

1

Facility Name: **Lafarge Corporation**

Application Number: **03-3033**

Date: **August 12, 1998**

GENERAL PERMIT CONDITIONS

TERMINATION OF PERMIT TO INSTALL

Substantial construction for installation must take place within 18 months of the effective date of this permit. 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.

NOTICE OF INSPECTION

The Director of the Ohio Environmental Protection Agency, or his authorized representatives, may enter upon the premises of the above-named applicant during construction and operation at any reasonable time for the purpose of making inspections, conducting tests, or to examine records or reports pertaining to the construction, modification or installation of the source(s) of environmental pollutants identified within this permit.

CONSTRUCTION OF NEW SOURCES

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

If the construction of the proposed source(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 Ohio Administrative Code (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

2

Facility Name: **Lafarge Corporation**

Application Number: **03-3033**

Date: **August 12, 1998**

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 applicable standards.

PERMIT TO INSTALL FEE

In accordance with Ohio Revised Code 3745.11, the specified Permit to Install fee must be remitted within 30 days of the effective date of this permit to install.

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.

APPLICABILITY

This Permit to Install is applicable only to the contaminant sources identified. Separate application must be made to the Director for the installation or modification of any other contaminant sources.

3

Facility Name: **Lafarge Corporation**

Application Number: **03-3033**

Date: **August 12, 1998**

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.

PERMIT TO OPERATE APPLICATION

A Permit to Operate application must be submitted to the appropriate field office for each air contaminant source in this Permit to Install. In accordance with OAC Rule 3745-35-02, the application shall be filed no later than thirty days after commencement of operation.

SOURCE OPERATION 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 and regulations.

4

Facility Name: **Lafarge Corporation**

Application Number: **03-3033**

Date: **August 12, 1998**

5

Facility Name: **Lafarge Corporation**

Application Number: **03-3033**

Date: **August 12, 1998**

<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
-------------------------------	-------------------------------------	--------------------------	---	--

AIR EMISSION SUMMARY

The air contaminant emissions units listed below comprise the Permit to Install for **Lafarge Corporation** located in **Ottawa** County. The emissions units listed below shall not exceed the emission limits/control requirements contained in the table. This condition in no way limits the applicability of any other state or federal regulations. Additionally, this condition does not limit the applicability of additional special terms and conditions of this permit.

<u>Ohio EPA Source Number</u>	<u>Source Identification Description</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
F001 (Mod- ifi- cation)	Aggregate processing plant: Modification to allow for the addition of a 500 TPH secondary crusher and two transfer points	Compliance with the terms and conditions of this permit	3745-31-05	69.03 TPY particulate emissions (PE); 27.67 TPY PM ₁₀ ; opacity and operational restrictions (See Additional Special Terms and Conditions)
			40 CFR Part 60, Subpart 000	Opacity restrictions (See Additional Special Terms and Conditions)

SUMMARY

TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

Facility Name: **Lafarge Corporation**

Application Number: **03-3033**

Date: **August 12, 1998**

<u>Pollutant</u>	<u>Tons/Year</u>
PE	69.03*
PM ₁₀	27.67*

*Note: The net increase of PE emissions as a result of this modification is 14.28 TPY. The net increase of PM₁₀ emissions as a result of this modification is 5.29 TPY.

NSPS REQUIREMENTS

The following sources are 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>
F001	Aggregate processing plant	000

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:

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

7

Facility Name: **Lafarge Corporation**

Application Number: **03-3033**

Date: **August 12, 1998**

prior to testing).

Reports are to be sent to:

Ohio Environmental Protection Agency

DAPC - Permit Management Unit

P.O. Box 163669

Columbus, OH 43216-3669

and **Ohio EPA, Northwest District Office**

347 North Dunbridge Road

Bowling Green, OH 43402

REPORTING REQUIREMENTS

Unless otherwise specified, reports required by the Permit to Install need only be submitted to **Ohio EPA, Northwest District Office, 347 North Dunbridge Road, Bowling Green, OH 43402.**

WASTE DISPOSAL

The owner/operator shall comply with any applicable state and federal requirements governing the storage, treatment, transport and disposal of any waste material generated by the operation of the sources.

MAINTENANCE OF EQUIPMENT

This source and its associated air pollution control system(s) shall be maintained regularly in accordance with good engineering practices and the recommendations of the respective manufacturers in order to minimize air contaminant emissions.

MALFUNCTION/ABATEMENT

In accordance with OAC RULE 3745-15-06, any malfunction of the source(s) or associated air pollution control system(s) shall be reported immediately to the **Ohio EPA, Northwest District Office, 347 North Dunbridge Road, Bowling Green, OH 43402.**

8

Facility Name: **Lafarge Corporation**

Application Number: **03-3033**

Date: **August 12, 1998**

Except as provided by OAC Rule 3745-15-06(A)(3), scheduled maintenance of air pollution control equipment that requires the shutdown or bypassing of air pollution control system(s) must be accompanied by the shutdown of the associated air pollution sources.

AIR POLLUTION NUISANCES PROHIBITED

The air contaminant source(s) identified in this permit may not cause a public nuisance in violation of OAC Rule 3745-15-07.

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.

Facility Name: **Lafarge Corporation**

Application Number: **03-3033**

Date: **August 12, 1998**

ADDITIONAL SPECIAL TERMS AND CONDITIONS

Introduction

The company is modifying the aggregate processing plant, Ohio EPA emissions unit F001 by adding a secondary crusher and two transfer points. This emissions unit was originally installed under PTI No. 03-4899, modified under PTI No. 03-0432 and is subject to the requirements of 40 CFR Part 60, Subpart 000. All existing and new processing equipment which meet the definition of an "affected facility" under this subpart are subject to their respective NSPS limit.

A. Applicable Emission Limitations and/or Control Requirements

1. Based on the configuration of this plant, the following is a list of each component of the aggregate processing plant, Ohio EPA emissions F001, which is subject to 40 CFR Part 60, Subpart 000, and the respective NSPS allowable emission limitation:

<u>Equipment Description</u>	<u>NSPS Allowable Emission Limitation</u>
each crusher	The permittee shall not cause to be discharged into the atmosphere any fugitive emissions from any crusher which exhibit greater than 15 percent opacity. Note: The truck dumping of nonmetallic minerals into any crusher or feed hopper is exempt from this requirement.
each transfer point	The permittee shall not cause to be discharged into the atmosphere any fugitive emissions which exhibit greater than 10 percent opacity from any transfer point on the aggregate processing line. The transfer of nonmetallic minerals to a stockpile is exempt from this requirement.
each screening operation	The permittee shall not cause to be discharged into the atmosphere any fugitive emissions which exhibit greater than 10 percent opacity from any screening operation on the aggregate processing line. The truck dumping of nonmetallic minerals into any screening operation is exempt from this requirement.
each storage bin	The permittee shall not cause to be

Facility Name: **Lafarge Corporation**

Application Number: **03-3033**

Date: **August 12, 1998**

discharged into the atmosphere any fugitive emissions which exhibit greater than 10 percent opacity from any storage (surge) bin on the aggregate processing line. The truck dumping of nonmetallic minerals into any storage bin is exempt from this requirement.

2. Visible particulate emissions from the truck dumping of nonmetallic minerals into the primary crusher feed hopper, the transfer of nonmetallic mineral from conveyors to surge piles, and the loading of trucks (non-enclosed) and ships shall not exceed 20 percent opacity, as a three-minute average. The permittee shall employ work practices and/or maintain a moisture content in the stone that are sufficient to comply with this opacity restriction at all times.

B. Operational Restrictions

1. The permittee shall operate emissions unit F001 at a production rate that does not exceed 6,000,000 tons of crushed stone per calendar year. This restriction is based on the stone throughput of the primary crusher.
2. The permittee shall operate emissions unit F001 at all times in a manner that complies with the emission limitations in Section A.1. of these Additional Special Terms and Conditions. In accordance with the provisions of 40 CFR Part 60, Subpart 000, Section 60.672(a), the permittee shall achieve compliance with the respective limits for the two new transfer points (conveyor C-10A to secondary crusher, secondary crusher to conveyor C-10B) and the new secondary crusher (105 Canica Jacques - vertical impact crusher), on and after the sixtieth day after achieving the maximum production rate at which the "affected facility" will be operated, but no later than 180 days after initial startup i.e., after the modifications have been completed.

Facility Name: **Lafarge Corporation**

Application Number: **03-3033**

Date: **August 12, 1998**

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain a daily log for each day emissions unit F001 is operated which contains the following information:
 - a. the general weather conditions for each day, i.e., with respect to temperature, precipitation and wind speed,
 - b. any additional fugitive dust control measure employed other than the inherent moisture in the stone; and,
 - c. the name of the plant operator responsible for ensuring the plant operates in compliance with the opacity limits of this permit.

Copies of this log shall be maintained at the facility and shall be made available to Ohio EPA upon request.

2. The permittee shall maintain monthly records of the quantity of stone processed (in tons/month) through the primary crusher. For each month, the permittee shall also calculate the annual, year-to-date, amount of stone processed through the primary crusher.
3. Each record of any monitoring days, 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, if a strip-chart recorder is employed, for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

D. Reporting Requirements

1. Annual written reports of 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, the probable cause of such deviations, and any corrective actions or preventive measures which have been or will be taken, shall be submitted to the Ohio EPA, Northwest District Office. If no deviations occurred during a calendar year, the permittee shall

Facility Name: **Lafarge Corporation**

Application Number: **03-3033**

Date: **August 12, 1998**

submit an annual reports, which states that no deviations occurred during that year. The reports shall be submitted by January 31 of each year and shall cover the previous calendar year. (These annual reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06).

E. Compliance Methods/Testing Requirements

1. Compliance Methods Requirements

Compliance with the emission limitation(s) in sections A.1. and A.2. of these Additional Special Terms and Conditions shall be determined in accordance with the following method(s):

a. Emission Limitation

Each crusher - 15 percent opacity

Applicable Compliance Method

Visible emissions readings performed using Method 9 of 40 CFR Part 60, Appendix A

b. Emission Limitation

Each screening operation, each storage bin, and each transfer point - 10 percent opacity

Applicable Compliance Method

Visible emissions readings performed using Method 9 of 40 CFR Part 60, Appendix A

c. Emission Limitation

Truck dumping of nonmetallic minerals into the primary crusher feed hopper, the transfer of nonmetallic mineral from conveyors to surge piles, and the loading of ships - 20 percent opacity as a three-minute average.

Applicable Compliance Method

Facility Name: **Lafarge Corporation**

Application Number: **03-3033**

Date: **August 12, 1998**

Visible emissions readings performed using Method 9 of 40 CFR Part 60, Appendix A

d. Emission Limitation

Total PM emissions from the aggregate processing plant - 69.03 tons/year

Applicable Compliance Method

Multiply the applicable AP-42 emission factors from Table 11.19.2-1 (revised January 1995) by the actual annual stone throughput.

e. Emission Limitation

Total PM₁₀ emissions from the aggregate processing plant - 27.67 tons/year

Applicable Compliance Method

Multiply the applicable AP-42 emission factors from Table 11.19.2-1 (revised January 1995) by the actual annual stone throughput.

2. Testing Requirements

The permittee shall conduct, or have conducted, emission testing for emissions unit F001 in accordance with the requirements of 40 CFR Part 60, Sections 60.8 and 60.675:

- a. the emission testing shall be conducted between 60 and 180 days after initial startup i.e., after the modifications have been completed;
- b. the emission testing shall be conducted on the two new transfer points (conveyor C-10A to secondary crusher, secondary crusher to conveyor C-10B) and the new secondary crusher (105 Canica Jacques - vertical impact crusher) to demonstrate compliance with the 10 percent opacity restriction contained in Additional Special Term and Condition A.1.

Facility Name: **Lafarge Corporation**

Application Number: **03-3033**

Date: **August 12, 1998**

above; and,

- c. the following test methods shall be employed to demonstrate compliance with the allowable opacity restriction:
 - i. visible emissions of fugitive dust: Method 9 of 40 CFR Part 60, Appendix A and the procedures in 40 CFR Part 60.11, with the following additions:
 - aa. the minimum distance between the observer and the emissions source shall be 4.57 meters (15 feet);
 - ab. the observer shall, when possible, select a position that minimize interference from other fugitive emission sources (e.g., road dust). The required observer position relative to the sun (Method 9, Section 2.1) must be followed; and,
 - ac. the tests shall be conducted while the emission unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA, Northwest District Office.

Not later than 30 days prior to the proposed test date, the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Northwest District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time and date of the test, and the person who will be conducting the test. Failure to submit such notification for review and approval prior to the test may result in the Ohio EPA, Northwest District Office's refusal to accept the results of the emission test.

Personnel from the Ohio EPA, Northwest District Office 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 units and the testing procedures provide a valid characterization of the emissions from the emissions units and/or the performance of the control equipment.

A comprehensive written report on the results of the emission test(s) shall be signed by the person(s)

15

Facility Name: **Lafarge Corporation**

Application Number: **03-3033**

Date: **August 12, 1998**

responsible for the tests and submitted to the Ohio EPA, Northwest District Office within 30 days following completion of the test(s).

F. Miscellaneous Requirements

1. The terms and conditions of this permit shall supersede all terms and conditions related to this emissions unit contained in the unit's original installation permit, PTI number 03-4899 and subsequent permit modification, PTI no. 03-0432.