



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL
ERIE 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: 03-13387

DATE: 2/25/2003

Wagner Quarries Company
Martin Jones
4203 Milan Road
Sandusky, OH 44870

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

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

You are hereby notified that this action by the Director is final and may be appealed to the Ohio Environmental Review Appeals Commission pursuant to Chapter 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. It must be filed within thirty (30) days after the notice of the Directors action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
236 East Town Street, Room 300
Columbus, Ohio 43215

Very truly yours,

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

cc: USEPA

NWDO



**Permit To Install
Terms and Conditions**

**Issue Date: 2/25/2003
Effective Date: 2/25/2003**

FINAL PERMIT TO INSTALL 03-13387

Application Number: 03-13387
APS Premise Number: 0322020200
Permit Fee: **\$2000**
Name of Facility: Wagner Quarries Company
Person to Contact: Martin Jones
Address: 4203 Milan Road
Sandusky, OH 44870

Location of proposed air contaminant source(s) [emissions unit(s)]:
**4203 Milan Road
Sandusky, Ohio**

Description of proposed emissions unit(s):
Modification to aggregate processing plant to replace the secondary crusher and add 7 new conveyors.

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 record keeping 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 record keeping 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.

Wagner Quarries Company
 PTI Application: 03-13387
 Issued: 2/25/2003

Facility ID: 0322020200

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 (PE) - stack	10.27
PE - fugitive	50.0
Organic Compounds	95.0

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>
P901 - aggregate processing plant (modification of PTI #03-09626 issued on June 11, 1997) modification involves replacement of secondary crusher and add 7 new conveyors (formerly permitted as emissions unit F002)	OAC rule 3745-31-05(A)(3)
	OAC rule 3745-31-05(D)
	40 <u>CFR</u> Part 60, Subpart OOO
	OAC rule 3745-17-11(B)
	OAC rule 3475-17-07(A)
	OAC rule 3745-17-08(B)
	OAC rule 3745-17-07(B)

Applicable Emissions <u>Limitations/Control Measures</u>	See A.2.f
See A.2.a.	95.0 tons OC/rolling 12-month period from stack emissions (see A.2.g)
<u>stack particulate emissions (PE):</u>	See A.2.b
primary crusher baghouse - 1.71 pounds PE/hour, 2.70 tons PE/year	See A.2.c
secondary crusher baghouse - 1.71 pounds PE/hour, 2.70 tons PE/year	See A.2.c
tertiary crusher (mill #1) baghouse - 2.57 pounds PE/hour, 4.06 tons PE/year	See A.2.d
mill #2 (small) baghouse - 0.51 pound PE/hour, 0.81 ton PE/year	See A.2.e
<u>fugitive PE</u> : 50.0 tons PE/year	
<u>visible emissions restrictions</u> : (see A.2.b)	
<u>stack organic compound (OC) emissions</u> :	
primary crusher baghouse - 28.29 pounds OC/hour	
secondary crusher baghouse - 28.33 pounds OC/hour	
tertiary crusher (mill #1) baghouse - 66.95 pounds OC/hour	
mill #2 (small) baghouse - 10.48 pounds OC/hour	

2. Additional Terms and Conditions

2.a The permittee shall employ best available technology (BAT) on this emissions unit. BAT has been determined to be the use of the control measures and visible emissions restrictions outlined in section A.2.b.

2.b Visible particulate emissions and control requirements shall comply with the following:

Emissions Point (Company ID)	Equipment Type	Control Measure	Regulatory Basis for Control Measure	Opacity Limit	Regulatory Basis for Opacity Limitation
primary crusher	crusher	stack emissions with a maximum outlet concentration of 0.02 gr/dscf (0.05 g/dscm)	OAC rule 3745-31-05(A)(3)	7 % stack; 10 % fugitive	OAC rule 3745-31-05(A)(3)
secondary crusher	crusher	stack emissions with a maximum outlet concentration of 0.02 gr/dscf (0.05 g/dscm)	40 <u>CFR</u> Part 60, Subpart 000	7 % stack; 10 % fugitive	40 <u>CFR</u> Part 60, Subpart 000
tertiary crusher	crusher	stack emissions with a maximum outlet concentration of 0.02 gr/dscf (0.05 g/dscm)	OAC rule 3745-31-05(A)(3)	7 % stack; 10 % fugitive	OAC rule 3745-31-05(A)(3)
screen #1	screen	enclosure	40 <u>CFR</u> Part 60, Subpart 000	10 % fugitive	40 <u>CFR</u> Part 60, Subpart 000
screen #2	screen	enclosure	40 <u>CFR</u> Part 60, Subpart 000	10 % fugitive	40 <u>CFR</u> Part 60, Subpart 000

screen #3	screen	stack emissions with a maximum outlet concentration of 0.02 gr/dscf (0.05 g/dscm)	OAC rule 3745-31-05(A)(3)	7 % stack; 10 % fugitive	OAC 3745-31-05(A)(3)
screen #4	screen	stack emissions with a maximum outlet concentration of 0.02 gr/dscf (0.05 g/dscm)	OAC rule 3745-31-05(A)(3)	7 % stack; 10 % fugitive	OAC 3745-31-05(A)(3)
screen #5	screen	enclosure	OAC rule 3745-31-05(A)(3)	10 % fugitive	OAC 3745-31-05(A)(3)
screen #6	screen	enclosure	OAC rule 3745-31-05(A)(3)	10 % fugitive	OAC 3745-31-05(A)(3)
primary crusher to conveyor #1	transfer point			10 % fugitive	OAC rule 3745-31-05(A)(3)
primary crusher baghouse to conveyor #1	transfer point			10 % fugitive	OAC rule 3745-31-05(A)(3)
feeder to conveyor #1	transfer point			10 % fugitive	OAC rule 3745-31-05(A)(3)
conveyor #1 to conveyor #2	transfer point	enclosure & water spray	OAC rule 3745-31-05(A)(3)	10 % fugitive	OAC rule 3745-31-05(A)(3)
conveyor #2 to conveyor #3	transfer point	enclosure & water spray	OAC rule 3745-31-05(A)(3)	10 % fugitive	OAC rule 3745-31-05(A)(3)
conveyor #3 to screen #1	transfer point			10 % fugitive	40 CFR Part 60, Subpart OOO
screen #1 to conveyor #4	transfer point			10 % fugitive	40 CFR Part 60, Subpart OOO

screen #1 to conveyor #5	transfer point			10 % fugitive	40 <u>CFR</u> Part 60, Subpart 000
screen #1 to conveyor #6A	transfer point	enclosure & water spray	40 <u>CFR</u> Part 60, Subpart 000	10 % fugitive	40 <u>CFR</u> Part 60, Subpart 000
conveyor #6A to conveyor #6	transfer point	enclosure & water spray	OAC 3745-31-05(A)(3)	10 % fugitive	OAC 3745-31-05(A)(3)
surge pile to conveyor #7	transfer point			10 % fugitive	OAC 3745-31-05(A)(3)
conveyor #7 to conveyor #8	transfer point			10 % fugitive	OAC 3745-31-05(A)(3)
conveyor #8 to screen #2	transfer point			10 % fugitive	40 <u>CFR</u> Part 60, Subpart 000
screen #2 to secondary crusher	transfer point			10 % fugitive	40 <u>CFR</u> Part 60, Subpart 000
screen #2 to conveyor #9	transfer point			10 % fugitive	40 <u>CFR</u> Part 60, Subpart 000
conveyor #9 to conveyor #10	transfer point			10 % fugitive	40 <u>CFR</u> Part 60, Subpart 000
screen #2 to conveyor #12	transfer point			10 % fugitive	40 <u>CFR</u> Part 60, Subpart 000
screen #2 to conveyor #11	transfer point			10 % fugitive	40 <u>CFR</u> Part 60, Subpart 000
screen #2 to conveyor #8B	transfer point			10 % fugitive	40 <u>CFR</u> Part 60, Subpart 000
conveyor #8B to conveyor #8A	transfer point			10 % fugitive	40 <u>CFR</u> Part 60, Subpart 000

Wagner

PTI A

Issued: 2/25/2003

Emissions Unit ID: P901

secondary crusher to conveyor #12A	transfer point			10 % fugitive	40 <u>CFR</u> Part 60, Subpart 000
conveyor #12A to conveyor #12	transfer point			10 % fugitive	40 <u>CFR</u> Part 60, Subpart 000
conveyor #12 to conveyor #13	transfer point	stack emissions with a grain loading of 0.02 gr/dscf (0.05 g/dscm)	40 <u>CFR</u> Part 60, Subpart 000	7 % stack; 10 % fugitive	40 <u>CFR</u> Part 60, Subpart 000
conveyor #12 to conveyor #14	transfer point	stack emissions with a grain loading of 0.02 gr/dscf (0.05 g/dscm)	40 <u>CFR</u> Part 60, Subpart 000	7 % stack; 10 % fugitive	40 <u>CFR</u> Part 60, Subpart 000
conveyor #13 to screen #3	transfer point	enclosure	OAC 3745-31-05(A)(3)	10 % fugitive	OAC 3745-31-05(A)(3)
conveyor #14 to screen #4	transfer point	enclosure	OAC 3745-31-05(A)(3)	10 % fugitive	OAC 3745-31-05(A)(3)
tertiary crusher to conveyor #15	transfer point	stack emission with a grain loading of 0.02 gr/dscf (0.05 g/dscm)	OAC 3745-31-05(A)(3)	7% stack; 10 % fugitive	OAC 3745-31-05(A)(3)
conveyor #15 to conveyor #13	transfer point	stack emission with a grain loading of 0.02 gr/dscf (0.05 g/dscm)	OAC 3745-31-05(A)(3)	7 % stack; 10 % fugitive	OAC 3745-31-05(A)(3)
conveyor #15 to conveyor #14	transfer point	stack emissions with a grain loading of 0.02 gr/dscf (0.05 g/dscm)	OAC 3745-31-05(A)(3)	7 % stack; 10 % fugitive	OAC 3745-31-05(A)(3)
screen #5 to conveyor #17	transfer point	enclosure	40 <u>CFR</u> Part 60, Subpart 000	10 % fugitive	40 <u>CFR</u> Part 60, Subpart 000

screen #5 to conveyor #16	transfer point	enclosure	40 <u>CFR</u> Part 60, Subpart OOO	10 % fugitive	40 <u>CFR</u> Part 60, Subpart OOO
conveyor #17 to conveyor #18	transfer point			10 % fugitive	40 <u>CFR</u> Part 60, Subpart OOO
screen #6 to conveyor #17	transfer point	enclosure	40 <u>CFR</u> Part 60, Subpart OOO	10 % fugitive	40 <u>CFR</u> Part 60, Subpart OOO
screen #6 to conveyor #16	transfer point	enclosure	40 <u>CFR</u> Part 60, Subpart OOO	10 % fugitive	40 <u>CFR</u> Part 60, Subpart OOO
conveyor #16 to conveyor #19	transfer point	enclosure	40 <u>CFR</u> Part 60, Subpart OOO	10 % fugitive	40 <u>CFR</u> Part 60, Subpart OOO
conveyor #19 to conveyor #20	transfer point			10 % fugitive	OAC 3745-31-05(A)(3)
conveyor #20 to conveyor #21	transfer point			10 % fugitive	40 <u>CFR</u> Part 60, Subpart OOO
sandscrew to conveyor #22	transfer point	enclosure	40 <u>CFR</u> Part 60, Subpart OOO	No visible emissions	OAC 3745-31-05(A)(3)
conveyor #22 to conveyor #23	transfer point	enclosure	40 <u>CFR</u> Part 60, Subpart OOO	No visible emissions	OAC 3745-31-05(A)(3)
screen #3 to conveyor #24	transfer point	stack emission with a grain loading of 0.02 gr/dscf (0.05 g/dscm)	40 <u>CFR</u> Part 60, Subpart OOO	7 % stack; 10 % fugitive	40 <u>CFR</u> Part 60, Subpart OOO

Wagner Quarries Company

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Facility ID: 0322020200

Emissions Unit ID: P901

screen #4 to conveyor #24	transfer point	stack emission with a grain loading of 0.02 gr/dscf (0.05 g/dscm)	40 <u>CFR</u> Part 60, Subpart 000	7 % stack; 10 % fugitive	40 <u>CFR</u> Part 60, Subpart 000
conveyor #24 to conveyor #25	transfer point	baghouse (new) with a grain loading of 0.02 gr/dscf (0.05 g/dscm)	40 <u>CFR</u> Part 60, Subpart 000	7 % stack; 10 % fugitive	40 <u>CFR</u> Part 60, Subpart 000
conveyor #25 to conveyor #26	transfer point	baghouse (new) with a grain loading of 0.02 gr/dscf (0.05 g/dscm)	40 <u>CFR</u> Part 60, Subpart 000	7 % stack; 10 % fugitive	40 <u>CFR</u> Part 60, Subpart 000
conveyor #26 to conveyor #26A	transfer point			10 % fugitive	40 <u>CFR</u> Part 60, Subpart 000
conveyor #26A to conveyor #9	transfer point	stack emission with a grain loading of 0.02 gr/dscf (0.05 g/dscm)	40 <u>CFR</u> Part 60, Subpart 000	7% stack; 10% fugitive	40 <u>CFR</u> Part 60, Subpart 000
truck unloading into feeder	transfer point			20 % as a 3-minute average	OAC 3745-31-05(A)(3)
chute to #9 storage bin	transfer point	stockpiled wet	OAC 3745-31-05(A)(3)	10 % fugitive	OAC 3745-31-05(A)(3)
chute to #4 storage bin	transfer point			10 % fugitive	OAC 3745-31-05(A)(3)
#9 storage bin to belt feeder	transfer point	stockpiled wet	40 <u>CFR</u> Part 60, Subpart 000	10 % fugitive	40 <u>CFR</u> Part 60, Subpart 000
#4 storage bin to belt feeder	transfer point			10 % fugitive	40 <u>CFR</u> Part 60, Subpart 000
#9 belt feeder to truck	transfer point	stockpiled wet	OAC 3745-31-05(A)(3)	20 % opacity as a 3-minute average	OAC 3745-31-05(A)(3)

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PTI A

Issued: 2/25/2003

Emissions Unit ID: **P901**

#4 belt feeder to truck	transfer point			20 % opacity as a 3-minute average	OAC 3745-31-05(A)(3)
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- 2.c** The emission limitation specified by this rule is less stringent than the emissions limitation established pursuant to OAC rule 3745-31-05(A)(3).
- 2.d** This emissions unit is exempt from the requirements specified in OAC rule 3745-17-08(B), pursuant to OAC rule 3745-17-08(A)(1), because this fugitive dust source is not located within the geographical areas specified in Appendix A of rule 3745-17-08.
- 2.e** This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B)(11)(e), because this fugitive dust source is not located within the geographical areas specified in Appendix A of OAC rule 3745-17-08.
- 2.f** The requirements of this rule include compliance with 40 CFR Part 60, Subpart OOO and OAC rule 3745-31-05(D).
- 2.g** The permittee has requested a federally enforceable limitation of 95.0 tons OC per rolling twelve month period based on aggregate type/throughput restrictions (see B.1), for the purpose of avoiding Title V applicability.

For the purpose of federal enforceability, limitations on OC effectively limit VOC.

B. Operational Restrictions

- 1.** The maximum rolling 12-month aggregate throughput* for this emissions unit is limited by the following equation, but shall not exceed 3,283,700 tons:

$$\sum_{M=1}^{12} \sum_n U_n C_n \leq 95.0 \text{ 1ton/2000 lbs}$$

Where,

- M = the increment of the rolling 12-month period;
- n = the increment of the aggregate throughput during the period;
- U_n = total throughput of the individual aggregate - 1st bench, 2nd bench, 3rd bench, 4th bench, etc.
- C_n = emission factor for the individual aggregate in lbs OC/ton aggregate

*aggregate throughput shall be based on the aggregate throughput of the feeder

- 2. The maximum annual hours of operation shall not exceed 3,159 hours.
- 3. The pressure drop across the primary crusher baghouse shall be maintained within the range of 1-6 inches of water while the primary crusher is in operation.
- 4. The pressure drop across the secondary crusher baghouse shall be maintained within the range of 1-6 inches of water while the secondary crusher, and/or conveyor #26A to conveyor #9 are in operation.
- 5. The pressure drop across the mill #1 baghouse shall be maintained within the range of 1-6 inches of water while the tertiary crusher, screen #3, screen #4, screen #3 to conveyor #24, screen #4 to conveyor #24, conveyor #24 to conveyor #25, and/or tertiary crusher to conveyor #15 transfer point are in operation.
- 6. The pressure drop across the mill #2 baghouse shall be maintained within the range of 1-6 inches of water while the conveyor #12 to conveyor #13, conveyor #12 to conveyor #14, conveyor #15 to conveyor #13, conveyor #15 to conveyor #14, and/or conveyor #25 to conveyor #26 transfer point/s are in operation.

C. Monitoring and/or Record keeping Requirements

- 1. The permittee shall maintain monthly records of the following information:
 - a. The name and identification of each individual type of aggregate processed (1st bench, 2nd bench, 3rd bench, 4th bench, etc.);
 - b. The quantity of each individual type of aggregate processed, in tons;
 - c. The quantity of all aggregate processed, in tons (summation of C.1.b);
 - d. The rolling 12-month summation of all aggregate processed, in tons;
 - e. The OC emissions for each individual type of aggregate processed, in tons/month, calculated as follows:

$$E_n = \square \square U_n \square \square C_n \square \square 1\text{ton}/2000 \text{ lbs} \square \square$$

E_n = OC emissions from an individual type of aggregate

U_n = total throughput of the individual type of aggregate - 1st bench, 2nd bench, 3rd bench, 4th bench, etc.

C_n = emission factor for the individual aggregate in lbs OC/ton aggregate

- f. The total OC emission rate of all aggregate processed, in tons/month, calculated as follows:

$$E_M = E_1 + E_2 + E_3 + \dots + E_n$$

Where:

E_M = Monthly OC emissions, in tons/month; and,

E_n = OC emissions from each individual aggregate processed (C.1.c)

- g. The rolling, 12-month OC emission rate calculated as follows:

$$E_T = E_{M1} + E_{M2} + E_{M3} + \dots + E_{M12}$$

Where:

E_T = Annual OC emissions (tons) as summed from the previous 12 months of monthly OC emissions;

E_M = Monthly OC emissions (tons/month).

- h. The total hours of operation each month;
- i. The total hours of operation, to date for the calendar year.
2. The permittee shall properly install, operate and maintain equipment to monitor the pressure drop across each of the 4 baghouses while the associated equipment is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across each baghouse on a once-per-8 hour shift basis.
3. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate fugitive emissions from this emissions unit. The presence or absence of any visible fugitive emissions shall be noted in an operations log. If visible fugitive emissions are observed, the permittee shall also note the following in the

operations log:

- a. The location and color of the emissions;
- b. Whether the emissions are representative of normal operations;
- c. If the emissions are not representative of normal operations, the cause of the abnormal emissions;
- d. The total duration of any visible emissions incident; and
- e. Any corrective actions taken to eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify all exceedances of the following:
 - a. The rolling, 12-month OC emissions limitation; and
 - b. The rolling, 12-month aggregate throughput limitation.

The permittee shall submit these deviation (excursion) reports in accordance with the General Terms and Conditions of this permit.

2. The permittee shall submit annual written reports of any deviation (excursion) from the annual hours of operation limitation in B.2. If no deviations occurred during a calendar year, the permittee shall submit an annual report which states that no deviations occurred. The report shall be submitted by January 31 of each year and shall cover the previous calendar year.

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3. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across each baghouse did not comply with the allowable range specified above. The permittee shall submit these deviation (excursion) reports in accordance with the General Terms and Conditions of this permit.
4. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate fugitive emissions were observed from this emissions unit, and (b) describe any corrective actions taken to minimize or eliminate the visible particulate fugitive emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.
5. The permittee shall submit the following information for each piece of equipment that is replaced by a piece of equipment having the same function as the existing facility:
 - a. For a conveyor belt:
 - i. The width of the existing belt being replaced, and
 - ii. The width of the replacement conveyor belt.

The notification shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days after the equipment replacement.

6. Pursuant to the general provisions of NSPS, the source owner/operator is hereby advised of the requirement to report the following at the appropriate times for this emissions unit:
 - a. Construction date (no later than 30 days after such date); and
 - b. Date of performance testing (if required, at least 30 days prior to testing).

Reports are to be sent to:

Ohio Environmental Protection Agency
DAPC - Permit Management Unit
Lazarus Government Center
P.O. Box 1049
Columbus, Ohio 43216-1049

and:

Ohio EPA, Northwest District Office
347 North Dunbridge Road
Bowling Green, Ohio 43402

E. Testing Requirements

1. The permittee shall conduct, or have conducted, emissions testing for all stack particulate emissions that are subject to 40 CFR Part 60, Subpart OOO. The permittee shall also conduct, or have conducted, visible emissions testing for all fugitive emissions points of emissions unit P901, that are subject to 40 CFR Part 60, Subpart OOO (See E.7.g).
2. Testing shall be conducted in accordance with the provisions of 40 CFR Part 60, Subpart OOO, Section 60.675.
3. The emissions testing shall be conducted within 60 days after achieving the maximum production rate at which the affected facility will be operated, by not later than 180 days after initial startup of such facility and at such other times as may be required by the Ohio Environmental Protection Agency, Division of Air Pollution Control. The emissions testing shall be conducted to demonstrate compliance with the allowable stack particulate emissions rates and fugitive opacity limitations for particulate emissions.
4. The test methods and procedures outlined in 40 CFR 60.675 shall be employed to demonstrate compliance with the allowable emission limitations.
5. The tests shall be conducted while the emissions unit is operating at its maximum capacity, unless otherwise specified or approved by the Ohio EPA, Division of Air Pollution Control. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Division of Air Pollution Control. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the times and dates of the tests, and the person(s) who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in the Ohio EPA District Office's air agency's refusal to accept the results of the emissions tests.
6. Personnel from the Ohio EPA District Office's air agency shall be permitted to witness the test, 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 unit and/or the performance of the control equipment. A comprehensive written report on the emissions tests shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA Division of Air Pollution Control within 30 days following completion

of the tests.

7. Compliance Methods Requirements: Compliance with the emission limitation(s) in section A.1 of the terms and conditions of this permit shall be determined in accordance with the following method(s):

- a. Emission Limitation:
stack emissions with a maximum outlet concentration of 0.02 gr/dscf (0.05 g/dscm)

Applicable Compliance Method:

The permittee shall demonstrate compliance with the grain loading limitation through the testing requirements contained in section E.1. - E.6.

- b. Emission Limitation:
primary crusher baghouse - 1.71 pounds PE/hour, 2.70 tons PE/year

Applicable Compliance Method:

If required the permittee shall demonstrate compliance with the pounds per hour limitation through the testing requirements contained in section E.1. - E.6. Compliance with the tons/yr shall be determined by multiplying the lbs/hr limitation by a maximum operating schedule of 3,159 hrs/yr and dividing by 2000 lbs/ton. Therefore, provided compliance with the lb/hr limitation and annual hourly operating restriction are shown, compliance with the tons/yr limitation will be assumed.

- c. Emission Limitation:
secondary crusher baghouse - 1.71 pounds PE/hour, 2.70 tons PE/year

Applicable Compliance Method:

The permittee shall demonstrate compliance with the pounds per hour limitation through the testing requirements contained in section E.1. - E.6. Compliance with the tons/yr shall be determined by multiplying the lbs/hr limitation by a maximum operating schedule of 3,159 hrs/yr and dividing by 2000 lbs/ton. Therefore, provided compliance with the lb/hr limitation and annual hourly operating restriction are shown, compliance with the tons/yr limitation will be assumed.

- d. Emission Limitation:
tertiary crusher (mill #1) baghouse - 2.57 pounds PE/hour, 4.06 tons PE/year

Applicable Compliance Method:

If required the permittee shall demonstrate compliance with the pounds per hour limitation through the testing requirements contained in section E.1. - E.6. Compliance with the tons/yr shall be determined by multiplying the lbs/hr limitation by a maximum operating schedule of 3,159 hrs/yr and dividing by 2000 lbs/ton. Therefore, provided compliance with the lb/hr limitation and annual hourly operating restriction are shown, compliance with the tons/yr limitation will be assumed.

- e. Emission Limitation:
mill #2 baghouse - 0.51 pound PE/hour, 0.81 ton PE/year

Applicable Compliance Method:

If required the permittee shall demonstrate compliance with the pounds per hour limitation through the testing requirements contained in section E.1. - E.6. Compliance with the tons/yr shall be determined by multiplying the lbs/hr limitation by a maximum operating schedule of 3,159 hrs/yr and dividing by 2000 lbs/ton. Therefore, provided compliance with the lb/hr limitation and annual hourly operating restriction are shown, compliance with the tons/yr limitation will be assumed.

- f. Emission Limitation:
50.0 tons fugitive PE/year

Applicable Compliance Method:

The permittee shall demonstrate compliance by multiplying a maximum annual aggregate throughput limitation of 3,283,700 by the appropriate AP-42 emission factors from Table 11.19.2-2 (revised 1/95), and applying a 80% capture efficiency for the portion of the emissions which are controlled.

- g. Emission Limitation:
Visible PE limitations identified in sections II.A.2.b, 2.c and 2.e.

Applicable Compliance Method:

The permittee shall demonstrate compliance through the testing requirements contained in section E.1. - E.6. for visible fugitive emissions associated with the secondary crusher, screen #1, screen #2, and the following transfer points: conveyor #12 to #13, conveyor #12 to #14, conveyor #24 to conveyor #25, conveyor #25 to conveyor #26, conveyor #3 to screen#1, screen #1 to conveyor #4, screen #1 to conveyor #5, screen #1 to conveyor #6A, conveyor #8 to screen #2, screen #2 to secondary crusher, screen #2 to conveyor #9, conveyor #9 to conveyor #10, screen #2 to conveyor #12, screen #2 to conveyor #11, screen #2 to conveyor #8B, conveyor #8B to conveyor #8A, secondary crusher to conveyor #12A, conveyor #12A to conveyor #12, screen #5 to conveyor #17, screen #5

to conveyor #16, conveyor #17 to conveyor #18, screen #6 to conveyor #17, screen #6 to conveyor #16, conveyor #16 to conveyor #19, conveyor #20 to conveyor #21, conveyor #26 to conveyor #26a, conveyor 26a to conveyor #9, sandscrew to conveyor #22, screen #3 to conveyor #24, screen #4 to conveyor #24, #9 storage bin to belt feeder, and #4 storage bin to belt feeder. If required compliance with all other visible emissions not specified above shall be demonstrated by visible emissions testing using the methods and procedures specified in 40 CFR Part 60, Section 60.675.

- h. Emission Limitation:
primary crusher baghouse - 28.29 pounds OC/hour

Applicable Compliance Method:

The permittee may demonstrate compliance by multiplying a maximum aggregate throughput of 1300 TPH by an emissions factor of 0.02176 lb OC/ton (based on a September 1999 emissions test, processing 3rd bench material). If required, compliance with the hourly OC emissions rate may be based on stack testing using the methods and procedures specified in Methods 1 - 4, and 18, 25, or 25a, as appropriate, of 40 CFR Part 60, Appendix A.

- i. Emission Limitation:
secondary crusher baghouse - 28.33 pounds OC/hour

Applicable Compliance Method:

The permittee may demonstrate compliance by multiplying a maximum aggregate throughput of 1300 TPH by an emissions factor of 0.02179 lb OC/ton (based on a September 1999 emissions test, processing 3rd bench material). If required, compliance with the hourly OC emissions rate may be based on stack testing using the methods and procedures specified in Methods 1 - 4, and 18, 25, or 25a, as appropriate, of 40 CFR Part 60, Appendix A.

- j. Emission Limitation:
tertiary crusher (mill #1) baghouse - 66.95 pounds OC/hour

Applicable Compliance Method:

The permittee may demonstrate compliance by multiplying a maximum aggregate throughput of 1300 TPH by an emissions factor of 0.05150 lb OC/ton (based on a September 1999 emissions test, processing 3rd bench material). If required, compliance with the hourly OC emissions rate may be based on stack testing using the methods and procedures specified in Methods 1 - 4, and 18, 25, or 25a, as appropriate, of 40 CFR Part 60, Appendix A.

- k. Emission Limitation:
mill #2 (small) baghouse - 10.48 pounds OC/hour

Applicable Compliance Method:

The permittee may demonstrate compliance by multiplying a maximum aggregate throughput of 1300 TPH by an emissions factor of 0.00806 lb OC/ton (based on a September 1999 emissions test, processing 3rd bench material). If required, compliance with the hourly OC emissions rate may be based on stack testing using the methods and procedures specified in Methods 1 - 4, and 18, 25, or 25a, as appropriate, of 40 CFR Part 60, Appendix A.

- l. Emission Limitation:
95.0 tons OC/rolling 12-month period

Applicable Compliance Method:

The permittee shall demonstrate compliance by the monitoring and record keeping in section C.1.

F. Miscellaneous Requirements

None.