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Facility Name: **Martin Marietta Materials**

Application Number: **14-4648**

Date: **December 21, 1998**

GENERAL PERMIT CONDITIONS

TERMINATION OF PERMIT TO INSTALL

Substantial construction for installation must take place within 18 months of the effective date of this permit. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

NOTICE OF INSPECTION

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

CONSTRUCTION OF NEW SOURCES

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

If the construction of the proposed source(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of Ohio Administrative Code (OAC) Rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as

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an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet applicable standards.

PERMIT TO INSTALL FEE

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

PUBLIC DISCLOSURE

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

APPLICABILITY

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

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BEST AVAILABLE TECHNOLOGY

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

PERMIT TO OPERATE APPLICATION

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

SOURCE OPERATION AFTER COMPLETION OF CONSTRUCTION

This facility is permitted to operate each source described by this permit to install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws and regulations.

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

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

3745-15-07

<u>Ohio EPA Source Number</u>	<u>Source Identification Description</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>
F004	350 TPH dry bank mining operation	Minimize the disturbed land surface to minimize or eliminate visible particulate emissions of fugitive dust; compliance with the annual production limits.	3745-31-05 (BAT) 3745-15-07
F005	Northern mining area unpaved haul roadway	Use of dust suppression chemicals, water, and speed limits to minimize or eliminate visible particulate emissions of fugitive dust.	3745-31-05 (BAT)

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<u>Ohio EPA Source Number</u>	<u>Source Identification Number</u>	<u>BAT Determination</u>	<u>Applicable Federal & OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control/Usage Requirements</u>
	TPY PM, 4.4 TPY PM ₁₀			
Permit Allowable Emissions and/or Control/Usage Requirements	See Additional Special Term and Condition A.1.			
	See General Terms.			
10.1 pounds/ hour PM and 13.3 TPY PM; 0.7 pound/h our PM ₁₀ and 1.28 TPY PM ₁₀				
	See Additional Special Term and Condition A.7.			
	See General Terms.			
12.2				

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SUMMARY
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons/Year</u>
PM	25.5
PM ₁₀	5.7

REPORTING REQUIREMENTS

Unless otherwise specified, reports required by the Permit to Install need only be submitted to **Hamilton County Dept. of Env. Services, 1632 Central Parkway, Cincinnati, OH 45210.**

WASTE DISPOSAL

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

MAINTENANCE OF EQUIPMENT

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

MALFUNCTION/ABATEMENT

In accordance with OAC RULE 3745-15-06, any malfunction of the

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source(s) or associated air pollution control system(s) shall be reported immediately to the **Hamilton County Dept. of Env. Services, 1632 Central Parkway, Cincinnati, OH 45210.**

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

AIR POLLUTION NUISANCES PROHIBITED

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

ADDITIONAL SPECIAL TERMS AND CONDITIONS

A. Applicable Emissions Limitations and/or Control Requirements

- | | | | |
|----|---------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| 1. | Unpaved
roadways | OAC rule 3745-31-05 | No visible
particulate
emissions except
for 3 minutes
during any
60-minute period.
(See Terms A.3,
A.4, A.5, A.6.) |
|----|---------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
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2. The unpaved roadways that are covered by this permit and subject to the requirements of OAC rule 3745-31-05 are listed below:

Northern Mining Area Unpaved Haul Road

3. All unpaved roadways and parking areas shall be treated with water and/or any other suitable dust suppression chemicals to minimize or eliminate, at all times, visible emissions of fugitive dust generated by

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vehicular traffic and to ensure compliance with the above-mentioned visible emission limitation.

4. The control measures shall be implemented at frequencies that will minimize or eliminate visible emissions of fugitive dust generated by vehicular traffic and ensure compliance with the above-mentioned visible emission limitations, and the needed frequencies of implementation shall be determined by the permittee's inspections. It is further understood that on any specific day implementation of the control measures shall not be necessary for an unpaved roadway that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to minimize or eliminate visible emissions of fugitive dust generated by vehicular traffic and to ensure compliance with the above-mentioned visible emission limitations.
5. Open-bodied vehicles transporting materials likely to become airborne shall have such materials covered at all times if the control measure is necessary to minimize or eliminate visible emissions of fugitive dust.
6. A maximum speed limit of 15 miles per hour shall be posted and enforced on the property.
7. Visible particulate emissions of fugitive dust from the dry bank mining operation (emissions unit F004) shall not exceed 20 percent opacity, as a three-minute average, except as specified by rule.
8. For the lbs/hr and TPY emissions limitations for emissions unit F004 and F005, see the Air Emissions Summary page of this permit.

The hourly PM and PM₁₀ emissions limitations for the dry bank mining operation (emissions unit F004) are based upon the emissions unit's PTE. Therefore, no hourly and/or daily records are required to demonstrate compliance with these limits.

B. Operational Restrictions

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1. The maximum annual overburden material removal rate from the dry bank mining operation shall not exceed 73,000 tons per year.
2. The maximum annual sand & gravel removal rate from the dry bank mining operation shall not exceed 1,050,000 tons per year.
3. The maximum annual vehicle miles traveled (VMT) by all vehicles on the northern mining area unpaved roadway shall not exceed 45,360 vehicle miles per year.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall perform inspections of the roadways and parking areas in accordance with the following frequencies:

<u>Unpaved roadways and parking areas</u> <u>frequency</u>	<u>Minimum inspection</u>
Northern Mining Area Unpaved Haul Road	Daily

The purpose of the inspections is to determine the need for implementing the control measures specified in Section A.3-A.5. The inspections shall be performed during representative, normal traffic conditions. No inspection shall be necessary for a roadway that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to minimize or eliminate visible emissions of fugitive dust generated by vehicular traffic and to ensure compliance with the above-mentioned visible emission limitations.

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.

The permittee may, upon receipt of written approval from the Hamilton County Dept. of Env. Services, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to minimize or eliminate visible emissions of fugitive dust generated by vehicular traffic and to ensure compliance with the above-mentioned visible emission limitations.

2. The permittee shall maintain records of the following

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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 2.d. shall be kept separately for 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.

3. The permittee shall maintain monthly records, in tons, of the amount of overburden material removed in the dry bank mining operation.
4. The permittee shall maintain monthly records, in tons, of the amount of sand & gravel removed in the dry bank mining operation.
5. The permittee shall maintain records which include the following information for the Northern mining area unpaved roadway:
 - a. the number of vehicles miles traveled (VMT) by all vehicles on the unpaved haul roadway in VMT per year.
6. 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

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date the record was created. Support information shall include, but not 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.

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 permittee shall submit annual reports that identify any exceedances of the annual overburden material removal rate limitation in section B.1. of these terms and conditions, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year.
3. The permittee shall submit annual reports that identify any exceedances of the annual sand & gravel removal rate limitation in section B.2. of these terms and conditions, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year.
4. The permittee shall submit annual reports that identify any exceedances of the annual vehicle miles traveled limitation in section B.3. of these terms and conditions, as well as the corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 of each year.
5. 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 Hamilton County Dept. of Env. Services; and,
 - b. except as otherwise may be provided in the terms

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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 Hamilton County Dept. of Env. Services.

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 30, April 30, July 30, and October 30 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).

E. Testing Requirements

1. Compliance with the fugitive dust visible particulate emissions limitation in section A.7. of these terms and conditions, for the dry bank mining operation, shall be demonstrated by the methods outlined in OAC rule 3745-17-03(B) (3).
2. Compliance with the emission limitations for the unpaved roadways 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.
3. Compliance with the lbs/hr PM and PM₁₀ emissions limits in the Air Emissions Summary section of this permit for emissions unit F004 shall be demonstrated by the following:

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multiply the actual hourly production rates from the overburden removal, mineral removal, truck loading, and reclamation operations by the appropriate RACM emission factors from Sections 2.1.4 and 2.18 and add the results.

Based on RACM Section 2.1.4, the PM_{10} emissions shall be 7 percent of the PM emissions.

4. Compliance with the TPY PM and PM_{10} emissions limits in the Air Emissions Summary section of this permit for emissions unit F004 shall be demonstrated by the following:

multiply the actual annual production rates from the overburden removal, mineral removal, truck loading, and reclamation operations by the appropriate RACM emission factors from Sections 2.1.4 and 2.18 and add the results to the emissions obtained through Equation 1 of RACM Section 2.1.4 for wind erosion.

Based on RACM, the PM_{10} emissions shall be 7% of the PM emissions.

5. Compliance with the TPY PM and PM_{10} emissions limits in the Air Emissions Summary section of this permit for emissions unit F005 shall be demonstrated by applying the equation(s) in AP-42 Section 11.2.1, 1998 for Unpaved Roadways and Parking Areas.
6. Compliance with the operational restrictions in sections B.1. and B.2. and B.3. of these terms and conditions shall be demonstrated by the recordkeeping requirements in sections C.3., C.4. and C.5. of these terms and conditions.

F. Miscellaneous Requirements

1. None.