



State of Ohio Environmental Protection Agency

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

Street Address:

122 S. Front Street

Lazarus Gov. Center TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov. Center  
P.O. Box 1049

**Application No: 01-08172**

**DATE: 2/8/2001**

Martin Marietta Aggregates Marble Cliff  
Patricia Bradley  
780 North Valley Rd  
Xenia, OH 45385

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

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

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

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

Very truly yours,

Thomas G. Rigo, Manager  
Field Operations and Permit Section  
Division of Air Pollution Control

CC: USEPA

CDO



Permit To Install

STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

**FINAL PERMIT TO INSTALL 01-08172**

Application Number: 01-08172  
APS Premise Number: 0125040476  
Permit Fee: **\$1000**  
Name of Facility: Martin Marietta Aggregates Marble Cliff  
Person to Contact: Patricia Bradley  
Address: 780 North Valley Rd  
Xenia, OH 45385

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**2650 Old Dublin Rd**  
**Hilliard, Ohio**

Description of proposed emissions unit(s):  
**Crushing operation.**

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

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency



Director

## **Part I - GENERAL TERMS AND CONDITIONS**

### **A. Permit to Install General Terms and Conditions**

#### **1. Compliance Requirements**

The emissions unit(s) identified in this Permit to Install shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

#### **2. Reporting Requirements Related to Monitoring and Recordkeeping Requirements**

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

#### **3. Records Retention Requirements**

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

#### **4. Inspections and Information Requests**

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized

representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

#### **5. Scheduled Maintenance/Malfunction Reporting**

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

#### **6. Permit Transfers**

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

#### **7. Air Pollution Nuisance**

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

#### **8. Termination of Permit to Install**

This Permit to Install shall terminate within eighteen months of the effective date of the Permit to Install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

#### **9. Construction of New Sources(s)**

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

Environmental Protection Agency if the proposed sources are inadequate or cannot meet applicable standards.

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

#### **10. Public Disclosure**

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

#### **11. Applicability**

This Permit to Install is applicable only to the emissions unit(s) identified in the Permit to Install. Separate application must be made to the Director for the installation or modification of any other emissions unit(s).

#### **12. Best Available Technology**

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

#### **13. Source Operation and Operating Permit Requirements After Completion of Construction**

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within thirty (30) days after commencing operation of the emissions unit(s) covered by this permit.

**Martin Marietta Aggregates Marble Cliff**  
**PTI Application: 01-08172**  
**Issued: 2/8/2001**

**Facility ID: 0125040476**

#### **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>
PM (F001)	0.7
PM (F002)	1.2
PM (F003)	1.2
PM (F004)	3.5
PM (F005)	4.6
Total	11.2

**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 - Primary Crushing - 1000 TPH Telesmith Stratacrawler Jaw Crusher (Modification to PTI 08-2300 issued on March 25, 1992)	OAC rule 3745-31-05 (A)(3)	Particulate emissions shall not exceed 0.70 lb/hr and 0.7 ton/yr.  The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subpart OOO.
	OAC rule 3745-17-11 (B)(1)	See II.A.2.a-b below.  The emission limit specified in this rule is less stringent than the emission limitations established pursuant to OAC rule 3745-31-05 (A)(3).
	40 CFR Part 60, Subpart OOO	Visible emissions of dust shall not exceed 15% opacity, except as provided by rule.

**2. Additional Terms and Conditions**

- 2.a The hourly and annual emission limitations were established to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop recordkeeping and/or reporting requirements to ensure compliance with these limits.
- 2.b The permittee shall employ best available control measures during all crushing operations for the purpose of ensuring compliance with the above-mentioned applicable requirements.

Emissions Unit ID: **F001**

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.

**B. Operational Restrictions**

1. Water shall be applied at all points necessary to ensure compliance with the visible emission limitations.

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

1. The permittee shall perform daily checks, when each piece of crushing equipment is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from each 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 operations 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 actions 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 any crushing operation and (b) describe any corrective actions taken to eliminate the abnormal visible fugitive particulate emissions. These reports shall be submitted to the Director (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.I. of these terms and conditions shall be determined in accordance with the following method(s):
  - a. Emission Limitation:

Particulate emissions shall not exceed 0.70 lb/hr

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the appropriate emission factor specified in USEPA reference document AP-42, 11.19.2-2 (1/95) by the maximum hourly production rate (application 4/17/00) by the quantity of the specific operation:

$0.0007 \text{ lb/ton} * 1,000 \text{ tons/hr} * 1 = 0.70 \text{ lb/hr}$

b. Emission Limitation:

Particulate emissions shall not exceed 0.7 ton/yr

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the appropriate emission factor specified in USEPA reference document AP-42, 11.19.2-2 (1/95) by the maximum annual production rate and the quantity of the specific operation and divide by 2,000 lbs/ton:

$0.0007 \text{ lb/ton} * \text{ton}/2,000 \text{ lb} * 2,000,000 \text{ tons/yr} * 1 = 0.7 \text{ tons/yr}$

c. Emission Limitation:

Visible emission of dust shall not exceed 15% opacity, except as provided by rule.

Applicable Compliance Limitation:

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

- i. The emission testing shall be conducted within 60 days of issuance of this permit.
- 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"

Emissions Unit ID: **F001**

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 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	Primary (1°) crushing - 1000 TPH Telesmith Stratacrawler Jaw Crusher	Subpart OOO

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

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

- a. construction date (no later than 30 days after such date);
- b. anticipated start-up date (not more than 60 days or less than 30 days prior to such date);
- c. actual start-up date (within 15 days after such date); and

- d. date of performance testing (If required, at least 30 days prior to testing).

Reports are to be sent to:

Ohio Environmental Protection Agency  
DAPC - Air Quality Modeling and Planning  
P.O. Box 1049  
Columbus, OH 43216-1049

and

Central District Office  
Division of Air Pollution Control  
3232 Alum Creek Drive  
Columbus, Ohio 43207

- 2. This PTI (01-8172) supersedes PTI 08-2300, as issued March 25, 1992.

**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 - Secondary Crusher - 1000 TPH Cedarapids Impact Crusher (Modification to PTI 08-2300 issued on March 25, 1992)	OAC rule 3745-31-05 (A)(3)	Particulate emissions shall not exceed 1.24 lbs/hr and 1.2 tons/yr.  The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subpart OOO.  See II.A.2.a-b below.
	OAC rule 3745-17-11 (B)(1)	The emission limit specified in this rule is less stringent than the emission limitations established pursuant to OAC rule 3745-31-05 (A)(3).
	40 CFR Part 60, Subpart OOO	Visible emissions of dust shall not exceed 15% opacity, except as provided by rule.

**2. Additional Terms and Conditions**

- 2.a The hourly and annual emission limitations were established to reflect the potential to emit for this emissions unit. Therefore, it is not

Emissions Unit ID: **F002**

necessary to develop recordkeeping and/or reporting requirements to ensure compliance with these limits.

**2.b** 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.

**B. Operational Restrictions**

- 1. Water shall be applied at all points necessary to ensure compliance with the visible emission limitations.

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

- 1. The permittee shall perform daily checks, when each piece of crushing equipment is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from each 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

operations 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 actions 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 any crushing operation and (b) describe any corrective actions taken to eliminate the abnormal visible fugitive particulate emissions. These reports shall be submitted to the Director (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.I. of these terms and conditions shall be determined in accordance with the following method(s):

a. Emission Limitation:

Particulate emissions shall not exceed 1.24 lbs/hr

Applicable Compliance Method: Compliance shall be demonstrated by multiplying the appropriate emission factor specified in USEPA reference document AP-42, 11.19.2-2 (1/95) by the maximum hourly

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**Marti**

**PTI A**

**Issued: 2/8/2001**

Emissions Unit ID: **F002**

production rate  
(application 4/17/00)  
by the quantity of the  
specific operation:  
0.001239 lb/ton \*  
1,000 tons/hr \* 1 =  
1.24 lbs/hr

b. Emission Limitation:

Particulate emissions shall not exceed 1.2 tons/yr

Applicable  
Compliance Method:  
Compliance shall be demonstrated by multiplying the appropriate emission factor specified in USEPA reference document AP-42, 11.19.2-2 (1/95) by the maximum annual production rate and the quantity of the specific operation and divide by 2,000 lbs/ton:  
 $0.001239 \text{ lb/ton} * \text{ton}/2,000 \text{ lb} * 2,000,000 \text{ tons/yr} * 1 = 1.2 \text{ tons/yr}$

c. Emission Limitation:

Visible emission of dust shall not exceed 15% opacity, except as provided by rule.

Applicable  
Compliance  
Limitation:  
The permittee shall conduct, or have conducted, emission testing for each

**Martin Marietta Aggregates Marble Cliff**

**PTI Application: 01-09172**

**Issued**

**Facility ID: 0125040476**

Emissions Unit ID: **F002**

crusher in accordance  
with the following  
requirements:

- i. The emission testing shall be conducted within 60 days of issuance of this permit.
- 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 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 sources are subject to the applicable provisions of the New Source Performance

**Marti**  
**PTI A**  
**Issued: 2/8/2001**

Emissions Unit ID: **F002**

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>
F002	Secondary (2°) crushing - 1000 TPH 5064 Cedarapids Crusher	Subpart OOO

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

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

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

Reports are to be sent to:

Ohio Environmental Protection Agency  
DAPC - Air Quality Modeling and Planning  
P.O. Box 1049  
Columbus, OH 43216-1049

and

Central District Office  
Division of Air Pollution Control  
3232 Alum Creek Drive  
Columbus, Ohio 43207

- 2. This PTI (01-8172) supersedes PTI 08-2300, as issued March 25, 1992.

**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 - Tertiary Crusher - 1000 TPH Vertical Shaft Impact (VSI) - ISC Crusher (Modification to PTI 08-2300 issued on March 25, 1992)	OAC rule 3745-31-05 (A)(3)	Particulate emissions shall not exceed 1.24 lbs/hr and 1.2 tons/yr.  The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subpart OOO.  See II.A.2.a-b below.
	OAC rule 3745-17-11 (B)(1)	The emission limit specified in this rule is less stringent than the emission limitations established pursuant to OAC rule 3745-31-05 (A)(3).
	40 CFR Part 60, Subpart OOO	Visible emissions of dust shall not exceed 15% opacity, except as provided by rule.

**2. Additional Terms and Conditions**

- 2.a The hourly and annual emission limitations were established to reflect the potential to emit

for this emissions unit. Therefore, it is not necessary to develop recordkeeping and/or reporting requirements to ensure compliance with these limits.

- 2.b** 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.

## **B. Operational Restrictions**

1. Water shall be applied at all points necessary to ensure compliance with the visible emission limitations.

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

1. The permittee shall perform daily checks, when each piece of crushing equipment is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from each 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 operations 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 actions 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 any crushing operation and (b) describe any corrective actions taken to eliminate the abnormal visible fugitive particulate emissions. These reports shall be submitted to the Director (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.I. of these terms and conditions shall be determined in accordance with the following method(s):

- a. Emission Limitation:  
Particulate emissions shall not exceed 1.24 lbs/hr

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the appropriate emission factor specified in USEPA reference document AP-42, 11.19.2-2 (1/95) by the maximum hourly production rate (application 4/17/00) by the quantity of the specific operation:  
 $0.001239 \text{ lb/ton} * 1,000 \text{ tons/hr} * 1 = 1.24 \text{ lbs/hr}$

- b. Emission Limitation:  
Particulate emissions shall not exceed 1.2 tons/yr

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the appropriate emission factor specified in USEPA reference document AP-42, 11.19.2-2 (1/95) by the maximum annual production rate and the quantity of the specific operation and divide by 2,000 lbs/ton:  
 $0.001239 \text{ lb/ton} * \text{ton}/2,000 \text{ lb} * 2,000,000 \text{ tons/yr} * 1 = 1.2 \text{ tons/yr}$

- c. Emission Limitation:  
Visible emission of dust shall not exceed 15% opacity, except as provided by rule.

Applicable Compliance Limitation:

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

- i. The emission testing shall be conducted within 60 days of issuance of this permit.
- 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 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 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>
F003	Tertiary (3 <sup>o</sup> ) crushing - 1000 TPH VSI-ICS Model 103 Crusher	Subpart OOO

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

**Martin**

**PTI A**

**Issued: 2/8/2001**

Emissions Unit ID: **F003**

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, Ohio 43207

- 2. This PTI (01-8172) supersedes PTI 08-2300, as issued March 25, 1992.

**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 - Screening: 1 - 1,000 tons/hr secondary (2°) screen; 2 - 1,000 tons/hr tertiary (3°) screen (Modification to PTI 08-2300 issued on March 25, 1992)	OAC rule 3745-31-05	Particulate emissions shall not exceed 5.29 lbs/hr and 3.5 tons/yr.  The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subpart OOO.  See II.A.2.a-b below.
	OAC rule 3745-17-11 (B)(1)	The emission limit specified in this rule is less stringent than the emission limitations established pursuant to OAC rule 3745-31-05 (A)(3).
	40 CFR Part 60, Subpart OOO	Visible emissions of dust shall not exceed 10% opacity, except as provided by rule.

**2. Additional Terms and Conditions**

- 2.a The hourly and annual emission limitations were established to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop recordkeeping and/or

reporting requirements to ensure compliance with these limits.

- 2.b** 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.

## **B. Operational Restrictions**

1. Water shall be applied at all points necessary to ensure compliance with the visible emission limitations.

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

1. The permittee shall perform daily checks, when each piece of equipment is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from any screening 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 operations 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 actions 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 any conveying or handling operation and (b) describe any corrective actions taken to eliminate the abnormal visible fugitive particulate emissions. These reports shall be submitted to the Director (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.I. 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

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the appropriate emission factor specified in USEPA reference document AP-42, 11.19.2-2 (1/95) by the maximum hourly production rate (application 4/17/00) by the quantity of the specific operation:

2° screen -  $0.001764 \text{ lb/ton} * 1,000 \text{ tons/hr} * 1 = 1.76 \text{ lbs/hr}$

3° screen -  $0.001764 \text{ lb/ton} * 1,000 \text{ tons/hr} * 2 = 3.53 \text{ lbs/hr}$

- b. Emission Limitation:  
Particulate emissions shall not exceed 3.5 tons/yr

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the appropriate emission factor specified in USEPA reference document AP-42, 11.19.2-2 (1/95) by the maximum annual production rate and the quantity of the specific operation and divide by 2,000 lbs/ton:

2° screen -  $0.001764 \text{ lb/ton} * \text{ton}/2,000 \text{ lb} * 2,000,000 \text{ tons/yr} * 1 = 1.76 \text{ tons/yr}$

3° screen -  $0.001764 \text{ lb/ton} * \text{ton}/2,000 \text{ lb} * 1,000,000 \text{ tons/yr} * 2 = 1.76 \text{ tons/yr}$

- c. Emission Limitation:  
Visible emissions of fugitive dust shall not exceed 10% opacity, except as provided by rule.

Applicable Compliance Limitation:

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

- i. The emission testing shall be conducted within 60 days of issuance of this permit.
- 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.

**Martin Marietta Aggregates Marble Cliff**

**PTI Application: 01-09172**

**Issued**

**Facility ID: 0125040476**

**Emissions Unit ID: F004**

- 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 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>
F004	Screening: 1 - 1,000 tons/hr secondary (2°) screen; 2 - 1,000 tons/hr tertiary (3°) screen	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, Ohio 43207

- 2. This PTI (01-8172) supersedes PTI 08-2300.

**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>
F005 - Aggregate material handling and conveying (Modification to PTI 08-2300 and 08-3996 issued on March 25, 1992 and May 19, 1999 respectively)	OAC rule 3745-31-05 (A)(3)	Particulate emissions shall not exceed 4.94 lbs/hr and 4.6 tons/yr.  The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subpart OOO.  See II.A.2.a-c below.
	OAC rule 3745-17-11 (B)(1)	The emission limitation specified in this rule is less stringent than the emission limitations established pursuant to OAC rule 3745-31-05 (A)(3).
	40 CFR Part 60, Subpart OOO	Visible emissions of fugitive dust shall not exceed 10% opacity, except as provided by rule.

**2. Additional Terms and Conditions**

- 2.a The hourly and annual emission limitations were established to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop recordkeeping and/or reporting requirements to ensure compliance with these limits.

- 2.b** The permittee shall employ best available control measures during conveying and handling 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.c** The following conveying and handling operations are included in this emissions unit and subject to the above referenced applicable rules/requirements, applicable emission limitations and control measures:
- Hopper/feeder maximum capacity (2) = 500 tons/hr
  - Conveying points maximum capacity (6) = 1,000 tons/hr
  - Conveying points maximum capacity (39) = 1,000 tons/hr

## **B. Operational Restrictions**

1. Water shall be applied at all points necessary to ensure compliance with the visible emission limitations.

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

1. The permittee shall perform daily checks, when each conveying and/or handling point is operating and when the weather conditions allow, for any visible fugitive particulate emissions from each conveying and/or handling 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 operations 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 actions 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 any screening operation and

(b) describe any corrective actions taken to eliminate the abnormal visible fugitive particulate emissions. These reports shall be submitted to the Director (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.I. of these terms and conditions shall be determined in accordance with the following method(s):

a. Emission Limitation:  
Particulate emissions shall not exceed 4.94 lbs/hr

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the appropriate emission factor specified in USEPA reference document AP-42, 11.19.2-2 (1/95) by the maximum hourly production rate (application 4/17/00) by the quantity of the specific operation:

Hopper/feeder -  $0.0001008 \text{ lb/ton} * 500 \text{ tons/hr} * 2 = 0.10 \text{ lb/hr}$

Conveying points -  $0.0001008 \text{ lb/ton} * 1,500 \text{ tons/hr} * 6 = 0.907 \text{ lb/hr}$

Conveying points -  $0.0001008 \text{ lb/ton} * 1,000 \text{ tons/hr} * 39 = 3.93 \text{ lbs/hr}$

b. Emission Limitation:  
Particulate emissions shall not exceed 4.6 tons/yr

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the appropriate emission factor specified in USEPA reference document AP-42, 11.19.2-2 (1/95) by the maximum annual production rate and the quantity of the specific operation and divide by 2,000 lbs/ton:

Hopper/feeder -  $0.0001008 \text{ lb/ton} * \text{ton}/2,000 \text{ lb} * 2,000,000 \text{ tons/yr} = 0.10 \text{ ton/yr}$

Conveying points -  $0.0001008 \text{ lb/ton} * \text{ton}/2,000 \text{ lb} * 2,000,000 \text{ tons/yr} * 6 = 0.605 \text{ ton/yr}$

Conveying points -  $0.0001008 \text{ lb/ton} * \text{ton}/2,000 \text{ lb} * 2,000,000 \text{ tons/yr} * 39 = 3.93 \text{ tons/yr}$

c. Emission Limitation  
Visible emissions of fugitive dust shall not exceed 10% opacity, except as provided by rule.

Applicable Compliance Limitation

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

**Martin Marietta Aggregates Marble Cliff**  
**PTI Application: 01-09172**  
**Issued**

**Facility ID: 0125040476**

**Emissions Unit ID: F005**

- i. The emission testing shall be conducted within 60 days of issuance of this permit.
- 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 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 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.

Marti

PTI A

Issued: 2/8/2001

Emissions Unit ID: F005

<u>Source Number</u>	<u>Source Description</u>	<u>NSPS Regulation (Subpart)</u>
F005	Aggregate material handling and conveying	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, Ohio 43207

2. This PTI (01-8172) supersedes PTI 08-2300 and 08-3996 as issued March 25, 1992 and May 19, 1999 respectively.

**NEW SOURCE REVIEW FORM B**

PTI Number: 01-08172 Facility ID: 0125040476  
 FACILITY NAME Martin Marietta Aggregates Marble Cliff  
 FACILITY DESCRIPTION Conveyors, screens, and crushers. CITY/TWP Hilliard  
 SIC CODE 1422 SCC CODE 30502003 EMISSIONS UNIT ID F001  
 EMISSIONS UNIT DESCRIPTION primary crushing - 1000 TPH Telesmith Stratacrawler Jaw Crusher  
 DATE INSTALLED 1/1/92

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

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter		0.70	0.7	0.70	0.7
PM <sub>10</sub>					
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? 40 CFR Part 60, NESHAP? PSD? OFFSET POLICY?  
 Subpart 000

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

See additional terms and conditions.

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? no  
 OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$

**TOXIC AIR CONTAMINANTS**

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

AIR TOXICS MODELING PERFORMED\*? YES X NO

IDENTIFY THE AIR CONTAMINANTS:

**NEW SOURCE REVIEW FORM B**

PTI Number: 01-08172 Facility ID: 0125040476

FACILITY NAME Martin Marietta Aggregates Marble Cliff

FACILITY DESCRIPTION Conveyors, screens, and crushers. CITY/TWP Hilliard

Emissions Unit ID: **F005**

SIC CODE 1422 SCC CODE 30502003 EMISSIONS UNIT ID F002

EMISSIONS UNIT DESCRIPTION Secondary Crusher - 1000 TPH Cedarapids Impact Crusher

DATE INSTALLED 1/192

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

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter		1.24	1.2	1.24	1.2
PM <sub>10</sub>					
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? 40 CFR Part 60, NESHAP? PSD? OFFSET POLICY?

Subpart 000

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

See additional terms and conditions.

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? no

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$

**TOXIC AIR CONTAMINANTS**

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

AIR TOXICS MODELING PERFORMED\*? YES X NO

IDENTIFY THE AIR CONTAMINANTS:

**NEW SOURCE REVIEW FORM B**

PTI Number: 01-08172 Facility ID: 0125040476

FACILITY NAME Martin Marietta Aggregates Marble Cliff

FACILITY DESCRIPTION Conveyors, screens, and crushers. CITY/TWP Hilliard

Emissions Unit ID: **F005**

SIC CODE 1422 SCC CODE 30502003 EMISSIONS UNIT ID F003

EMISSIONS UNIT DESCRIPTION Tertiary Crusher - 1000 TPH Vertical Shaft Impact (VSI) - ISC Crusher

DATE INSTALLED 1/1/92

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

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter		1.24	1.2	1.24	1.2
PM <sub>10</sub>					
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? 40 CFR Part 60, NESHAP? PSD? OFFSET POLICY?  
Subpart OOO

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

See additional terms and conditions

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? no  
OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$

**TOXIC AIR CONTAMINANTS**

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

AIR TOXICS MODELING PERFORMED\*? YES X NO

IDENTIFY THE AIR CONTAMINANTS:

**NEW SOURCE REVIEW FORM B**

PTI Number: 01-08172 Facility ID: 0125040476

FACILITY NAME Martin Marietta Aggregates Marble Cliff

FACILITY DESCRIPTION Conveyors, screens, and crushers. CITY/TWP Hilliard

Emissions Unit ID: **F005**

SIC CODE 1422 SCC CODE 30502004 EMISSIONS UNIT ID F004

EMISSIONS UNIT DESCRIPTION Screening Operations - Aggregate processing and sizing

DATE INSTALLED 1/1/92

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

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter		5.29	3.5	5.29	3.5
PM <sub>10</sub>					
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS? 40 CFR Part 60, NESHAP? PSD? OFFSET POLICY?

Subpart 000

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

See additional terms and conditions.

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? no

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$

**TOXIC AIR CONTAMINANTS**

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

AIR TOXICS MODELING PERFORMED\*? YES X NO

IDENTIFY THE AIR CONTAMINANTS:



**NEW SOURCE REVIEW FORM B**

PTI Number: 01-08172 Facility ID: 0125040476

FACILITY NAME Martin Marietta Aggregates Marble Cliff

FACILITY DESCRIPTION Conveyors, screens, and crushers. CITY/TWP Hilliard

Emissions Unit ID: **F005**

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

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

	<u>Electronic</u>	<u>Additional information File Name Convention (your PTI # plus this letter)</u>	<u>Hard Copy</u>	<u>None</u>
<u>Calculations (required)</u>	<input checked="" type="checkbox"/>	000000c.wpd	<input type="checkbox"/>	
<u>Modeling form/results</u>	<input type="checkbox"/>	000000s.wpd	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<u>PTI Application (complete or partial)*</u>	<input type="checkbox"/>	000000a.wpd	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<u>BAT Study</u>	<input type="checkbox"/>	000000b.wpd	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<u>Other/misc.</u>	<input type="checkbox"/>	000000t.wpd	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

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

**NSR Discussion**

Martin Marietta Materials, Inc. is operating an aggregate facility located at 2650 Old Dublin Road, Hilliard, Franklin County, Ohio. This operation was originally permitted under the Regional Air Pollution Control Agency (RAPCA) as a portable plant under PTI's 08-2300 and 08-3996. However, this office recently determined that the operation was not portable and would fall under the jurisdiction of the Central District Office (CDO) due to its location. Consequently, Martin Marietta submitted an application to encompass both PTIs (08-2300, 08-3996) originally permitted under RAPCA into just one PTI (01-8172) permitted by the Central district Office (CDO). This application also included an increase in plant operating hours

This PTI will be a modification of 08-2300 due to AP-42 updates and will modify 08-3996 by adding five (5) conveyors to emission unit F005. A more detailed discussion of these modifications are provided in the "Terms and Conditions" section of the permit.

This PTI is for primary, secondary, and tertiary crushing, screening, and conveying. The storage piles, roadways, and parking areas associated with this site have been on registration status since 1984.

Modeling will not be performed for these emission units because Engineering Guide #69, question and answer 4.1 specifies that modeling is not required for fugitive sources.

This facility is located in a non-appendix A area, thus rendering OAC rules 3745-17-07 and 3745-17-08 non effective. However, the crushing, screening, and conveying activities are subject to 40 CFR, Part 60, Subpart OOO (NSPS).

**40 NEW SOURCE REVIEW FORM B**

PTI Number: 01-08172

Facility ID: 0125040476

FACILITY NAME Martin Marietta Aggregates Marble Cliff

FACILITY DESCRIPTION Conveyors, screens, and crushers.

CITY/TWP Hilliard

Emissions Unit ID: **F005**

Wet Suppression, utilizing water, is required as BAT and is currently used at all crushing and screening locations. Direct application is provided at intake and discharge at both the primary (1°) and tertiary (3°) crushers and only at the discharge point of the secondary (2°) crusher; adequate moisture carryover from the secondary (2°) and surge pile is present at the secondary (2°) screening operation, and direct application is done at the discharge points of the two tertiary (3°) screening operations.

All hourly and annual maximum capacities are from the application and based on either maximum rated capacity or physical limitations of the facility.

The following calculations are specific to each operation:

F001: Primary Crushing - Telesmith 4448 Stratacrawler

Assumptions/emission factors:

0.0007 lb/ton of throughput (AP-42, 11.19.2-2, 1/95 and multiplied by 2.1 per footnote "c")

Maximum hourly production based on equipment capacity - 1,000 tons/hr

Maximum annual production - 2,000,000 tons/yr (application, 4/17/00)

$0.0007 \text{ lb/ton} * 1,000 \text{ tons/hr} = 0.70 \text{ lbs/hr}$

$0.0007 \text{ lb/ton} * \text{ton}/2,000 \text{ lb} * 2,000,000 \text{ tons/yr} = 0.70 \text{ ton/yr}$

F002: Secondary Crushing - 5064 Cedarapids Crusher

Assumptions/emission factors:

0.001239 lb/ton of throughput (AP-42, 11.19.2-2, 1/95 and multiplied by 2.1 per footnote "c")

Maximum hourly production based on equipment capacity - 1,000 tons/hr

Maximum annual production - 2,000,000 tons/yr (application, 4/17/00)

$0.001239 \text{ lb/ton} * 1,000 \text{ tons/hr} = 1.24 \text{ lbs/hr}$

$0.001239 \text{ lb/ton} * \text{ton}/2,000 \text{ lb} * 2,000,000 \text{ tons/yr} = 1.24 \text{ tons/yr}$

F003: Tertiary Crusher - VSI-ICS Model 103 Crusher

Assumptions/emission factors:

0.001239 lb/ton of throughput (AP-42, 11.19.2-2, 1/95 and multiplied by 2.1 per footnote "c")

Maximum hourly production based on equipment capacity - 1,000 tons/hr

Maximum annual production - 2,000,000 tons/yr (application, 4/17/00)

$0.001239 \text{ lb/ton} * 1,000 \text{ tons/hr} = 1.24 \text{ lbs/hr}$

$0.001239 \text{ lb/ton} * \text{ton}/2,000 \text{ lb} * 2,000,000 \text{ tons/yr} = 1.24 \text{ tons/yr}$

Totals for crushing activities:  $0.70 + 1.24 + 1.24 = \mathbf{3.18 \text{ lbs PM/hr}}$

$0.70 + 1.24 + 1.24 = \mathbf{3.2 \text{ tons PM/yr}}$

**4 NEW SOURCE REVIEW FORM B**

PTI Number: 01-08172

Facility ID: 0125040476

FACILITY NAME Martin Marietta Aggregates Marble Cliff

FACILITY DESCRIPTION Conveyors, screens, and crushers.

CITY/TWP Hilliard

Emissions Unit ID: **F005**

F004: Secondary Screen - 6' X 20' 2-Deck El-Jay Screen

Tertiary Screen - 6' X 20' 3-Deck Screen

Tertiary Screen - 6' X 20' 3-Deck Screen

Assumptions/emission factors:

0.001764 lb/ton of throughput (AP-42, 11.19.2-2, 1/95 and multiplied by 2.1 per footnote "c")

Maximum hourly production based on equipment capacity - 1,000 tons/hr

Maximum annual production - 2,000,000 tons/yr (application, 4/17/00)

Maximum annual production for tertiary screens - 1,000,000 tons/yr (application, 4/17/00)

2° 0.001764 lb/ton \* 1,000 tons/hr = 1.76 lbs/hr

0.001764 lb/ton \* ton/2,000 lb \* 2,000,000 tons/yr = 1.76 tons/yr

3° 0.001764 lb/ton \* 1,000 tons/hr = 1.76 lbs/hr

0.001764 lb/ton \* ton/2,000 lb \* 1,000,000 tons/yr = 0.88 ton/yr

3° 0.001764 lb/ton \* 1,000 tons/hr = 1.76 lbs/hr

0.001764 lb/ton \* ton/2,000 lb \* 1,000,000 tons/yr = 0.88 ton/yr

Totals for screening activities: **1.76 + 1.76 + 1.76 = 5.29 lbs PM/hr****1.76 + 0.88 + 0.88 = 3.5 tons PM/yr**

F005: Conveying and Handling - 2 - 500 tons/hr hoppers/feeders, 6 - 1,500 tons/hr conveying points, 39 - 1,000 tons/hr conveying points, 30 - 1,500 tons/hr transfer points, 16 - 1,000 tons/hr transfer points, 7 - 400 tons/hr transfer points

Assumptions/emission factors:

Hopper/feeder (controlled) - 0.0001008 lb PM/ton of throughput (AP-42, 11.19.2-2, 1/95 and multiplied by 2.1 per footnote "c")

Conveying points (controlled) - 0.0001008 lb PM/ton of throughput (AP-42, 11.19.2-2, 1/95 and multiplied by 2.1 per footnote "c")

Transfer point (53) calculations are built into the conveyance emission calculations.

Hopper/feeder maximum capacity (2) = 500 tons/hr

Conveying points maximum capacity (6) = 1,000 tons/hr

Conveying points maximum capacity (39) = 1,000 tons/hr

Maximum capacity on an annual basis = 2,000,000 tons/yr

Calculations:

Hopper/feeder - 0.0001008 lb/ton \* 500 tons/hr \* 2 = 0.10 lb/hr

0.0001008 lb/ton \* ton/2,000 lb \* 2,000,000 tons/yr = 0.10 ton/yr

Conveying points - 0.0001008 lb/ton \* 1,500 tons/hr \* 6 = 0.907 lb/hr

0.0001008 lb/ton \* ton/2,000 lb \* 2,000,000 tons/yr \* 6 = 0.605 ton/yr

Conveying points - 0.0001008 lb/ton \* 1,000 tons/hr \* 39 = 3.93 lbs/hr

42 **NEW SC**

PTI Num

FACILITY

Emissions Unit ID: **F005** \_\_\_\_\_

FACILITY DESCRIPTION Conveyors, screens, and crushers. CITY/TWP Hilliard  
0.0001008 lb/ton \* ton/2,000 lb \* 2,000,000 tons/yr \* 39 = 3.93 tons/yr

Totals for conveying activities: 0.10 + 0.907 + 3.93 = **4.94 lbs PM/hr**  
0.10 + 0.605 + 3.93 = **4.6 tons PM/yr**

**Please complete for these type permits (For PSD/NSR Permit, place mouse over this text):**

Synthetic Minor Determination and/or  Netting Determination  
Permit To Install ENTER PTI NUMBER HERE

**A. Source Description**

**B. Facility Emissions and Attainment Status**

**C. Source Emissions**

**D. Conclusion**

**PLEASE PROVIDE ADDITIONAL NOTES OR COMMENTS AS NECESSARY:**

**NONE**

**Please complete:**

**SUMMARY (for informational purposes only)**  
**TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS**

<u>Pollutant</u>	<u>Tons Per Year</u>
PM (F001)	0.7
PM (F002)	1.2
PM (F003)	1.2
PM (F004)	3.5
PM (F005)	4.6
<b>Total</b>	<b>11.2</b>