions shall not exceed 20% opacity as a 6 minute average, except as exempted by rule.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such appendix existed on July 1, 1996.

Emissions Limitation:

NO_x emissions shall not exceed 0.15 lb/hr and 0.66 tons per year.

Applicable Compliance Method:

Compliance for the NO_x emission limits be based upon an emission factor of 100 lb NO_x/million cubic feet (from table 1.4-1(7/98) of AP-42, 5th edition) and a maximum natural gas consumption of 1554 CFH. If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 7E.

Emissions Limitation:

Carbon Monoxide emissions shall not exceed 0.13 lb/hr and 0.57 ton/yr.

Applicable Compliance Method:

Compliance with the CO emission limits shall be based upon an emission factor 84 lbs CO/million cubic feet (from table 1.4-1(7/98) of AP-42, 5th edition) and a maximum natural gas consumption

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of 1554 CFH. If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 10.

VI. Miscellaneous Requirements

None

Modification Issued: 12/27/2001**B. State Only Enforceable Section****I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P062 Vermiculite Expander Number 1	None	None

2. Additional Terms and Conditions

- 2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

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DTI Application: **01 07002**

Facility ID: **0180010008**

Emissions Unit ID: **P062**

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Part III - Special Terms and Conditions for Specific Emissions Unit(s) [Continued]**A. State and Federally Enforceable Section****I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	
P063 Vermiculite Expander Number 2	40 <u>CFR</u> Part 52.21 OAC Rule 3745-31-10 through 20 OAC Rule 3745-31-05(A)(3)	OAC rule 3745-23-06(B) OAC rule 3745-21-08(B) OAC rule 3745-17-07(A)(1) OAC rule 3745-17-11(B)

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Applicable Emissions
Limitations/Control
Measures

See A.I.2. below for Best Available Control Technology (BACT) determination.

Particulate emissions shall not exceed 0.28 pounds per hour and 1.24 tons per year.

Particulate emissions less than 10 microns (PM₁₀) shall not exceed 0.28 pounds per hour and 1.24 tons per year.

NO_x emissions not to exceed 0.15 pound per hour and 0.66 tons per year. See A.II.2. below.

CO emissions not to exceed 0.13 pound per hour and 0.57 ton per year. See A.II.2. below.

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

The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1) and 3745-31-10 through 20.

The emissions limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

The emissions limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

Visible particulate emissions shall not exceed 20% opacity as a 6 minute average, except as exempted by rule.

The emissions limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rules 3745-31-05(A)(3) and 3745-31-10 through 20.

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2. Additional Terms and Conditions

2.a Pursuant to 40 CFR 52.21, the permittee shall install a fabric filter to control PM/PM₁₀ emissions as Best Available Control Technology (BACT). The emissions from the fabric filter shall not exceed 0.005 grain/scf.

2.b There shall be no visible fugitive particulate emissions escaping 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.

II. Operational Restrictions

1. The pressure drop across the fabric filter shall be maintained within the range of 0.5-15.0 inches of water while the emissions unit is in operation.

2. The permittee shall burn only natural gas or LPG in this emissions unit.

III. Monitoring and/or Recordkeeping Requirements

1. This facility shall install, operate and maintain equipment to monitor the pressure drop across each fabric filter 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 manuals. The facility shall record the pressure drop across each fabric filter at least once per each operating shift of the emissions unit.

IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above. These reports shall be submitted to the Ohio EPA, Central District Office in accordance with section A.1. of the general terms and conditions of this permit.

V. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):

Emissions Limitations for particulate and PM₁₀:

Particulate emissions shall not exceed 0.28 pounds per hour and 1.24 tons per year. PM₁₀ emissions shall not exceed 0.28 pounds per hour and 1.24 tons per year.

Applicable Compliance Method:

Within 180 days after startup of this emissions unit, the permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): Methods 1-4 and; Method 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.

The tests shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the tests, and the persons who will be conducting the tests. Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission tests.

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the tests, 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 and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions tests shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or

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local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

Emissions Limitation:

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

Applicable Compliance Method:

If required, compliance shall be determined through visible observations of the non-stack egress points from the building housing this emissions unit in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a), (B)(4)(b) and (B)(4)(c) of OAC rule 3745-17-03.

Emissions Limitation:

Visible particulate emissions shall not exceed 20% opacity as a 6 minute average, except as exempted by rule.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such appendix existed on July 1, 1996.

Emissions Limitation:

NO_x emissions shall not exceed 0.15 lb/hr and 0.66 tons per year.

Applicable Compliance Method:

Compliance for the NO_x emission limits be based upon an emission factor of 100 lb NO_x/million cubic feet (from table 1.4-1(7/98) of AP-42, 5th edition) and a maximum natural gas consumption of 1554 CFH. If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 7E.

Emissions Limitation:

Carbon Monoxide emissions shall not exceed 0.13 lb/hr and 0.57 ton/yr.

Applicable Compliance Method:

Compliance with the CO emission limits shall be based upon an emission factor 84 lbs CO/million cubic feet (from table 1.4-1(7/98) of AP-42, 5th edition) and a maximum natural gas consumption

Emissions Unit ID: P063

of 1554 CFH. If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 10.

VI. Miscellaneous Requirements

None

Modification Issued: 12/27/2001**B. State Only Enforceable Section****I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P063 Vermiculite Expander Number 2	None	None

2. Additional Terms and Conditions**2.a** None**II. Operational Restrictions**

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

Emissions Unit ID: **P063**

Modification Issued: 12/27/2001

None

Modification Issued: 12/27/2001

Part III - Special Terms and Conditions for Specific Emissions Unit(s) [Continued]**A. State and Federally Enforceable Section****I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	
P064 Vermiculite Expander Number 3	40 <u>CFR</u> Part 52.21 OAC Rule 3745-31-10 through 20 OAC Rule 3745-31-05(A)(3)	OAC rule 3745-23-06(B) OAC rule 3745-21-08(B) OAC rule 3745-17-07(A)(1) OAC rule 3745-17-11(B)

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Applicable Emissions
Limitations/Control
Measures

See A.I.2.. below for Best Available Control Technology (BACT) determination.

Particulate emissions shall not exceed 0.28 pounds per hour and 1.24 tons per year.

Particulate emissions less than 10 microns (PM₁₀) shall not exceed 0.28 pounds per hour and 1.24 tons per year.

NO_x emissions not to exceed 0.15 pound per hour and 0.66 tons per year. See A.II.2. below.

CO emissions not to exceed 0.13 pound per hour and 0.57 ton per year. See A.II.2. below.

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

The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1) and 3745-31-10 through 20.

The emissions limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

The emissions limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

Visible particulate emissions shall not exceed 20% opacity as a 6 minute average, except as exempted by rule.

The emissions limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rules 3745-31-05(A)(3) and 3745-31-10 through 20.

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2. Additional Terms and Conditions

2.a Pursuant to 40 CFR 52.21, the permittee shall install a fabric filter to control PM/PM₁₀ emissions as Best Available Control Technology (BACT). The emissions from the fabric filter shall not exceed 0.005 grain/scf.

2.b There shall be no visible fugitive particulate emissions escaping 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.

II. Operational Restrictions

1. The pressure drop across the fabric filter shall be maintained within the range of 0.5-15.0 inches of water while the emissions unit is in operation.

2. The permittee shall burn only natural gas or LPG in this emissions unit.

III. Monitoring and/or Recordkeeping Requirements

1. This facility shall install, operate and maintain equipment to monitor the pressure drop across each fabric filter 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 manuals. The facility shall record the pressure drop across each fabric filter at least once per each operating shift of the emissions unit.

IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above. These reports shall be submitted to the Ohio EPA, Central District Office in accordance with section A.1. of the general terms and conditions of this permit.

V. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):

Emissions Limitations for particulate and PM₁₀:

Particulate emissions shall not exceed 0.28 pounds per hour and 1.24 tons per year. PM₁₀ emissions shall not exceed 0.28 pounds per hour and 1.24 tons per year.

Applicable Compliance Method:

Within 180 days after startup of this emissions unit, the permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): Methods 1-4 and; Method 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.

The tests shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the tests, and the persons who will be conducting the tests. Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission tests.

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the tests, 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 and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions tests shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or

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local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

Emissions Limitation:

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

Applicable Compliance Method:

If required, compliance shall be determined through visible observations of the non-stack egress points from the building housing this emissions unit in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a), (B)(4)(b) and (B)(4)(c) of OAC rule 3745-17-03.

Emissions Limitation:

Visible particulate emissions shall not exceed 20% opacity as a 6 minute average, except as exempted by rule.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such appendix existed on July 1, 1996.

Emissions Limitation:

NO_x emissions shall not exceed 0.15 lb/hr and 0.66 tons per year.

Applicable Compliance Method:

Compliance for the NO_x emission limits be based upon an emission factor of 100 lb NO_x/million cubic feet (from table 1.4-1(7/98) of AP-42, 5th edition) and a maximum natural gas consumption of 1554 CFH. If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 7E.

Emissions Limitation:

Carbon Monoxide emissions shall not exceed 0.13 lb/hr and 0.57 ton/yr.

Applicable Compliance Method:

Compliance with the CO emission limits shall be based upon an emission factor 84 lbs CO/million cubic feet (from table 1.4-1(7/98) of AP-42, 5th edition) and a maximum natural gas consumption

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of 1554 CFH. If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 10.

VI. Miscellaneous Requirements

None

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B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P064 Vermiculite Expander Number 3	None	None

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

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Emissions Unit ID: **P064**

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Part III - Special Terms and Conditions for Specific Emissions Unit(s) [Continued]**A. State and Federally Enforceable Section****I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	
P065 Vermiculite Expander Number 4	40 <u>CFR</u> Part 52.21 OAC Rule 3745-31-10 through 20	OAC rule 3745-23-06(B)
	OAC Rule 3745-31-05(A)(3) and 40 CFR, 52.21	OAC rule 3745-21-08(B)
		OAC rule 3745-17-07(A)(1)
		OAC rule 3745-17-11(B)

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Applicable Emissions
Limitations/Control
Measures

See A.I.2. below for Best Available Control Technology (BACT) determination.

Particulate emissions shall not exceed 0.28 pounds per hour and 1.24 tons per year.

Particulate emissions less than 10 microns (PM₁₀) shall not exceed 0.28 pounds per hour and 1.24 tons per year.

NO_x emissions not to exceed 0.15 pound per hour and 0.66 tons per year. See A.II.2. below.

CO emissions not to exceed 0.13 pound per hour and 0.57 ton per year. See A.II.2. below.

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

The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1) and 3745-31-10 through 20.

The emissions limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

The emissions limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

Visible particulate emissions shall not exceed 20% opacity as a 6 minute average, except as exempted by rule.

The emissions limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rules 3745-31-05(A)(3) and 3745-31-10 through 20.

Emissions Unit ID: P065

2. Additional Terms and Conditions

- 2.a** Pursuant to 40 CFR 52.21, the permittee shall install a fabric filter to control PM/PM₁₀ emissions as Best Available Control Technology (BACT). The emissions from the fabric filter shall not exceed 0.005 grain/scf.
- 2.b** There shall be no visible fugitive particulate emissions escaping 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.

II. Operational Restrictions

1. The pressure drop across the fabric filter shall be maintained within the range of 0.5-15.0 inches of water while the emissions unit is in operation.
2. The permittee shall burn only natural gas or LPG in this emissions unit.

III. Monitoring and/or Recordkeeping Requirements

1. This facility shall install, operate and maintain equipment to monitor the pressure drop across each fabric filter 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 manuals. The facility shall record the pressure drop across each fabric filter at least once per each operating shift of the emissions unit.

IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above. These reports shall be submitted to the Ohio EPA, Central District Office in accordance with section A.1. of the general terms and conditions of this permit.

V. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):

Emissions Limitations for particulate and PM₁₀:

Particulate emissions shall not exceed 0.28 pounds per hour and 1.24 tons per year. PM₁₀ emissions shall not exceed 0.28 pounds per hour and 1.24 tons per year.

Applicable Compliance Method:

Within 180 days after startup of this emissions unit, the permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

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The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): Methods 1-4 and; Method 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.

The tests shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the tests, and the persons who will be conducting the tests. Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission tests.

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the tests, 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 and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions tests shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

Emissions Unit ID: P065

Emissions Limitation:

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

Applicable Compliance Method:

If required, compliance shall be determined through visible observations of the non-stack egress points from the building housing this emissions unit in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a), (B)(4)(b) and (B)(4)(c) of OAC rule 3745-17-03.

Emissions Limitation:

Visible particulate emissions shall not exceed 20% opacity as a 6 minute average, except as exempted by rule.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such appendix existed on July 1, 1996.

Emissions Limitation:

NO_x emissions shall not exceed 0.15 lb/hr and 0.66 tons per year.

Applicable Compliance Method:

Compliance for the NO_x emission limits be based upon an emission factor of 100 lb NO_x/million cubic feet (from table 1.4-1(7/98) of AP-42, 5th edition) and a maximum natural gas consumption of 1554 CFH. If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 7E.

Emissions Limitation:

Carbon Monoxide emissions shall not exceed 0.13 lb/hr and 0.57 ton/yr.

Applicable Compliance Method:

Compliance with the CO emission limits shall be based upon an emission factor 84 lbs CO/million cubic feet (from table 1.4-1(7/98) of AP-42, 5th edition) and a maximum natural gas consumption of 1554 CFH. If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 10.

VI. Miscellaneous Requirements

None

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B. State Only Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P065 Vermiculite Expander Number 4	None	None

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Special Terms and Conditions for Specific Emissions Unit(s) [Continued]

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	OAC rule 3745-17-11(B)
P066 Vermiculite Expander Receiving System	40 <u>CFR</u> Part 52.21 OAC Rule 3745-31-10 through 20 OAC Rule 3745-31-05(A)(3)	
		OAC rule 3745-17-07(A)(1)

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Applicable Emissions
Limitations/Control
Measures

See A.I.2. below for Best Available Control Technology (BACT) determination

Particulate emissions shall not exceed 0.45 pound per hour and 1.96 ton per year;

Fugitive visible particulate emissions from this emissions unit shall not exceed 20% opacity as a 3 minute average;

Particulate emissions less than 10 microns (PM₁₀) shall not exceed 0.45 pound per hour and 1.96 ton per year (these emissions limits include fugitive emissions);

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

The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1) and 3745-31-10 through 20.

Visible particulate emissions

from the stack shall not exceed 20% opacity as a 6 minute average, except as exempted by rule.

The emissions limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rules 3745-31-05(A)(3) and 3745-31-10 through 20.

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2. Additional Terms and Conditions

- 2.a** Pursuant to 40 CFR 52.21, the permittee shall install a fabric filter to control PM/PM₁₀ emissions as Best Available Control Technology (BACT) that is sufficient to minimize or eliminate visible emissions of fugitive dust. The emissions from the fabric filter shall not exceed 0.005 grain PM/scf.
- 2.b** There shall be no visible fugitive particulate emissions escaping 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.

II. Operational Restrictions

1. The pressure drop across the fabric filter serving this emissions unit shall be maintained within the range of 0.5-15.0 inches of water while the emissions unit is in operation.

III. Monitoring and/or Recordkeeping Requirements

1. This facility shall install, operate and maintain equipment to monitor the pressure drop across the fabric filter 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 manuals. The facility shall record the pressure drop across each fabric filter at least once per each operating shift of the emissions unit..

IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above. These reports shall be submitted to the Ohio EPA, Central District Office in accordance with section A.1. of the general terms and conditions of this permit.

V. Testing Requirements

1. Compliance with the emission limitations in Section A.I. of these terms and conditions shall be determined in accordance with the following methods:

Emissions Unit ID: P066

Emissions Limitation:

Particulate emissions shall not exceed 0.45 pounds per hour and 1.96 tons per year; Particulate emissions less than 10 microns (PM₁₀) shall not exceed 0.45 pounds per hour and 1.96 tons per year (these emissions limits include fugitive emissions)

Applicable Compliance Method:

No later than 180 days after startup of this unit, this facility shall conduct, or have conducted, emissions testing to demonstrate compliance with the allowable PM and PM₁₀ emissions limits.

The following test methods shall be employed to demonstrate compliance with the allowable mass emissions rates: Methods 1-4 and; Method 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.

The emissions testing shall be conducted while the emissions units are operating at or near the maximum capacities, unless otherwise approved by the Ohio EPA.

Not later than 30 days prior to the proposed test dates, the permittee shall submit a completed "Intent To Test" (ITT) to the Ohio EPA Central District Office. The ITT shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in Ohio EPA refusal to accept the results of the emissions test.

Personnel from the Ohio EPA shall be permitted to witness the tests, 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 and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) 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 tests. The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA.

Emissions Limitation:

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

Applicable Compliance Method:

If required, compliance shall be determined through visible observations of the non-stack egress points from the building housing this emissions unit in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a), (B)(4)(b) and (B)(4)(c) of OAC rule 3745-17-03.

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Emissions Unit ID: **P066**

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Emissions Limitation:

Visible particulate emissions shall not exceed 20% opacity as a 6 minute average, except as exempted by rule and fugitive visible particulate emissions from this emissions unit shall not exceed 20% opacity as a 3 minute average.

Applicable Compliance Method:

Compliance shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

Emissions Limitation:

NO_x emissions shall not exceed 0.15 lb/hr and 0.66 tons per year.

Applicable Compliance Method:

Compliance for the NO_x emission limits be based upon an emission factor of 100 lb NO_x/million cubic feet (from table 1.4-1(7/98) of AP-42, 5th edition) and a maximum natural gas consumption of 1554 CFH. If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 7E.

Emissions Limitation:

Carbon Monoxide emissions shall not exceed 0.13 lb/hr and 0.57 ton/yr.

Applicable Compliance Method:

Compliance with the CO emission limits shall be based upon an emission factor 84 lbs CO/million cubic feet (from table 1.4-1(7/98) of AP-42, 5th edition) and a maximum natural gas consumption of 1554 CFH. If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 10.

VI. Miscellaneous Requirements

None

B. State Only Enforceable Section**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
P066 Vermiculite Expander Receiving System	None	None

2. Additional Terms and Conditions

2.a None

II. Operational Restrictions

None

III. Monitoring and/or Recordkeeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None