

Synthetic Minor Determination and/or  Netting Determination

Permit To Install **06-08084**

**A. Source Description**

P001 is a 685 hp diesel generator located on a barge and used to power F001 material handling operations also on the barge. F001 is a material handling operation and consists of one barge hopper, eight portable field conveyers, and conveyer drop to pile.

**B. Facility Emissions and Attainment Status**

This Martin Marietta Materials facility will be located in Tiltonsville, OH and permitted out of Jefferson County, which is currently in attainment for all criteria pollutants except for the 8 hour ozone standard and PM 2.5. The facility will be built on the site of Walden Industries, a cement block plant and current location of an Arrow Concrete portable batch plant. All of these facilities are Non-Title V.

**C. Source Emissions**

The facility has requested federally enforceable limitations to limit the potential to emit of P001 and F001. F001 shall be limited to 500,000 tons of throughput per year to avoid an air dispersion modeling requirement. Based on the 500,000 TPY restriction PE emissions will be limited to 0.38 TPY. For P001 fuel consumption will be limited to 96,600 gal. as a rolling, 12-month summation to avoid an air dispersion modeling requirement. Based on the rolling, 12-month fuel usage limitation, rolling, 12-month emissions limits have been established at 24.70 tons NO<sub>x</sub>, 5.70 tons CO, 0.50 ton PE, 4.20 tons SO<sub>2</sub> and 0.80 ton VOC.

**D. Conclusion**

The operational restrictions, emission limits, record keeping and reporting requirements of this permit are sufficient to provide federally enforceable limitations to limit the potential to emit from this emissions unit. With issuance of this permit, the federally enforceable potential to emit from P001 and F001 will be 24.70 tons NO<sub>x</sub>, 5.70 tons CO, 0.88 ton PE, 4.20 tons SO<sub>2</sub>, and 0.80 ton VOC.



State of Ohio Environmental Protection Agency

**RE: DRAFT PERMIT TO INSTALL  
JEFFERSON COUNTY**

**CERTIFIED MAIL**

Street Address:

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

Mailing Address:  
Lazarus Gov.  
Center

**Application No: 06-08084**

**Fac ID: 0641170264**

**DATE: 4/4/2006**

Martin Marietta Materials Inc.  
Mitch Scott  
PO Box 30013  
Raleigh, NC 276220013

You are hereby notified that the Ohio Environmental Protection Agency has made a draft action recommending that the Director issue a Permit to Install for the air contaminant source(s) [emissions unit(s)] shown on the enclosed draft permit. This draft action is not an authorization to begin construction or modification of your emissions unit(s). The purpose of this draft is to solicit public comments on the proposed installation. A public notice concerning the draft permit will appear in the Ohio EPA Weekly Review and the newspaper in the county where the facility will be located. Public comments will be accepted by the field office within 30 days of the date of publication in the newspaper. Any comments you have on the draft permit should be directed to the appropriate field office within the comment period. A copy of your comments should also be mailed to Robert Hodanbosi, Division of Air Pollution Control, Ohio EPA, P.O. Box 1049, Columbus, OH, 43266-0149.

A Permit to Install may be issued in proposed or final form based on the draft action, any written public comments received within 30 days of the public notice, or record of a public meeting if one is held. You will be notified in writing of a scheduled public meeting. Upon issuance of a final Permit to Install a fee of **\$1450** will be due. Please do not submit any payment now.

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. If you have any questions about this draft permit, please contact the field office where you submitted your application, or Mike Ahern, Field Operations & Permit Section at (614) 644-3631.

Sincerely,

Michael W. Ahern, Manager  
Permit Issuance and Data Management Section  
Division of Air Pollution Control

CC: USEPA SEDO Brooke-Hancock-Jefferson Area Trans Study WV PA

**JEFFERSON COUNTY**

**PUBLIC NOTICE**

**ISSUANCE OF DRAFT PERMIT TO INSTALL 06-08084 FOR AN AIR CONTAMINANT SOURCE FOR  
Martin Marietta Materials Inc.**

On 4/4/2006 the Director of the Ohio Environmental Protection Agency issued a draft action of a Permit To Install an air contaminant source for **Martin Marietta Materials Inc.**, located at **Walden St., Tiltonsville, Ohio.**

Installation of the air contaminant source identified below may proceed upon final issuance of Permit To Install 06-08084:

**Material handling storage piles roadways and parking areas and diesel generator.**

Comments concerning this draft action, or a request for a public meeting, must be sent in writing to the address identified below no later than thirty (30) days from the date this notice is published. All inquiries concerning this draft action may be directed to the contact identified below.

Bruce Weinberg, Ohio EPA, Southeast District Office, 2195 Front Street, Logan, OH 43138 [(740)385-8501]



**Permit To Install  
Terms and Conditions**

**Issue Date: To be entered upon final issuance  
Effective Date: To be entered upon final issuance**

**DRAFT PERMIT TO INSTALL 06-08084**

Application Number: 06-08084  
Facility ID: 0641170264  
Permit Fee: **To be entered upon final issuance**  
Name of Facility: Martin Marietta Materials Inc.  
Person to Contact: Mitch Scott  
Address: PO Box 30013  
Raleigh, NC 276220013

Location of proposed air contaminant source(s) [emissions unit(s)]:

**Walden St.  
Tiltonsville, Ohio**

Description of proposed emissions unit(s):

**Material handling storage piles roadways and parking areas and diesel generator.**

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

**Martin Marietta Materials Inc.**  
**PTI Application: 06-08084**  
**Issued: To be entered upon final issuance**  
**Part I - GENERAL TERMS AND CONDITIONS**

**Facility ID: 0641170264**

## **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,

**Martin Marietta Materials Inc.**

**Facility ID: 0641170264**

**PTI Application: 06-08084**

**Issued: To be entered upon final issuance**

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

**Martin Marietta Materials Inc.**

**Facility ID: 0641170264**

**PTI Application: 06-08084**

**Issued: To be entered upon final issuance**

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 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

**Martin Marietta Materials Inc.**

**Facility ID: 0641170264**

**PTI Application: 06-08084**

**Issued: To be entered upon final issuance**

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

**Martin  
PTI A**

Emissions Unit ID: **F001**

**Issued: To be entered upon final issuance**

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.

**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	24.70
CO	5.70
SO <sub>2</sub>	4.20
PE	0.79
VOC	0.80

**Martin  
PTI A**

Emissions Unit ID: **F001**

**Issued: To be entered upon final issuance**

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

**A. Applicable Emissions Limitations and/or Control Requirements**

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
F001 - Material Handling - (8) Conveyers, (1) Hopper and Crane/Material Barges	OAC rule 3745-31-05(A)(3)	<p>Emissions shall not exceed:</p> <p>0.38 TPY of particulate emissions (PE);</p> <p>Visible particulate emissions shall not exceed 10% opacity as a three-minute average.</p> <p>The permittee shall implement best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.b through A.2.d).</p> <p>The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).</p> <p>The emission limitation specified by this rule is less stringent than the emission</p>
	OAC rule 3745-17-08 (B)	
	OAC rule 3745-17-07 (B)	

limitation established pursuant to OAC rule 3745-31-05(A)(3).

## **2. Additional Terms and Conditions**

- 2.a** The material handling operation(s) that are covered by this permit and subject to the above-mentioned requirements are listed below:

Barge Hopper  
 Portable Field Conveyor No. 1  
 Portable Field Conveyor No. 2  
 Portable Field Conveyor No. 3  
 Portable Field Conveyor No. 4  
 Portable Field Conveyor No. 5  
 Portable Field Conveyor No. 6  
 Portable Field Conveyor No. 7  
 Portable Field Conveyor No. 8  
 Conveyor Drop to Pile

- 2.b** The permittee shall employ best available control measures for the above-identified material handling operations 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 measures to ensure compliance:

material handling operations

control measure(s)

Barge Hopper  
 Portable Field Conveyor No. 1  
 Portable Field Conveyor No. 2  
 Portable Field Conveyor No. 3  
 Portable Field Conveyor No. 4  
 Portable Field Conveyor No. 5  
 Portable Field Conveyor No. 6  
 Portable Field Conveyor No. 7  
 Portable Field Conveyor No. 8  
 Conveyor Drop to Pile

Drop Height Reduction  
 Inherent Moisture Content

Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

**Martin****PTI A**Emissions Unit ID: **F001****Issued: To be entered upon final issuance**

- 2.c** The above-mentioned control measures shall be employed for each applicable material handling operation. If the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the above-mentioned control measures are not adequate to ensure compliance, additional control measures shall be required, such as watering. Any required implementation of control measures shall continue during any such operation until further observation confirms that use of the measure is unnecessary.
- 2.d** 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 rules 3745-17-08 and 3745-31-05.

**Martin**

**PTI A**

Emissions Unit ID: **F001**

**Issued: To be entered upon final issuance**

**B. Operational Restrictions**

1. The maximum annual throughput for this emissions unit shall not exceed 500,000 tons, based upon a rolling, 12 month summation of the throughput.

To ensure enforceability during the first 12 calendar months of operation or the first 12 calendar months following the issuance of this permit, the permittee shall not exceed the throughput specified in the following table:

<u>Month</u>	<u>Maximum Allowable Cumulative Throughput (tons)</u>
1	135,000
1-2	270,000
1-3	405,000
1-4	500,000
1-5	500,000
1-6	500,000
1-7	500,000
1-8	500,000
1-9	500,000
1-10	500,000
1-11	500,000
1-12	500,000

After the first 12 calendar months of operation or the first 12 calendar months following the issuance of this permit, compliance with the annual throughput limitation shall be based upon a rolling, 12 month summation of the throughput.

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

1. Except as otherwise provided in this section, for material handling operations that are not adequately enclosed, the permittee shall perform inspections of such operations in accordance with the following minimum frequencies:

<u>material handling operation(s)</u>	<u>minimum inspection frequency</u>
Barge Hopper	Daily
Portable Field Conveyor No. 1	Daily
Portable Field Conveyor No. 2	Daily

**Martin Marietta Materials Inc.**  
**PTI Application: 06 00001**  
**Issue**

**Facility ID: 0641170264**

**Emissions Unit ID: F001**

Portable Field Conveyor No. 3	Daily
Portable Field Conveyor No. 4	Daily
Portable Field Conveyor No. 5	Daily
Portable Field Conveyor No. 6	Daily
Portable Field Conveyor No. 7	Daily
Portable Field Conveyor No. 8	Daily
Conveyor Drop to Pile	Daily

2. The above-mentioned inspections shall be performed during representative, normal operating conditions.
3. The permittee shall maintain records of the following information:
  - a. the date and reason any required inspection was not performed;
  - 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.

The information in 3.d. shall be kept separately for each material handling operation identified above, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

4. The permittee shall maintain monthly records of the following information:
  - a. the throughput for each month; and
  - b. beginning after the first 12 calendar months of operation or the first 12 calendar months following the issuance of this permit, the rolling, 12 month summation of the throughput.

Also, during the first 12 calendar months of operation or the first 12 calendar months following the issuance of this permit, the permittee shall record the cumulative throughput for each calendar month.

## **D. Reporting Requirements**

**Issued: To be entered upon final issuance**

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; and
  - b. each instance when a control measure, that was to be performed as a result of an inspection, was not implemented.

The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

2. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 12 month throughput limitation; and for the first 12 calendar months of operation or the first 12 calendar months following the issuance of this permit, all exceedances of the maximum allowable cumulative throughput levels. These reports shall be submitted in accordance with the reporting requirements specified in Part 1 - General Terms and Conditions, Section A of this permit.

**E. Testing Requirements**

1. Compliance with the emission limitations specified in section A.1. of these terms and conditions shall be determined in accordance with the following methods:
  - a. Emission Limitation:  
0.38 TPY of PE

Applicable Compliance Method:

Compliance with the tons per year emission limitation shall be demonstrated using the emission factor from AP-42, Table 11.19.2-2, 09/1985 for a material transfer point (0.00014 lb/ton) and equation 1 from section 13.2.4.3, 01/1995 to determine emissions from material handling (0.0049 lb/ton using, mean wind speed (U) = 8.7 mph and material moisture content (M) = 2%) as shown in the following calculation.

$$((0.00014 \text{ lb/ton} * 500,000 \text{ tons/yr}) * 9(\text{transfer points})) / 2000 \text{ lb/ton} + (0.0049 \text{ lb/ton} * 500,000 \text{ tons/yr} * 0.05(\text{control efficiency of 95\%}) / 2000 \text{ lb/ton} = 0.376 \text{ tons/yr}$$

- b. Emissions Limitation:

**Martin  
PTI A**Emissions Unit ID: **F001****Issued: To be entered upon final issuance**

Visible particulate emissions shall not exceed 10% opacity as a three-minute average.

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with Method 9 of 40 CFR Part 60, Appendix A.

**F. Miscellaneous Requirements**

1. Pursuant to OAC rule 3745-31-03(A)(1)(p), the permittee of a portable emissions unit may relocate within the State of Ohio without first obtaining a permit to install (PTI) providing certain criteria are met. The portable emissions unit shall meet one of the two following scenarios in order to qualify for this PTI exemption for the new location:
  - a. The following determinations have been documented, pursuant to OAC rule 3745-31-03(A)(1)(p)(i):
    - i. the portable emissions unit is equipped with the best available technology for such portable emissions unit;
    - ii. the portable emissions unit is operating pursuant to a currently effective permit to operate (PTO) or registration status;
    - iii. the applicant has provided proper notice of intent to relocate the portable emissions unit to the Ohio EPA Southeast District Office and the appropriate field office having jurisdiction over the new site within a minimum of 30 days prior to the scheduled relocation; and
    - iv. in the Ohio EPA Southeast District Office's and the appropriate field office's (having jurisdiction over the new site) judgement, the proposed site is acceptable under OAC rule 3745-15-07.
  - a. In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee of a portable emissions unit may relocate within the State of Ohio without first obtaining a PTI, providing the following criteria of OAC rule 3745-31-05(E) are met:
    - i. the portable emissions unit permittee possesses an Ohio EPA PTI, PTO or registration status;
    - ii. the portable emissions unit is equipped with best available technology;

Emissions Unit ID: **F001**

- iii. the portable emissions unit owner has identified the proposed site to Ohio EPA;
- iv. Ohio EPA has determined that the portable emissions unit, at the proposed site, will have an acceptable environmental impact;
- v. a public notice, consistent with OAC Chapter 3745-47, is published in the county where the proposed site is located;
- vi. the owner of the proposed site has provided the portable emissions unit owner with approval or equivalent declaration that it is acceptable to the site owner to move the portable emissions unit to this proposed site; and
- vii. the portable emissions unit owner has provided Ohio EPA with 15 days written notice of the relocation.

Any site approvals issued by the Ohio EPA, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), shall be valid for no longer than 3 years and are subject to renewal.

In order for the Ohio EPA Southeast District Office and the appropriate field office having jurisdiction over the new site to determine compliance with all of the above criteria, the permittee of the portable or mobile emissions unit must file a " Notice of Intent to Relocate", within the specified time frame (30 or 15 days) prior to the relocation of the emissions unit with the Ohio EPA Southeast District Office and the appropriate field office having jurisdiction over the new site. Upon receipt of the notice, the Ohio EPA Southeast District Office, and/or appropriate field office having jurisdiction over the new site, will evaluate the request in accordance with the above criteria.

Failure to submit said notification and to receive Ohio EPA approval prior to relocation of the emissions unit may result in fines and civil penalties.

Pursuant to OAC rule 3745-31-05(F), the Director may modify the site approval to add or delete certain portable sources or add or delete certain terms and conditions as appropriate.



**Martin**

**PTI A**

Emissions Unit ID: **P001**

**Issued: To be entered upon final issuance**

Applicable Emissions Limitations/Control Measures

Emissions shall not exceed:

2.78 pounds per hour (lbs/hr) of sulfur dioxide (SO<sub>2</sub>);

16.45 lbs/hr of nitrogen oxides (NO<sub>x</sub>);

0.49 lb/hr of volatile organic compounds (VOC); and

3.77 lbs/hr of carbon monoxide (CO).

The requirements of this rule also include compliance with the requirements of OAC rules 3745-35-07(B), 3745-17-11(B)(5)(b) and 3745-17-07(A).

Emissions shall not exceed the following, as a rolling, 12-month summation:

4.20 tons SO<sub>2</sub>  
 24.70 tons NO<sub>x</sub>  
 0.80 ton VOC  
 5.70 tons CO  
 0.41 ton particulate emissions (PE)

See Section B.2 below.

Emissions shall not exceed 0.35 lb PE/million BTU of actual heat input. See Section A.2.a

below.

Emissions shall not exceed 0.062 lb PE/million BTU of actual heat input. See Section A.2.b below.

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

Exempt. See Section A.2.c below.

See Section A.2.d below.

See Section A.2.e below.

**2. Additional Terms and Conditions**

- 2.a** The requirement to comply with this particulate emission limitation shall terminate on the date the U.S. EPA approves the 0.062 lb/million Btu actual heat input emission limitation as a revision to the Ohio SIP for particulate matter.
- 2.b** This particulate emission limitation shall be effective and federally enforceable on the date the U.S. EPA approves this particulate emission limitation as a revision to the Ohio SIP for particulate matter.
- 2.c** This emissions unit is exempt from the requirements of OAC rule 3745-18-06(G) pursuant to OAC rule 3745-18-06(B).
- 2.d** The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in this Permit to Install.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

- 2.e** The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in this Permit to Install.

On February 15, 2005, OAC rule 3745-23-06 was rescinded; therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the U.S. EPA approves the revision, the requirement to satisfy the "latest available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

**B. Operational Restrictions**

1. The permittee shall only burn No. 2 fuel oil or diesel fuel, containing no greater than

**Martin  
PTI A**

Emissions Unit ID: **P001**

**Issued: To be entered upon final issuance**

0.5% sulfur by weight, in this emissions unit.

2. The maximum fuel usage for emissions unit P001 shall not exceed 96,600 gallons as a rolling 12-month summation. To ensure enforceability during the first 12 calendar months of operation following the issuance of this permit, the permittee shall not exceed the fuel usage specified in the following table:

<u>Month(s)</u>	<u>Maximum Cumulative Fuel Usage (gallons)</u>
1-1	19,200
1-2	38,400
1-3	57,600
1-4	76,800
1-5	96,000
1-6	96,600
1-7	96,600
1-8	96,600
1-9	96,600
1-10	96,600
1-11	96,600
1-12	96,600

After the first 12 calendar months of operation following the startup of emissions unit P001, compliance with the annual fuel usage limitation shall be based upon a rolling 12-month summation of the fuel usage.

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

1. The permittee shall maintain documentation on the sulfur content, in percent by weight, of all fuels received.
2. For each day during which the permittee burns a fuel other than No. 2 fuel oil or diesel fuel, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
3. The permittee shall maintain monthly records of the following information for P001:
  - a. the fuel usage, in gallons, for each month;
  - b. the heat content, in BTU/gallon, for all fuels received;

- c. during the first 12 calendar months of operation following the issuance of this permit, the cumulative fuel usage, calculated by adding the current month's fuel usage to the fuel usage for each calendar month since the issuance of this permit; and
- d. beginning after the first 12 calendar months of operation following the issuance of this permit, the rolling 12-month summation of the fuel usage, calculated by adding the current month's fuel usage to the fuel usage for the preceding eleven calendar months.

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

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than No. 2 fuel oil or diesel fuel was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
2. The permittee shall submit quarterly deviation (excursion) reports which identify the following:
  - a. for the first 12 calendar months of operation following the issuance of this permit, all exceedances of the maximum allowable cumulative fuel usage;
  - b. any exceedance of the rolling 12-month fuel usage limitation; and
  - c. any exceedance of the sulfur content fuel restriction specified in Section B.1.

These deviation (excursion) reports shall be submitted in accordance with Section A.2 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. Emissions Limitation:  
Emissions shall not exceed 2.78 lbs/hr SO<sub>2</sub>.

Issued: To be entered upon final issuance

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the emission factor from AP-42, Table 3.4-1, 10/1996 (0.004045 lb/HP-hr) by the maximum rated capacity of P001 (688 HP).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1-4 and 6 of 40 CFR Part 60, Appendix A.

b. Emissions Limitation:

Emissions shall not exceed 4.20 tons SO<sub>2</sub> as a rolling 12-month summation.

Applicable Compliance Method:

Compliance shall be demonstrated by utilizing the summation of the fuel usage (gallons) for each month in the rolling 12-month period and the emission factor from AP-42, Table 3.4-1, 10/1996 (0.004045 lb/HP-hr) as shown in the equation below.

$$(0.0005 \text{ ton/lb})(\text{fuel use, gal/yr})(\text{emission factor, lb SO}_2\text{/HP-hr})(\text{rated capacity, HP})(\text{fuel heat content, million BTU/gal}) / (\text{rated capacity, million BTU/hr}) = \text{ton SO}_2\text{/yr}$$

c. Emissions Limitation:

Emissions shall not exceed 16.45 lbs/hr NO<sub>x</sub>.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the emission factor from AP-42, Table 3.4-1, 10/1996 (0.024 lb/HP-hr) by the maximum rated capacity of P001 (685 HP).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1-4 and 7 of 40 CFR Part 60, Appendix A.

d. Emissions Limitation:

Emissions shall not exceed 24.70 tons NO<sub>x</sub> as a rolling 12-month summation.

Applicable Compliance Method:

Compliance shall be demonstrated by utilizing the summation of the fuel usage (gallons) for each month in the rolling 12-month period and the emission factor

**Martin  
PTI A**Emissions Unit ID: **P001****Issued: To be entered upon final issuance**

from AP-42, Table 3.4-1, 10/1996 (0.024 lb/HP-hr) as shown in the equation below.

$$(0.0005 \text{ ton/lb})(\text{fuel use, gal/yr})(\text{emission factor, lb NOx/HP-hr})(\text{rated capacity, HP})(\text{fuel heat content, million BTU/gal}) / (\text{rated capacity, million BTU/hr}) = \text{ton NOx/yr}$$

- e. Emissions Limitation:  
Emissions shall not exceed 0.49 lb/hr VOC.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the emission factor from AP-42, Table 3.4-1, 10/1996 (0.000705 lb/HP-hr) by the maximum rated capacity of P001 (685 HP).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1-4 and 25A of 40 CFR Part 60, Appendix A.

- f. Emissions Limitation:  
Emissions shall not exceed 0.80 ton VOC as a rolling 12-month summation.

Applicable Compliance Method:

Compliance shall be demonstrated by utilizing the summation of the fuel usage (gallons) for each month in the rolling 12-month period and the emission factor from AP-42, Table 3.4-1, 10/1996 (0.000705 lb/HP-hr) as shown in the equation below.

$$(0.0005 \text{ ton/lb})(\text{fuel use, gal/yr})(\text{emission factor, lb VOC/HP-hr})(\text{rated capacity, HP})(\text{fuel heat content, million BTU/gal}) / (\text{rated capacity, million BTU/hr}) = \text{ton VOC/yr}$$

- g. Emissions Limitation:  
Emissions shall not exceed 3.77 lbs/hr CO.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the emission factor from AP-42, Table 3.4-1, 10/1996 (0.85 lb/million BTU) by the maximum rated capacity of P001 (4.411 million BTU/hr).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1-4

**Martin Marietta Materials Inc.**  
**PTI Application: 06 00001**  
**Issue**

**Facility ID: 0641170264**

**Emissions Unit ID: P001**

and 10 of 40 CFR Part 60, Appendix A.

- h. Emissions Limitation:  
Emissions shall not exceed 5.70 tons CO as a rolling 12-month summation.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the summation of [the fuel usage (gallons) multiplied by the heat content (BTU/gallon)] for each month in the rolling 12-month period by the emission factor from AP-42, Table 3.4-1, 10/1996 (0.85 lb/million BTU) and multiplying by  $1 \times 10^{-6}$  million BTU/BTU, and dividing by 2000 lb/ton.

- i. Emissions Limitation:  
0.35 lb PE/million BTU of actual heat input.

**Martin****PTI A**Emissions Unit ID: **P001****Issued: To be entered upon final issuance**Applicable Compliance Method:

Compliance shall be determined based on the emission factor of 0.062 lb/million Btu specified in AP-42, Table 3.4-2, 10/1996. Note that Ohio EPA has revised the emission limitation specified in OAC rule 3745-17-11(B)(5)(b) based upon the currently applicable emission factor. The revised rule was adopted by the Director of Ohio EPA in December of 1997, and it will be submitted to the U.S. EPA as a proposed revision to the Ohio SIP for particulate matter. When the SIP revision is approved by the U.S. EPA, the 0.35 lb/million BTU actual heat input emission limitation will no longer be applicable.

j. Emissions Limitation:

0.062 lb PE/million BTU of actual heat input.

Applicable Compliance Method:

Compliance shall be determined based on the emission factor of 0.062 lb/million BTU specified in AP-42, Table 3.4-2, 10/1996.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in Methods 1-5 of 40 CFR Part 60, Appendix A.

k. Emissions Limitation:

Emissions shall not exceed 0.41 ton PE as a rolling 12-month summation.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the summation of [the fuel usage (gallons) multiplied by the heat content (BTU/gallon)] for each month in the rolling 12-month period by the emission factor from AP-42, Table 3.4-2, 10/1996 (0.062 lb/million BTU) and multiplying by  $1 \times 10^{-6}$  million BTU/BTU, and dividing by 2000 lb/ton.

l. Emissions Limitation:

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

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with Method 9 of 40 CFR Part 60, Appendix A.

**F. Miscellaneous Requirements**

**Martin****PTI A**Emissions Unit ID: **P001****Issued: To be entered upon final issuance**

1. Pursuant to OAC rule 3745-31-03(A)(1)(p), the permittee of a portable emissions unit may relocate within the State of Ohio without first obtaining a permit to install (PTI) providing certain criteria are met. The portable emissions unit shall meet one of the two following scenarios in order to qualify for this PTI exemption for the new location:

g. The following determinations have been documented, pursuant to OAC rule 3745-31-03(A)(1)(p)(i):

- i. the portable emissions unit is equipped with the best available technology for such portable emissions unit;
- ii. the portable emissions unit is operating pursuant to a currently effective permit to operate (PTO) or registration status;
- iii. the applicant has provided proper notice of intent to relocate the portable emissions unit to the Ohio EPA Southeast District Office and the appropriate field office having jurisdiction over the new site within a minimum of 30 days prior to the scheduled relocation; and
- iv. in the Ohio EPA Southeast District Office's and the appropriate field office's (having jurisdiction over the new site) judgement, the proposed site is acceptable under OAC rule 3745-15-07.

a. In the alternative, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), the permittee of a portable emissions unit may relocate within the State of Ohio without first obtaining a PTI, providing the following criteria of OAC rule 3745-31-05(E) are met:

- i. the portable emissions unit permittee possesses an Ohio EPA PTI, PTO or registration status;
- ii. the portable emissions unit is equipped with best available technology;
- iii. the portable emissions unit owner has identified the proposed site to Ohio EPA;
- iv. Ohio EPA has determined that the portable emissions unit, at the proposed site, will have an acceptable environmental impact;
- v. a public notice, consistent with OAC Chapter 3745-47, is published in the county where the proposed site is located;

- vi. the owner of the proposed site has provided the portable emissions unit owner with approval or equivalent declaration that it is acceptable to the site owner to move the portable emissions unit to this proposed site; and
- vii. the portable emissions unit owner has provided Ohio EPA with 15 days written notice of the relocation.

Any site approvals issued by the Ohio EPA, pursuant to OAC rule 3745-31-03(A)(1)(p)(ii), shall be valid for no longer than 3 years and are subject to renewal.

In order for the Ohio EPA Southeast District Office and the appropriate field office having jurisdiction over the new site to determine compliance with all of the above criteria, the permittee of the portable or mobile emissions unit must file a " Notice of Intent to Relocate", within the specified time frame (30 or 15 days) prior to the relocation of the emissions unit with the Ohio EPA Southeast District Office and the appropriate field office having jurisdiction over the new site. Upon receipt of the notice, the Ohio EPA Southeast District Office, and/or appropriate field office having jurisdiction over the new site, will evaluate the request in accordance with the above criteria.

Failure to submit said notification and to receive Ohio EPA approval prior to relocation of the emissions unit may result in fines and civil penalties.

Pursuant to OAC rule 3745-31-05(F), the Director may modify the site approval to add or delete certain portable sources or add or delete certain terms and conditions as appropriate.