



State of Ohio Environmental Protection Agency

Street Address:

Lazarus Gov. Center
122 S. Front Street
Columbus, OH 43215

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Mailing Address:

Lazarus Gov. Center
P.O. Box 1049
Columbus, OH 43216-1049

**RE: FINAL PERMIT TO INSTALL
KNOX COUNTY
Application No: 01-08723**

CERTIFIED MAIL

	TOXIC REVIEW
	PSD
	SYNTHETIC MINOR
	CEMS
	MACT
OOO	NSPS
	NESHAPS
	NETTING
	MAJOR NON-ATTAINMENT
	MODELING SUBMITTED
	GASOLINE DISPENSING FACILITY

DATE: 6/24/2003

The Olen Corporation Plant 2
Ken Holland
4755 South High Street
Columbus, OH 43207

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
309 South Fourth Street, Room 222
Columbus, Ohio 43215

Sincerely,

Michael W. Ahern, Supervisor
Field Operations and Permit Section
Division of Air Pollution Control

cc: USEPA

CDO



**Permit To Install
Terms and Conditions**

**Issue Date: 6/24/2003
Effective Date: 6/24/2003**

FINAL PERMIT TO INSTALL 01-08723

Application Number: 01-08723
APS Premise Number: 0142000096
Permit Fee: **\$14400**
Name of Facility: The Olen Corporation Plant 2
Person to Contact: Ken Holland
Address: 4755 South High Street
Columbus, OH 43207

Location of proposed air contaminant source(s) [emissions unit(s)]:
**11624 Hyatt Road
Fredericktown, Ohio**

Description of proposed emissions unit(s):
Mineral extraction.

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

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 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.

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>
Particulate Emissions	61.43

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>
F001 - Overburden removal includes sand and gravel removal and loading and reclamation	OAC rule 3745-31-05(A)(3)	<p>Particulate emissions shall not exceed 7.84 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.b through A.2.d).</p> <p>No visible emission except for three minutes in any hour.</p> <p>No person shall cause or permit any fugitive dust source to be operated; or any materials to be handled, transported, or stored; or a building or its appurtenances or a road to be used, constructed, altered, repaired, or demolished without taking or installing reasonably available control measures to prevent fugitive dust from becoming airborne.</p>

2. Additional Terms and Conditions

- 2.a The above annual particulate emission limitations were established to reflect the potential to emit for these emissions units. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with these limits.
- 2.b The mineral extraction operations covered by this permit and subject to the above-mentioned requirements are listed below:

Overburden removal, loading and reclamation.

- 2.c. The permittee shall employ best available control measures for the above-identified mineral extraction operation for the purpose of ensuring compliance with the above-mentioned applicable requirements. The permittee shall commit to perform the following control measure(s) to ensure compliance:

mineral extraction operation(s)

Overburden removal

Loading

Reclamation

control measure(s)

Precautionary operating practices

Prevent haul vehicle overloading

Practice as expeditiously as possible

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

- 2.d For each mineral extraction 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 mineral extraction operation(s) until further observation confirms that use of the control measure(s) is unnecessary.

- 2.e 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 rule 3745-31-05.

B. Operational Restrictions

None.

C. Monitoring and/or Recordkeeping Requirements

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

mineral extraction operation(s)

Overburden removal and loading

minimum inspection frequency

Each day mineral extraction operations are employed.

- 2. The above-mentioned inspections shall be performed during representative, normal operating conditions.

3. 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 inspection 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 4.d shall be kept separately for each mineral extraction 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 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 specified in Section A.1 of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:
No visible emission except for three minutes in any hour.

Applicable Compliance Method:

If required, compliance shall be determined using 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.

b. Emission Limitation:

Particulate emissions shall not exceed 7.84 tons per year from overburden removal processes.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the proposed maximum annual Overburden removal AP 42 table 11.9-4 (7/98) 0.07 lbs/PE [0.058 topsoil removal + 0.012 replacement overburden] for ton removed and replaced * 200,000 TPY displaced /2000 = 7.0 tons per year particulate emissions. Overburden handling
 $0.74(0.0032)[(9.7/5)^{1.3}/(1.5/2)^{1.4}](200,000\text{TPY})/2000 = 0.84$ tons per year

Compliance with the emission limit can be demonstrated through a one time calculation using the maximum through puts (application submitted 3/7/03) and emission factors found in AP-42.

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
F002 - Storage piles plus load/unloading plus wind erosion.	OAC rule 3745-31-05(A)(3)	Particulate emissions shall not exceed 2.1 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, A.2.c, and A.2.f).
Wind erosion from storage piles (see Section A.2.a for identification of storage piles)	OAC rule 3745-31-05(A)(3)	No visible emission 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.d through A.2.f).

2. Additional Terms and Conditions

- 2.a The storage piles that are covered by this permit and subject to the requirements of OAC rule 3745-31-05 are listed below:

All aggregate storage piles

- 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 maintaining the moisture content of the material sufficient 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 maintaining the moisture content of the material sufficient 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 rule 3745-31-05.
- 2.g The above annual particulate emission limitations were established to reflect the potential to emit for these emissions units. Therefore, it is not necessary to develop recordkeeping 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:

<u>storage pile identification</u>	<u>minimum load-in inspection frequency</u>
All aggregate storage piles	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

All aggregate storage piles

minimum load-out inspection frequency

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

All aggregate storage piles

minimum wind erosion inspection frequency

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, except if the next required inspection is within one week.
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 quarterly 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 emission limitations specified in section A.1 of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:
Particulate emissions shall not exceed 2.1 Tons per year.

Applicable compliance method: Compliance shall be demonstrated by multiplying the calculated hourly emission rate [for storage piles as determined by multiplying the maximum yearly production rate of 1,000,000 tons/yr. (PTI application, 3/7/03) by the appropriate emission equation/factor (0.002 Lbs/ton) specified in USEPA reference document AP-42, 13.2.4 (1/95)] times 2 (load in and load out) (0.002 lb/ton) * (1,000,000 tons/yr) / (2,000 pounds/ton)] * 2 (load in/out) = 2.1 Tons per year particulate emissions
2. a. Emission Limitation:
No visible emissions except for one minute in any hour.

Applicable Compliance Method: Compliance with the visible emission limitations for the storage piles identified in section A.1 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.

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
F003 - Paved and unpaved roadways and parking areas.	OAC rule 3745-31-05(A)(3)	<p>Particulate emissions from paved roadways and parking areas shall not exceed 0.66 ton per year.</p> <p>No visible particulate emissions except for one minute during any 60-minute period.</p> <p>Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.c, A.2.d, and A.2.f through A.2.j).</p>
Unpaved roadways and parking areas (see Section A.2.b)	OAC rule 3745-31-05(A)(3)	<p>Particulate emissions from unpaved roadways and parking areas shall not exceed 14.76 tons per year.</p> <p>No visible particulate emission except for three minutes during any 60-minute period.</p> <p>Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust. (see Sections A.2.e through A.2.j).</p>

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:

Paved service road

paved parking areas:

None

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:

Service road, and haul road

unpaved parking areas:

Parking Area

- 2.c** The permittee shall employ best available control measures on all paved roadways and parking areas 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 treat the paved roadways and parking areas by employing a wheel wash and/or water at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.d** The permittee shall employ best available control measures on the unpaved shoulders of all paved roadways 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 treat the unpaved shoulders of all paved roadways by grading and/or resurfacing at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.e** The permittee shall employ best available control measures on all unpaved roadways and parking areas 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 treat the unpaved roadways and parking areas with dust suppressant and/or water, grading, and resurfacing at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 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** 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.h 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.i 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.
- 2.j Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the best available technology requirements of OAC rule 3745-31-05.
- 2.k The above annual particulate emission limitations were established to reflect the potential to emit for these emissions units. Therefore, it is not necessary to develop recordkeeping 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 the roadways and parking areas in accordance with the following frequencies:

<u>paved roadways and parking areas</u>	<u>minimum inspection frequency</u>
Paved service road	Daily

<u>unpaved roadways and parking areas</u>	<u>minimum inspection frequency</u>
Service road, haul road and parking area	Daily

- 2. 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.
- 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, 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 the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measures.

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 quarterly 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 emission limitations specified in section A.1 of these terms and conditions shall be determined in accordance with the following methods:
 - a. **Emission Limitation:**
Particulate emissions shall not exceed 0.66 ton per year from paved roadways and parking areas particulate and emissions shall not exceed 15.42 tons per year from unpaved roadways and parking areas.

Applicable Compliance Method:

Compliance with annual emissions limitations are based on the following calculations:

Paved roads and parking areas

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

Assume $k = .082$, $sL = 70$ (silt load), $W = 25$ (mean vehicle weight in tons)

$P = \#$ of wet days (at least 01 inch of precipitation) $N = \#$ of days in averaging period.

$$E_{ext} = 0.082(70/2)^{0.65} (25/3)^{1.5} (1- 140/ 4 (365)) = \text{lbs/day}$$

$$E_{ext} = 0.082(10.08) (24.06) (.9) = \text{lbs/day}$$

$$E_{ext} = (0.83) (21.65) = 17.97 \text{ lbs/day} * 365 \text{ days/yr} / 2000 = 3.28 \text{ TPY/PE} * .20 \text{ (80\% control efficiency for wheel wash and watering and sweeping)} = 0.66 \text{ Tons per year particulate emissions}$$

E = particulate emission factor (having units matching the units of k)

k = particle size multiplier for particle size range and units of interest

sL = road surface silt loading (grams per square meter) (g/m²)

W = average weight (tons) of the vehicles traveling the road

E_{ext} = annual or other long-term average emission factor in the same units as k

P = number of "wet" days with at least 0.254 mm (0.01 in) of precipitation during the averaging period N = number of days in the averaging period (e.g., 365 for annual, 91 for seasonal, 30 for monthly)

Unpaved roads and parking areas

Average emissions all vehicles

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

Assume $K = 4.9$ $a = 0.7$ $b = 0.45$ $s(\text{silt}) = 4.8$ $w(\text{weight}) = 25$ and $P = 140$

$$E = 4.9(10/12)^{0.7} (25/3)^{0.45}$$

$$4.9 * 0.53 * 2.60 = 6.75 \text{ lbs/VMT}$$

Emissions adjusted for normal rainfall

$$E = [(365 - P)/365] = E_{ext} \text{ lbs/VMT}$$

$$6.75 [(365 - 140)/365]$$

$$6.75 [0.62] = 4.20 \text{ lbs/VMT}$$

$$4.20 * 35,150 \text{ VMT/yr} * 0.2 \text{ (80\% control efficiency watering, dust control agent(s))} / 2000 = 14.76 \text{ Tons per year/particulate emissions}$$

Total 15.42 Total tons per year of particulate emissions.

The above emission rates were calculated using AP-42 chapter 13.2.1-3 (draft 10/2001) equation 1a: $E = k (s/12)^a (W/3)^b$ and equation 2 $E_{ext} = E[(365-P)/365]$ emissions for unpaved roadways were determined. Using AP-42 chapter 13.2.2-3 (draft 10/2001) equation 1 and option 1 $E = k (sL/2)^{0.65} (W/3)^{1.5} (1 - P/2N)$.

b. Emissions Limitation:

No visible particulate emissions from paved roadways except for one minute during any 60-minute period.

Applicable Compliance Method:

Compliance with the emission limitation for the paved and unpaved roadways and parking areas 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.. No visible particulate emission from unpaved roadways except for three minutes during any 60-minute period

Applicable Compliance Method:

Compliance with the emission limitation for the paved and unpaved roadways and parking areas 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.

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.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
F004 - Material Handling (includes conveying and loading and screening)	OAC rule 3745-31-05(A)(3) 40 CFR Part 60, Subpart OOO	Particulate emissions shall not exceed 5.29 lbs/hr. and 23.17 tons per year. Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust. The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subpart OOO. Visible emissions from the these emissions units shall not exceed 10% opacity.

2. Additional Terms and Conditions

- 2.a The material handling operation(s) that are covered by this permit and subject to the above-mentioned requirements are listed below:

Transfer Points (42) = 400 tons/hr
 Material Handling = 400 tons/hr
 Screens (4) = 400 tons/hr
 Load in/Load out = 400 tons/hr

- 2.b The permittee shall employ best available control measures for the 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)

Load in or load out or any combination of loading or conveying

control measure(s)

Application of water, where necessary, to control particulate emissions.

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 rule 3745-31-05.
- 2.e The above hourly of and annual particulate emission limitations were established to reflect the potential to emit for these emissions units. Therefore, it is not necessary to develop recordkeeping 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)

Load in, load out and conveying

minimum inspection frequency

Daily

- 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 4.d. 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 quarterly 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 shall not exceed 5.29 lbs/hr. and 23.17 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 (1/95). The resulting sum shall be multiplied by the maximum hourly production rate (400 tons/hr. PTI application, 3/7/03). See the following calculations:

Front end loader load in PTE = $(0.001 \text{ #PE/ton})(400 \text{ ton/hr}) = 0.40 \text{ # PE/hr}$ (8760/2000) = 1.75 Tons per year.

Conveyor transfer points PTE = $(0.000048 \text{ #PM-10/ton})(2.1 \text{ #TSP/#PM-10})(400 \text{ ton/hr})(42) = 1.69 \text{ #PE/hr}$ (8760/2000) = 7.40 Tons per year.

Screening PTE = $0.002 \text{ Lbs PE/ton}(400 \text{ TPH})(4 \text{ screens}) = 3.2 \text{ Lbs PE/hr}$ (8760/2000) = 14.02 Tons per year.

b. Emission Limitation:

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.

- 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.

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)
F004	Material handling, loading, screening, and conveying operations	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
 3232 Alum Creek Drive

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The Olen Corporation Plant 2

PTI Application: 01-08723

Issued: 6/24/2003

Facility ID: 0142000096

Emissions Unit ID: F004

Columbus, OH 43207

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 - 60 ton per hour Pioneer jaw crusher model 1536 serial number KKN-3278	OAC rule 3745-31-05(A)(3) 40 CFR Part 60, Subpart OOO	Particulate emissions shall not exceed 0.72 lbs/hr and 3.15 tons per year. See A.2 a below. Visible emissions of fugitive dust shall not exceed 15% opacity except as provided by rule.

2. Additional Terms and Conditions

- 2.a The permittee shall employ best available control measures during all crushing operations for the purpose of ensuring compliance with the above-mentioned applicable requirements. Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by applying water at sufficient frequencies to maintain the material in a moist condition and ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.b The above hourly of and annual particulate emission limitations were established to reflect the potential to emit for these emissions units. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with these limits.

B. Operational Restrictions

1. Water shall be applied at points necessary to ensure compliance with the visible emission limitations specified above for crushing.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall perform daily checks when crushing equipment is in operation and when weather conditions allow, for any visible particulate emissions from the crushing operation. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operation log:
 - a. whether the emissions are representative of normal operations;
 - b. if the emissions are not representative of normal conditions, the cause of the abnormal emissions;
 - c. the total duration of any visible emission incident, and
 - d. any corrective action taken to eliminate the visible emissions.

D. Reporting Requirements

1. The permittee shall submit semiannual reports which (a) identify all days during which any abnormal visible fugitive particulate emissions were observed from crushing operations and (b) describe any corrective actions taken to eliminate the abnormal visible fugitive particulate emissions. These reports shall be submitted to the Central District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

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 shall not exceed 0.75 lbs/hr.

Applicable Compliance Method: Compliance with the allowable mass emission rate for particulate emissions from the crusher shall be determined by multiplying an emission factor of 0.0012 pounds particulate emissions per ton of aggregate processed by the emission unit's maximum hourly throughput (60 tons). This emission factor is specified in USEPA reference document AP-42, fifth Edition Compilation of Air Pollution Emission Factors Section 11.19.2 table 11.19.2-2 (1/95). 0.0012 (lb/ton emission factor for TSP PE; AP-42 1/95 Table 11.19.2-2 * 60 tons/hr (3/7/03 application) = 0.75 Lbs

- b. Emission Limitation:
Particulate emissions shall not exceed 3.15 Tons per year.

Applicable Compliance Method:

Compliance with these annual limitations shall be assumed as long as compliance with the hourly limitation is maintained (the annual limitations were calculated by multiplying by 8760, and then dividing by 2000).

$$0.75 \text{ Lbs PE/hour} * 8760 \text{ hours} / 2000 = 3.15 \text{ TPY PE.}$$

- c. Emission limitation:
Visible emissions of fugitive dust shall not exceed 15% opacity.

Applicable Compliance Method:

The permittee shall conduct, or have conducted, emission testing for the crusher and transfer points in accordance with the following requirements:

- i. On or before the sixtieth day after the PTI is issued, but not later than 180 days after initial permit issuance, emissions testing shall be conducted.
- ii. The emission testing shall be conducted to demonstrate compliance with the opacity limitations.
- iii. The following test method shall be employed to demonstrate compliance with 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 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 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.

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.

<u>Source Number</u>	<u>Source Description</u>	<u>NSPS Regulation (Subpart)</u>
P001	Primary Crusher (60 ton/hr)	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
3232 Alum Creek Drive
Columbus, OH 43207

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>
P002 - 150 Ton Eljay model 54 roller cone crusher, serial number 23j0480	OAC rule 3745-31-05(A)(3) 40 CFR Part 60, Subpart OOO	Particulate emissions shall not exceed 0.75 lb/hr and 3.28 tons per year. See A.2 a, below. Visible emissions of fugitive dust shall not exceed 15% opacity except as provided by rule.

2. Additional Terms and Conditions

- 2.a The permittee shall employ best available control measures during all crushing operations for the purpose of ensuring compliance with the above-mentioned applicable requirements. Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by applying water at sufficient frequencies to maintain the material in a moist condition and ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.b The above hourly of and annual particulate emission limitations were established to reflect the potential to emit for these emissions units. Therefore, it is not necessary to develop recordkeeping and/or reporting requirements to ensure compliance with these limits.

B. Operational Restrictions

1. Water shall be applied at points necessary to ensure compliance with the visible emission limitations specified above for crushing.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall perform daily checks when crushing equipment is in operation and when weather conditions allow, for any visible particulate emissions from the crushing operation. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operation log:
 - a. whether the emissions are representative of normal operations;
 - b. if the emissions are not representative of normal conditions, the cause of the abnormal emissions;
 - c. the total duration of any visible emission incident, and
 - d. any corrective action taken to eliminate the visible emissions.

D. Reporting Requirements

1. The permittee shall submit semiannual reports which (a) identify all days during which any abnormal visible fugitive particulate emissions were observed from crushing operations and (b) describe any corrective actions taken to eliminate the abnormal visible fugitive particulate emissions. These reports shall be submitted to the Central District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

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 shall not exceed 0.75 lb/hr.

Applicable Compliance Method: Compliance with the allowable mass emission rate for particulate emissions from the crusher shall be determined by multiplying an emission factor of 0.005 pounds particulate emissions per ton of aggregate processed by the emission unit's maximum hourly throughput (150 tons). This emission factor is specified in USEPA reference document AP-42, fifth Edition Compilation of Air Pollution Emission Factors Section 11.19.2 table 11.19.2-2 (1/95).

$0.005 * 150 \text{ tons/hr (3/7/03 application)} = 0.75 \text{ Lbs/hr of particulate emissions}$

- b. Emission Limitation:
Particulate emissions shall not exceed 3.28 Tons per year.

Applicable Compliance Method:

Compliance with these annual limitations shall be assumed as long as compliance with the hourly limitation is maintained (the annual limitations were calculated by multiplying by 8760, and then dividing by 2000). $0.75 \text{ Lbs PE/hour} * 8760\text{hours}/2000 = 3.28 \text{ TPY PE}$.

- c. Emission limitation:
Visible emissions of fugitive dust shall not exceed 15% opacity.

Applicable Compliance Method:

The permittee shall conduct, or have conducted, emission testing for the crusher and transfer points in accordance with the following requirements:

- i. On or before the sixtieth day after the PTI is issued, but not later than 180 days after initial permit issuance, emissions testing shall be conducted.
- ii. The emission testing shall be conducted to demonstrate compliance with the opacity limitations.
- iii. The following test method shall be employed to demonstrate compliance with 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 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 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.

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.

<u>Source Number</u>	<u>Source Description</u>	<u>NSPS Regulation (Subpart)</u>
P002	Secondary Crusher (150 ton/hr)	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
3232 Alum Creek Drive
Columbus, OH 43207

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>
P003 - 250 Ton per hour model 77 VSI ipmact crusher. Manufacturer Impact Crusher Service, serial 77101	OAC rule 3745-31-05(A)(3) 40 CFR Part 60, Subpart 000	Particulate emissions shall not exceed 1.25 lb/hr and 5.47 tons per year. See A.2 a, below. Visible emissions of fugitive dust shall not exceed 15% opacity except as provided by rule.

2. Additional Terms and Conditions

- 2.a The permittee shall employ best available control measures during all crushing operations for the purpose of ensuring compliance with the above-mentioned applicable requirements. Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by applying water at sufficient frequencies to maintain the material in a moist condition and ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.b The above hourly of and annual particulate emission limitations were established to reflect the potential to emit for these emissions units. Therefore, it is not necessary to develop recordkeeping and/or reporting requirements to ensure compliance with these limits.

B. Operational Restrictions

1. Water shall be applied at points necessary to ensure compliance with the visible emission limitations specified above for crushing.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall perform daily checks when crushing equipment is in operation and when weather conditions allow, for any visible particulate emissions from the crushing operation. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operation log:
 - a. whether the emissions are representative of normal operations;
 - b. if the emissions are not representative of normal conditions, the cause of the abnormal emissions;
 - c. the total duration of any visible emission incident, and
 - d. any corrective action taken to eliminate the visible emissions.

D. Reporting Requirements

1. The permittee shall submit semiannual reports which (a) identify all days during which any abnormal visible fugitive particulate emissions were observed from crushing operations and (b) describe any corrective actions taken to eliminate the abnormal visible fugitive particulate emissions. These reports shall be submitted to the Central District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

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 shall not exceed 1.25 lb/hr.

Applicable Compliance Method: Compliance with the allowable mass emission rate for particulate emissions from the crusher shall be determined by multiplying an emission factor of 0.005 pounds particulate emissions per ton of aggregate processed by the emission unit's maximum hourly throughput (250 tons). This emission factor is specified in USEPA reference document AP-42, fifth Edition Compilation of Air Pollution Emission Factors Section 11.19.2 table 11.19.2-2 (1/95). $0.005 * 250 \text{ tons/hr (3/7/03 application)} = 1.25 \text{ Lbs/hr of particulate emissions}$

- b. Emission Limitation:
Particulate emissions shall not exceed 5.47 tons per year.

Applicable Compliance Method:

Compliance with these annual limitations shall be assumed as long as compliance with the hourly limitation is maintained (the annual limitations were calculated by multiplying by 8760, and then dividing by 2000). $1.25 \text{ Lbs PE/hour} * 8760\text{hours}/2000 = 5.47 \text{ TPY PE}$.

- c. Emission limitation:
Visible emissions of fugitive dust shall not exceed 15% opacity.

Applicable Compliance Method:

The permittee shall conduct, or have conducted, emission testing for the crusher and transfer points in accordance with the following requirements:

- i. On or before the sixtieth day after the PTI is issued, but not later than 180 days after initial permit issuance, emissions testing shall be conducted.
- ii. The emission testing shall be conducted to demonstrate compliance with the opacity limitations.
- iii. The following test method shall be employed to demonstrate compliance with 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 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 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.

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.

<u>Source Number</u>	<u>Source Description</u>	<u>NSPS Regulation (Subpart)</u>
P003	Secondary Crusher (250 ton/hr)	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
3232 Alum Creek Drive
Columbus, OH 43207

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>
P004 - 50 Ton per hour model HD 250 crusher. Manufacturer Canica, serial number 16603	OAC rule 3745-31-05(A)(3) 40 CFR Part 60, Subpart OOO	Particulate emissions shall not exceed 0.25 lb/hr and 1.0 tons per year. See A.2 a, below. Visible emissions of fugitive dust shall not exceed 15% opacity except as provided by rule.

2. Additional Terms and Conditions

- 2.a The permittee shall employ best available control measures during all crushing operations for the purpose of ensuring compliance with the above-mentioned applicable requirements. Compliance with OAC rule 3745-31-05(A)(3) shall be demonstrated by applying water at sufficient frequencies to maintain the material in a moist condition and ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.b The above hourly of and annual particulate emission limitations were established to reflect the potential to emit for these emissions units. Therefore, it is not necessary to develop recordkeeping and/or reporting requirements to ensure compliance with these limits.

B. Operational Restrictions

1. Water shall be applied at points necessary to ensure compliance with the visible emission limitations specified above for crushing.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall perform daily checks when crushing equipment is in operation and when weather conditions allow, for any visible particulate emissions from the crushing operation. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operation log:
 - a. whether the emissions are representative of normal operations;
 - b. if the emissions are not representative of normal conditions, the cause of the abnormal emissions;
 - c. the total duration of any visible emission incident, and
 - d. any corrective action taken to eliminate the visible emissions.

D. Reporting Requirements

1. The permittee shall submit semiannual reports which (a) identify all days during which any abnormal visible fugitive particulate emissions were observed from crushing operations and (b) describe any corrective actions taken to eliminate the abnormal visible fugitive particulate emissions. These reports shall be submitted to the Central District Office by January 31 and July 31 of each year and shall cover the previous 6-month period.

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 shall not exceed 0.25 lb/hr.

Applicable Compliance Method: Compliance with the allowable mass emission rate for particulate emissions from the crusher shall be determined by multiplying an emission factor of 0.005 pounds particulate emissions per ton of aggregate processed by the emission unit's maximum hourly throughput (50 tons). This emission factor is specified in USEPA reference document AP-42, fifth Edition Compilation of Air Pollution Emission Factors Section 11.19.2 table 11.19.2-2 (1/95). $0.005 * 50 \text{ tons/hr (3/7/03 application)} = 0.25\text{lb/hr.}$

- b. Emission Limitation:
Particulate emissions shall not exceed 1.00 tons per year.

Applicable Compliance Method:

Compliance with these annual limitations shall be assumed as long as compliance with the hourly limitation is maintained (the annual limitations were calculated by multiplying by 8760, and then dividing by 2000). $0.25 \text{ Lbs PE/hour} * 8760\text{hours}/2000 = 1.0 \text{ TPY PE}$.

- c. Emission limitation:
Visible emissions of fugitive dust shall not exceed 15% opacity.

Applicable Compliance Method:

The permittee shall conduct, or have conducted, emission testing for the crusher and transfer points in accordance with the following requirements:

- i. On or before the sixtieth day after the PTI is issued, but not later than 180 days after initial permit issuance, emissions testing shall be conducted.
- ii. The emission testing shall be conducted to demonstrate compliance with the opacity limitations.
- iii. The following test method shall be employed to demonstrate compliance with 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 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 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.

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.

<u>Source Number</u>	<u>Source Description</u>	<u>NSPS Regulation (Subpart)</u>
P004	Secondary Crusher (50 ton/hr)	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
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