



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL CERTIFIED MAIL  
FRANKLIN COUNTY**

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: 01-08187**

**DATE: 8/3/2000**

Allied Mineral Products Inc  
Jason Krantz  
2700 Scioto Pkwy  
Columbus, OH 43221

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

CDO



**Permit To Install**

STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

**FINAL PERMIT TO INSTALL 01-08187**

Application Number: 01-08187  
APS Premise Number: 0125040959  
Permit Fee: **\$800**  
Name of Facility: Allied Mineral Products Inc  
Person to Contact: Jason Krantz  
Address: 2700 Scioto Pkwy  
Columbus, OH 43221

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**2700 Scioto Pkwy**  
**Columbus, Ohio**

Description of proposed emissions unit(s):  
**Two dump stations with crushers and baggers and one dust collector with inside air return.**

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

**Allied Mineral Products Inc**  
**PTI Application: 01-08187**  
**Issued: 8/3/2000**

**Facility ID: 0125040959**

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.

Allied Mineral Products Inc  
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Issued: 8/3/2000

Facility ID: 0125040959

**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	0.85

**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>
Bond System with baghouse	OAC rule 3745-31-05(A)(3)	Particulate emissions shall not exceed 0.19 pound per hour and 0.85 ton per year.
	OAC rule 3745-17-07(B)(1)	Fugitive, visible particulate emissions shall not exceed 20% opacity as a three-minute average.
	OAC rule 3745-17-11	The particulate emission limitations established pursuant to OAC rule 3745-31-05 are more stringent than the emission limitations established by this rule.

**2. Additional Terms and Conditions**

- 2.a The 0.19 pound per hour limit was established to reflect the potential to emit for P020. Therefore, it is not necessary to develop recordkeeping and/or reporting requirements to ensure compliance with this limit.

**B. Operational Restrictions**

1. The permittee shall ensure that the baghouse is in place and operating correctly at an efficiency of 98% percent at all times that the emission unit is in use.
2. The pressure drop across the baghouse shall be maintained within the range of 0.5 to 6 inches of water while the emissions units is in operation.
3. The baghouse can not vent outside the building.

### 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 collect and maintain monthly records of the total volume, in tons, of all the materials processed.
3. The total particulate matter emissions in pounds per month from all materials processed in the 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

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

1. Emission Limitation: Fugitive, visible particulate emissions shall not exceed 20% opacity as a three-minute average.

Applicable Compliance Method:

Compliance shall be determined through visible emissions observations performed in accordance with 40CFRPart60, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(4).

2. Emission Limitation: Particulate emissions shall not exceed 0.19 pound per hour.

Applicable Compliance Method:

Compliance shall be determined according to the following equation:

$$E = TIE \text{ (lbs/hr)} * (1-BCF)$$

Where:

$$E = \text{particulate matter emissions rate (lb(s)/hr)}$$

BCF = building control factor (use 95%)  
 TIE = total inside building emissions (lbs/hr). A summation of the emissions from four (4) process steps, the bag bailing system and inside emission from the baghouse:  $E_1 + E_2 + E_3 + E_4 + E_{BB} + E_{BH}$

Where:

$E_1$  is emissions generated from the transfer of bags of raw materials to the batch hopper,  
 $E_2$  is emissions generated from the transfer of materials from the batch hopper to the delumper  
 and  $E_4$  is emissions generated from the transfer of materials from the pack hopper to the bagger,  
 calculated using the following equation:

Emissions before controls = maximum amount of materials processed per hour (1  
 tph) \* emission factor (15.5 lbs/ton)  
 Emissions between transfer points = emissions before controls \* {1 - capture control  
 factor (0.95)}  
 Captured emissions = emissions before controls - emissions lost in transfer  
 Emissions lost from baghouse = Captured emissions \* {1 - baghouse control efficiency  
 (0.98)}  
 $E_1 = E_2 = E_4$  = emission lost in transfer + emissions lost from  
 baghouse

$E_3$  is emissions generated from the transfer of materials to the delumper to the pack hopper,  
 calculated using the following equation:

Emissions before controls = maximum amount of materials processed per hour (1  
 tph) \* emission factor (15.5 lbs/ton)  
 Emissions between transfer points = emissions before controls \* {1 - capture control  
 factor (0.98)}  
 Captured emissions = emissions before controls - emissions lost in transfer  
 Emissions lost from baghouse = Captured emissions \* {1 - baghouse control efficiency  
 (0.98)}  
 $E_3$  = emission lost in transfer + emissions lost from  
 baghouse

$E_{BB}$  is emissions generated from the bailing emptied bags of raw, calculated using the following  
 equation:

Emissions before controls = maximum amount of materials processed per hour (1  
 tph) \* emission factor (1.25 lbs/ton)  
 Emissions between transfer points = emissions before controls \* {1 - capture control

Emissions Unit ID: **P020**

$$\begin{aligned} & \text{factor (0.98)}\} \\ \text{Captured emissions} & = \text{emissions before controls - emissions lost in transfer} \\ \text{Emissions lost from baghouse} & = \text{Captured emissions} * \{1 - \text{baghouse control efficiency} \\ & \text{(0.98)}\} \\ E_{BB} & = \text{emission lost in transfer} + \text{emissions lost from} \\ & \text{baghouse} \end{aligned}$$

$E_{BH}$  is emissions generated from transfer of collected fines from the baghouse to a bin, calculated using the following equation:

$$E_{BH} = \text{maximum amount of materials processed per hour (1 tph)} * \text{emission factor (1.25 lbs/ton)}$$

3. Emission Limitation: Particulate emissions shall not exceed 0.85 ton per year.

Applicable Compliance Method:

Compliance shall be determined according to the following equation:

$$E = TIE \text{ (lbs/hr)} * (1 - BCF)$$

Where:

$$\begin{aligned} E & = \text{particulate matter emissions rate (lb(s)/hr)} \\ BCF & = \text{building control factor (use 95\%)} \\ TIE & = \text{total inside building emissions (lbs/hr). A summation of the emissions from four} \\ & \text{(4) process steps, the bag bailing system and inside emission from the baghouse: } E_1 \\ & + E_2 + E_3 + E_4 + E_{BB} + E_{BH} \text{ (See E.2.)} \end{aligned}$$

**F. Miscellaneous Requirements**

None.

**NEW SOURCE REVIEW FORM B**

PTI Number: 01-08187 Facility ID: 0125040959

FACILITY NAME Allied Mineral Products Inc

FACILITY DESCRIPTION Two dump stations with crushers and baggers and one dust collector with inside air return. CITY/TWP Columbus

SIC CODE 3297 SCC CODE 30501101 EMISSIONS UNIT ID P020

EMISSIONS UNIT DESCRIPTION Bond System - consist of two dump stations , delumper stations and bag filling stations

DATE INSTALLED 11/95

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter					
PM <sub>10</sub>	attainment		0.58	0.19	0.85
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? NESHAP? PSD? OFFSET POLICY?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

Enter Determination

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? No.

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$ not given

**TOXIC AIR CONTAMINANTS**

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED\*? \_\_\_\_\_ YES X NOIDENTIFY THE AIR CONTAMINANTS: PM10

**NEW SOURCE REVIEW FORM B**

PTI Number: 01-08187 Facility ID: 0125040959

FACILITY NAME Allied Mineral Products Inc

FACILITY DESCRIPTION	Two dump stations with crushers and baggers and one dust collector with inside air return.	CITY/TWP	Columbus
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**Ohio EPA Permit to Install Information Form** Please describe below any documentation which is being submitted with this recommendation (must be sent the same day). Electronic items should be submitted with the e-mail transmitting the PTI terms, and in software that CO can utilize. If mailing any hard copy, this section must be printed as a cover page. All items must be clearly labeled indicating the PTI name and number. Submit **hard copy items to Pam McGraner**, AQM&P, DAPC, Central Office, and electronic files to **airpti@epa.state.oh.us**

*Please fill out the following. If the checkbox does not work, replace it with an 'X'*

	<u>Electronic</u>	<u>Additional information File Name Convention (your PTI # plus this letter)</u>	<u>Hard Copy</u>	<u>None</u>
<u>Calculations (required)</u>	<input type="checkbox"/>	0000000c.wpd	<input checked="" type="checkbox"/>	
<u>Modeling form/results</u>	<input type="checkbox"/>	0000000s.wpd	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<u>PTI Application (complete or partial)*</u>	<input type="checkbox"/>	0000000a.wpd	<input type="checkbox"/>	<input type="checkbox"/>
<u>BAT Study</u>	<input type="checkbox"/>	0000000b.wpd	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>Other/misc.</u>	<input type="checkbox"/>	0000000t.wpd	<input type="checkbox"/>	<input checked="" type="checkbox"/>

\* Mandatory for netting, PSD, nonattainment NSR, 112(g), 21-07(G)(9)(g) and 21-09(U)(2)(f) - 2 complete copies.

Please complete (see comment bubble to the left for additional instructions):

**NSR Discussion**

Applicable Federal Rules and Regulations

- (1) NSPS - n/a
- (2) NESHAPS - n/a
- (3) PSD -
  - Attainment Area - YES
  - Facility on 28 Source Category PSD Rule List - NO
  - Current Facility Potential Emissions  $\geq$  250 tpy - NO
    - Facility is not a PSD Facility
  - New Source Emissions  $\geq$  250 tpy - NO
    - Not a Major Modification - No PSD Permit Needed

Applicable State Rules and Regulations

The pollutant emitted from this emissions unit is PM<sub>10</sub>.

The applicable rules for this emissions unit are OAC rule 3745-17-07(B)(1) for fugitive emissions and OAC rule 3745-17-11 for the process emissions.

New Source Review

Under new source modeling, "potential emissions" include controlled emissions. Based on this definition, this emissions unit is not subject to new source modeling because the pte (0.85 tpy) is below the threshold value for PM<sub>10</sub> (10 tpy) that triggers modeling.

**Please complete:**

**NEW SOURCE REVIEW FORM B**

PTI Number: 01-08187 Facility ID: 0125040959

FACILITY NAME Allied Mineral Products Inc

FACILITY DESCRIPTION Two dump stations with crushers and baggers and one dust collector with inside air return. CITY/TWP Columbus

**SUMMARY (for informational purposes only)**

**TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS**

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Particulate	0.85

**NEW SOURCE REVIEW FORM B**

PTI Number: 01-08187

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