



State of Ohio Environmental Protection Agency

Street Address:

1800 WaterMark Drive
Columbus, OH 43215-1099

TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

P.O. Box 1049
Columbus, OH 43216-1049

Ashtabula County

RE: Final Permit to Install

Application No: **02-2948**

DATE: **May 26, 1999**

**Foseco Incorporated
Frank Simcic
20200 Sheldon Road
Brook Park, Ohio 44142**

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

The Ohio EPA is urging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469.

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 Director's 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, Manager
Field Operations and Permit Section
Division of Air Pollution Control

cc: USEPA

Ohio EPA Northeast District Office



Permit to Install
Terms and Conditions

Application Number: 02-2948

APS Premise Number: 0204020036

Permit Fee: **\$2400**

Name of Facility: Foseco Incorporated

Person to Contact: Frank Simcic

Address: 20200 Sheldon Road

Brook Park, Ohio 44142

Location of proposed air contaminant source(s) [emissions unit(s)]:

1100 Maple Street

Conneaut, Ohio

Description of proposed emissions unit(s):

POWDER MIXER #1, POWDER MIXER #2, POWDER BAGGER AND GRANULAR BAGGER.

Date of Issuance: May 26, 1999

Effective Date: May 26, 1999

The above named entity is hereby granted a Permit to Install for the above described emissions unit(s) pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described emissions unit(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 and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

Part I - GENERAL TERMS AND CONDITIONS

A. 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 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 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. Records Retention Requirements

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.

4. Inspections and Information Requests

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

Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

5. Scheduled Maintenance/Malfunction Reporting

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

6. 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.

7. 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.

8. 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.

9. 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 are inadequate 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 prove to be inadequate or cannot meet applicable standards.

10. 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.

11. 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).

12. 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.

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

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This 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 emissions unit(s) covered by this permit.

14. 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.

15. 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.

B. 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> |
|--------------------|----------------------|
| Particulate Matter | 12.77 |

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. 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> |
|--|--------------------------------------|---|
| Pneumatic loading of six silos, six screw conveyors, and three process hoppers for AFAX refractory mineral production. | OAC rule 3745-31-05 | 0.08 pounds of particulate matter per hour; 0.38 tons of particulate matter per year. |
| | OAC rule 3745-17-07 (B) | Requirements do not apply, per OAC 3745-17-07(B)(11)(e). |
| | OAC rule 3745-17-08 (B) | Requirements do not apply, per OAC 3745-17-08(A)(1). |
| | OAC rule 3745-31-05 | Visible particulate emissions from this emissions unit shall not exceed five percent opacity as a six-minute average. |
| | OAC rule 3745-31-05 | Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust. |

2. Additional Terms and Conditions

- 2.a The permittee shall employ the following best available control measures for the purpose of ensuring compliance with the above-mentioned applicable requirements:
 - i. The material shall be pneumatically transferred to the storage silos and to the hoppers. The pneumatic system shall be adequately enclosed so as to eliminate at all times visible emissions of fugitive dust.
 - ii. The material silo vents shall be adequately enclosed and vented to fabric filters. The enclosure shall be sufficient so as to minimize at all times visible emissions of fugitive dust at the point of capture.
- 2.b The permittee shall employ the following best available control measures for the raw material

transfer operations for the purpose of ensuring compliance with the above-mentioned applicable requirements:

- i. The material hoppers shall be adequately enclosed and the enclosure shall be sufficient so as to eliminate at all times visible emissions of fugitive dust.
- ii. The material hopper transfer conveyor discharge to the material hopper shall be enclosed and vented to a fabric filter. The enclosure shall be sufficient so as to eliminate at all times visible emissions of fugitive dust at the point of capture.

B. Operational Restrictions

1. The permittee shall regularly maintain the fabric filter control equipment associated with this emissions unit in accordance with the manufacturer's recommendations. Maintenance shall include regular repair and/or replacement of filters so as to maximize the particulate collection efficiency of this dust control system.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain records of the amounts of material processed at this emissions unit as to be able to determine the amount of emissions generated over any annual period. The records shall be kept at the facility and shall be made available for review by Ohio EPA personnel upon request.
2. The permittee shall inspect the fabric filter control system serving both the bulk silos and the hoppers at least once per week for the purpose of determining the need to maintain, repair, and/or replace any of the filters in the systems or any portion of the system electrical controls. A broken or severely worn filter, or worn electrical control components, shall be replaced/repared immediately so as to prevent unnecessary emissions of fugitive dust from this emissions unit. Records of inspections, repairs, and maintenance to this emissions control system shall be noted in a facility log.
3. 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, if a strip-chart recorder is employed, for continuous monitoring instrumentation, and copies of all reports required by the permit. Such records may be maintained in computerized form.

D. Reporting Requirements

1. The permittee shall submit deviation reports that identify any of the following occurrences:
 - a. each day or week during which an inspection was not performed by the required frequency; and,
 - b. each instance when a control measure, repair, or maintenance function that was to be performed as a result of an inspection, was not implemented.

2. The permittee shall submit required reports in the following manner:
 - a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office.
 - 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 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 Northeast District Office of the Ohio EPA. If no deviations occurred during the 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.)

E. Testing Requirements

1. Compliance with the five percent opacity visible emissions limitation 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.
2. Compliance with the particulate emissions limitation of this permit shall be based on the annual throughput multiplied by the emission factor for pneumatic unloading to an elevated storage silo, set forth in AP-42, Section 11.12-2, "Concrete Batching"; 0.27 pounds of particulate matter per ton loaded and multiplied by the decimal control efficiency factor.
3. Compliance with the pounds per hour limitations of this permit shall be demonstrated by dividing the annual emissions (tons per year) by 8760 (hours per year) and multiplying by 2000 (pounds per ton).

F. Miscellaneous Requirements

None

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. 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> |
|--|--------------------------------------|---|
| Dry mineral mixing with fabric filter baghouse | OAC rule 3745-17-11 | Less stringent than limits established under OAC rule 3745-31-05. |
| | OAC rule 3745-31-05 | PM: 0.03 grains/dscf of exhaust gases and 1.13 pounds per hour, 4.96 tons of per year. |
| | OAC rule 3745-31-05 | Visible particulate emissions from this emissions unit shall not exceed five percent opacity as a six-minute average. See B.3. below |

2. Additional Terms and Conditions

- 2.a. The permittee shall employ the following best available control measures for the mixing operations for the purpose of ensuring compliance with the above-mentioned applicable requirements:
 - i. The point at which the material is loaded into the mixer shall be adequately enclosed and the drop height of the material into the mixer shall be minimized and controlled so as to minimize or eliminate visible emissions of fugitive dust from this operation.

B. Operational Restrictions

1. The control systems (exhaust hoods venting to single baghouse dust control system) installed to limit emissions from this emissions unit shall be operated at all times that either the dry material loading operation or mixing operation is in progress. Any failure of any portion of this emissions control device, or any scheduled or unscheduled maintenance of either of this control system, shall be accompanied by the shut down of the emissions unit for which the control device is the intended emissions control system.
2. The pressure drop across the baghouse system shall be maintained within the range (inches of water)

specified by the manufacturer while the emissions unit is in operation.

3. The collection efficiency of the air pollution capture hoods for this emissions unit shall be sufficient to minimize or eliminate visible emissions of fugitive dust at all points of capture. The permittee shall maintain all hoods and enclosures in good operating condition. The collection efficiency shall be considered adequate if visible particulate emissions of fugitive dust do not exceed 20% opacity as a three-minute average.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a once per shift basis.
2. 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, if a strip-chart recorder is employed, for continuous monitoring instrumentation, and copies of all reports required by the permit. Such records may be maintained in computerized form.
3. The permittee shall record, each day, the throughput of material through the emissions unit.

D. Reporting Requirements

1. The permittee shall submit required reports in the following manner:
 - a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office.
 - 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 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 Northeast District Office of the Ohio EPA. If no deviations occurred during the 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.)

2. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.

E. Testing Requirements

1. Compliance with the emissions limitations stated in the terms and conditions of this permit shall be determined in accordance with the following methods:

- a. Emissions Limitation

0.030 grains /dscf and 1.13 pounds /hour of particulate matter.

Applicable Compliance Method

If required pursuant to OAC 3745-15-04, the permittee shall demonstrate compliance with the particulate emissions limits of this permit by means of testing of the effluent from this emissions unit in accordance with testing procedures listed in 40 CFR Part 60, "Standards of Performance for New Stationary Sources", Appendix A, Method 5, and in OAC rule 3745-17-03 (B)(7).

- b. Emission Limitation

Visible particulate emissions from this emissions unit shall not exceed five percent opacity as a six-minute average more than once per any sixty-minute period.

Applicable Compliance Method

Compliance shall be determined through visible emission observations in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03 (B)(1).

- c. Emission Limitation

4.95 tons of particulate matter per year.

Applicable Compliance Method

Compliance with the annual emissions limitations of this permit shall be demonstrated by utilizing the following equation:

$E = P \times EF \times (1 - CE) \times (1/2000)$ where;

E = actual particulate emissions (tons per year)

P = annual throughput through the emissions unit (tons);

EF = emission factor from AP-42, Section 11.5-2; "Refractory Manufacturing", (120 pounds of particulate emissions per ton throughput);
CE = baghouse control efficiency; based on manufacturer's data.

F. Miscellaneous Requirements

None

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. 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> |
|---|--------------------------------------|--|
| Powder bagger with dust collector (P bagger) | OAC rule 3745-17-11 | Less stringent than limits established under OAC rule 3745-31-05. |
| | OAC rule 3745-31-05 | PM: 0.03 grains per dscf and 0.57 pounds per hour; 2.48 tons per year. |
| | OAC rule 3745-31-05 | Visible particulate emissions from this emissions unit shall not exceed five percent opacity as a six-minute average. See B.3. below |

2. **Additional Terms and Conditions**

- 2.a None

B. Operational Restrictions

1. The control systems (exhaust hoods venting to single baghouse dust control system) installed to limit emissions from this emissions unit shall be operated at all times that either the dry material loading operation or mixing operation is in progress. Any failure of any portion of this emissions control device, or any scheduled or unscheduled maintenance of either of this control system, shall be accompanied by the shut down of the emissions unit for which the control device is the intended emissions control system.
2. The pressure drop across the baghouse system shall be maintained within the range (inches of water) specified by the manufacturer while the emissions unit is in operation.

3. The collection efficiency of the air pollution capture hoods for this emissions unit shall be sufficient to minimize or eliminate visible emissions of fugitive dust at all points of capture. The permittee shall maintain all hoods and enclosures in good operating condition. The collection efficiency shall be considered adequate if visible particulate emissions of fugitive dust do not exceed 20% opacity as a three-minute average.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a once per shift basis.
2. 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, if a strip-chart recorder is employed, for continuous monitoring instrumentation, and copies of all reports required by the permit. Such records may be maintained in computerized form.
3. The permittee shall record, each day, the throughput of material through the emissions unit.

D. Reporting Requirements

1. The permittee shall submit required reports in the following manner:
 - a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office.
 - 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 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 Northeast District Office of the Ohio EPA. If no deviations occurred during the 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.)

2. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.

E. Testing Requirements

1. Compliance with the emissions limitations stated in the terms and conditions of this permit shall be determined in accordance with the following methods:

- a. Emissions Limitation

0.030 grains /dscf and 0.57 pounds /hour of particulate matter.

Applicable Compliance Method

If required pursuant to OAC 3745-15-04, the permittee shall demonstrate compliance with the particulate emissions limits of this permit by means of testing of the effluent from this emissions unit in accordance with testing procedures listed in 40 CFR Part 60, "Standards of Performance for New Stationary Sources", Appendix A, Method 5, and in OAC rule 3745-17-03 (B)(7).

- b. Emission Limitation

Visible particulate emissions from this emissions unit shall not exceed five percent opacity as a six-minute average more than once per any sixty-minute period.

Applicable Compliance Method

Compliance shall be determined through visible emission observations in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03 (B)(1).

- c. Emission Limitation

2.48 tons of particulate matter per year.

Applicable Compliance Method

Compliance with the annual emissions limitations of this permit shall be demonstrated by utilizing the following equation:

$E = P \times EF \times (1 - CE) \times (1/2000)$ where;

E = actual particulate emissions (tons per year)

P = annual throughput through the emissions unit (tons);

EF = emission factor, (34 pounds of particulate matter per ton) of throughput as found in SCC 3-05-003-03 for mineral products, brick manufacturing.

CE = baghouse control efficiency; based on manufacturer's data.

F. Miscellaneous Requirements

None

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

A. 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> |
|---|--------------------------------------|--|
| Granular bagging with a dust collector. | OAC rule 3745-17-11 | Less stringent than limits established under OAC rule 3745-31-05. |
| | OAC rule 3745-31-05 | PM: 0.03 grains/dscf of exhaust gases and 1.13 pounds per hour; 4.96 tons of per year. |
| | OAC rule 3745-31-05 | Visible particulate emissions from this emissions unit shall not exceed five percent opacity as a six-minute average. See B.3. below |

2. **Additional Terms and Conditions**

- 2.a None

B. Operational Restrictions

1. The control systems (exhaust hoods venting to single baghouse dust control system) installed to limit emissions from this emissions unit shall be operated at all times that either the dry material loading operation or mixing operation is in progress. Any failure of any portion of this emissions control device, or any scheduled or unscheduled maintenance of either of this control system, shall be accompanied by the shut down of the emissions unit for which the control device is the intended emissions control system.
2. The pressure drop across the baghouse system shall be maintained within the range (inches of water) specified by the manufacturer while the emissions unit is in operation.

3. The collection efficiency of the air pollution capture hoods for this emissions unit shall be sufficient to minimize or eliminate visible emissions of fugitive dust at all points of capture. The permittee shall maintain all hoods and enclosures in good operating condition. The collection efficiency shall be considered adequate if visible particulate emissions of fugitive dust do not exceed 20% opacity as a three-minute average.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a once per shift basis.
2. 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, if a strip-chart recorder is employed, for continuous monitoring instrumentation, and copies of all reports required by the permit. Such records may be maintained in computerized form.
3. The permittee shall record, each day, the throughput of material through the emissions unit.

D. Reporting Requirements

1. The permittee shall submit required reports in the following manner:
 - a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office.
 - 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 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 Northeast District Office of the Ohio EPA. If no deviations occurred during the 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.)

2. The permittee shall submit pressure drop deviation (excursion) reports that identify that all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.

E. Testing Requirements

1. Compliance with the emissions limitations stated in the terms and conditions of this permit shall be determined in accordance with the following methods:

- a. Emissions Limitation

0.030 grains /dscf or 1.13 pounds /hour of particulate matter.

Applicable Compliance Method

If required pursuant to OAC 3745-15-04, the permittee shall demonstrate compliance with the particulate emissions limits of this permit by means of testing of the effluent from this emissions unit in accordance with testing procedures listed in 40 CFR Part 60, "Standards of Performance for New Stationary Sources", Appendix A, Method 5, and in OAC rule 3745-17-03 (B)(7).

- b. Emission Limitation

Visible particulate emissions from this emissions unit shall not exceed five percent opacity as a six-minute average.

Applicable Compliance Method

Compliance shall be determined through visible emission observations in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03 (B)(1).

- c. Emission Limitation

4.96 tons of particulate matter per year.

Applicable Compliance Method

Compliance with the annual emissions limitations of this permit shall be demonstrated by utilizing the following equation:

$E = P \times EF \times (1 - CE) \times (1/2000)$ where;

E = actual particulate emissions (tons per year)

P = annual throughput through the emissions unit (tons);

EF = emission factor from RACM, Section 2.12; "Fertilizer Mixing", (0.2 pounds of particulate emissions per ton throughput);

CE = baghouse control efficiency; based on manufacturer's data.

F. Miscellaneous Requirements

None