



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL MODIFICATION  
MONTGOMERY 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: 08-04594**

**DATE: 4/29/2004**

Martin Marietta Materials Inc-Dayton PRP  
Patrick Montgomery  
1337 Dayton-Xenia Rd  
Xenia, OH 453857110

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

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

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

Sincerely,

*Michael W. Ahern*

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

CC: USEPA

RAPCA



**Permit To Install  
Terms and Conditions**

**Issue Date: 4/29/2004  
Effective Date: 4/29/2004**

FINAL ADMINISTRATIVE MODIFICATION OF PERMIT TO INSTALL 08-04594

Application Number: 08-04594  
APS Premise Number: 0857043068  
Permit Fee: **\$2000**  
Name of Facility: Martin Marietta Materials Inc-Dayton PRP  
Person to Contact: Patrick Montgomery  
Address: 1337 Dayton-Xenia Rd  
Xenia, OH 453857110

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**2229 Roxanna-New Burlington Rd  
Spring Valley, Ohio**

Description of proposed emissions unit(s):  
**mod F002 (2 screens), F003 (5 material handling), chapter 31 (F002) replacing 08-03335 issued 8-9-95 with adm mod issued 9-29-99; chapter 31 (F003) replacing 08-03968 issued 4-14-99; new generator.**

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

This permit is granted subject to the conditions attached hereto.

  
Ohio Environmental Protection Agency

Director

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

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

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

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

#### **2. Reporting Requirements**

The permittee shall submit required reports in the following manner:

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

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

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

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

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

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

**5. Scheduled Maintenance/Malfunction Reporting**

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

**6. Permit Transfers**

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

**7. Air Pollution Nuisance**

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

**8. Termination of Permit to Install**

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

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

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

**Martin Marietta Materials Inc-Dayton PRP**  
**PTI Application: 08-04594**  
**Modification Issued: 4/29/2004**

**Facility ID: 0857043068**

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**

- a. If the permittee is required to apply for a Title V permit pursuant to OAC Chapter 3745-77, the permittee shall submit a complete Title V permit application or a complete Title V permit modification application within twelve (12) months after commencing operation of the emissions units covered by this permit. However, if the proposed new or

**Martin Marietta Materials Inc-Dayton PRP**

**Facility ID: 0857043068**

**PTI Application: 08-04594**

**Modification Issued: 4/29/2004**

modified source(s) would be prohibited by the terms and conditions of an existing Title V permit, a Title V permit modification must be obtained before the operation of such new or modified source(s) pursuant to OAC rule 3745-77-04(D) and OAC rule 3745-77-08(C)(3)(d).

- b. If the permittee is required to apply for permit(s) pursuant to OAC Chapter 3745-35, the source(s) identified in this Permit To Install is (are) permitted to operate for a period of up to one year from the date the source(s) commenced operation. 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 source(s) covered by this permit.

#### **14. Construction Compliance Certification**

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has been constructed in accordance with the Permit to Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

#### **15. Fees**

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable Permit to Install fees within 30 days after the issuance of this Permit to Install.

### **B. Permit to Install Summary of Allowable Emissions**

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

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

<u>Pollutant</u>	<u>Tons Per Year</u>
NOx	3.64
CO	5.34
SO2	1.62
PM	19.63
VOC	1.97

Martin Marietta Materials Inc-Dayton PRP  
PTI Application: 08 04504  
Modif

Facility ID: 0857043068

Emissions Unit ID: B002

**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>	OAC rule 3745-17-07(A)
---	--------------------------------------	------------------------

B002 - 1.28 mmBtu/hr diesel portable generator	OAC rule 3745-31-05(A)(3)	
---	---------------------------	--

OAC rule 3745-18-06 (G)

OAC rule 3745-17-11 (B)(5)(a)

**Marti****PTI A****Modification Issued: 4/29/2004**Emissions Unit ID: **B002**

Applicable Emissions  
Limitations/Control Measures

The requirements of this rule also include compliance with the requirements of OAC rule 3745-18-06 (G) , 3745-17-07 (A) and 3745-17-11 (B)(5)(a).

The particulate emissions (PE) from this emissions unit shall not exceed 0.39 lb/hr and 1.71 tons/yr.

The nitrogen oxides (NO<sub>x</sub>) from this emissions unit shall not exceed 0.83 lb/hr and 3.64 tons/yr.

The carbon monoxide (CO) from this emissions unit shall not exceed 1.22 lbs/hr and 5.34 tons/yr.

The sulfur dioxide (SO<sub>2</sub>) from this emissions unit shall not exceed 0.37 lb/hr and 1.62 tons/yr.

The organic compound (OC) from this emissions unit shall not exceed 0.45 lb/hr and 1.97 tons/yr.

Exempt pursuant to OAC rule 3745-18-06 (B).

Particulate emissions shall not exceed 0.310 lb particulate/mmBtu of actual heat input.

Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

**Marti****PTI A****Modification Issued: 4/29/2004**Emissions Unit ID: **B002****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 record keeping and/or reporting requirements to ensure compliance with these limitations.

**B. Operational Restrictions**

none

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

1. For each day during which the permittee burns a fuel other than diesel oil, the permittee shall maintain a record of the type and quantity of fuel burned in emissions unit B002.

**D. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports to the Director (the appropriate Ohio EPA District Office or local air agency) that identify each day when a fuel other than diesel oil was burned in emissions unit B002. Each report shall be submitted in within 30 days after the deviation occurs.

**E. Testing Requirements****Compliance Methods**

1. Compliance with the emission limitations in this permit for emissions unit B002 shall be determined in accordance with the following method(s):

- a. Emission Limitation-  
0.31 lb particulate/mmBtu actual heat input

Compliance shall be based on the emission factor for diesel fuel engines given in AP-42, Fifth Edition (10/96), Compilation of Air Pollution Emission Factors, Section 3.3, Table 3.3-1 of 0.310 lb PM/mmBtu. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10).

Emission Limitation-  
1.71 tons/yr PE

10

**Marti**

**PTI A**

**Modification Issued: 4/29/2004**

Emissions Unit ID: **B002**

Applicable Compliance Method-

As long as compliance is maintained with the hourly emission limitation, compliance with the annual emission limitation will be shown (the annual emission limitation was calculated by multiplying the hourly limitation by the maximum annual operating schedule of 8,760 hours/year and then dividing by 2,000 lbs/ton).

- b. Emission Limitation-  
0.83 lb/hr NO<sub>x</sub>

Applicable Compliance Method-

Compliance shall be based upon the emission factor for diesel fuel engines given in AP-42, Fifth Edition (10/96), Compilation of Air Pollution Emission Factors, Section 3.3, Table 3.3-1, of 4.41 lb NO<sub>x</sub>/mmBtu multiplied by the maximum rated capacity of the diesel engine of 1.28 mmBtu/hr.

Emission Limitation-  
3.64 tons/yr NO<sub>x</sub>

Applicable Compliance Method-

As long as compliance is maintained with the hourly emission limitation, compliance with the annual emission limitation will be shown (the annual emission limitation was calculated by multiplying the hourly limitation by the maximum annual operating schedule of 8,760 hours/year and then dividing by 2,000 lbs/ton).

- c. Emission Limitation-  
1.22 lbs/hr CO

Applicable Compliance Method-

Compliance shall be based upon the emission factor for diesel fuel engines given in AP-42, Fifth Edition (10/96), Compilation of Air Pollution Emission Factors Section 3.3, Table 3.3-1 of 0.95 lb CO/mmBtu multiplied by the maximum rated capacity of the diesel engine of 1.28 mmBtu/hr.

Emission Limitation-  
5.34 tons/yr CO

Applicable Compliance Method-

As long as compliance is maintained with the hourly emission limitation, compliance with the annual emission limitation will be shown (the annual emission limitation was calculated by multiplying the hourly limitation by the maximum annual operating schedule of 8,760

hours/year and then dividing by 2,000 lbs/ton).

- d. Emission Limitation-  
0.37 lb/hr SO<sub>2</sub>

Applicable Compliance Method-

Compliance shall be based upon the emission factor for diesel fuel engines given in AP-42, Fifth Edition, (10/96), Compilation of Air Pollution Emission Factors, Section 3.3, Table 3.3-1 of 0.29 lb SO<sub>2</sub>/mmBtu. If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Method 6 of 40 CFR Part 60, Appendix A.

Emission Limitation-

1.62 tons/yr SO<sub>2</sub>

Applicable Compliance Method-

As long as compliance is maintained with the hourly emission limitation, compliance with the annual emission limitation will be shown (the annual emission limitation was calculated by multiplying the hourly limitation by the maximum annual operating schedule of 8,760 hours/year and then dividing by 2,000 lbs/ton).

- e. Emission Limitation-  
0.45 lb/hr OC

Applicable Compliance Method-

Compliance shall be based upon the emission factor for diesel fuel engines given in AP-42, Fifth Edition (10/96), Compilation of Air Pollution Emission Factors, Section 3.3, Table 3.3-1 of 0.35 lb OC/mmBtu multiplied by the maximum rated capacity of the diesel engine of 1.28 mmBtu/hr.

Emission Limitation-

1.97 tons/yr OC

Applicable Compliance Method-

As long as compliance is maintained with the hourly emission limitation, compliance with the annual emission limitation will be shown (the annual emission limitation was calculated by multiplying the hourly limitation by the maximum annual operating schedule of 8,760 hours/year and then dividing by 2,000 lbs/ton)

- f. Opacity Limitation-  
visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method-

**Marti****PTI A****Modification Issued: 4/29/2004**Emissions Unit ID: **B002**

Compliance with the visible emission limitation is presumed through the use of diesel fuel. If required, compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1) using the tests and procedures specified in USEPA Reference Method 9.

**F. Miscellaneous Requirements**

## Notice to Relocate a Portable or Mobile Source

1. Pursuant to Ohio Administrative Code (OAC) rule 3745-31-03(A)(1)(p)(i), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a permit to install (PTI) providing the following criteria are met:
  - a. the portable emissions unit is equipped with the best available control technology for such portable emissions unit;
  - b. the portable emissions unit is operating pursuant to a currently effective permit to operate (PTO);
  - c. the applicant has provided proper notice of intent to relocate the portable emissions unit to the Director (the appropriate Ohio EPA District Office and/or local air agency having jurisdiction over the new site) within a minimum of thirty days prior to the scheduled relocation; and
  - d. in the Director's (the appropriate Ohio EPA District Office and/or local air agency) judgement, the proposed site is acceptable under the rule 3745-15-07 of the Administrative Code.

OR
2. Under OAC rule 3745-31-05(F), portable or mobile emission sources may relocate to sites that have been preapproved by the Director. The permittee may relocate the portable or mobile sources listed in this permit if:
  - a. the permittee has applied for and obtained a site approval for the new site from the Director;
  - b. the site approval is current and effective;

**Martin Marietta Materials Inc-Dayton PRP**

**PTI Application: 08 04504**

**Modif**

**Facility ID: 0857043068**

Emissions Unit ID: **B002**

- c. the permittee has complied with all of the conditions and restrictions contained in the site approval; and
- d. the permittee has provided the appropriate Ohio EPA District Office and/or local air agency having jurisdiction over the new site at least 15 days written notice of the relocation.

Marti

PTI A

Modification Issued: 4/29/2004

Emissions Unit ID: F002

**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 - screening operations- 1-600 ton/hr 6' x 20' 3D Deister Screen and 2-600 tons/hr 5" x 14" 3D Deister Wash Screens; portable emission unit  <b>**modification</b>	OAC rule 3745-31-05(A)(3)   NSPS 40 CFR Part 60, Subpart 000  *OAC rule 3745-17-07(B)(1)  *OAC rule 3745-17-08(B)	The requirements of this rule also include compliance with the requirements of NSPS 40 CFR Part 60, Subpart 000 and OAC rule 3745-17-08(B).  The particulate emissions (PE) from this emissions unit shall not exceed 3.18 lbs/hr and 13.93 tons/yr.  The visible particulate emissions shall not exceed 10% opacity, as a 6-minute average from the screens.  The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).  Reference A.2.c. for the Reasonable Available Control Measures.

**2. Additional Terms and Conditions**

- 2.a \*These rules are applicable only when the emission unit is located in an Appendix A area,

as specified in OAC 3745-17-08.

- 2.b The hourly and annual emissions limitations were established to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit.
- 2.c The aggregate materials processed through the equipment identified under this emissions unit shall have a moisture content sufficient to minimize or eliminate visible emissions of fugitive dust from the crushers, so that compliance with the opacity requirements specified above is continuously maintained. If the inherent moisture in the aggregate is not sufficient to comply with the opacity restrictions of this permit, the permittee shall apply water or other suitable dust suppressant, at appropriate locations in the production line.
- 2.d The particulate emission limitation specified above includes particulate matter (PM<sub>10</sub>) emissions that are less than 10 microns in diameter.

## B. Operational Restrictions

none

## C. Monitoring and/or Recordkeeping Requirements

- 1. The permittee shall perform daily checks, when the emissions unit is in operation, and when the weather conditions allow, for any visible fugitive particulate emissions from the screens. 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. the 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 emission incident; and
  - e. any corrective actions taken to minimize or eliminate the abnormal 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

Emissions Unit ID: F002

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.

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

#### D. Reporting Requirements

1. The permittee shall submit semiannual written reports that identify all days during which any visible fugitive particulate emissions were observed in excess of the allowable opacity limit specified above from the screens, and describe any corrective actions taken to minimize or eliminate the abnormal visible fugitive particulate 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-months.
2. The permittee shall submit the following information for each piece of equipment that is replaced having the same function as the existing facility in accordance with NSPS OOO:
  - a. for a crusher, grinding mill, bucket elevator, bagging operation, storage bin, enclosed truck or railcar loading station:
    - i. the rated capacity in tons or tons per hour of the existing facility being replaced, and
    - ii. the rated capacity in tons or tons per hour of the replacement equipment.
  - b. for a conveyor belt:
    - i. the width of the existing conveyor belt being replaced, and
    - ii. the width of the replacement conveyor belt.
  - c. for a screening operation:
    - i. the total surface area of the top screen of the existing screening operation being replaced, and

**Marti****PTI A****Modification Issued: 4/29/2004**Emissions Unit ID: **F002**

- ii. the total surface area of the top screen of the replacement, screening operation.
- d. The permittee shall submit the date of manufacture of each existing facility being replaced and the date of manufacture of the replacement equipment.

The notification shall be submitted 30 days (or as soon as practicable) before construction of the replacement equipment is commenced.

- 3. This emissions unit is subject to the applicable provisions of the New Source Performance Standards (NSPS) as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60.

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

Regional Air Pollution Control Agency  
Montgomery County Health Dept.  
117 South Main Street  
Dayton, Ohio 45422-1280

\*The permittee shall submit a notification of the actual date of initial startup of each affected facility to the Administrator. The notification shall be postmarked within 15 days after such date

and shall include a description of each affected facility, equipment manufacturer, and serial number of the equipment, if available.

## E. Testing Requirements

### Compliance Method

1. Compliance with the emission limitations in this permit for emissions unit F003 shall be determined in accordance with the following method(s):

- a. Emission Limitation-  
3.18 lbs/hr particulate emissions

Applicable Compliance Method-

Compliance shall be determined by multiplying the maximum hourly production rate 600 tons/hr for each screen by the emission factor of 0.001764 lb/ton [(0.00084 lb PM-10/ton)(2.1)], as specified in USEPA reference document AP-42, Table 11.19.2-2 (1/95) and summing the emission rates for each screen.

- b. Emission Limitation-  
13.93 tons/yr particulate emissions

Applicable Compliance Method-

As long as compliance is maintained with the hourly emission limitation, compliance with the annual emission limitation will be shown (the annual emission limitation was calculated by multiplying the maximum hourly limitation by the maximum annual operating schedule of 8,760 hours/year and then dividing by 2,000 lbs/ton).

- c. Emission Limitation-  
10% opacity, as a 6-minute average (screens)

Applicable Compliance Method-

Compliance shall be determined by visible emission evaluations performed using the methods and procedures specified in USEPA Reference Method 9.

2. The initial compliance demonstration required by 40 CFR 60 Subpart OOO shall be completed within 60 days after reaching maximum production and not later than 180 days after initial startup. The visible emissions evaluations shall be performed at maximum production capacity and during dry weather conditions. Every effort shall also be made to conduct the visible emissions evaluations between May 1 and September 30 to represent a worst case operating

scenario. The duration of the Method 9 observations shall be in accordance with the requirements of 40 CFR 60 Subpart OOO.

## F. Miscellaneous Requirements

### Notice to Relocate a Portable or Mobile Source

1. Pursuant to Ohio Administrative Code (OAC) rule 3745-31-03(A)(1)(p)(i), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a permit to install (PTI) providing the following criteria are met:
  - a. the portable emissions unit is equipped with the best available control technology for such portable emissions unit;
  - b. the portable emissions unit is operating pursuant to a currently effective permit to operate (PTO);
  - c. the applicant has provided proper notice of intent to relocate the portable emissions unit to the Director (the appropriate Ohio EPA District Office and/or local air agency having jurisdiction over the new site) within a minimum of thirty days prior to the scheduled relocation; and
  - d. in the Director's (the appropriate Ohio EPA District Office and/or local air agency) judgement, the proposed site is acceptable under the rule 3745-15-07 of the Administrative Code.

OR
2. Under OAC rule 3745-31-05(F), portable or mobile emission sources may relocate to sites that have been preapproved by the Director. The permittee may relocate the portable or mobile sources listed in this permit if:
  - a. the permittee has applied for and obtained a site approval for the new site from the Director;
  - b. the site approval is current and effective;
  - c. the permittee has complied with all of the conditions and restrictions contained in the site approval; and
  - d. the permittee has provided the appropriate Ohio EPA District Office and/or local air agency having jurisdiction over the new site at least 15 days written notice of the

**Marti**

**PTI A**

**Modification Issued: 4/29/2004**

Emissions Unit ID: **F002**

relocation.

3.     \*\*     Terms in this permit supercedes those identified in PTI 08-03335 issued on 09/29/99 for emissions unit F002 and represents a 13.22 tons/yr increase of allowable particulate emissions.

**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 - Conveying/Transfer Operations (15 pieces of equipment) portable emission unit  <b>**modification</b>	OAC rule 3745-31-05(A)(3)    NSPS 40 CFR Part 60, Subpart 000  *OAC rule 3745-17-07(B)(1)   *OAC rule 3745-17-08(B)	The requirements of this rule also include compliance with the requirements of NSPS 40 CFR Part 60, Subpart 000 and OAC rule 3745-17-08(B).  The particulate emissions (PE) from this emissions unit shall not exceed 0.91 lb/hr and 3.99 tons/yr.  The visible particulate emissions shall not exceed 10% opacity, as a 6-minute average from transfer points/conveyors  The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).  Reference A.2.c. for the Reasonable Available Control Measures.

**2. Additional Terms and Conditions**

Emissions Unit ID: F003

- 2.a \*These rules are applicable only when the emission unit is located in an Appendix A area, as specified in OAC 3745-17-08.
- 2.b The hourly and annual emissions limitations were established to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit.
- 2.c The aggregate materials processed through the equipment identified under this emissions unit shall have a moisture content sufficient to minimize or eliminate visible emissions of fugitive dust from the crushers, so that compliance with the opacity requirements specified above is continuously maintained. If the inherent moisture in the aggregate is not sufficient to comply with the opacity restrictions of this permit, the permittee shall apply water or other suitable dust suppressant, at appropriate locations in the production line.
- 2.d The particulate emission limitation specified above includes particulate matter (PM<sub>10</sub>) emissions that are less than 10 microns in diameter.

**B. Operational Restrictions**

none

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

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

<u>material handling operation(s)</u>	<u>control measure(s)</u>
all conveyors and transfer points	spray mist/nozzles as needed

- 2. For each material handling operation that is not adequately enclosed, the above-identified control measure(s) shall be implemented if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) is (are) necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during the operation of the material handling operation(s) until further observation confirms that use of the control measure(s) is unnecessary.

**Marti****PTI A****Modification Issued: 4/29/2004**Emissions Unit ID: **F003**

3. Implementation of the above-mentioned control measure(s) in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05(A)(3).
4. The permittee shall perform daily checks, when the emissions unit is in operation, and when the weather conditions allow, for any visible fugitive particulate emissions from the conveying operations equipment. 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. the 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 emission incident; and
  - e. any corrective actions taken to minimize or eliminate the abnormal 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.

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

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

1. The permittee shall submit semiannual written reports that identify all days during which any visible fugitive particulate emissions were observed in excess of the allowable opacity limit specified above from the conveying operations equipment, and describe any corrective actions taken to minimize or eliminate the abnormal visible fugitive particulate 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-months.

2. The permittee shall submit the following information for each piece of equipment that is replaced having the same function as the existing facility in accordance with NSPS OOO:
  - a. for a crusher, grinding mill, bucket elevator, bagging operation, storage bin, enclosed truck or railcar loading station:
    - i. the rated capacity in tons or tons per hour of the existing facility being replaced, and
    - ii. the rated capacity in tons or tons per hour of the replacement equipment.
  - b. for a conveyor belt:
    - i. the width of the existing conveyor belt being replaced, and
    - ii. the width of the replacement conveyor belt.
  - c. for a screening operation:
    - i. the total surface area of the top screen of the existing screening operation being replaced, and
    - ii. the total surface area of the top screen of the replacement, screening operation.
  - d. The permittee shall submit the date of manufacture of each existing facility being replaced and the date of manufacture of the replacement equipment.

The notification shall be submitted 30 days (or as soon as practicable) before construction of the replacement equipment is commenced.

## **E. Testing Requirements**

### **Compliance Method**

1. Compliance with the emission limitations in this permit for emissions unit F003 shall be determined in accordance with the following method(s):
  - a. Emission Limitation-  
0.91 lb/hr particulate emissions

**Marti****PTI A****Modification Issued: 4/29/2004**Emissions Unit ID: **F003****Applicable Compliance Method-**

Compliance shall be determined by multiplying the maximum hourly production rate 600 tons/hr for each conveying equipment by the emission factor of 0.0001008 lb/ton [(0.000048 lb PM-10/ton)(2.1)], as specified in USEPA reference document AP-42, Table 11.19.2-2 (1/95) and summing the emission rates for each piece of equipment..

- b. **Emission Limitation-**  
3.99 tons/yr particulate emissions

**Applicable Compliance Method-**

As long as compliance is maintained with the hourly emission limitation, compliance with the annual emission limitation will be shown (the annual emission limitation was calculated by multiplying the maximum hourly limitation by the maximum annual operating schedule of 8,760 hours/year and then dividing by 2,000 lbs/ton).

- c. **Emission Limitation-**  
10% opacity, as a 6-minute average (screens)

**Applicable Compliance Method-**

Compliance shall be determined by visible emission evaluations performed using the methods and procedures specified in USEPA Reference Method 9.

2. The initial compliance demonstration required by 40 CFR 60 Subpart OOO shall be completed within 60 days after reaching maximum production and not later than 180 days after initial startup. The visible emissions evaluations shall be performed at maximum production capacity and during dry weather conditions. Every effort shall also be made to conduct the visible emissions evaluations between May 1 and September 30 to represent a worst case operating scenario. The duration of the Method 9 observations shall be in accordance with the requirements of 40 CFR 60 Subpart OOO.

**F. Miscellaneous Requirements****Notice to Relocate a Portable or Mobile Source**

1. Pursuant to Ohio Administrative Code (OAC) rule 3745-31-03(A)(1)(p)(i), the permittee of a portable or mobile emissions unit may relocate within the State of Ohio without first obtaining a permit to install (PTI) providing the following criteria are met:
- a. the portable emissions unit is equipped with the best available control technology for such portable emissions unit;

**Martin Marietta Materials Inc-Dayton PRP**  
**PTI Application: 08 04504**  
**Modif**

**Facility ID: 0857043068**

**Emissions Unit ID: F003**

- b. the portable emissions unit is operating pursuant to a currently effective permit to operate (PTO);
- c. the applicant has provided proper notice of intent to relocate the portable emissions unit to the Director (the appropriate Ohio EPA District Office and/or local air agency having jurisdiction over the new site) within a minimum of thirty days prior to the scheduled relocation; and
- d. in the Director's (the appropriate Ohio EPA District Office and/or local air agency) judgement, the proposed site is acceptable under the rule 3745-15-07 of the Administrative Code.

OR

- 2. Under OAC rule 3745-31-05(F), portable or mobile emission sources may relocate to sites that have been preapproved by the Director. The permittee may relocate the portable or mobile sources listed in this permit if:
  - a. the permittee has applied for and obtained a site approval for the new site from the Director;
  - b. the site approval is current and effective;
  - c. the permittee has complied with all of the conditions and restrictions contained in the site approval; and
  - d. the permittee has provided the appropriate Ohio EPA District Office and/or local air agency having jurisdiction over the new site at least 15 days written notice of the relocation.
- 3. \*\* Terms in this permit supercedes those identified in PTI 08-03968 issued on 04/14/99 for emissions unit F003 and represents a 3.63 tons/yr increase of allowable particulate emissions.