



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL
COLUMBIANA COUNTY**

CERTIFIED MAIL

Street Address:

122 S. Front Street

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

Mailing Address:

Lazarus Gov. Center
P.O. Box 1049

Application No: 17-1654

DATE: November 17, 1999

Polar Minerals, Inc.
Joseph Z Keating
2005 Newpoint Place Parkway
Lawrenceville, GA 30043

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

cc: USEPA
DAPC, NEDO



STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

Permit To Install

**Issue Date: November 17,
1999**

FINAL PERMIT TO INSTALL 17-1654

Application Number: 17-1654
APS Premise Number: 1715130332
Permit Fee: **\$1800**
Name of Facility: Polar Minerals, Inc.
Person to Contact: Joseph Z Keating
Address: 2005 Newpoint Place Parkway
Lawrenceville, GA 30043

Location of proposed air contaminant source(s) [emissions unit(s)]:
2400 Clark Avenue
Wellsville, Ohio

Description of proposed emissions unit(s):
NON-METALLIC MINERAL GRINDING OPERATION WITH CLASSIFIER AND STORAGE SILOS.

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

Polar Minerals, Inc.
 PTI Application: **17-1654**
November 17, 1999

Facility ID: **1715130332**

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>
PM (Process)	8.07
PM (Combustion)	0.44
NOX (Combustion)	2.15
CO (Combustion)	1.80
OC (Combustion)	0.12

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>	Fuel burning equipment	<u>Applicable Rules/Requirements</u>
Airswept impact mill grinding system equipped with a fabric filter for particulate control.		OAC rule 3745-31-05(A)(3)
		OAC rule 3745-17-11
		OAC rule 3745-17-07
		40 CFR 60 Subpart 000

OAC rule 3745-17-10(A)(1)

Applicable Emissions
Limitations/Control Measures

Particulate matter emissions: 0.01 grains/dscf, 0.77 pound per hour and 3.38 tons per year.

NO_x emissions from natural gas combustion: 0.49 pound per hour and 2.15 tons per year.

CO emissions from natural gas combustion: 0.41 pound per hour and 1.80 tons per year.

OC emissions from natural gas combustion: 0.027 pound per hour and 0.12 ton per year.

See Additional Terms and Conditions A.2.a.

See Additional Terms and Conditions A.2.b.

See Additional Terms and Conditions A.2.c.

Visible emissions shall not exceed 7 percent opacity.

Particulate matter emissions: 0.02 pound per million Btu of actual heat input and 0.44 ton per year.

2. Additional Terms and Conditions

- 2.a. The emissions limit based on OAC rule 3745-17-11 is less stringent than the limit established pursuant to OAC rule 3745-31-05.

- 2.b. The emissions limit based on OAC rule 3745-17-07 is less stringent than the limit established pursuant to OAC rule 40 CFR 60, Subpart OOO..
- 2.c. The emissions limit based on 40 CFR 60, Subpart OOO is less stringent than the limit established pursuant to OAC rule 3745-31-05.

B. Operational Restrictions

1. The collection efficiency of the air pollution capture hoods for emissions unit P010 shall be sufficient to minimize or eliminate visible particulate 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 10% opacity, as a six-minute average.
2. The pressure drop across the baghouse shall be maintained within the range of 2 to 6 inches of water while the emissions unit is in operation.
3. 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 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 daily basis.
2. The permittee shall maintain monthly records of the operating hours for this emissions unit.

D. Reporting Requirements

1. 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.

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Polar

PTI A₁

November 17, 1999

Emissions Unit ID: **P010**

E. Testing Requirements

1. Emission Limitation:
0.01 grains/dscf and 0.77 pound per hour of particulate matter

Applicable Compliance Method:
U.S. EPA Reference Methods 1-5 of 40 CFR Part 60, Appendix A

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

- a. The emission testing shall be conducted within 90 days after startup.
- b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for particulate matter.
- c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for particulates, Method 5 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
- d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA Northeast 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 Ohio EPA Northeast District Office. 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 test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA Northeast District Office's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA Northeast District Office shall be permitted to witness the test(s), 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.

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Facility ID: **1715130332**

Emissions Unit ID: **P010**

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 Northeast District Office 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 Northeast District Office.

2. Emission Limitation:
3.38 tons per year of particulate matter

Applicable Compliance Method:

Annual particulate matter emissions shall be determined by multiplying the annual number of hours the emissions unit operated by particulate matter emission rate determined by the compliance test and then dividing by 2,000 pounds per ton.

3. Emission Limitation:
7% opacity for visible particulate matter emissions

Applicable Compliance Method:

Compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1) using the methods and procedures specified in U.S. EPA reference method 9.

4. Emission Limitation:
0.02 pound per million Btu of particulate matter from combustion

Applicable Compliance Method:

To determine the actual particulate matter emission rate for natural gas combustion, emission factors outlined in AP-42, Section 1.4 (Natural Gas Combustion - Fifth Edition, 3/98) shall be used.

5. Emission Limitation:
0.44 ton per year of particulate matter from combustion

Applicable Compliance Method:

Compliance shall be based on the annual hours of operation for this emissions unit and emission factors outlined in AP-42, Section 1.4 (Natural Gas Combustion - Fifth Edition, 3/98).

6. Emission Limitation:
0.49 pound per hour of NO_x emissions from combustion

Applicable Compliance Method:

To determine the actual NO_x emission rate for natural gas combustion, emission factors outlined in AP-42, Section 1.4 (Natural Gas Combustion - Fifth Edition, 3/98) shall be used. The emission factor shall be multiplied by the maximum heat input (5

MMBtu/hr).

7. Emission Limitation:
2.15 tons per year of NO_x emissions from combustion

Applicable Compliance Method:

Compliance shall be based on the annual hours of operation for this emissions unit and emission factors outlined in AP-42, Section 1.4 (Natural Gas Combustion - Fifth Edition, 3/98).

8. Emission Limitation:
0.41 pound per hour of CO emissions from combustion

Applicable Compliance Method:

To determine the actual CO emission rate for natural gas combustion, emission factors outlined in AP-42, Section 1.4 (Natural Gas Combustion - Fifth Edition, 3/98) shall be used. The emission factor shall be multiplied by the maximum heat input (5 MMBtu/hr).

9. Emission Limitation:
1.80 tons per year of CO emissions from combustion

Applicable Compliance Method:

Compliance shall be based on the annual hours of operation for this emissions unit and emission factors outlined in AP-42, Section 1.4 (Natural Gas Combustion - Fifth Edition, 3/98).

10. Emission Limitation:
0.027 pound per hour of OC emissions from combustion

Applicable Compliance Method:

To determine the actual OC emission rate for natural gas combustion, emission factors outlined in AP-42, Section 1.4 (Natural Gas Combustion - Fifth Edition, 3/98) shall be used. The emission factor shall be multiplied by the maximum heat input (5 MMBtu/hr).

11. Emission Limitation:
0.12 tons per year of OC emissions from combustion

Applicable Compliance Method:

Compliance shall be based on the annual hours of operation for this emissions unit and emission factors outlined in AP-42, Section 1.4 (Natural Gas Combustion - Fifth Edition,

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Polar Minerals, Inc.
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Noven

Facility ID: **1715130332**

Emissions Unit ID: **P010**

3/98).

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>
Classifier system equipped with a fabric filter for particulate control.	OAC rule 3745-31-05(A)(3)	Particulate matter emissions: 0.01 grains/dscf, 0.13 pound per hour and 0.56 ton per year.
	OAC rule 3745-17-11	Visible emissions shall not exceed 7 percent opacity.
	OAC rule 3745-17-07	See Additional Terms and Conditions A.2.a.
		See Additional Terms and Conditions A.2.b.

2. Additional Terms and Conditions

- 2.a. The emissions limit based on OAC rule 3745-17-11 is less stringent than the limit established pursuant to OAC rule 3745-31-05.
- 2.b. The emissions limit based on OAC rule 3745-17-07 is less stringent than the limit established pursuant to OAC rule 3745-31-05.

B. Operational Restrictions

1. The collection efficiency of the air pollution capture hoods for emissions unit P011 shall be

sufficient to minimize or eliminate visible particulate 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 10% opacity, as a six-minute average.

2. The pressure drop across the baghouse shall be maintained within the range of 2 to 6 inches of water while the emissions unit is in operation.
3. 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 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 daily basis.
2. The permittee shall maintain monthly records of the operating hours for this emissions unit.

D. Reporting Requirements

1. 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. Emission Limitation:
0.01 grains/dscf and 0.13 pounds per hour of particulate matter

Applicable Compliance Method:

If required by the Ohio EPA, compliance with the allowable particulate matter emission limit shall be determined in accordance with the following method(s): Methods 1-4, and Method 5 of 40 CFR Part 60, Appendix A.

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Facility ID: **1715130332**

Emissions Unit ID: **P011**

2. Emission Limitation:
0.56 tons per year of particulate matter

Applicable Compliance Method:

Compliance shall be based on hours of operation and emission factors outlined in AP-42, Section 11.26 (Fifth Edition), Table 11.26-1, using the following equation:

$$E \text{ (tons/yr)} = [EF * (\text{Maximum hourly production (lb/hr)} / 1,000) * \text{Annual hours of operation (hr/yr)}] / 2,000 \text{ pounds per ton}$$

Where: EF = emission factor (lb PM / 1,000 lb of material processed)

3. Emission Limitation:
7% opacity for visible particulate matter emissions

Applicable Compliance Method:

Compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1) using the methods and procedures specified in U.S. EPA reference method 9.

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>
11 Storage silos equipped with fabric filters for particulate control. (3 storage silos will be added to the 8 silos originally permitted for this emissions unit under PTI #17-1634.)	OAC rule 3745-31-05(A)(3)	Particulate matter emissions: 0.01 grains/dscf, 0.94 pound per hour and 4.13 tons per year. See Additional Terms and Conditions A.2.c.
	OAC rule 3745-17-08(B)	See Additional Terms and Conditions A.2.a.
	40 CFR 60 Subpart 000	See Additional Terms and Conditions A.2.b.
		Visible emissions shall not exceed 7 percent.

2. Additional Terms and Conditions

- 2.a. The emissions limit based on OAC rule 3745-17-08 is less stringent than the limit established pursuant to OAC rule 3745-31-05.
- 2.b. The emissions limit based on 40 CFR 60, Subpart 000 is less stringent than the limit established pursuant to OAC rule 3745-31-05.
- 2.c. 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 storage silos shall be vented to fabric filters. The enclosure shall be sufficient so as to minimize at all times visible emissions of fugitive dust.

B. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 2 to 6 inches of water while the emissions unit is in operation.
2. 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 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 daily basis.

D. 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.

E. Testing Requirements

1. Emission Limitation:
0.01 grains/dscf and 0.94 pound per hour of particulate matter

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Facility ID: **1715130332**

Emissions Unit ID: **F004**

Applicable Compliance Method:

If required by the Ohio EPA, compliance with the allowable particulate matter emission limit shall be determined in accordance with the following method(s): Methods 1-4, and Method 5 of 40 CFR Part 60, Appendix A.

2. Emission Limitation:
4.13 ton per year of particulate matter

Applicable Compliance Method:

Annual particulate matter emissions shall be determined by multiplying the annual number of hours the emissions unit operated by 0.94 pound per hour of particulate matter and then dividing by 2,000 pounds per ton.

3. Emission Limitation:
7% opacity for visible particulate matter emissions

Applicable Compliance Method:

Compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1) using the methods and procedures specified in U.S. EPA reference method 9.

F. Miscellaneous Requirements

The addition of 3 new storage silos to the 8 silos originally permitted for this emissions unit (F004) under PTI #17-1634 required a modification to the PTI. The requirements for this emissions unit (F004) outlined in this PTI (#17-1654) will replace all the requirements of PTI #17-1634 for the storage silos.