



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL MODIFICATION  
LICKING 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: 01-12037**

**Fac ID: 0145000423**

**DATE: 8/1/2006**

J L Poured Walls  
Judy Lacko  
6214 Taylor Road  
Patalaska, OH 43062

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

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00 which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission  
309 South Fourth Street, Room 222  
Columbus, OH 43215

Sincerely,

Michael W. Ahern, Manager  
Permit Issuance and Data Management Section  
Division of Air Pollution Control

CC: USEPA

CDO



**Permit To Install  
Terms and Conditions**

**Issue Date: 8/1/2006  
Effective Date: 8/1/2006**

FINAL ADMINISTRATIVE MODIFICATION OF PERMIT TO INSTALL 01-12037

Application Number: 01-12037  
Facility ID: 0145000423  
Permit Fee: **\$3950**  
Name of Facility: J L Poured Walls  
Person to Contact: Judy Lacko  
Address: 6214 Taylor Road  
Patalaska, OH 43062

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

**6214 Taylor Road  
Pataskala, Ohio**

Description of proposed emissions unit(s):

**Administrative Modification.**

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

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

**J L Poured Walls**  
**PTI Application: 01-12037**  
**Modification Issued: 8/1/2006**

**Facility ID: 014500042**

## **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**

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

**J L Poured Walls**

**Facility ID: 014500042**

**PTI Application: 01-12037**

**Modification Issued: 8/1/2006**

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)**

**J L Poured Walls**

**Facility ID: 014500042**

**PTI Application: 01-12037**

**Modification Issued: 8/1/2006**

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

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

#### **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 Permit To Install for the installation or modification of any other emissions unit(s) are required for any emissions unit for which a Permit To Install is required.

**J L Poured Walls**  
**PTI Application: 01-12037**  
**Modification Issued: 8/1/2006**

**Facility ID: 014500042**

**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 ninety (90) 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>
<u>PE</u>	<u>25.21</u>

7

**J L Poured Walls**

**PTI Application: 01-12037**

**Modification Issued: 8/1/2006**

**Facility ID: 014500042**



above-identified material handling operation(s) for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to perform the following control measure(s) to ensure compliance:

material handling operation(s)	control measure(s)
All	Inherent moisture / water suppression system.

Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

- 2.c** For each material handling operation that is not adequately enclosed, the above-identified control measure(s) shall be implemented if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) is (are) necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during the operation of the material handling operation(s) until further observation confirms that use of the control measure(s) is unnecessary.
- 2.d** Implementation of the above-mentioned control measure(s) in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rules 3745-17-08 and 3745-31-05.
- 2.e** The above hourly and annual particulate emission limitations were established to reflect the potential to emit for these emissions units. Therefore, with the exception of implementation and record keeping of the above control measures, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with these limits.

**B. Operational Restrictions**

None

**C. Monitoring and/or Recordkeeping Requirements**

- 1. Except as otherwise provided in this section, for material handling operations that are not adequately enclosed, the permittee shall perform inspections of such operations in accordance with the following minimum frequencies:

material handling operation(s)	minimum inspection frequency
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All	Daily
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2. The above-mentioned inspections shall be performed during representative, normal operating conditions.
3. The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
4. The permittee shall maintain records of the following information:
  - a. the date and reason any required inspection was not performed;
  - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measure(s):
  - c. the dates the control measure(s) was (were) implemented; and
  - d. on a calendar quarter basis, the total number of days the control measure(s) was (were) implemented.

The information in 4d shall be kept separately for each material handling operation identified above, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

#### **D. Reporting Requirements**

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

2. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

### **E. Testing Requirements**

1. Compliance with the emission limitation(s) in Section A.1 of these terms and conditions shall be determined in accordance with the following method(s):
  - a. **Emission Limitation:**  
 Particulate emissions from the material handling shall not exceed 1.25 pound per hour and 5.44 tons per year.

**Applicable Compliance Method:**

Compliance shall be demonstrated by summing the calculated hourly emission rate for each conveying or handling or loading operation, these emission factors are specified in USEPA reference document AP-42, 11.19.2-2 (8/2004). The resulting sum shall be multiplied by the maximum hourly production rate (200 tons/hr. PTI application 04/05/06). See the following calculations:

#### Aggregate Handling

Where:

$$E = (e)(p)/2000$$

$$0.004 \text{ Lbs/ton (200TPH)} = 0.80 \text{ Lbs/Hr}$$

$$0.80 (8760 \text{ Hrs/yr}) / 2000 \text{ Lbs/ton} = 03.5$$

e = Emission factor (all emission units) + 0.004 lb/ton

p = Maximum rated production capacity. (200 TPH)

#### Transfer Points

Where:

$$E = (e)(p)/2000$$

$$0.00014 \text{ Lb/ton (200TPH) (10 transfer points)} = 0.28 \text{ Lbs/Hr}$$

$$0.28 (8760 \text{ Hrs/yr}) / 2000 \text{ Lbs/ton} = 1.23$$

e = Emission factor (all emission units) + 0.00014 lb/ton

p = Maximum rated production capacity. (200 TPH)

## Screening

$$0.0022 \text{ Lbs/ton (200TPH)} = 0.44 \text{ Lbs/Hr}$$
$$0.44 (8760 \text{ Hrs/yr}) / 2000 \text{ Lbs/ton} = 1.93$$

$$e = \text{Emission factor (all emission units)} + 0.0022 \text{ lb/ton}$$
$$p = \text{Maximum rated production capacity. (200 TPH)}$$

## Truck Unloading

$$0.000016 \text{ Lbs/ton (200TPH)} = 0.0032 \text{ Lbs/Hr}$$
$$0.0032 (8760 \text{ Hrs/yr}) / 2000 \text{ Lbs/ton} = 0.014$$

$$e = \text{Emission factor (all emission units)} + 0.000016 \text{ lb/ton}$$
$$p = \text{Maximum rated production capacity. (200 TPH)}$$

## 2. Emission Limitation:

- a. Visible emissions of fugitive dust shall not exceed 10% opacity, except as provided by rule.

## Applicable Compliance Method:

The permittee shall conduct, or have conducted, emission testing for each conveying operation in accordance with the following requirements.

- iii. On or after the sixtieth day after the PTI is issued, but not later than 180 days after PTI issuance, emissions testing shall be conducted.
  - ii. The emission testing shall be conducted to demonstrate compliance with the opacity limitation.
  - iii. The following test method shall be employed to demonstrate compliance with the 40 CFR Part 60 Subpart OOO: 40 CFR Part 60, Appendix A, Method 9. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
  - iv. 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 Central District Office.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Central District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of these 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 Central District Office's refusal to accept the results of the emission test(s).

Personnel from the Central 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.

A comprehensive written report on the results of the emissions test(s) shall be

**J L Poured Walls****PTI Application: 01 12027****Modif****Facility ID: 014500042****Emissions Unit ID: F001**

signed by the person or persons responsible for the tests and submitted to the Central 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 Central District Office.

J L P

PTI A

Modification Issued: 8/1/2006

Emissions Unit ID: F001

**F. Miscellaneous Requirements**

1. The following source is subject to the applicable provisions of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60.

Source Number	Source Description	NSPS Regulation (Subpart)
F001	Material Handling	OOO

The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

Pursuant to the NSPS, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times:

- a. construction date (no later than 30 days after such date);
- b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);
- c. actual start-up date (within 15 days after such date); and
- d. date of performance testing (if required, at least 30 days prior to testing).

Reports are to be sent to:  
Ohio Environmental Protection Agency  
DAPC - Air Quality Modeling and Planning  
P.O. Box 1049  
Columbus, OH 43216-1049

and

Central District Office  
Division of Air Pollution Control  
122 S. Front Street  
Columbus, OH 43215

**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>
F002 - Storage Piles	OAC rule 3745-31-05(A)(3)	Particulate emissions shall not exceed 4.0 tons per year.  No visible emissions except for one minute in any hour  Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.b, through A.2.f)
	OAC rule 3745-17-07 (B)(6)	Less stringent than the above-mentioned visible emission limitation
	OAC rule 3745-17-08 (B)(6)	Less stringent than the above-mentioned control measure requirements

**2. Additional Terms and Conditions**

- 2.a The storage piles that are covered by this permit and subject to the above-mentioned requirements are listed below:

All storage piles used by sources contained in the application.

- 2.b** The permittee shall employ best available control measures on all load-in and load-out operations associated with the storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to add water in sufficient quantities to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.c** The above-mentioned control measure(s) shall be employed for each load-in and load-out operation of each storage pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during any such operation until further observation confirms that use of the measure(s) is unnecessary.
- 2.d** The permittee shall employ best available control measures for wind erosion from the surfaces of all storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to add water in sufficient quantities to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.e** The above-mentioned control measure(s) shall be employed for wind erosion from each pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Implementation of the control measure(s) shall not be necessary for a storage pile that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements.
- 2.f** Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rules 3745-17-08 and 3745-31-05.

**J L Poured Walls**

**PTI Application: 01 12027**

**Modif**

**Facility ID: 014500042**

**Emissions Unit ID: F002**

- 2.g** The above annual particulate emission limitations were established to reflect the potential to emit for these emissions units. Therefore, with the exception of implementation and record keeping of the above control measures, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with these limits.

**B. Operational Restrictions**

None

**C. Monitoring and/or Recordkeeping Requirements**

- 1. Except as otherwise provided in this section, the permittee shall perform inspections of each load-in operation at each storage pile in accordance with the following frequencies:

storage pile identification	minimum load-in inspection frequency
All	Daily

- 2. Except as otherwise provided in this section, the permittee shall perform inspections of each load-out operation at each storage pile in accordance with the following frequencies:

storage pile identification	minimum load-out inspection frequency
All	Daily

- 3. Except as otherwise provided in this section, the permittee shall perform inspections of the wind erosion from pile surfaces associated with each storage pile in accordance with the following frequencies:

storage pile identification	minimum wind erosion inspection frequency
All	Daily

- 4. No inspection shall be necessary for wind erosion from the surface of a storage pile when the pile is covered with snow and/or ice and for any storage pile activity if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above identified events shall be performed as soon as such event(s) has (have) ended.

- 5. The purpose of the inspections is to determine the need for implementing the control measures specified in this permit for load-in and load-out of a storage pile, and wind

erosion from the surface of a storage pile. The inspections shall be performed during representative, normal storage pile operating conditions.

6. The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.

7. The permittee shall maintain records of the following information:
  - a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
  - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
  - c. the dates the control measures were implemented; and
  - d. on a calendar quarter basis, the total number of days the control measures were implemented and, for wind erosion from pile surfaces, the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measure(s).

The information required in 7.d. shall be kept separately for (i) the load-in operations, (ii) the load-out operations, and (iii) the pile surfaces (wind erosion), and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

#### **D. Reporting Requirements**

1. The permittee shall submit deviation reports that identify any of the following occurrences:
  - a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and
  - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.
2. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

#### **E. Testing Requirements**

1. Emission limitation-

**J L Poured Walls**  
**PTI Application: 04 12027**  
**Modif**

**Facility ID: 014500042**

**Emissions Unit ID: F002**

There shall be no visible emissions except for a period not to exceed one minute during any 60 minute observation period from storage piles.

Compliance with the visible emission limitations for the storage piles identified above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.

2. Emission Limitation:  
 Particulate emissions shall not exceed and 5.76 tons per year.

Applicable Compliance Method:

Compliance shall be demonstrated by summing the calculated emission rate for each ton of material placed in and removed from the storage piles as per emission factors are specified in USEPA reference document AP-42, 13.2.4 (1/95). The resulting sum shall be multiplied by the maximum yearly production rate (1,752,000 tons/yr. PTI application, 04/05/06). See the following calculations:

Storage Pile Load In and Out

$$E = K(0.0032)[(U/5)^{1.3} / M^{2.14}]$$

$$0.74(0.0032)[(9.1/5)^{1.3} / (4.0/2)^{1.4}]$$

$$(0.0024) [ (2.18) / (2.63) ]$$

$$(0.0024) / 0.83$$

$$(0.002) (1,752,000 \text{ Tons/yr})(2 \text{ load in and out}) / 2000 \text{ lb/ton} = 3.5 \text{ TPY PE}$$

Where:

E = emission factor (lb/ton)

k = particle size multiplier (dimensionless) (0.74)

U = mean wind speed, (mph) (8.1 mph)

M = worst case material moisture content (0.7 %)

Wind Erosion

$$E = (1.7)(s/1.5)[365-p] / 235] (f/15)(365)(A) / 2000$$

$$(1.7)(2.6/1.5)[365-165] / 235] (16.2/15)$$

$$(1.7) (1.73) (0.85) (1.1)$$

2.75 Lbs/day/acre

$$2.75 \text{ Lbs/day} (1 \text{ acre})(365) / 2000 \text{ Lbs/ton} = 0.5 \text{ TPY/ PE}$$

Where:

E = Emission factor

s = Silt content of the stored material (worst case estimate) (10%)

p = Number of days > 0.01 inch precipitation (Columbus station) (165 days)

f = Percent of time winds exceed 12 mph (Columbus station) (16.2%)

A = Total surface area of storage piles (worst case estimate) (1.0 acre).

**F. Miscellaneous Requirements**

None

**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.

Operations, Property, and/or Equipment	Unpaved roadways and parking areas	Applicable Rules/Requirements
F003 Paved plant roadways and parking areas. (see section A.2.a).		OAC rule 3745-31-05(A)(3)
		OAC rule 3745-17-07 (B)(4)

OAC rule 3745-31-05(A)(3)

Applicable Emissions  
Limitations/Control Measures

Total Particulate Emissions from paved and unpaved roadways and parking areas shall not exceed 13.52 tons per year.

Particulate Emissions from paved roads shall not exceed 2.79 tons per year.

OAC rule 3745-17-08 (B)(4)

There shall be no visible particulate emissions from any paved roadway or parking area, except for a period of one minute during any 60 minute observation period.

OAC rule 3745-17-07 (B)(5)

Best available technology (BAT) that is sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.c., through A.2.k.)

OAC rule 3745-17-08(B)(2)

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

Particulate emissions from unpaved roads shall not exceed and 10.73 tons per year.

There shall be no visible particulate emissions from any unpaved roadway or parking

area, except for a period of time not to exceed three minutes during any sixty-minute observation.

Best available technology that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.d through A.2.k)

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

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

## **2. Additional Terms and Conditions**

- 2.a** The paved roadways and parking areas that are covered by this permit and subject to the above-mentioned requirements are listed below:

Paved roadways:

All

Paved parking area:

All

- 2.b** The unpaved roadways and parking areas that are covered by this permit and subject to the above-mentioned requirements are listed below:

Unpaved roadways:

All

Unpaved parking areas:

All

- 2.c** The permittee shall employ best available technology on all paved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. The permittee shall treat the paved roadways and parking areas by applying water and/or wet sweeping at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing equally or more effective control measures to ensure compliance.

- 2.d** The permittee shall employ best available technology on the unpaved roadways and loading areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. The permittee shall treat the unpaved roadways and parking areas by application of water at sufficient intervals to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

- 2.e** Any unpaved roadway or parking area, which during the term of this permit is paved or takes the characteristics of a paved surface due to the application of certain types of dust suppressants, may be controlled with the control measure(s) specified above for paved surfaces. Any unpaved roadway or parking area that takes the characteristics of a paved roadway or parking area

due to the application of certain types of dust suppressants shall remain subject to the visible emission limitation for unpaved roadways and parking areas. Any unpaved roadway or parking area that is paved shall be subject to the visible emission limitation for paved roadways and parking areas.

- 2.f** The needed frequencies of implementation of the control measures shall be determined by the permittee's inspections pursuant to the monitoring section of this permit. Implementation of the control measures shall not be necessary for a paved or unpaved roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Implementation of any control measure may be suspended if unsafe or hazardous driving conditions would be created by its use.
- 2.g** The permittee shall promptly remove, in such a manner as to minimize or prevent resuspension, earth and/or other material from paved streets onto which such material has been deposited by trucking or earth moving equipment or erosion by water or other means.
- 2.h** Open-bodied vehicles transporting materials likely to become airborne shall have such materials covered at all times if the control measure is necessary for the materials being transported. Signs mandating the covering of all on-road, open-bodied vehicles shall be placed in conspicuous areas for drivers of such vehicles.
- 2.i** Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05.
- 2.j** The use of used oil as a dust suppressant is prohibited per OAC rule 3745-279-82.
- 2.k** Any unpaved roadway or parking area, which during the term of this permit is paved or takes the characteristics of a paved surface due to the application of certain types of dust suppressants, may be controlled with the control measure(s) specified above for paved surfaces. Any unpaved roadway or parking area that takes the characteristics of a paved roadway or parking area due to the application of certain types of dust suppressants shall remain subject to the visible emission limitation for unpaved roadways and parking areas. Any unpaved roadway or parking area that is paved shall be subject to the visible

emission limitation for paved roadways and parking areas.

**B. Operational Restrictions**

1. A maximum speed limit of 10 miles per hour for vehicular traffic shall be posted and enforced on the roadways.
2. The permittee shall water plant roadways whenever needed, unless it is below freezing or unless precipitation precludes the need for watering. Paved roadways shall be swept weekly, or as needed.

**C. Monitoring and/or Recordkeeping Requirements**

1. Except as otherwise provided in this section, the permittee shall perform inspections of the roadways and parking areas in accordance with the following frequencies:

Paved roadways and parking areas	Minimum inspection frequency
All	Daily, except when facility is closed
Unpaved roadways and parking areas	Minimum inspection frequency
All	Daily, except when facility is closed

The purpose of the inspections is to determine the need for implementing the above-mentioned control measures. The inspections shall be performed during representative, normal traffic conditions. No inspection shall be necessary for a roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above-identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.

2. The permittee may, upon receipt of written approval from the Ohio EPA Central District Office, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
3. The permittee shall maintain records of the following information:
  - a. the date and reason any required inspection was not performed, including those

**Modification Issued: 8/1/2006**

- inspections that were not performed due to snow and/or ice cover or precipitation;
- b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
- c. the dates the control measures were implemented; and
- d. on a calendar quarter basis, the total number of days the control measures were implemented and the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measures.
- e. The information required in 4.d. shall be kept separately for (i) the paved roadways and parking areas and (ii) the unpaved roadways and parking areas, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

**D. Reporting Requirements**

1. The permittee shall submit deviation reports that identify any of the following occurrences:
  - a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and
  - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.
2. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

## E. Testing Requirements

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

- a. Emission Limitation-

Particulate emissions from unpaved roadways shall not exceed 10.73 tons/yr.

Applicable Compliance Method-

Compliance shall be determined by multiplying the vehicle travel miles per year times a calculated AP-42 ( chapter 13.2.1 10/01)

$$E = k(s/12)^a(W/3)^b$$

$$E_{ext} = E[(365 - p)/365]$$

$$E_{ext} = k(10/12)^{0.7} (20/3)^{0.45} \left( \frac{365 - 140p}{365} \right) \\ 4.9(0.88)(2.35)^{0.62} = 6.28 \text{ Lb/VMT}$$

$6.28(11,388 \text{ VMT/Yr})(\text{control efficiency-watering, surface improvement, and speed reduction} = 0.3)/2000 = 10.77 \text{ TPY PE from paved roadways and parking areas.}$

E = size-specific particulate emission factor (lb/VMT)

k = constant - 4.9 for PE (particle size multiplier for pounds/VMT)

s = 10.0 percent - surface material silt content

W = mean vehicle weight in tons (27.5 tons)

a = constant - 0.7 for PE

b = constant - 0.45 for PE

E<sub>ext</sub> = emission factor extrapolated for natural mitigation, lb/VMT

p = number of days with at least 0.01 inches of precipitation per year = 165 days for central Ohio, Figure 13.2.2-1, AP-42, section 13.2.2

Control efficiency (watering, and/or surface improvement, and/or speed control) = 70 percent

- b. Emission Limitation-

Particulate emissions from paved roadways shall not exceed 2.79 tons/yr.

Applicable Compliance Method-

Compliance shall be determined by multiplying the vehicle travel miles per year

times a calculated AP-42 ( chapter 13.2.1 10/01)

$$E = k (sL/2)^{0.65} (W/3)^{1.5} (1-140/4N)$$

$$E = 0.082 (8.2/2)^{0.65} (20/3)^{1.5} (1-140/4N)$$

$$0.082 (2.50) (17.21) (0.90)$$

$$= 3.18 \text{ Lb/VMT paved roadway (1,752 Miles paved year) /2000 lbs/ton} = 2.79 \text{TPY PE}$$

c. Emission limitation-

There shall be no visible emissions except for a period not to exceed one minute during any 60 minute observation period from paved roadways.

Applicable Compliance Method-

Compliance with the emission limitation for the paved roadways and parking areas shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources," as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03

d. Emission limitation-

There shall be no visible emissions except for a period of time not to exceed three minutes during any sixty-minute observation period from unpaved roadways.

Applicable Compliance Method-

Compliance with the emission limitation for the unpaved roadways and parking areas shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources,") as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

**F. Miscellaneous Requirements**

1. None

**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>
P001 - I-Rock 200 TPH Crusher Model RDS15L Serial 100245	OAC rule 3745-31-05(A)(3)	<p>Particulate emissions from the crusher shall not exceed 0.24 lb/hr and 1.05 tons per year.</p> <p>Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust. See sections A.2.a and A.2.b.</p> <p>There shall be no visible PE from the crusher, except for a period of time not to exceed 6-minutes during any 60-minute observation period.</p> <p>The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subpart OOO.</p> <p>Visible emissions of fugitive dust from the crusher shall not exceed 15% opacity except as provided by rule.</p>
	OAC rule 3745-17-07(B)(1)	The emissions limitation specified by this rule is less stringent than the emission limitation established pursuant

to OAC rule  
 3745-31-05(A)(3).

**2. Additional Terms and Conditions**

- 2.a** The permittee shall employ best available control measures for the above-identified material handling operation for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to perform the following control measure to ensure compliance:

material processing operation	control measure
crusher	water spray

Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

- 2.b** For each material handling operation that is not adequately enclosed, the above-identified control measure shall be implemented if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure is necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure shall continue during the operation of the material handling operation until further observation confirms that use of the control measure is unnecessary.
- 2.c** Implementation of the above-mentioned control measure in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05.
- 2.d** The above hourly and annual particulate emission limitations for the crusher were established to reflect the potential to emit for these emissions units. Therefore, with the exception of implementation and record keeping of the above control measures, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with these limits.
- 2.e** The design of the emissions unit and the technology associated with the current operating practices will satisfy the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08.

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**Modification Issued: 8/1/2006**

Emissions Unit ID: **P001**

- 2.f** The permittee has satisfied the "latest available control techniques and operating practices required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in this permit to install.

**B. Operational Restrictions**

1. None.

### C. Monitoring and/or Recordkeeping Requirements

1. Except as otherwise provided in this section, for material handling operations that are not adequately enclosed, the permittee shall perform inspections of such operations in accordance with the following minimum frequencies:

material processing operation	minimum inspection frequency
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Crusher	Daily
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2. The above-mentioned inspections shall be performed during representative, normal operating conditions. Results of the aforementioned inspections shall be recorded.
3. The permittee may, upon receipt of written approval from the Ohio EPA, CDO , modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
4. The permittee shall maintain records of the following information:
  - a. the date and reason any required inspection was not performed;
  - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measure;
  - c. the dates the control measure was implemented;
  - d. on a calendar quarter basis, the total number of days the control measure was implemented; and
  - e. the name of the person reporting each observation.

The information in 4.d. shall be kept separately for each material processing operation identified above, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

### D. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify any of

the following occurrences:

- a. each day when excess visible emissions were observed, and at which location;
  - b. each day during which an inspection was not performed by the required frequency; and
  - c. each instance when a control measure, that was to be performed as a result of an inspection, was not implemented.
2. The quarterly deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

#### **E. Testing Requirements**

1. Compliance with the emission limitations in Section A.I. of these terms and conditions shall be determined in accordance with the following methods:
  - a. Emissions Limitations:  
 PE from the crushing of aggregate shall not exceed 0.36 lbs/hr per hour and 1.58 tons per year.

Applicable Compliance Method:

Compliance shall be based on calculated hourly emissions using a AP-42 emission factors (Emission Factors For Crushed Stone Processing Operations (lb/ton) section 11.19.2-8 8/04) for crushed stone processing. Yearly totals shall be calculated by multiplying the hourly emission factor by 8760 hours and dividing by 2000 (lbs/ton).

AP-42 Table 11.19.2-2 for emissions for crushed stone operations

Hourly:

$0.0012 \text{ lbs PE/ton (Tertiary Crushing - controlled)} * 200 \text{ tons/hr} = 0.24 \text{ Lbs PE/hr}$

Annual:

$0. 0.24 \text{ lb PE/hr} * 8760 \text{ hrs/yr of operation} * 1 \text{ ton}/2000 \text{ lb} = 1.05 \text{ tons PE/yr.}$

- b. Emissions Limitation:  
 There shall be no visible PE from the crusher, except for a period of time not to exceed 6-minutes during any 60-minute observation period.

Applicable Compliance Method:

Compliance with the emission limitation for visible emissions from the the

crusher identified above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources," as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

- c. Emission Limitation:  
Visible emissions of fugitive dust from the crusher shall not exceed 15% opacity, except as provided by rule.

Applicable Compliance Method:

The permittee shall conduct, or have conducted, emission testing for each conveying operation in accordance with the following requirements.

- i. On or after the sixtieth day after the PTI is issued, but not later than 180 days after PTI issuance, emissions testing shall be conducted.
  - ii. The emission testing shall be conducted to demonstrate compliance with the opacity limitation.
  - iii. The following test method shall be employed to demonstrate compliance with the 40 CFR Part 60 Subpart OOO: 40 CFR Part 60, Appendix A, Method 9. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
  - iv. 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 Central District Office.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Central District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of these 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 Central District Office's refusal to accept the results of the emission test(s).

Personnel from the Central 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.

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 Central 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 Central District Office.

**J L Poured Walls**  
**PTI Application: 01 12027**  
**Modif**

**Facility ID: 014500042**

**Emissions Unit ID: P001**

**F. Miscellaneous Requirements**

1. The following source is subject to the applicable provisions of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60.

Source Number	Source Description (Subpart)	NSPS Regulation
P001	200 TPH Portable Crusher	Subpart OOO

The application and enforcement of these standards are delegated to the Ohio EPA. The requirements of 40 CFR Part 60 are also federally enforceable.

Pursuant to the NSPS, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times:

- a. construction date (no later than 30 days after such date);
- b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);
- c. actual start-up date (within 15 days after such date); and
- d. date of performance testing (if required, at least 30 days prior to testing).

Reports are to be sent to:  
 Ohio Environmental Protection Agency  
 DAPC - Air Quality Modeling and Planning  
 P.O. Box 1049  
 Columbus, OH 43216-1049

and

Central District Office  
 Division of Air Pollution Control  
 122 S. Front Street  
 Columbus, OH 43215