



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL
CLARK 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: 08-04470

DATE: 2/20/2003

Martin Marietta Materials Inc-Fairborn G
Patrick Montgomery
1337 Dayton-Xenia Rd
Xenia, OH 45385-7110

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

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

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

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

Very truly yours,

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

cc: USEPA

RAPCA



**Permit To Install
Terms and Conditions**

**Issue Date: 2/20/2003
Effective Date: 2/20/2003**

FINAL PERMIT TO INSTALL 08-04470

Application Number: 08-04470
APS Premise Number: 0812750086
Permit Fee: **\$1200**
Name of Facility: Martin Marietta Materials Inc-Fairborn G
Person to Contact: Patrick Montgomery
Address: 1337 Dayton-Xenia Rd
Xenia, OH 45385-7110

Location of proposed air contaminant source(s) [emissions unit(s)]:
**12063 Lower Valley Pike
Medway, Ohio**

Description of proposed emissions unit(s):
F004 modification, chapter 31 replacing 08-03297 issued 5-10-95; new equipment-3 belt conveyors, 1 feeder-hopper, 1 bucket sand wheel, and vibrating screen.

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

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Director

Part I - GENERAL TERMS AND CONDITIONS

A. Permit to Install General Terms and Conditions

1. Compliance Requirements

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

2. Reporting Requirements

The permittee shall submit required reports in the following manner:

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

3. Records Retention Requirements

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

4. Inspections and Information Requests

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

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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

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and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources cannot meet the requirements of this permit or cannot meet applicable standards.

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

10. Public Disclosure

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

11. Applicability

This Permit To Install is applicable only to the emissions unit(s) identified in the Permit To Install. Separate Permit To Install for the installation or modification of any other emissions unit(s) are required for any emissions unit for which a Permit To Install is required.

12. Best Available Technology

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

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

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within ninety (90) days after commencing operation of the emissions unit(s) covered by this permit.

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14. Construction Compliance Certification

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

15. Fees

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

B. Permit to Install Summary of Allowable Emissions

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

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

<u>Pollutant</u>	<u>Tons Per Year</u>
particulate	56.76

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.

Operations, Property, <u>and/or Equipment</u>	**500 tons/hr; 7' x 16' 2-Deck AMS (Tertiary)	10- **Conveyors 16-Conveyors
F001 - Aggregate Processing Plant (crushers, screens, material handling)	**300 tons/hr; 6' x 20 3-Deck AMS **325 tons/hr; 6' x 20 3-Deck AMS	*Modification
Crushing Operations **300 tons/hr; 1036 Cedar Rapids Jaw Crusher (Primary)	**130 tons/hr; 5' x 12' 3-Deck AMS Material Handling 1 -16" dredge w/70' ladder	
**1 - 125 tons/hr; 4' Short-Head Nordberg Crusher (Secondary)	1- **Eagle Metering Bin	
1 - 125 tons/hr; 4' Short-Head Nordberg Crusher (Secondary)	1-**40" Scalping Tank 2-**Eagle SSFM Washers	
50 tons/hr; 3' Short-Head Nordberg Crusher (Tertiary)	1-**Eagle Scalping Tank	
Screening Operations (Primary)	1-**FMC Feeder 5- **Radial Stackers	
**600 tons/hr; 6' x 16' 2-D El-Jay Screen	1-Double Eagle CMW	
420 tons/hr; 6' x 20' 3-Deck AMS (Secondary)	1-FMC Feeder and Hopper 1-**DW400 Basic Bucket Sand Wheel Wheel	
**240 tons/hr; 7' x 16' 2-Deck AMS LH	1- **Stationary De-watering Grizzly	

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Martin

PTI A

Issued: 2/20/2003

Emissions Unit ID: **F001**

Applicable Rules/Requirements

OAC rule 3745-31-05(A)(3)

**NSPS 40 CFR Part 60, Subpart

OOO

Applicable Emissions
Limitations/Control Measures

The requirements of this rule also include compliance with the requirements of NSPS 40 CFR Part 60, Subpart 000.

7.66 lbs/hr and 8.27 tons/yr
particulate emissions plant wide

15% opacity, as a 6-minute average
from the crushers

10% opacity, as a 6-minute average
from any unsaturated transfer point

no visible emissions from all
saturated equipment except
crushers

15% opacity, as a 6-minute average
from the crushers

10% opacity, as a 6-minute average
from any unsaturated screens

10% opacity, as a 6-minute average
from any unsaturated transfer point

no visible emissions from all
saturated equipment except
crushers

2. Additional Terms and Conditions

- 2.a** The hourly emission limitation was 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.b** 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, screens, conveyors and transfer points, 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.

B. Operational Restrictions

1. The maximum annual production rate for this facility shall not exceed 1,296,000 tons.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain monthly records of the total aggregate materials produced in this facility.
2. The permittee shall conduct annual visible emissions evaluations of this emissions unit. 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.
3. 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:

Emissions Unit ID: **F001**

material handling operation(s)

control measure(s)

all conveyors and transfer points

spray mist/nozzles as needed

4. 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.
5. 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.
6. 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 emissions unit. 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 visible emissions.

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

D. Reporting Requirements

1. The permittee shall submit annual reports of the annual production rate for this facility. These reports shall be submitted by January 31 of each year to the Director (the appropriate Ohio EPA District Office or local air agency).

2. The permittee shall report within 30 days, any change in the saturated or unsaturated nature of the material being processed in the screens and conveyors. The affected emissions unit is then subject to the provisions of the standard applicable to the type of material being processed.
3. The permittee shall submit written reports that identify all days during which any visible fugitive particulate emissions were observed that did not demonstrate compliance with the opacity requirements specified above from this emissions unit, and describe any corrective actions taken to minimize or eliminate the visible fugitive particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days after the exceedance occurs.
4. The permittee shall submit the following information for each piece of equipment that is replaced having the same function as the existing facility:
 - 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

1. Compliance with the emission limitations in this permit for emissions unit F001 shall be determined in accordance with the following method(s):

a. Emission Limitation-
7.66 lbs/hr particulate emissions

Applicable Compliance Method-

Compliance shall be determined by summing the maximum hourly emission rates for the crushers, screens, and the material handling equipment. (See i. through vii. below)

- i. The maximum hourly emission rate for the primary crusher is determined by multiplying the maximum hourly production rate of 300 tons/hour by the emission factor of 0.001239 lb/ton [(0.00059 lb PM-10/ton)(2.1)], as specified in USEPA reference document AP-42, Table 11.19.2-2 (1/95).
- ii. The maximum hourly emission rate for the secondary crushers are determined by multiplying the maximum hourly production rates of 125 tons/hr each, by the emission factor of 0.001239 lb/ton [(0.00059 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 the two crushers.
- iii. The maximum hourly emission rate for the tertiary crusher is determined by multiplying the maximum hourly production rate of 50 tons/hour by the emission factor of 0.001239 lb/ton [(0.00059 lb PM-10/ton)(2.1)], as specified in USEPA reference document AP-42, Table 11.19.2-2 (1/95).
- iv. The maximum hourly emission rate for the primary screens are determined by multiplying the maximum hourly production rate of 600 tons/hour and 420 tons/hr respectively 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 emissions rates for the two screens.
- v. The maximum hourly emission rate for the secondary screens are determined by multiplying the maximum hourly production rate of 500 tons/hour and 240 tons/hr respectively 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 emissions rates for the two screens.
- vi. The maximum hourly emission rate for the tertiary screens are determined by multiplying the maximum hourly production rate of 325 tons/hour, 300 tons/hr and 130 tons/hr respectively 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 emissions rates for the three screens.

- vii. The maximum hourly emission rate for the material handling equipment is determined by multiplying the maximum hourly production rates of 600 tons/hr for each piece of 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-
8.27 tons/yr particulate emissions combined

Applicable Compliance Method-

Compliance shall be determined by summing the annual emission rates for the crushers, screens and material handling equipment. (See i. through vii. below)

- i. The annual emission rate for the primary crusher is determined by multiplying the 12-monthly production records for the calendar year, by the emission factor of 0.001239 lb/ton [(0.00059 lb PM-10/ton)(2.1)], as specified in USEPA reference document AP-42, Table 11.19.2-2 (1/95), and dividing by 2,000 pounds per ton.
- ii. The annual emission rate for the secondary crushers are determined by multiplying the 12-monthly production records for the calendar year, by the emission factor of 0.001239 lb/ton [(0.00059 lb PM-10/ton)(2.1)], as specified in USEPA reference document AP-42, Table 11.19.2-2 (1/95), and dividing by 2,000 pounds per ton, and summing the emission rates.
- iii. The annual emission rate for the tertiary crusher is determined by multiplying the 12-monthly production records for the calendar year, by the emission factor of 0.001239 lb/ton [(0.00059 lb PM-10/ton)(2.1)], as specified in USEPA reference document AP-42, Table 11.19.2-2 (1/95), and dividing by 2,000 pounds per ton.
- iv. The annual emission rate for the primary screens are determined by multiplying the 12-monthly production records for the calendar year, 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 dividing by 2,000 pounds per ton and summing the emission rates for the two screens.
- v. The annual emission rate for the secondary screens are determined by multiplying

Emissions Unit ID: F001

the 12-monthly production records for the calendar year 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 dividing by 2,000 pounds per ton and summing the emission rates for the two screens.

- vi. The annual emission rate for the tertiary screens are determined by multiplying the 12-monthly production records for the calendar year 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 dividing by 2,000 pounds per ton and summing the emission rates for the three screens.
- vii. The annual emission rate for the material handling equipment is determined by multiplying the 12-monthly production records for the calendar year for each piece of 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 dividing by 2,000 pounds per ton and summing the emission rates for each piece of equipment.

- c. Emission Limitation-
15% opacity, as a 6-minute average (crushers)

Applicable Compliance Method-

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

- d. Emission Limitation-
10% opacity, as a 6-minute average (screens, transfer points, conveyors, material handling equipment)

Applicable Compliance Method-
Compliance shall be determined by visible emission evaluations performed using the methods and procedures specified in USEPA Reference Method 9 and 40 CFR 60.675 Subpart OOO.

- e. Emission Limitation-
No visible emissions (saturated equipment)

Applicable Compliance Method-
Compliance shall be based on USEPA Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.

- f. Production Limitation-
The annual production rate for this facility shall not exceed 1,296,000 tons of aggregate.

Applicable Compliance Method-
Compliance shall be based upon record keeping requirements listed in term C.1 of this emissions unit.

F. Miscellaneous Requirements

1. *Terms in this permit supercede those identified in PTI 08-3047 issued 10/05/94 and PTI 08-3297 issued 05/10/95 and represents a 9.01 tons/yr decrease of 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>
F006 - load-in and load-out of storage piles (see Section A.2.b for identification of storage piles)	OAC rule 3745-31-05(A)(3)	6.30 tons/yr particulate emissions no visible emissions except for one minute in any hour best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.b, A.2.c and A.2.f)
wind erosion from storage piles (see Section A.2.b for identification of storage piles)	OAC rule 3745-31-05(A)(3)	12.87 tons/yr particulate emissions no visible emissions except for one minute in any hour best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.d through A.2.f)

2. Additional Terms and Conditions

- 2.a The annual emission limitation was 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 terms.

- 2.b** The storage piles that are covered by this permit and subject to the requirements of OAC rule 3745-31-05 are listed below:
- All
- 2.c** The permittee shall employ best available control measures on all load-in and load-out operations associated with the storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to use of variable height stacker in lieu of front-end loader and reduce the drop height of the front-end loader bucket to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.d** The above-mentioned control measure(s) shall be employed for each load-in and load-out operation of each storage pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during any such operation until further observation confirms that use of the measure(s) is unnecessary.
- 2.e** The permittee shall employ best available control measures for wind erosion from the surfaces of all storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to maintenance of as low a pile height as possible to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.f** The above-mentioned control measure(s) shall be employed for wind erosion from each pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Implementation of the control measure(s) shall not be necessary for a storage pile that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements.
- 2.g** Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05.

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

1. Except as otherwise provided in this section, the permittee shall perform inspections of each load-in operation at each storage pile in accordance with the following frequencies:

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

2. Except as otherwise provided in this section, the permittee shall perform inspections of each load-out operation at each storage pile in accordance with the following frequencies:

<u>storage pile identification</u>	<u>minimum load-out inspection frequency</u>
All	Daily

3. Except as otherwise provided in this section, the permittee shall perform inspections of the wind erosion from pile surfaces associated with each storage pile in accordance with the following frequencies:

<u>storage pile identification</u>	<u>minimum wind erosion inspection frequency</u>
All	Daily

4. No inspection shall be necessary for wind erosion from the surface of a storage pile when the pile is covered with snow and/or ice and for any storage pile activity if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.
5. The purpose of the inspections is to determine the need for implementing the control measures specified in this permit for load-in and load-out of a storage pile, and wind erosion from the surface of a storage pile. The inspections shall be performed during representative, normal storage pile operating conditions.
6. The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
7. The permittee shall maintain records of the following information:

- a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
- b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
- c. the dates the control measures were implemented; and
- d. on a calendar quarter basis, the total number of days the control measures were implemented and, for wind erosion from pile surfaces, the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measure(s).

The information required in 7.d. shall be kept separately for (i) the load-in operations, (ii) the load-out operations, and (iii) the pile surfaces (wind erosion), and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

D. Reporting Requirements

1. The permittee shall submit deviation reports that identify any of the following occurrences:
 - a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and
 - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.
2. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

Compliance Method

1. Compliance with the emission limitations in Section A1. of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation-
19.17 tons PE/yr

Applicable Compliance Method-
 Compliance with the emission limit can be demonstrated through a one time calculation

using the maximum allowable annual production rate of the facility and equation (1) from AP 42, Section 13.2.4 (1/95) for load-in and load out of material on aggregate storage piles and for wind erosion as calculated from equation (5) of the Air Pollution Engineering Manual (Air & Waste Management Association, 1992, Page 136)

- b. Emission Limitation-
no visible emissions except for one minute in any hour

Applicable Compliance Method-

Compliance with the visible emission limitations for the storage piles identified above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.

F. Miscellaneous Requirements

None

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
F007 - paved roadways and parking areas (see Section A.2.b)	OAC rule 3745-31-05(A)(3)	13.49 tons/yr particulate emissions no visible particulate emissions except for one minute during any 60-minute period best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.d, A.2.e, and A.2.g through A.2.j)
unpaved roadways and parking areas (see Section A.2.c)	OAC rule 3745-31-05(A)(3)	15.83 tons/yr particulate emissions no visible particulate emissions except for 3 minutes during any 60-minute period best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.f through A.2.j)

2. Additional Terms and Conditions

- 2.a The annual emission limitation was 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 terms.
- 2.b The paved roadways and parking areas that are covered by this permit and subject to the above-mentioned requirements are listed below:

paved roadways:

All

paved parking areas:

All

- 2.c** The unpaved roadways and parking areas that are covered by this permit and subject to the above-mentioned requirements are listed below:

unpaved roadways:

All

unpaved parking areas:

All

- 2.d** The permittee shall employ best available control measures on all paved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat the paved roadways and parking areas by water flushing at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.e** The permittee shall employ best available control measures on the unpaved shoulders of all paved roadways for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat the unpaved shoulders of all paved roadways with chemical stabilization at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.f** The permittee shall employ best available control measures on all unpaved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat the unpaved roadways and parking areas with chemical stabilization at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall

prohibit the permittee from employing other control measures to ensure compliance.

- 2.g** The needed frequencies of implementation of the control measures shall be determined by the permittee's inspections pursuant to the monitoring section of this permit. Implementation of the control measures shall not be necessary for a paved or unpaved roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Implementation of any control measure may be suspended if unsafe or hazardous driving conditions would be created by its use.
- 2.h** Any unpaved roadway or parking area, which is paved or takes the characteristics of a paved surface due to the application of certain types of dust suppressants, may be controlled with the control measure(s) specified above for paved surfaces. Any unpaved roadway or parking area that takes the characteristics of a paved roadway or parking area due to the application of certain types of dust suppressants shall remain subject to the visible emission limitation for unpaved roadways and parking areas. Any unpaved roadway or parking area that is paved shall be subject to the visible emission limitation for paved roadways and parking areas.
- 2.i** The permittee shall promptly remove, in such a manner as to minimize or prevent resuspension, earth and/or other material from paved streets onto which such material has been deposited by trucking or earth moving equipment or erosion by water or other means.
- 2.j** Open-bodied vehicles transporting materials likely to become airborne shall have such materials covered at all times if the control measure is necessary for the materials being transported.
- 2.k** Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the best available technology requirements of OAC rule 3745-31-05.

B. Operational Restrictions

None

C. Monitoring and/or Recordkeeping Requirements

1. Except as otherwise provided in this section, the permittee shall perform inspections of the

roadways and parking areas in accordance with the following frequencies:

<u>paved roadways and parking areas</u>	<u>minimum inspection frequency</u>
All	Daily
<u>unpaved roadways and parking areas</u>	<u>minimum inspection frequency</u>
All	Daily

2. The purpose of the inspections is to determine the need for implementing the above-mentioned control measures. The inspections shall be performed during representative, normal traffic conditions. No inspection shall be necessary for a roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above-identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.
3. The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
4. The permittee shall maintain records of the following information:
 - a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
 - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
 - c. the dates the control measures were implemented; and
 - d. on a calendar quarter basis, the total number of days the control measures were implemented and the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measures.

The information required in 4.d. shall be kept separately for (i) the paved roadways and parking areas and (ii) the unpaved roadways and parking areas, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

D. Reporting Requirements

1. The permittee shall submit deviation reports that identify any of the following occurrences:
 - a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and
 - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.
2. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the emissions limitations in Section A.1. of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:
15.83 tons/year particulate emissions from unpaved roadways and parking areas.

Applicable Compliance Method:
Compliance with the emission limit shall be demonstrated through an annual calculation using the vehicle miles traveled on-site and Equation (2) from AP-42, section 13.2.2, (10/02) and 95 % control for chemical stabilization of unpaved roads from Reasonably Available Control Measures For Fugitive Dust Sources, Ohio EPA, (1980).
 - b. Emission Limitation:
13.49 tons/year particulate emissions from paved roadways and parking areas.

Applicable Compliance Method:
Compliance with the emission limit can be demonstrated through an annual calculations using the vehicle miles traveled on-site and Equation (1) from AP-42, section 13.2.1, (10/97) and 80 % control for water flushing from Reasonably Available Control Measures For Fugitive Dust Sources, Ohio EPA, (1980).
 - c. Emission Limitation:
no visible particulate emissions except for one minute during any 60-minute period

no visible particulate emissions except for 3 minutes during any 60-minute period

Martin Marietta Materials Inc-Fairborn G

PTI Application: 08 04470

Issued

Facility ID: 0812750086

Emissions Unit ID: **F007**

Applicable Compliance Method:

Compliance with the emissions limitation for the paved and unpaved roadways and parking areas identified above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources," as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

F. Miscellaneous Requirements

None