

AIR EMISSION PERMIT NO. 14500029-003
Major Amendment

IS ISSUED TO

Martin Marietta Materials Inc.

MARTIN MARIETTA MATERIALS - SAINT CLOUD QUARRY
1450 Division Street West
Waite Park, Stearns County, Minnesota 56387

The emission units, control equipment and emission stacks at the stationary source authorized in this permit amendment are as described in the Permit Applications Table.

This permit amendment supersedes Air Emission Permit No. 14500029-002, and authorizes the Permittee to operate and construct the stationary source at the address listed above unless otherwise noted in Table A. The Permittee must comply with all the conditions of the permit. Any changes or modifications to the stationary source must be performed in compliance with Minn. R. 7007.1150 to 7007.1500. Terms used in the permit are as defined in the state air pollution control rules unless the term is explicitly defined in the permit.

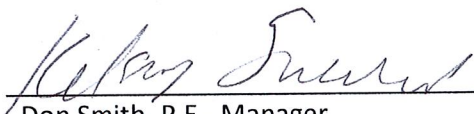
Unless otherwise indicated, all the Minnesota rules cited as the origin of the permit terms are incorporated into the SIP under 40 CFR § 52.1220 and as such as are enforceable by U.S. Environmental Protection Agency (EPA) Administrator or citizens under the Clean Air Act.

Permit Type: State Permit; Limits to Avoid Pt 70/Limits to Avoid NSR;

Operating Permit Issue Date: February 27, 1997

Major Amendment Issue Date: September 16, 2014

Expiration Date: Permit does not expire – Title I Conditions do not expire.

for 
Don Smith, P.E., Manager
Air Quality Permits Section
Industrial Division

for John Linc Stine
Commissioner
Minnesota Pollution Control Agency

Permit Applications Table

Permit Type	Application Date	Permit Action
Total Facility Operating Permit	6/15/1996	001
Major Amendment	9/19/2011	002
Major Amendment	4/02/2014	003

TABLE OF CONTENTS

Notice to the Permittee

Permit Shield

Facility Description

Amendment Description

Table A: Limits and Other Requirements

Table B: Submittals

Appendices:

Appendix I – Weather Summary Criteria

Appendix II – Insignificant Activities Required to be Listed

Appendix III – NM-EQ [modified] NSPS Equipment Description and Notification

Appendix IV Emission Units Authorized to be Constructed

NOTICE TO THE PERMITTEE:

Your stationary source may be subject to the requirements of the Minnesota Pollution Control Agency's (MPCA) solid waste, hazardous waste, and water quality programs. If you wish to obtain information on these programs, including information on obtaining any required permits, please contact the MPCA general information number at:

Metro Area	651-296-6300
Outside Metro Area	1-800-657-3864
TTY	651-282-5332

The rules governing these programs are contained in Minn. R. chs. 7000-7105. Written questions may be sent to: Minnesota Pollution Control Agency, 520 Lafayette Road North, St. Paul, Minnesota 55155-4194.

Questions about this air emission permit or about air quality requirements can also be directed to the telephone numbers and address listed above.

PERMIT SHIELD:

Subject to the limitations in Minn. R. 7007.1800, compliance with the conditions of this permit shall be deemed compliance with the specific provision of the applicable requirement identified in the permit as the basis of each condition. Subject to the limitations of Minn. R. 7007.1800 and 7017.0100, subp. 2, notwithstanding the conditions of this permit specifying compliance practices for applicable requirements, any person (including the Permittee) may also use other credible evidence to establish compliance or noncompliance with applicable requirements.

FACILITY DESCRIPTION:

The facility is a non-metallic mineral processing facility that produces crushed and broken granite. Emissions are mainly particulate matter (PM), particulate matter smaller than 10 microns (PM₁₀), and particulate matter smaller than 2.5 microns (PM_{2.5}). Emission sources are crushers, screens, conveyors, product handling and stockpiling, and paved and unpaved roads. Emissions are controlled by natural moisture content, rainfall, or the application of water or other dust suppressant when necessary. Nonroad engines may also be present at the facility.

AMENDMENT 14500029-002 DESCRIPTION:

This was a major amendment to a non-expiring federally enforceable state operating permit. The amendment authorized an increase in the production limit from 1.8 million tons per year to 2.0 million tons per year. In addition, the amendment recorded the 2005 removal of the dryer and associated cyclone, and updated the standard template language to current format.

AMENDMENT 14500029-003 DESCRIPTION:

This is a major amendment to a non-expiring federally enforceable state operating permit. Construction of emission units EUs 797 – 836 is authorized through this permit action. Martin Marietta Materials –Saint Cloud Quarry (MMM) is increasing the facility annual production limit from 2,000,000 tons per year to 3,500,000 tons per year based on a 12-month rolling sum. In addition, MMM is increasing the facility annual fines production limit from 50,000 tons per year to 100,000 tons per year also based on a 12-month rolling sum and increasing the maximum number of crushers in operation at any time from 10 to 15. The production increases will also increase truck traffic volumes. The main pollutants of concern from the changes incorporated in this amendment are PM, PM₁₀, and PM_{2.5}.

For this permit action, MMM also is incorporating National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, 40 CFR pt. 63, subp. ZZZZ and New Source Performance Standards for Stationary Compression Ignition Internal Combustion Engines, 40 CFR pt. 60, subp. IIII. EU 797 is an engine rented by the Permittee each calendar year. EU 797 is not a nonroad engine because the engine remains at a location for more than 12 consecutive months or a shorter period of time for an engine located at a seasonal source. EU 797 is an engine located at MMM, a seasonal source. A location is any single site at a building, structure, facility, or installation. Any engine that replaces an engine at a location and that is intended to perform the same or similar function as the engine replaced will be included in calculating the consecutive time period.

This major amendment also includes an administrative amendment received on July 6, 2001 for change in ownership and facility name change. The facility name has been changed from Martin Marietta Aggregates – Saint Cloud Quarry to Martin Marietta Materials – Saint Cloud Quarry.

TABLE A: LIMITS AND OTHER REQUIREMENTS

A-1 09/15/14

Facility Name: Martin Marietta Materials - Saint Cloud Quarry

Permit Number: 14500029 - 003

Table A contains limits and other requirements with which your facility must comply. The limits are located in the first column of the table (What To do). The limits can be emission limits or operational limits. This column also contains the actions that you must take and the records you must keep to show that you are complying with the limits. The second column of Table A (Why to do it) lists the regulatory basis for these limits. Appendices included as conditions of your permit are listed in Table A under total facility requirements.

Subject Item: Total Facility

What to do	Why to do it
PRODUCTION LIMITS AND OPERATING REQUIREMENTS	hdr
The following production limits and operating requirements apply to all units at the facility location, and not only to those units owned and operated by the Permittee.	Title I Condition: to avoid classification as major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; To avoid major source classification under 40 CFR Section 70.2 and Minn. R. 7007.0200
Production: less than or equal to 3500000 tons/year using 12-month Rolling Sum of crushed stone (excluding fines), calculated by the last day of the month for the previous 12-month period.	Title I Condition: to avoid classification as major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; To avoid major source classification under 40 CFR Section 70.2 and Minn. R. 7007.0200
Production: less than or equal to 100000 tons/year using 12-month Rolling Sum of crushed fines, calculated by the last day of the month for the previous 12-month period. "Fines crushing" is defined as the crushing of material to a maximum size of 3/16 inch or smaller.	Title I Condition: to avoid classification as major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; To avoid major source classification under 40 CFR Section 70.2 and Minn. R. 7007.0200
Number of Units in Operation at any time on site at the facility shall be limited to a maximum of: 15 crushers 20 screens 100 transfer points (this includes fugitive transfer points). Equipment in storage that is not operative or is being repaired is not subject to this equipment limitation requirement.	Title I Condition: to avoid classification as major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; To avoid major source classification under 40 CFR Section 70.2 and Minn. R. 7007.0200
Feed material moisture content: Greater than or equal to 1.5 percent (by weight).	Title I Condition: to avoid classification as major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; To avoid major source classification under 40 CFR Section 70.2 and Minn. R. 7007.0200
The Permittee shall not install or operate any equipment at the stationary source which is an affected facility under any New Source Performance Standard (NSPS) under 40 CFR pt. 60 other than 40 CFR pt. 60, subp. OOO and subp. Kb. The Permittee shall comply with any applicable requirements of subps. OOO and Kb. If the Permittee wishes to install or operate any equipment subject to NSPS other than subps. OOO and/or Kb, the Permittee shall apply for and obtain an amendment to this permit to authorize the installation and/or operation.	Minn. Stat. 116.07, subp. 4a; Minn. R. 7007.0800, subp. 2
SOURCE-SPECIFIC REQUIREMENTS	hdr
The Permittee is authorized to install and operate EUs 797 - 836 as defined by the emissions unit information in Appendix IIII of this permit, within 18 months after permit issuance of Permit No. 14500029-003. The units shall meet all the requirements of this permit.	Title I Condition: to avoid classification as major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; To avoid major source classification under 40 CFR Section 70.2 and Minn. R. 7007.0200
Permit Appendices: This permit contains appendices as listed in the permit Table of Contents. The Permittee shall comply with all requirements contained in the appendices.	Minn. R. 7007.0800, subp. 2
OPERATIONAL REQUIREMENTS	hdr
Circumvention: Do not install or use a device or means that conceals or dilutes emissions, which would otherwise violate a federal or state air pollution control rule, without reducing the total amount of pollutant emitted.	Minn. R. 7011.0020
Air Pollution Control Equipment: Operate all pollution control equipment whenever the corresponding process equipment and emission units are operated.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 16(J)

TABLE A: LIMITS AND OTHER REQUIREMENTS**A-2**

09/15/14

Facility Name: Martin Marietta Materials - Saint Cloud Quarry

Permit Number: 14500029 - 003

Operation and Maintenance Plan: Retain at the stationary source an operation and maintenance plan for all air pollution control equipment. At a minimum, the O & M plan shall identify all air pollution control equipment and control practices and shall include a preventative maintenance program for the equipment and practices, a description of (the minimum but not necessarily the only) corrective actions to be taken to restore the equipment and practices to proper operation to meet applicable permit conditions, a description of the employee training program for proper operation and maintenance of the control equipment and practices, and the records kept to demonstrate plan implementation.	Minn. R. 7007.0800, subps. 14 and 16(J)
Operation Changes: In any shutdown, breakdown, or deviation the Permittee shall immediately take all practical steps to modify operations to reduce the emission of any regulated air pollutant. The Commissioner may require feasible and practical modifications in the operation to reduce emissions of air pollutants. No emissions units that have an unreasonable shutdown or breakdown frequency of process or control equipment shall be permitted to operate.	Minn. R. 7019.1000, subp. 4
Fugitive Emissions: Do not cause or permit the handling, use, transporting, or storage of any material in a manner which may allow avoidable amounts of particulate matter to become airborne. Comply with all other requirements listed in Minn. R. 7011.0150.	Minn. R. 7011.0150
Noise: The Permittee shall comply with the noise standards set forth in Minn. R. 7030.0010 to 7030.0080 at all times during the operation of any emission units. This is a state only requirement and is not enforceable by the EPA Administrator or citizens under the Clean Air Act.	Minn. R. 7030.0010 - 7030.0080
Inspections: The Permittee shall comply with the inspection procedures and requirements as found in Minn. R. 7007.0800, subp. 9(A).	Minn. R. 7007.0800, subp. 9(A)
The Permittee shall comply with the General Conditions listed in Minn. R. 7007.0800, subp. 16.	Minn. R. 7007.0800, subp. 16
MONITORING REQUIREMENTS	hdr
<p>Feed Material Moisture Content Monitoring (part 1):</p> <p>Demonstrate that all feed material moisture content is at least 1.5 percent by either method 1 or 2 below:</p> <p>1. Test moisture content of each different feed material source (sampled at an area representative of the feed source and physically capable of being sampled), as follows:</p> <ul style="list-style-type: none"> a. Use American Society for Testing and Materials (ASTM) method numbers D 2216-92 or D 4643-93 (or equivalent). b. Keep records of each moisture content test summarizing the method used, results, date, time, and initials of person performing test. c. Test weekly, when operating, unless three consecutive tests at the stationary source location show moisture contents of greater than or equal to 1.5 percent after which testing is no longer required until the source of the feed material changes. 	<p>Title I Condition: to avoid classification as major source under 40 CFR Section 52.21 and Minn. R. 7007.3000;</p> <p>To avoid major source classification under 40 CFR Section 70.2</p>
<p>Feed Material Moisture Content Monitoring (part 2):</p> <p>d. When testing indicates feed material moisture content is less than 1.5 percent, or in situations where it is infeasible to sample and test, or where the Permittee elects not to sample and test, the Permittee must operate a moisture addition device at or immediately prior to the initial crusher(s) or initial screen(s) where unprocessed feed material is being fed to achieve a moisture content greater than or equal to 1.5 percent. Moisture addition during operation shall continue until subsequent moisture content testing demonstrates feed material moisture content is greater than or equal to 1.5 percent.</p> <p>On each operating day, either:</p> <ul style="list-style-type: none"> (i) keep records of the date, water flow rate, material throughput rate, and initials of the person making the record and the time the record was made; or, 	<p>Title I Condition: to avoid classification as major source under 40 CFR Section 52.21 and Minn. R. 7007.3000;</p> <p>To avoid major source classification under 40 CFR Section 70.2</p>

TABLE A: LIMITS AND OTHER REQUIREMENTS**A-3** 09/15/14

Facility Name: Martin Marietta Materials - Saint Cloud Quarry

Permit Number: 14500029 - 003

<p>Feed Material Moisture Content Monitoring (part 3):</p> <p>(ii) conduct moisture content testing daily on the feed material after water application following items a. and b. above, and if results show moisture content is less than 1.5 percent, increase water addition to ensure moisture is 1.5 percent or greater and re-test to verify.</p> <p>OR</p> <p>2. Keep records indicating that feed material is being removed from below the water table - or from below the surface of a waterway (e.g., creek, river, lake) - or that the feed material is recycled asphalt pavement. Records shall include a description of the source (if recycled asphalt pavement, so indicate), the corresponding dates, and the initials of the person making the record.</p>	<p>Title I Condition: to avoid classification as major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; To avoid major source classification under 40 CFR Section 70.2</p>
<p>Monitoring Equipment Calibration - The Permittee shall either:</p> <p>1. Calibrate or replace required monitoring equipment every 12 months; or</p> <p>2. Calibrate at the frequency stated in the manufacturer's specifications.</p> <p>For each monitor, the Permittee shall maintain a record of all calibrations, including the date conducted, and any corrective action that resulted. The Permittee shall include the calibration frequencies, procedures, and manufacturer's specifications (if applicable) in the Operations and Maintenance Plan. Any requirements applying to continuous emission monitors are listed separately in this permit.</p>	<p>Minn. R. 7007.0800, subp. 4(D)</p>
<p>Operation of Monitoring Equipment: Unless otherwise noted in Tables A and/or B, monitoring a process or control equipment connected to that process is not necessary during periods when the process is shutdown, or during checks of the monitoring systems, such as calibration checks and zero and span adjustments. If monitoring records are required, they should reflect any such periods of process shutdown or checks of the monitoring system.</p>	<p>Minn. R. 7007.0800, subp. 4(D)</p>
RECORDKEEPING	hdr
<p>Recordkeeping - Crushing:</p> <p>1. Once each day, record the tons of daily crushing production for the previous calendar day;</p> <p>2. By the last day of each month, calculate and record the monthly crushing production, in tons, during the previous calendar month based on daily production records;</p> <p>3. By the last day of each month, calculate and record the 12-month rolling sum crushing production for the previous 12-month period by summing the monthly production records for the previous 12 months.</p> <p>Daily records must indicate the production date, production quantity (tons), and material processed or produced.</p>	<p>Title I Condition: to avoid classification as major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; To avoid major source classification under 40 CFR Section 70.2</p>
<p>Recordkeeping - Fines Crushing:</p> <p>1. Once each day, record the tons of daily fines crushing production for the previous calendar day;</p> <p>2. By the last day of each month, calculate and record the monthly fines crushing production, in tons, during the previous calendar month based on daily production records;</p> <p>3. By the last day of each month, calculate and record the 12-month rolling sum fines crushing production for the previous 12-month period by summing the monthly production records for the previous 12 months.</p> <p>Daily records must indicate the production date, production quantity (tons), and material processed or produced.</p>	<p>Title I Condition: to avoid classification as major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; To avoid major source classification under 40 CFR Section 70.2</p>
<p>Maintain records indicating the number and type of equipment in operation at the stationary source at any time. A new record is required on each date that any change is made to the type and/or number of equipment at the stationary source. Equipment in storage that is not operative or is being repaired is not subject to this equipment recordkeeping requirement.</p>	<p>Title I Condition: to avoid classification as major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; To avoid major source classification under 40 CFR Section 70.2</p>

TABLE A: LIMITS AND OTHER REQUIREMENTS**A-4** 09/15/14

Facility Name: Martin Marietta Materials - Saint Cloud Quarry

Permit Number: 14500029 - 003

Labeling of Process Equipment: Permanently affix the manufacturer's serial number (or otherwise unique identifying number) to each piece of crushing, screening, transfer operation, and stationary internal combustion engine equipment for tracking purposes within 60 days of permit issuance. The number shall be permanently affixed and maintained so that it is readable and visible at all times from a safe distance. This number shall correspond to the number contained in records regarding the piece of equipment.	Minn. Stat. 116.07, subp. 4a; Minn. R. 7007.0800, subp. 2; Minn. R. 7007.1100
If applicable, keep records indicating that feed material is being removed from below the water table - or from below the surface of a waterway (e.g., creek, river, lake) - or that the feed material is recycled asphalt pavement. Records shall include a description of the source, the corresponding dates, and the initials of the person making the record. If feed material is removed from below the water table or below the surface of a waterway, then testing for moisture content or moisture addition is not required.	Title I Condition: to avoid classification as major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; To avoid major source classification under 40 CFR Section 70.2
Recordkeeping: Retain all records at the stationary source, unless otherwise specified within this permit, for a period of five (5) years from the date of monitoring, sample, measurement, or report. Records which must be retained at this location include all calibration and maintenance records, all original recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. Records must conform to the requirements listed in Minn. R. 7007.0800, subp. 5(A).	Minn. R. 7007.0800, subp. 5(C)
Recordkeeping: Maintain records describing any insignificant modifications (as required by Minn. R. 7007.1250, subp. 3) or changes contravening permit terms (as required by Minn. R. 7007.1350, subp. 2), including records of the emissions resulting from those changes. The Permittee is not required to keep these records for changes in number of process units in operation at any time, as long as the number of units remain limited to those approved in this permit, as listed above.	Minn. R. 7007.0800, subp. 5(B)
If the Permittee determines that no permit amendment or notification is required prior to making a change, the Permittee must retain records of all calculations required under Minn. R. 7007.1200. For nonexpiring permits, these records shall be kept for a period of five years from the date that the change was made. The records shall be kept at the stationary source for the current calendar year of operation and may be kept at the stationary source or office of the stationary source for all other years. The records may be maintained in either electronic or paper format.	Minn. R. 7007.1200, subp. 4
REPORTING/SUBMITTALS	hdr
NSPS Equipment Description and Notification: When additional equipment is added to the Permittee's operations, an NSPS Equipment Description and Notification must be submitted on a form approved by the Commissioner and/or a record must be made as described below. The NSPS Equipment Description and Notification form (NM-EQ [modified] in Appendix B of this permit) shall be used to provide the required NSPS notifications. All NSPS affected facilities owned or operated by the Permittee must be accounted for in the NSPS Equipment Description and Notification form submitted at the time of permit application or in these subsequent updates. If a piece of equipment is not subject to NSPS, the Permittee must keep records to demonstrate that it did not need to be included in a notification.	Minn. Stat. 116.07, subp. 4a; Minn. R. 7007.0800, subp. 2; Minn. R. 7007.1100.
Shutdown Notifications: Notify the Commissioner at least 24 hours in advance of a planned shutdown of any control equipment or process equipment if the shutdown would cause any increase in the emissions of any regulated air pollutant. If the Permittee does not have advance knowledge of the shutdown, notification shall be made to the Commissioner as soon as possible after the shutdown. However, notification is not required in the circumstances outlined in Items A and B of Minn. R. 7019.1000, subp. 3. At the time of notification, the Permittee shall inform the Commissioner of the cause of the shutdown and the estimated duration. The Permittee shall notify the Commissioner when the shutdown is over.	Minn. R. 7019.1000, subp. 3
Breakdown Notifications: Notify the Commissioner within 24 hours of a breakdown of more than one hour duration of any control equipment or process equipment if the breakdown causes any increase in the emissions of any regulated air pollutant. The 24-hour time period starts when the breakdown was discovered or reasonably should have been discovered by the Permittee. However, notification is not required in the circumstances outlined in Items A and B of Minn. R. 7019.1000, subp. 2. At the time of notification or as soon as possible thereafter, the Permittee shall inform the Commissioner of the cause of the breakdown and the estimated duration. The Permittee shall notify the Commissioner when the breakdown is over.	Minn. R. 7019.1000, subp. 2

TABLE A: LIMITS AND OTHER REQUIREMENTS**A-5**

09/15/14

Facility Name: Martin Marietta Materials - Saint Cloud Quarry

Permit Number: 14500029 - 003

Notification of Deviations Endangering Human Health or the Environment: As soon as possible after discovery, notify the Commissioner or the state duty officer, either orally or by facsimile, of any deviation from permit conditions which could endanger human health or the environment.	Minn. R. 7019.1000, subp. 1
Notification of Deviations Endangering Human Health or the Environment Report: Within 2 working days of discovery, notify the Commissioner in writing of any deviation from permit conditions which could endanger human health or the environment. Include the following information in this written description: 1. the cause of the deviation; 2. the exact dates of the period of the deviation, if the deviation has been corrected; 3. whether or not the deviation has been corrected; 4. the anticipated time by which the deviation is expected to be corrected, if not yet corrected; and 5. steps taken or planned to reduce, eliminate, and prevent reoccurrence of the deviation.	Minn. R. 7019.1000, subp. 1
Fugitive Emissions Control Plan: The Permittee shall submit to the Commissioner and implement a fugitive emissions control plan within 60 days of the date of permit issuance. The plan shall identify all fugitive emission sources, primary and contingent control measures, and record keeping. The Permittee shall follow the actions and record keeping specified in the control plan. If the Commissioner determines the Permittee is out of compliance with Minn. R. 7011.0150 or the fugitive emission control plan, then the Permittee may be required to amend the control plan and/or to install and operate particulate matter ambient monitors.	Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2
Application for Permit Amendment: If a permit amendment is needed, submit an application in accordance with the requirements of Minn. R. 7007.1150 through Minn. R. 7007.1500. Submittal dates vary, depending on the type of amendment needed.	Minn. R. 7007.1150 - 7007.1500
Extension Requests: The Permittee may apply for an Administrative Amendment to extend a deadline in a permit by no more than 120 days, provided the proposed deadline extension meets the requirements of Minn. R. 7007.1400, subp. 1(H). Performance testing deadlines from the General Provisions of 40 CFR pt. 60 and pt. 63 are examples of deadlines for which the MPCA does not have authority to grant extensions and therefore do not meet the requirements of Minn. R. 7007.1400, subp. 1(H).	Minn. R. 7007.1400, subp. 1(H)
Emission Inventory Report: due on or before April 1 of each calendar year following permit issuance, to be submitted on a form approved by the Commissioner.	Minn. R. 7019.3000 - 7019.3100
Emission Fees: due 30 days after receipt of an MPCA bill.	Minn. R. 7002.0005 - 7002.0095

TABLE A: LIMITS AND OTHER REQUIREMENTS**A-6**

09/15/14

Facility Name: Martin Marietta Materials - Saint Cloud Quarry

Permit Number: 14500029 - 003

Subject Item: GP 001 NSPS Equipment

Associated Items: EU 712 1/4" Chip Screens - Screen 2A (141124)
EU 713 100 Ton Bin - Ballast Bin (20748) - Silo/Bin
EU 714 Belt Feeder to Blend Bins (63640)
EU 715 Belt Feeder to Blend Bins (63642)
EU 716 Belt Feeder to Blend Bins (63643)
EU 717 Bin - Recycle Bin w/Conveyor/04-105081 (02-105080)
EU 718 Cone Crusher - Ballast Crusher (50698)
EU 721 Cone Crusher - C-4 (50725)
EU 723 Cone Crusher - C-5 Nordberg (50807)
EU 724 Dewatering Screens - Derrick Dewatering (141118)
EU 726 Wash Screens - Portable Wash Screen (14-100759)
EU 727 Finishing Screens - Screen 3 (14-106339)
EU 728 Finishing Screens - Screen 1B (141127)
EU 729 Finishing Screens - Screen 1A (141661)
EU 730 Fixed Conveyor - CB4F (44437)
EU 731 Fixed Conveyor - BWC5 (44581)
EU 732 Fixed Conveyor - BWC2 (44603)
EU 733 Fixed Conveyor - BWC3 (44610)
EU 734 Fixed Conveyor - BWC7 (44631)
EU 735 Fixed Conveyor - BWC8 (44652)
EU 736 Fixed Conveyor - BWC1 (44659)
EU 737 Fixed Conveyor - BWC6 (44677)
EU 738 Fixed Conveyor - BWC4 (44678)
EU 739 Fixed Conveyor - CB5F (44820)
EU 744 Fixed Conveyor - CB3A (44882)
EU 745 Fixed Conveyor - CB3B (44883)
EU 753 Fixed Conveyor - CB2D (44899)
EU 756 Fixed Conveyor - CB5B (44906)
EU 759 Fixed Conveyor - CB-2 (44909)
EU 760 Fixed Conveyor - Conveyor w/Bin 02-105080 (04-105081)
EU 761 Fixed Conveyor - Recycle (04-105082)
EU 762 Fixed Conveyor - CB5 (04-105083)
EU 763 Fixed Conveyor - BWC13 (04-105084)
EU 764 Fixed Conveyor - PW50 (04-124189)
EU 765 Gathering Belt - Blend Bins (35014) - Conveyor
EU 767 Jump Conveyor - Conveyor (04-100761)
EU 768 Jump Conveyor - Conveyor (04-110762)
EU 769 Jump Conveyor - CB3C (04-110152)
EU 770 Jump Conveyor - Conveyor (04-110158)
EU 771 North Rescreener - Screens 5A (141119)
EU 772 Sand Screw - McLanahan Screw (120357) - Material Handling Equipment
EU 773 Sand Screw - Twin 44 McLanahan (12-100760) - Material Handling Equipment
EU 774 Sand Wheel - Bucket Wheel (120360) - Material Handling Equipment
EU 775 Scalping Screen - Screen 1 (141547)
EU 776 South Rescreener - Screen 5B (141125)

TABLE A: LIMITS AND OTHER REQUIREMENTS**A-7**

09/15/14

Facility Name: Martin Marietta Materials - Saint Cloud Quarry

Permit Number: 14500029 - 003

Associated Items:

- EU 777 Stacking Conveyor - CB3D (2056)
- EU 778 Stacking Conveyor - Cable Stacker (44653)
- EU 779 Stacking Conveyor - Conveyor (44658)
- EU 780 Stacking Conveyor - Conveyor (44822)
- EU 781 Stacking Conveyor - SC2 (44886)
- EU 782 Stacking Conveyor - SC9 (44887)
- EU 783 Stacking Conveyor - Conveyor (44889)
- EU 784 Stacking Conveyor - SC6 (44892)
- EU 785 Stacking Conveyor - SC10 (44893)
- EU 787 Stacking Conveyor - SC11 (44896)
- EU 788 Stacking Conveyor - SC12 (44903)
- EU 789 Stacking Conveyor - SC1 (44904)
- EU 790 Stacking Conveyor - SC7A (44911)
- EU 791 Stacking Conveyor - SC8 (44913)
- EU 792 Stacking Conveyor - TCI Stacker (04-100767)
- EU 793 Stacking Conveyor - SC2 (04-110156)
- EU 794 VSI Crusher - Barmac (05-107932)
- EU 795 Wash Screen - Ballast Screen (141122)
- EU 796 Wash Screen - Screen 2 (141546)
- EU 798 Jam Breaker - Material Handling Equipment
- EU 799 Gyratory Crusher
- EU 800 Concrete Surge Bin
- EU 801 Feeder
- EU 802 Conveyor 1
- EU 803 Belt Scale - Material Handling Equipment
- EU 804 Screen
- EU 805 Conveyor 2
- EU 806 Conveyor 3
- EU 807 Feeder 54 x 96 Pan
- EU 808 Feeder 54 x 96 Pan
- EU 809 Feeder 54 x 96 Pan
- EU 810 Concrete Surge Tunnel - Material Handling Equipment
- EU 811 Conveyor 4
- EU 812 Belt Scale - Material Handling Equipment
- EU 813 Magnet - Other Emission Unit
- EU 814 Metal Detector - Other Emission Unit
- EU 815 Metal Automated Removal System - Other Emission Unit
- EU 816 Screen
- EU 817 Conveyor 5
- EU 818 Conveyor 6
- EU 819 75 Ton Bin
- EU 820 75 Ton Bin
- EU 821 Feeder 36 x 120 Pan Retractable
- EU 822 Feeder 72 x 120 Pan Retractable
- EU 823 Super Heavy Duty Cone Crusher
- EU 824 Cone Crusher

TABLE A: LIMITS AND OTHER REQUIREMENTS**A-8**

09/15/14

Facility Name: Martin Marietta Materials - Saint Cloud Quarry

Permit Number: 14500029 - 003

Associated Items:

- EU 825 Conveyor 7
- EU 826 Conveyor 8
- EU 827 Radial Stacker 9 - Other Emission Unit
- EU 828 Conveyor 10
- EU 829 Screen
- EU 830 Conveyor 11
- EU 831 50 Ton Bin
- EU 832 Belt Feeder 1
- EU 833 Crusher
- EU 834 Conveyor 12
- EU 835 Belt Scale - Material Handling Equipment
- EU 836 Conveyor 13

What to do	Why to do it
PART 60 NSPS SUBPART OOO REQUIREMENTS Standards of Performance for Nonmetallic Mineral Processing Plants	hdr
APPLICABILITY	hdr
The provisions of 40 CFR pt. 60, subp. OOO are applicable to the following affected facilities in a fixed nonmetallic mineral processing plants: each crusher, grinding mill, screening operation, bucket elevator, belt conveyor, bagging operation, storage bin, enclosed truck or railcar loading station.	40 CFR Section 60.670(a)(1); Minn. R. 7011.3350
The provisions of 40 CFR pt. 60, subp. OOO do not apply to wet material processing operations (as defined in 40 CFR Section 60.671).	40 CFR Section 60.670(a)(2); Minn. R. 7011.3350
1) When an existing facility is replaced by a piece of equipment of equal or smaller size, as defined in 40 CFR Section 60.671, having the same function as the existing facility, and there is no increase in the amount of emissions, the new facility is exempt from the provisions of 40 CFR Sections 60.672, 60.674, and 60.675 except as provided for in 3) 2) If the Permittee complies with 1), the Permittee shall submit the information required in 40 CFR 60.676(a). 3) If the Permittee replaces all existing facilities in a production line with new facilities, the Permittee does not qualify for the exemption described in 1) and shall comply with the provisions of 40 CFR Sections 60.672, 60.674 and 60.675.	40 CFR Section 60.670(d); Minn. R. 7011.3350
An affected facility under paragraph 40 CFR Section 60.670(a) that commences construction, modification, or reconstruction after August 31, 1983, is subject to the requirements of this 40 CFR pt. 60.	40 CFR Section 60.670(e); Minn. R. 7011.3350
EMISSION LIMITS AND OPERATIONAL REQUIREMENTS	hdr
Affected facilities must meet the fugitive emission limits and compliance requirements in 40 CFR pt. 60, subp. OOO, Table 3 within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup as required under 40 CFR Section 60.11. The requirements in 40 CFR pt. 60, subp. OOO, Table 3 apply for fugitive emissions from affected facilities without capture systems and for fugitive emissions escaping capture systems.	40 CFR Section 60.672(b); Minn. R. 7011.3350
The Permittee shall meet the following fugitive emissions limit for crushers at which a capture system is not used; Opacity: less than or equal to 12 percent opacity	40 CFR pt. 60, subp. OOO, Table 3; Minn. R. 7011.3350
The Permittee shall meet the following fugitive emissions limit for grinding mills, screening operations, bucket elevators, transfer points on belt conveyors, bagging operations, storage bins, enclosed truck or railcar loading stations or from any other affected facility (as defined in 40 CFR Sections 60.670 and 60.671); Opacity: less than or equal to 7 percent opacity	40 CFR pt. 60, subp. OOO, Table 3; Minn. R. 7011.3350
The Permittee shall demonstrate compliance with the applicable opacity limits by conducting an initial performance test according to 40 CFR Section 60.11 and 40 CFR Section 60.675; and Periodic inspections of water sprays according to 40 CFR Sections 60.674(b) and 60.676(b).	40 CFR pt. 60, subp. OOO, Table 3; Minn. R. 7011.3350
Truck dumping of nonmetallic minerals into any screening operation, feed hopper, or crusher is exempt from the requirements of 40 CFR Section 60.672.	40 CFR Section 60.672(d); Minn. R. 7011.3350
MONITORING	hdr

TABLE A: LIMITS AND OTHER REQUIREMENTS
A-9 09/15/14

Facility Name: Martin Marietta Materials - Saint Cloud Quarry

Permit Number: 14500029 - 003

The Permittee shall perform monthly periodic inspections to check that water is flowing to discharge spray nozzles in the wet suppression system. The Permittee shall initiate corrective action within 24 hours and complete corrective action as expeditiously as practical if the Permittee finds that water is not flowing properly during an inspection of the water spray nozzles. The Permittee shall record each inspection of the water spray nozzles, including the date of each inspection and any corrective actions taken, in the logbook required under 40 CFR Section 60.676(b).	40 CFR Section 60.674(b); Minn. R. 7011.3350
<p>If an affected facility relies on water carryover from upstream water sprays to control fugitive emissions, then that affected facility is exempt from the 5-year repeat testing requirement specified in 40 CFR pt. 60, subp. 000, Table 3 provided that the affected facility meets the criteria below:</p> <p>(i) The Permittee of the affected facility conducts periodic inspections of the upstream water spray(s) that are responsible for controlling fugitive emissions from the affected facility. These inspections are conducted according to 40 CFR Section 60.674(b) and 40 CFR Section 60.676(b), and</p> <p>(ii) The Permittee of the affected facility designates which upstream water spray(s) will be periodically inspected at the time of the initial performance test required under 40 CFR Section 60.11 and 40 CFR Section 60.675.</p>	40 CFR Section 60.674(b)(1); Minn. R. 7011.3350
If an affected facility that routinely uses wet suppression water sprays ceases operation of the water sprays or is using a control mechanism to reduce fugitive emissions other than water sprays during the monthly inspection (for example, water from recent rainfall), the logbook entry required under 40 CFR Section 60.676(b) must specify the control mechanism being used instead of the water sprays	40 CFR Section 60.674(b)(2); Minn. R. 7011.3350
PERFORMANCE TESTING	hdr
Initial Performance Test: due 60 days after achieving maximum capacity, but no later than 180 days after initial startup, according to 40 CFR Section 60.11 and 40 CFR Section 60.675 to measure opacity from EU 712.	40 CFR Section 60.672(b); 40 CFR Section 60.8(a); 40 CFR Section 60.11(e)(1); Minn. R. 7011.3350; Minn. R. 7017.2015
Initial Performance Test: due 60 days after achieving maximum capacity, but no later than 180 days after initial startup, according to 40 CFR Section 60.11 and 40 CFR Section 60.675 to measure opacity from EU 713.	40 CFR Section 60.672(b); 40 CFR Section 60.8(a); 40 CFR Section 60.11(e)(1); Minn. R. 7011.3350; Minn. R. 7017.2015
Initial Performance Test: due 60 days after achieving maximum capacity, but no later than 180 days after initial startup, according to 40 CFR Section 60.11 and 40 CFR Section 60.675 to measure opacity from EU 714.	40 CFR Section 60.672(b); 40 CFR Section 60.8(a); 40 CFR Section 60.11(e)(1); Minn. R. 7011.3350; Minn. R. 7017.2015
Initial Performance Test: due 60 days after achieving maximum capacity, but no later than 180 days after initial startup, according to 40 CFR Section 60.11 and 40 CFR Section 60.675 to measure opacity from EU 715.	40 CFR Section 60.672(b); 40 CFR Section 60.8(a); 40 CFR Section 60.11(e)(1); Minn. R. 7011.3350; Minn. R. 7017.2015
Initial Performance Test: due 60 days after achieving maximum capacity, but no later than 180 days after initial startup, according to 40 CFR Section 60.11 and 40 CFR Section 60.675 to measure opacity from EU 716.	40 CFR Section 60.672(b); 40 CFR Section 60.8(a); 40 CFR Section 60.11(e)(1); Minn. R. 7011.3350; Minn. R. 7017.2015
Initial Performance Test: due 60 days after achieving maximum capacity, but no later than 180 days after initial startup, according to 40 CFR Section 60.11 and 40 CFR Section 60.675 to measure opacity from EU 717.	40 CFR Section 60.672(b); 40 CFR Section 60.8(a); 40 CFR Section 60.11(e)(1); Minn. R. 7011.3350; Minn. R. 7017.2015
Initial Performance Test: due 60 days after achieving maximum capacity, but no later than 180 days after initial startup, according to 40 CFR Section 60.11 and 40 CFR Section 60.675 to measure opacity from EU 718.	40 CFR Section 60.672(b); 40 CFR Section 60.8(a); 40 CFR Section 60.11(e)(1); Minn. R. 7011.3350; Minn. R. 7017.2015
Initial Performance Test: due 60 days after achieving maximum capacity, but no later than 180 days after initial startup, according to 40 CFR Section 60.11 and 40 CFR Section 60.675 to measure opacity from EU 721.	40 CFR Section 60.672(b); 40 CFR Section 60.8(a); 40 CFR Section 60.11(e)(1); Minn. R. 7011.3350; Minn. R. 7017.2015
Initial Performance Test: due 60 days after achieving maximum capacity, but no later than 180 days after initial startup, according to 40 CFR Section 60.11 and 40 CFR Section 60.675 to measure opacity from EU 723.	40 CFR Section 60.672(b); 40 CFR Section 60.8(a); 40 CFR Section 60.11(e)(1); Minn. R. 7011.3350; Minn. R. 7017.2015
Initial Performance Test: due 60 days after achieving maximum capacity, but no later than 180 days after initial startup, according to 40 CFR Section 60.11 and 40 CFR Section 60.675 to measure opacity from EU 724.	40 CFR Section 60.672(b); 40 CFR Section 60.8(a); 40 CFR Section 60.11(e)(1); Minn. R. 7011.3350; Minn. R. 7017.2015
Initial Performance Test: due 60 days after achieving maximum capacity, but no later than 180 days after initial startup, according to 40 CFR Section 60.11 and 40 CFR Section 60.675 to measure opacity from EU 726.	40 CFR Section 60.672(b); 40 CFR Section 60.8(a); 40 CFR Section 60.11(e)(1); Minn. R. 7011.3350; Minn. R. 7017.2015
Initial Performance Test: due 60 days after achieving maximum capacity, but no later than 180 days after initial startup, according to 40 CFR Section 60.11 and 40 CFR Section 60.675 to measure opacity from EU 727.	40 CFR Section 60.672(b); 40 CFR Section 60.8(a); 40 CFR Section 60.11(e)(1); Minn. R. 7011.3350; Minn. R. 7017.2015
Initial Performance Test: due 60 days after achieving maximum capacity, but no later than 180 days after initial startup, according to 40 CFR Section 60.11 and 40 CFR Section 60.675 to measure opacity from EU 728.	40 CFR Section 60.672(b); 40 CFR Section 60.8(a); 40 CFR Section 60.11(e)(1); Minn. R. 7011.3350; Minn. R. 7017.2015

A-10 09/15/14

Permit Number: 14500029 - 003

[illegible]

A-11 09/15/14

Permit Number: 14500029 - 003

[illegible]

A-12 09/15/14

Permit Number: 14500029 - 003

[illegible]

A-13 09/15/14

Permit Number: 14500029 - 003

[illegible]

TABLE A: LIMITS AND OTHER REQUIREMENTS**A-14** 09/15/14

Facility Name: Martin Marietta Materials - Saint Cloud Quarry

Permit Number: 14500029 - 003

Initial Performance Test: due 60 days after achieving maximum capacity, but no later than 180 days after initial startup, according to 40 CFR Section 60.11 and 40 CFR Section 60.675 to measure opacity from EU 832.	40 CFR Section 60.672(b); 40 CFR Section 60.8(a); 40 CFR Section 60.11(e)(1); Minn. R. 7011.3350; Minn. R. 7017.2015
Initial Performance Test: due 60 days after achieving maximum capacity, but no later than 180 days after initial startup, according to 40 CFR Section 60.11 and 40 CFR Section 60.675 to measure opacity from EU 833.	40 CFR Section 60.672(b); 40 CFR Section 60.8(a); 40 CFR Section 60.11(e)(1); Minn. R. 7011.3350; Minn. R. 7017.2015
Initial Performance Test: due 60 days after achieving maximum capacity, but no later than 180 days after initial startup, according to 40 CFR Section 60.11 and 40 CFR Section 60.675 to measure opacity from EU 834.	40 CFR Section 60.672(b); 40 CFR Section 60.8(a); 40 CFR Section 60.11(e)(1); Minn. R. 7011.3350; Minn. R. 7017.2015
Initial Performance Test: due 60 days after achieving maximum capacity, but no later than 180 days after initial startup, according to 40 CFR Section 60.11 and 40 CFR Section 60.675 to measure opacity from EU 835.	40 CFR Section 60.672(b); 40 CFR Section 60.8(a); 40 CFR Section 60.11(e)(1); Minn. R. 7011.3350; Minn. R. 7017.2015
Initial Performance Test: due 60 days after achieving maximum capacity, but no later than 180 days after initial startup, according to 40 CFR Section 60.11 and 40 CFR Section 60.675 to measure opacity from EU 836.	40 CFR Section 60.672(b); 40 CFR Section 60.8(a); 40 CFR Section 60.11(e)(1); Minn. R. 7011.3350; Minn. R. 7017.2015
<p>The Permittee shall use Method 9 of 40 CFR pt. 60, Appendix A-4 and the procedures in 40 CFR 60.11 in determining compliance with 40 CFR Section 60.672(b), with the following additions:</p> <p>(i) The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet).</p> <p>(ii) The observer shall, when possible, select a position that minimizes interference from other fugitive emission sources (e.g., road dust). The required observer position relative to the sun (Method 9 of 40 CFR pt. 60, Appendix A-4, Section 2.1) must be followed.</p> <p>(iii) For affected facilities using wet dust suppression for particulate matter control, a visible mist is sometimes generated by the spray. The water mist must not be confused with particulate matter emissions and is not to be considered a visible emission. When a water mist of this nature is present, the observation of emissions is to be made at a point in the plume where the mist is no longer visible.</p>	40 CFR Section 60.675(c)(1); Minn. R. 7011.3350
When determining compliance with the fugitive emissions standard for any affected facility described under 40 CFR Section 60.672(b) the duration of the Method 9 (40 CFR pt. 60, Appendix A-4) observations must be 30 minutes (five 6-minute averages). Compliance with the applicable fugitive emission limits in 40 CFR pt. 60, subp. OOO, Table 3 must be based on the average of the five 6-minute averages.	40 CFR Section 60.675(c)(3); Minn. R. 7011.3350
<p>The Permittee may use the following as alternatives to the reference methods and procedures specified in 40 CFR Section 60.675:</p> <p>A single visible emission observer may conduct visible emission observations for up to three fugitive, stack, or vent emission points within a 15-second interval if the following conditions are met:</p> <p>(i) No more than three emission points may be read concurrently.</p> <p>(ii) All three emission points must be within a 70 degree viewing sector or angle in front of the observer such that the proper sun position can be maintained for all three points.</p> <p>(iii) If an opacity reading for any one of the three emission points equals or exceeds the applicable standard, then the observer must stop taking readings for the other two points and continue reading just that single point.</p>	40 CFR Section 60.675(e)(2); Minn. R. 7011.3350
For performance tests involving only Method 9 (40 CFR pt. 60, Appendix A-4) testing, the Permittee may reduce the 30-day advance notification of performance test in 40 CFR Sections 60.7(a)(6) and 60.8(d) to a 7-day advance notification.	40 CFR Section 60.675(g); Minn. R. 7011.3350
If the initial performance test date for an affected facility falls during a seasonal shut down (as defined in 40 CFR Section 60.671) of the affected facility, then with approval from the permitting authority, the MPCA may postpone the initial performance test until no later than 60 calendar days after resuming operation of the affected facility.	40 CFR Section 60.675(i); Minn. R. 7011.3350
REPORTING AND RECORDKEEPING	hdr

TABLE A: LIMITS AND OTHER REQUIREMENTS**A-15** 09/15/14

Facility Name: Martin Marietta Materials - Saint Cloud Quarry

Permit Number: 14500029 - 003

<p>To comply with 40 CFR Section 60.670(d), the Permittee shall submit to the Administrator the following information about the existing facility being replaced and the replacement piece of equipment.</p> <p>(1) For a crusher, grinding mill, bucket elevator, bagging operation, or enclosed truck or railcar loading station:</p> <p>(i) The rated capacity in megagrams or tons per hour of the existing facility being replaced and</p> <p>(ii) The rated capacity in tons per hour of the replacement equipment.</p> <p>(2) For a screening operation:</p> <p>(i) The total surface area of the top screen of the existing screening operation being replaced and</p> <p>(ii) The total surface area of the top screen of the replacement screening operation.</p> <p>(3) For a conveyor belt:</p> <p>(i) The width of the existing belt being replaced and</p> <p>(ii) The width of the replacement conveyor belt.</p> <p>(continued below)</p>	40 CFR Section 60.676(a); Minn. R. 7011.3350
<p>(continued from above)</p> <p>(4) For a storage bin:</p> <p>(i) The rated capacity in megagrams or tons of the existing storage bin being replaced and</p> <p>(ii) The rated capacity in megagrams or tons of replacement storage bins.</p>	40 CFR Section 60.676(a); Minn. R. 7011.3350
<p>For affected facilities (as defined in 40 CFR Sections 60.670 and 60.671) for which construction, modification, or reconstruction commenced on or after April 22, 2008, the Permittee shall record each periodic inspection required under 40 CFR Section 60.674(b) or (c), including dates and any corrective actions taken, in a logbook (in written or electronic format). The Permittee shall keep the logbook onsite and make hard or electronic copies (whichever is requested) of the logbook available to the Administrator upon request.</p>	40 CFR Section 60.676(b)(1); Minn. R. 7011.3350
<p>The Permittee shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards set forth in 40 CFR Section 60.672, including reports of opacity observations made using Method 9 (40 CFR pt. 60, Appendix A-4) to demonstrate compliance with 40 CFR Section 60.672(b), (e) and (f).</p>	40 CFR Section 60.676(f); Minn. R. 7011.3350
<p>For any wet material processing operation that processes saturated and subsequently processes unsaturated materials, the Permittee shall submit a report of this change within 30 days following such change. At the time of such change, this screening operation, bucket elevator, or belt conveyor becomes subject to the applicable opacity limit in 40 CFR Section 60.672(b) and the emission test requirements of 40 CFR Section 60.11.</p>	40 CFR Section 60.676(g); Minn. R. 7011.3350
<p>The subpart A requirement under 40 CFR Section 60.7(a)(1) for notification of the date construction or reconstruction commenced is waived for affected facilities under 40 CFR pt. 60, subp. OOO.</p>	40 CFR Section 60.676(h); Minn. R. 7011.3350
<p>A notification of the actual date of initial startup of each affected facility shall be submitted to the Administrator.</p> <p>(1) For a combination of affected facilities in a production line that begin actual initial startup on the same day, a single notification of startup may be submitted by the Permittee to the Administrator. The notification shall be postmarked within 15 days after such date and shall include a description of each affected facility, equipment manufacturer, and serial number of the equipment, if available.</p>	40 CFR Section 60.676(i); Minn. R. 7011.3350
<p>Notifications and reports required under 40 CFR pt. 60, subp. OOO and under 40 CFR pt. 60, subp. A to demonstrate compliance with 40 CFR pt. 60, subp. OOO need only to be sent to the EPA Region.</p>	40 CFR Section 60.676(k); Minn. R. 7011.3350
<p>PART 60 NSPS SUBPART A REQUIREMENTS Standards of Performance for New Stationary Sources</p>	hdr

TABLE A: LIMITS AND OTHER REQUIREMENTS**A-16** 09/15/14

Facility Name: Martin Marietta Materials - Saint Cloud Quarry

Permit Number: 14500029 - 003

A notification of the anticipated date for conducting the opacity observations required by 40 CFR Section 60.11(e)(1). The notification shall also include, if appropriate, a request for the Administrator to provide a visible emissions reader during a performance test. The notification shall be postmarked not less than 30 days prior to such date.	40 CFR Section 60.7(a)(6); Minn. R. 7019.0100, subp. 1
The Permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility.	40 CFR Section 60.7(b); Minn. R. 7019.0100, subp. 1
The Permittee shall maintain a file of all measurements, including performance testing measurements and all other information required by 40 CFR pt. 60 recorded in a permanent form suitable for inspection. The file shall be retained for at least two years following the date of such measurements, maintenance, reports, and records.	40 CFR Section 60.7(f); Minn. R. 7019.0100, subp. 1
The Permittee shall provide the Administrator at least 30 days prior notice of any performance test, except as specified under other subparts, to afford the Administrator the opportunity to have an observer present. If after 30 days notice for an initially scheduled performance test, there is a delay (due to operational problems, etc.) in conducting the scheduled performance test, the owner or operator of an affected facility shall notify the Administrator (or delegated State or local agency) as soon as possible of any delay in the original test date, either by providing at least 7 days prior notice of the rescheduled date of the performance test, or by arranging a rescheduled date with the Administrator (or delegated State or local agency) by mutual agreement.	40 CFR Section 60.8(d); Minn. R. 7017.2015
Compliance with opacity standards in 40 CFR pt. 60 shall be determined by conducting observations in accordance with Method 9 in appendix A of 40 CFR pt. 60, any alternative method that is approved by the Administrator, or as provided in 40 CFR Section 60.11(e)(5). For purposes of determining initial compliance, the minimum total time of observations shall be 3 hours (30 6-minute averages) for the performance test or other set of observations (meaning those fugitive-type emission sources subject only to an opacity standard).	40 CFR Section 60.11(b); Minn. R. 7017.2015
The opacity standards set forth in 40 CFR pt. 60 shall apply at all times except during periods of startup, shutdown, malfunction, and as otherwise provided in the applicable standard.	40 CFR Section 60.11(c); Minn. R. 7017.2015
At all times, including periods of startup, shutdown, and malfunction, the Permittee shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.	40 CFR Section 60.11(d); Minn. R. 7017.2015
Except as provided in 40 CFR Section 60.11(e)(3), the Permittee of an affected facility to which an opacity standard in 40 CFR pt. 60 applies shall conduct opacity observations in accordance with 40 CFR Section 60.11(b), shall record the opacity of emissions, and shall report to the Administrator the opacity results.	40 CFR Section 60.11(e)(2); Minn. R. 7017.2015
The Permittee may request the Administrator to determine and to record the opacity of emissions from the affected facility during the initial performance test and at such times as may be required. The Permittee shall report the opacity results. Any request to the Administrator to determine and to record the opacity of emissions from an affected facility shall be included in the notification required in 40 CFR Section 60.7(a)(6). If, for some reason, the Administrator cannot determine and record the opacity of emissions from the affected facility during the performance test, then the provisions of 40 CFR Section(e)(1) shall apply.	40 CFR Section 60.11(e)(3); Minn. R. 7017.2015
The Permittee shall not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere.	40 CFR Section 60.12; Minn. R. 7011.0050

TABLE A: LIMITS AND OTHER REQUIREMENTS

A-17 09/15/14

Facility Name: Martin Marietta Materials - Saint Cloud Quarry

Permit Number: 14500029 - 003

Subject Item: GP 002 Fugitive Sources (non-process equipment)**Associated Items:** FS 901 Fugitive Transfer Point (primary & secondary plants) - Material Handling/Transfer/Storage

FS 902 Storage Piles

FS 903 Unpaved Roads

What to do	Why to do it
OPERATIONAL REQUIREMENTS	hdr
Visible Emissions: The Permittee shall check fugitive emissions for any visible emissions once each day of operation during daylight hours.	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; To avoid classification as a major source under 40 CFR Section 70.2 and Minn. R. 7007.0200; Minn. R. 7011.0080
Recordkeeping of Visible Emissions: The Permittee shall record the time and date of each visible emission inspection, and whether or not any visible emissions were observed.	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; To avoid classification as a major source under 40 CFR Section 70.2 and Minn. R. 7007.0200; Minn. R. 7011.0080
The Permittee shall comply with the requirements of Minn. R. 7011.0150. This means that all reasonable measures shall be taken to prevent avoidable amounts of particulate matter from becoming airborne. In a practical manner this refers to preventing avoidable visible dust emissions beyond the lot line surrounding the stationary source. Control of non-process dust emissions can be achieved through such measures as applying water or commercially available dust suppressants to stock piles, unpaved roads, and handling areas. Anytime fugitive emissions are observed, the Permittee shall immediately eliminate the observed fugitive emissions by applying water or dust suppressant to the source.	Title I Condition: to avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; To avoid major source classification under 40 CFR Section 70.2 and Minn. R. 7007.0200; Minn. R. 7011.0150
The following dust suppression requirements apply: 1. If using a commercially available dust suppressant, it shall be applied in accordance with the manufacturer's guidelines, and a copy of these manufacturer's guidelines must be kept by the Permittee. 2. Install a rain gauge at the site and record the precipitation during the previous 24 hours for each day of operation at the site. 3. Conduct and record basic weather observations according to the Weather Summary Criteria in Appendix I that best characterizes weather for each operating day. 4. Unpaved haul roads to Rainbow Pit and North Pit shall be posted with 20 mph speed limit signs. All other unpaved site roads shall be posted with 10 mph speed limit signs. 5. Water or dust suppressant application equipment shall always be available at the site or on call for use at the site within a given operating day.	Title I Condition: to avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; To avoid major source classification under 40 CFR Section 70.2 and Minn. R. 7007.0200; Minn. R. 7011.0150
Daily Recordkeeping: The Permittee shall keep records of the following; 1. The date and time of dust suppressant action and initials of person making the record. 2. The amount of water or dust suppressant applied and the method of application. If water was not applied do to a rainfall event, the Permittee shall record this along with the source of measurement (i.e. on-site rain gauge). 3. The location (e.g., on a site sketch) of water or dust suppressant application.	Title I Condition: to avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; To avoid major source classification under 40 CFR Section 70.2 and Minn. R. 7007.0200; Minn. R. 7011.0150

TABLE A: LIMITS AND OTHER REQUIREMENTS**A-18**

09/15/14

Facility Name: Martin Marietta Materials - Saint Cloud Quarry

Permit Number: 14500029 - 003

Subject Item: GP 003 Process Units

Associated Items: EU 712 1/4" Chip Screens - Screen 2A (141124)
EU 713 100 Ton Bin - Ballast Bin (20748) - Silo/Bin
EU 714 Belt Feeder to Blend Bins (63640)
EU 715 Belt Feeder to Blend Bins (63642)
EU 716 Belt Feeder to Blend Bins (63643)
EU 717 Bin - Recycle Bin w/Conveyor/04-105081 (02-105080)
EU 718 Cone Crusher - Ballast Crusher (50698)
EU 719 Cone Crusher - C-1 Symons (50722)
EU 720 Cone Crusher - C-2 Symons (50724)
EU 721 Cone Crusher - C-4 (50725)
EU 722 Cone Crusher - C-3 Symons (50726)
EU 723 Cone Crusher - C-5 Nordberg (50807)
EU 724 Dewatering Screens - Derrick Dewatering (141118)
EU 726 Wash Screens - Portable Wash Screen (14-100759)
EU 727 Finishing Screens - Screen 3 (14-106339)
EU 728 Finishing Screens - Screen 1B (141127)
EU 729 Finishing Screens - Screen 1A (141661)
EU 730 Fixed Conveyor - CB4F (44437)
EU 731 Fixed Conveyor - BWC5 (44581)
EU 732 Fixed Conveyor - BWC2 (44603)
EU 733 Fixed Conveyor - BWC3 (44610)
EU 734 Fixed Conveyor - BWC7 (44631)
EU 735 Fixed Conveyor - BWC8 (44652)
EU 736 Fixed Conveyor - BWC1 (44659)
EU 737 Fixed Conveyor - BWC6 (44677)
EU 738 Fixed Conveyor - BWC4 (44678)
EU 739 Fixed Conveyor - CB5F (44820)
EU 740 Fixed Conveyor - CB5A (44877)
EU 741 Fixed Conveyor - CB5C (44878)
EU 742 Fixed Conveyor - CB-2B (44879)
EU 743 Fixed Conveyor - CB-1A (44880)
EU 744 Fixed Conveyor - CB3A (44882)
EU 745 Fixed Conveyor - CB3B (44883)
EU 746 Fixed Conveyor - CB4B (44884)
EU 747 Fixed Conveyor - CB5E (44885)
EU 748 Fixed Conveyor - BWC15 (44888)
EU 749 Fixed Conveyor - CB4C (44890)
EU 750 Fixed Conveyor - CB4 (44891)
EU 751 Fixed Conveyor - CB-3 (44894)
EU 752 Fixed Conveyor - CB5D (44898)
EU 753 Fixed Conveyor - CB2D (44899)
EU 754 Fixed Conveyor - CB-2A (44900)
EU 755 Fixed Conveyor - CB4A (44901)
EU 756 Fixed Conveyor - CB5B (44906)
EU 757 Fixed Conveyor - CB-1B (44907)

TABLE A: LIMITS AND OTHER REQUIREMENTS**A-19**

09/15/14

Facility Name: Martin Marietta Materials - Saint Cloud Quarry

Permit Number: 14500029 - 003

Associated Items:

- EU 758 Fixed Conveyor - CB-2C (44908)
- EU 759 Fixed Conveyor - CB-2 (44909)
- EU 760 Fixed Conveyor - Conveyor w/Bin 02-105080 (04-105081)
- EU 761 Fixed Conveyor - Recycle (04-105082)
- EU 762 Fixed Conveyor - CB5 (04-105083)
- EU 763 Fixed Conveyor - BWC13 (04-105084)
- EU 764 Fixed Conveyor - PW50 (04-124189)
- EU 765 Gathering Belt - Blend Bins (35014) - Conveyor
- EU 766 Gyratory Crusher - Primary Crusher (50727)
- EU 767 Jump Conveyor - Conveyor (04-100761)
- EU 768 Jump Conveyor - Conveyor (04-110762)
- EU 769 Jump Conveyor - CB3C (04-110152)
- EU 770 Jump Conveyor - Conveyor (04-110158)
- EU 771 North Rescreener - Screens 5A (141119)
- EU 772 Sand Screw - McLanahan Screw (120357) - Material Handling Equipment
- EU 773 Sand Screw - Twin 44 McLanahan (12-100760) - Material Handling Equipment
- EU 774 Sand Wheel - Bucket Wheel (120360) - Material Handling Equipment
- EU 775 Scalping Screen - Screen 1 (141547)
- EU 776 South Rescreener - Screen 5B (141125)
- EU 777 Stacking Conveyor - CB3D (2056)
- EU 778 Stacking Conveyor - Cable Stacker (44653)
- EU 779 Stacking Conveyor - Conveyor (44658)
- EU 780 Stacking Conveyor - Conveyor (44822)
- EU 781 Stacking Conveyor - SC2 (44886)
- EU 782 Stacking Conveyor - SC9 (44887)
- EU 783 Stacking Conveyor - Conveyor (44889)
- EU 784 Stacking Conveyor - SC6 (44892)
- EU 785 Stacking Conveyor - SC10 (44893)
- EU 786 Stacking Conveyor - Stacker 3 (44895)
- EU 787 Stacking Conveyor - SC11 (44896)
- EU 788 Stacking Conveyor - SC12 (44903)
- EU 789 Stacking Conveyor - SC1 (44904)
- EU 790 Stacking Conveyor - SC7A (44911)
- EU 791 Stacking Conveyor - SC8 (44913)
- EU 792 Stacking Conveyor - TCI Stacker (04-100767)
- EU 793 Stacking Conveyor - SC2 (04-110156)
- EU 794 VSI Crusher - Barmac (05-107932)
- EU 795 Wash Screen - Ballast Screen (141122)
- EU 796 Wash Screen - Screen 2 (141546)
- EU 798 Jam Breaker - Material Handling Equipment
- EU 799 Gyratory Crusher
- EU 800 Concrete Surge Bin
- EU 801 Feeder
- EU 802 Conveyor 1
- EU 803 Belt Scale - Material Handling Equipment
- EU 804 Screen

TABLE A: LIMITS AND OTHER REQUIREMENTS**A-20**

09/15/14

Facility Name: Martin Marietta Materials - Saint Cloud Quarry

Permit Number: 14500029 - 003

Associated Items:

- EU 805 Conveyor 2
- EU 806 Conveyor 3
- EU 807 Feeder 54 x 96 Pan
- EU 808 Feeder 54 x 96 Pan
- EU 809 Feeder 54 x 96 Pan
- EU 810 Concrete Surge Tunnel - Material Handling Equipment
- EU 811 Conveyor 4
- EU 812 Belt Scale - Material Handling Equipment
- EU 813 Magnet - Other Emission Unit
- EU 814 Metal Detector - Other Emission Unit
- EU 815 Metal Automated Removal System - Other Emission Unit
- EU 816 Screen
- EU 817 Conveyor 5
- EU 818 Conveyor 6
- EU 819 75 Ton Bin
- EU 820 75 Ton Bin
- EU 821 Feeder 36 x 120 Pan Retractable
- EU 822 Feeder 72 x 120 Pan Retractable
- EU 823 Super Heavy Duty Cone Crusher
- EU 824 Cone Crusher
- EU 825 Conveyor 7
- EU 826 Conveyor 8
- EU 827 Radial Stacker 9 - Other Emission Unit
- EU 828 Conveyor 10
- EU 829 Screen
- EU 830 Conveyor 11
- EU 831 50 Ton Bin
- EU 832 Belt Feeder 1
- EU 833 Crusher
- EU 834 Conveyor 12
- EU 835 Belt Scale - Material Handling Equipment
- EU 836 Conveyor 13

What to do	Why to do it
LIMITS	hdr
Total Particulate Matter: less than or equal to 0.30 grains/dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735.	Minn. R. 7011.0715, subp. 1(A)
Opacity: less than or equal to 20 percent opacity	Minn. R. 7011.0715, subp. 1(B)

TABLE A: LIMITS AND OTHER REQUIREMENTS**A-21**

09/15/14

Facility Name: Martin Marietta Materials - Saint Cloud Quarry

Permit Number: 14500029 - 003

Subject Item: EU 725 Feed Bin w/Conveyor - Old Feed Bin (61451)**Associated Items:** CE 010 Other

What to do	Why to do it
LIMITS	hdr
Total Particulate Matter: less than or equal to 0.30 grains/dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735.	Minn. R. 7011.0710, subp. 1(A)
Opacity: less than or equal to 20 percent opacity , except for one six-minute period per hour of not more than 60 percent opacity.	Minn. R. 7011.0710, subp. 1(B)

TABLE A: LIMITS AND OTHER REQUIREMENTS**A-22**

09/15/14

Facility Name: Martin Marietta Materials - Saint Cloud Quarry

Permit Number: 14500029 - 003

Subject Item: EU 797 Generator (Rental) - Reciprocating IC Engine**Associated Items: SV 710 Diesel Generator (Rental)**

What to do	Why to do it
ENGINE REPLACEMENT REQUIREMENTS	hdr
EU 797 is an engine rented by the Permittee each calendar year. EU 797 is not a nonroad engine because the engine remains at a location for more than 12 consecutive months or a shorter period of time for an engine located at a seasonal source. A location is any single site at a building, structure, facility, or installation. Any engine that replaces an engine at a location and that is intended to perform the same or similar function as the engine replaced will be included in calculating the consecutive time period. EU 797 is an engine located at a seasonal source and remains at a seasonal source during the full annual operating period of the seasonal source.	40 CFR Section 1068.30
An engine replacement for EU 797 is subject to the permit limits and all of the requirements of EU 797. A permit amendment will be needed if there is an hourly emissions increase, the replacement engine is subject to a new applicable requirement, or the replacement engine requires revisions to the limits or monitoring and recordkeeping in this permit.	Minn. R. 7007.0800, subp. 2
Recordkeeping: The Permittee shall maintain records of the manufacturer specifications for any engine replacement under EU 797 and the date of each engine replacement.	Minn. R. 7007.0800, subp. 5
EMISSION LIMITS	hdr
Opacity: less than or equal to 20 percent opacity once operating temperatures have been attained.	Minn. R. 7011.2300, subp. 1
Sulfur Dioxide: less than or equal to 0.50 lbs/million Btu heat input . The potential to emit from the unit is 0.29 lb/MMBtu due to equipment design and allowable fuels.	Minn. R. 7011.2300, subp. 2
OPERATING CONDITIONS	hdr
Fuel type: Ultra low sulfur diesel fuel only. Diesel fuel shall meet the requirements of 40 CFR Section 80.510(c).	Minn. R. 7005.0100, subp. 35a
RECORDKEEPING REQUIREMENTS	hdr
The Permittee shall keep records of fuel type and usage on a monthly basis.	Minn. R. 7007.0800, subp. 5
PART 63 NESHAP SUBPART ZZZZ REQUIREMENTS National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines	hdr
40 CFR pt. 63, subp. ZZZZ applies to each affected source. EU 797 is a new stationary RICE located at an area source that commenced construction on or after June 12, 2006 and is an affected source at the facility.	40 CFR Section 63.6590(a)(iii); Minn. R. 7011.8150
EU 797 meets the criteria in 40 CFR Section 63.6590(c)(1) and shall meet the requirements of 40 CFR pt. 63, subp. ZZZZ by meeting the requirements of 40 CFR pt. 60, subp. IIII, for compression ignition engines. No further requirements apply for EU 797 under 40 CFR pt. 63, subp. ZZZZ.	40 CFR Section 63.6590(c)(1); Minn. R. 7011.8150
PART 60 NSPS SUBPART IIII REQUIREMENTS Standards of Performance for Stationary Compression Ignition Internal Combustion Engines	hdr
EU 797 shall be a 2007 model year and later non-emergency stationary CI ICE with a displacement of less than 30 liters per cylinder. The Permittee shall comply with the emission standards for new CI engines in 40 CFR Section 60.4201 for their 2007 model year and later stationary CI ICE.	40 CFR Section 60.4204(b); 40 CFR Section 60.4201; Minn. R. 7011.2305; 40 CFR Section 63.6590(c)(1); Minn. R. 7011.8150
Beginning October 1, 2010, owners and operators of stationary CI ICE subject to this subpart with a displacement of less than 30 liters per cylinder that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel.	40 CFR Section 60.4207(b); Minn. R. 7011.2305; 40 CFR Section 63.6590(c)(1); Minn. R. 7011.8150

TABLE A: LIMITS AND OTHER REQUIREMENTS**A-23** 09/15/14

Facility Name: Martin Marietta Materials - Saint Cloud Quarry

Permit Number: 14500029 - 003

<p>(a) After December 31, 2008, the Permittee may not install stationary CI ICE (excluding fire pump engines) that do not meet the applicable requirements for 2007 model year engines.</p> <p>(b) After December 31, 2009, the Permittee may not install stationary CI ICE with a maximum engine power of less than 19 KW (25 HP) (excluding fire pump engines) that do not meet the applicable requirements for 2008 model year engines.</p> <p>(c) After December 31, 2014, the Permittee may not install non-emergency stationary CI ICE with a maximum engine power of greater than or equal to 19 KW (25 HP) and less than 56 KW (75 HP) that do not meet the applicable requirements for 2013 model year non-emergency engines.</p> <p>(continued below)</p>	40 CFR Section 60.4208; Minn. R. 7011.2305; 40 CFR Section 63.6590(c)(1); Minn. R. 7011.8150
<p>(continued from above)</p> <p>(d) After December 31, 2013, the Permittee may not install non-emergency stationary CI ICE with a maximum engine power of greater than or equal to 56 KW (75 HP) and less than 130 KW (175 HP) that do not meet the applicable requirements for 2012 model year non-emergency engines.</p> <p>(e) After December 31, 2012, the Permittee may not install non-emergency stationary CI ICE with a maximum engine power of greater than or equal to 130 KW (175 HP), including those above 560 KW (750 HP), that do not meet the applicable requirements for 2011 model year non-emergency engines.</p> <p>(f) After December 31, 2016, the Permittee may not install non-emergency stationary CI ICE with a maximum engine power of greater than or equal to 560 KW (750 HP) that do not meet the applicable requirements for 2015 model year non-emergency engines.</p> <p>(continued below)</p>	40 CFR Section 60.4208; Minn. R. 7011.2305; 40 CFR Section 63.6590(c)(1); Minn. R. 7011.8150
<p>(continued from above)</p> <p>(g) After December 31, 2018, the Permittee may not install non-emergency stationary CI ICE with a maximum engine power greater than or equal to 600 KW (804 HP) and less than 2,000 KW (2,680 HP) and a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder that do not meet the applicable requirements for 2017 model year non-emergency engines.</p> <p>(h) In addition to the requirements specified in 40 CFR Sections 60.4201, 60.4202, 60.4204, and 60.4205, the Permittee is prohibited to import stationary CI ICE with a displacement of less than 30 liters per cylinder that do not meet the applicable requirements specified in 40 CFR Section 60.4208(a) through (g) after the dates specified in 40 CFR Section 60.4208(a) through</p> <p>(i) 40 CFR Section 60.4208 requirements do not apply to stationary CI ICE that have been modified, reconstructed, and do not apply to engines that were removed from one existing location and r</p>	40 CFR Section 60.4208; Minn. R. 7011.2305; 40 CFR Section 63.6590(c)(1); Minn. R. 7011.8150
The Permittee shall operate and maintain stationary CI ICE that achieve the emission standards as required in 40 CFR Section 60.4204 over the entire life of the engine.	40 CFR Section 60.4206; Minn. R. 7011.2305; 40 CFR Section 63.6590(c)(1); Minn. R. 7011.8150
<p>The Permittee shall do all of the following;</p> <p>(1) Operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's emission-related written instructions;</p> <p>(2) Change only those emission-related settings that are permitted by the manufacturer; and</p> <p>(3) Meet the requirements of 40 CFR pt. 89, 94 and/or 1068, as they apply.</p>	40 CFR Section 60.4211(a); Minn. R. 7011.2305; 40 CFR Section 63.6590(c)(1); Minn. R. 7011.8150
The Permittee shall comply by purchasing an engine certified to the emission standards in 40 CFR Section 60.4204(b) for the same model year and maximum engine power. The engine shall be installed and configured according to the manufacturer's emission-related specifications.	40 CFR Section 60.4211(c); Minn. R. 7011.2305; 40 CFR Section 63.6590(c)(1); Minn. R. 7011.8150
PART 60 NSPS SUBPART A REQUIREMENTS Standards of Performance for New Stationary Sources	hdr
The Permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility.	40 CFR Section 60.7(b)

TABLE A: LIMITS AND OTHER REQUIREMENTS**A-24**

09/15/14

Facility Name: Martin Marietta Materials - Saint Cloud Quarry

Permit Number: 14500029 - 003

The Permittee shall maintain a file of all measurements, including performance testing measurements and all other information required by 40 CFR pt. 60 recorded in a permanent form suitable for inspection. The file shall be retained for at least two years following the date of such measurements, maintenance, reports, and records.	40 CFR Section 60.7(f)
At all times, including periods of startup, shutdown, and malfunction, the Permittee shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.	40 CFR Section 60.11(d)
The Permittee shall not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere.	40 CFR Section 60.12

TABLE B: SUBMITTALS

B-1 09/15/14

Facility Name: Martin Marietta Materials - Saint Cloud Quarry
Permit Number: 14500029 - 003

Also, where required by an applicable rule or permit condition, send to the Permit Document Coordinator notices of:

- accumulated insignificant activities,
- installation of control equipment,
- replacement of an emissions unit, and
- changes that contravene a permit term.

Send submittals that are required to be submitted to the U.S. EPA regional office to:

Chief Air Enforcement
Air and Radiation Branch
EPA Region V
77 West Jackson Boulevard
Chicago, Illinois 60604

Each submittal must be postmarked or received by the date specified in the applicable Table. Those submittals required by parts 7007.0100 to 7007.1850 must be certified by a responsible official, defined in Minn. R. 7007.0100, subp. 21. Other submittals shall be certified as appropriate if certification is required by an applicable rule or permit condition.

Send any application for a permit or permit amendment to:

Fiscal Services
Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, Minnesota 55155-4194

Table B lists most of the submittals required by this permit. Please note that some submittal requirements may appear in Table A or, if applicable, within a compliance schedule located in Table C. Table B is divided into two sections in order to separately list one-time only and recurrent submittal requirements.

Send submittals that are required by the Acid Rain Program to:

U.S. Environmental Protection Agency
Clean Air Markets Division
1200 Pennsylvania Avenue NW (6204N)
Washington, D.C. 20460

Unless another person is identified in the applicable Table, send all other submittals to:

AQ Compliance Tracking Coordinator
Industrial Division
Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, Minnesota 55155-4194

TABLE B: ONE TIME SUBMITTALS OR NOTIFICATIONS**B-2** 09/15/14

Facility Name: Martin Marietta Materials - Saint Cloud Quarry

Permit Number: 14500029 - 003

What to send	When to send	Portion of Facility Affected
Notification of the Actual Date of Initial Startup	due 15 days after Initial Startup	GP001
Notification of the Actual Date of Initial Startup	due 15 days after Initial Startup of any engine replacement. The Permittee shall provide the following emission unit information; manufactuer, model number, maximum design capacity (KW or HP), maximum fuel input, and engine model year.	EU797

TABLE B: RECURRENT SUBMITTALS**B-3** 09/15/14

Facility Name: Martin Marietta Materials - Saint Cloud Quarry

Permit Number: 14500029 - 003

What to send	When to send	Portion of Facility Affected
Semiannual Deviations Report	due 30 days after end of each calendar half-year following Permit Issuance. The first semiannual report submitted by the Permittee shall cover the calendar half-year in which the permit is issued. The first report of each calendar year covers January 1 - June 30. The second report of each calendar year covers July 1 - December 31. If no deviations have occurred, the Permittee shall submit the report stating no deviations.	Total Facility
Compliance Certification	due 31 days after end of each calendar year starting 02/27/1997 (for the previous calendar year). The Permittee shall submit this to the Commissioner on a form approved by the Commissioner. This report covers all deviations experienced during the calendar year.	Total Facility

APPENDIX MATERIAL

Facility Name: Martin Marietta Aggregates - Saint Cloud Quarry

Permit Number: 14500029-003

Appendix I - Weather Summary Criteria

Sky Conditions

CLR	<1/10 cloud coverage
SCT (Ptly Cldy)	1/10-5/10 cloud coverage (opaque)
BKN (Mstly Cldy)	6/10-9/10 cloud coverage (opaque)
OVC (Cloudy)	10/10 cloud coverage (opaque)
THN OVC	Sky is completely covered with high thin clouds and <5/10 cloud coverage is opaque

Note: Cloud coverage is a cumulative total of all cloud layers.

Weather Conditions

Fog	May also be associated with drizzle and may obstruct sky
Drizzle	Small particles of rain many times associated with fog
Lt Rain	Continuous falling at a light rate (good horizontal visibility)
Mod Rain	Continuous falling at a mod. rate (horiz. visibility decreased)
Hvy. Rain	Continuous falling at heavy rate; in sheets (horizontal visibility low)
T-Stm	Thunderstorm -- thunder, lightning, and usually mod. to hvy. rain
Hail	Associated with thunderstorms
Frz Rain	Rain that freezes on contact of cold objects; glazing
Sleet	Mixture of rain and ice pellets
Ice Pellets	Clear/mostly translucent pellets of ice -- not easily broken/crushed
Snw Grns/Snw Pellets	Hard/crunchy opaque (white) pellets of snow -- easily crushed
Lt Snow	Falling at a light rate; flurries (good horizontal visibility)
Mod Snow	Falling at a moderate rate (horizontal visibility decreased)
Hvy Snow	Falling at a heavy rate (poor horizontal visibility)

Wind Scale

0-10 MPH	Light Breeze	Leaves rustle
10-20 MPH	Light Wind	Small tree branches move; wind extends light flag
20-30 MPH	Mod. Wind	Large branches in motion; umbrella used with difficulty
30-40 MPH	Mod. Gale	Whole trees in motion; difficulty walking against wind
40-50 MPH	Strong Gale	Twigs break off of trees

Temperature

Approximate using a range of 5 degrees Fahrenheit if the actual temperature is not known.

Appendix II - Insignificant Activities Required to be Listed

Minn. R. 7007.1300	Insignificant Activity Description	Applicable Minn. Rule
subp. 3(J)	Fugitive dust emissions from unpaved entrance roads and parking lots	Minn. R. 7011.0150

Minnesota Pollution
Control Agency520 Lafayette Road North
St. Paul, MN 55155-4194

NM-EQ (modified)

Equipment Description and Notification Form

Air Quality Permit Program

Instructions on Page 3

1a) AQ Facility ID (permit) No.: _____ 1b) AQD File No.: _____

2) Facility name: _____

3) Facility Location: _____

Street Address: _____

City: _____ County: _____ Zip: _____

4) Crushing and Screening Operations

Equipment to list includes: crushers, grinding mills, screening operations, bucket elevators, belt conveyors, bagging operations, storage bins, and enclosed truck or railcar loading stations.

							New Source Performance Standard Requirements				
(4a) Type of equipment	(4b) Serial no. or unique ID no.	(4c) Rated capacity (ton/hr)	(4d) Date of mfg.	(4e) Date of installation	(4f) Was/Is unit a replace- ment?	(4g) Is this unit subject to the NSPS?	(4h) Notified/ Notifying construction date*	(4i) Notified/ Notifying start date	(4j) Initial NSPS performance test date	(4k) Location of document showing testing was done	(4l) Equipment is Mobile (M) or Stationary (S)
Example: Jaw Crusher	C-001	350	1987	4/89	No	Yes	Prefab	3/89	7/89	On site	(M)

* Enter "Prefab" in this column if the unit can be considered a mass-produced facility and does not require a construction notification under New Source Performance Standards (NSPS).

Appendix III. Form NM-EQ (modified)

Certification

As a responsible official (defined in Minn. R. 7007.0100, subp. 21), I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

Person(s) certifying this form:

Owner:	Operator (if different)
Name (print): _____	Name (print): _____
Title: _____	Title: _____
Signature: _____	Signature _____
Phone: _____ Fax: _____ Date: _____	Phone: _____ Fax: _____ Date: _____

Form NM-EQ Instructions

Use this form to describe equipment that you own/operate at your facilities subject to the Air Emission Non-metallic General Permit. This will include equipment that is and is not subject to the New Source Performance Standard (NSPS) regulation, 40 CFR pt. 60, subp. OOO, for nonmetallic mineral processing. If used or rental equipment is subject to the NSPS, and all the notification and initial performance testing requirements have been complied with, you do not need to retest the equipment. You do need to include the information for this equipment in a submittal of this NM-EQ form to update the list of your equipment in the file associated with your general permit. You may copy the form as often as you need to but only need to sign one page.

If you are the permittee for a stationary source location which is a multiple-party site, you must take all reasonable measures to insure that all equipment being operated has met the notification and testing requirements of the NSPS. You are not required to repeat the notices and tests if they have been done, but must be able to indicate where the documentation can be found (e.g., the AQD file associated with the general permit held by one or more of your subcontractors).

Instructions for completing Item 4

(4a) Type of equipment - The information in this column should give a brief description of the piece of equipment, for example "jaw crusher". If the equipment was purchased used or is rented, indicate that here. Equipment to list includes: crushers, grinding mills, screening operations, bucket elevators, belt conveyors, bagging operations, storage bins, and enclosed truck or railcar loading stations.

(4b) Serial number or unique ID number - Use a serial number or some other type of identification (ID) number that is unique to each piece of equipment that you list on this form. Make sure this number is one that remains consistent, and is regularly used by your company to identify equipment. You will need to use this number when you submit such things as testing reports to the Minnesota Pollution Control Agency (MPCA) and in the records you keep.

(4c) Rated capacity - List the capacity of each piece of equipment in tons per hour (tph).

(4d) Date of manufacture - Provide the year that the piece of equipment was manufactured. This information is needed to determine whether or not the piece of equipment is subject to the NSPS regulations.

(4e) Date of installation - This is the year that the piece of equipment was first installed *at any site* that you operate. For example, if you brought a screen onto site A in 1984, moved it to site B in 1987, and then moved it to site C in 1990, you would put '1984' in this column. If possible, include the month that the unit was first installed.

(4f) Was/Is unit a replacement? - If a piece of equipment which was manufactured prior to August 31, 1983, is replaced by a similar piece of equipment that was manufactured *after* August 31, 1983, and is of equal or smaller size (capacity in tons per hour), that piece of equipment is not subject to the NSPS regulations (if it would otherwise qualify). As a result, you would not be required to have a performance test done on that equipment. A notification would need to be sent to the MPCA for that change, which needs to include certain information. In order to qualify for this provision, you cannot own or operate the equipment that was replaced after the new equipment becomes operational. The replacement must also happen simultaneously with removal of the old equipment. You cannot use this provision if the replacement equipment was brought on site several weeks after the original equipment was removed. Nor can you use this provision if an entire production line is being replaced.

To illustrate, suppose you wanted to replace a 350 tons per hour jaw crusher which was built in 1967, with a 300 tons per hour jaw crusher built in 1988. Normally, the new jaw crusher would fall under the NSPS regulation. But because it is equal to or smaller than the original jaw crusher, and if the original crusher is no longer owned or operated by your company, you would not need to test the new crusher for NSPS purposes. You would need to send a notification to the MPCA concerning the change, before you make it.

This information is requested to make sure a piece of equipment actually needs to be tested or not. If the piece of equipment is a "replacement," you need to submit documentation of that with this notification (e.g., dated receipt from equipment supplier).

(4g) Is this unit subject to the NSPS subpart OOO?

General criteria for NSPS OOO equipment:

- Equipment must be located at a site where crushing takes place
- Cumulative manufacturer's rated capacity of all initial crushers on site (whether they are currently operating or not) must be over 150 tons per hour. *Initial crusher* is defined in this NSPS regulation (Subpart OOO) and in a practical sense means the first crusher in a series of one or more crushers into which material is fed without prior processing through another crusher.

- Regulated Equipment: Crushers, Screens, Belt Conveyors, Storage Bins (including surge bins), Bucket Elevators, Bagging Operations, Enclosed Truck or Railcar Loading Stations. (Grinding mills are also regulated by the NSPS but do not qualify for coverage under the general permit.)
- Equipment must be manufactured after August 31, 1983.
- If the crushing operation is part of a plant that produces asphalt, then only the equipment that operates in front of the asphalt operation is covered by Subpart OOO. Equipment that is involved in the actual production of asphalt is potentially subject to a different NSPS regulation.

Note: There are certain types of equipment which may appear to fall into one of the above categories, but are not regulated by the NSPS standard, although they are covered under the general permit. They are:

- *Stacking conveyors* - Belt conveyors that are used only for the creation of stockpiles are not covered by this regulation. If you would like to be able to use a stacker as a normal conveyor at some other time, you may want to include it as a conveyor for NSPS notification and testing purposes, so that you have that flexibility in the future. If you have used a stacking conveyor as a normal transfer conveyor in the past, you should report that conveyor as an “affected facility” (assuming it meets all of the other criteria for the NSPS).
- *Loading hoppers* - Any hopper used to feed any other piece of equipment (e.g., crusher, loadout station, etc.).
- Any other type of transfer operation besides belt conveyors, enclosed truck/railcar loading stations, bucket elevators, and storage bins.

(4h) Notified/Notifying construction date - The NSPS requires that companies notify the MPCA when they begin to construct a piece of equipment which is subject to the regulation. Enter the date that the notice was or is being submitted to the MPCA.

Many times, companies will buy equipment that is manufactured by somebody else, or “prefabricated,” and merely put the piece of equipment into the process line. If this is the case, you are not required to send a construction notification to the MPCA. In short, if somebody asked you who manufactured a piece of equipment, like a belt conveyor, and you answer someone other than your own company, that equipment is “Prefabricated.” No construction notice would be required for it. Enter “Prefab” in this column for any equipment to which this exemption applies.

(4i) Notified/Notifying start date - The NSPS also requires that you provide the MPCA with the date that the piece of equipment started to operate *for any reason*. Again, this is only required when the equipment starts operation at its first location. If the equipment moves to another site, you do not have to submit this particular NSPS notification. Enter the date that the notice was or is being submitted to the MPCA.

(4j) Date of initial NSPS performance test - If you have had the piece of equipment tested for NSPS purposes, and the test was done according to Minnesota’s rules for performance testing, enter the date of that test here and retain records which confirm compliance.

(4k) Location of document showing that testing was done - If the equipment is subject to the NSPS and requires testing, enter the location where the test records can be found.

(4l) Equipment - Indicate whether this piece of equipment is mobile (M) or stationary (S).

Appendix IV. Emission Units Authorized to be Constructed

ID no.	Operator ID	Operator Description	Manufacturer	Model Number	Max. Design Capacity	Units Numerator	Units Denominator	Materials
EU 797	86	Generator (Rental) - Reciprocating IC Engine	Caterpillar	DM8500	21.2	Gal	Hr	Diesel Fuel
EU 798	87	Jam Breaker - Material Handling Equipment	BTI	TBD		Ton	Hr	
EU 799	88	Gyratory Crusher	TBD	5474	2250	Ton	Hr	
EU 800	89	Concrete Surge Bin	TBD	TBD	2250	Ton	Hr	
EU 801	90	Feeder	Diester	72 x 16	2250	Ton	Hr	
EU 802	91	Conveyor 1	TBD	54 x 192	2250	Ton	Hr	
EU 803	92	Belt Scale - Material Handling Equipment	TBD	TBD	2250	Ton	Hr	
EU 804	93	Screen	Diester	8 x 20-1D	2250	Ton	Hr	
EU 805	94	Conveyor 2	TBD	48 x 61	400	Ton	Hr	
EU 806	95	Conveyor 3	TBD	54 x 483	2200	Ton	Hr	
EU 807	96	Feeder 54 x 96 Pan	Syntron	MF-400-D	900	Ton	Hr	
EU 808	97	Feeder 54 x 96 Pan	Syntron	MF-400-D	900	Ton	Hr	
EU 809	98	Feeder 54 x 96 Pan	Syntron	MF-400-D	900	Ton	Hr	
EU 810	99	Concrete Surge Tunnel - Material Handling Equipment	TBD	TBD		Ton	Hr	
EU 811	100	Conveyor 4	TBD	48 x 384	1800	Ton	Hr	
EU 812	101	Belt Scale - Material Handling Equipment	TBD	TBD		Ton	Hr	
EU 813	102	Magnet - Other Emission Unit	TBD	TBD		Ton	Hr	
EU 814	103	Metal Detector - Other Emission Unit	TBD	TBD		Ton	Hr	
EU 815	104	Metal Automated Removal	TBD	TBD		Ton	Hr	

		System - Other Emission Unit						
EU 816	105	Screen	Diester	8 x 24- 3D	1800	Ton	Hr	
EU 817	106	Conveyor 5	TBD	36 x 120	600	Ton	Hr	
EU 818	107	Conveyor 6	TBD	36 x 132	600	Ton	Hr	
EU 819	108	75 Ton Bin	TBD	TBD		Ton	Hr	
EU 820	109	75 Ton Bin	TBD	TBD		Ton	Hr	
EU 821	110	Feeder 36 x 120 Pan Retractable	Syntron	MF-200	600	Ton	Hr	
EU 822	111	Feeder 72 x 120 Pan Retractable	Syntron	MF-400	700	Ton	Hr	
EU 823	112	Super Heavy Duty Cone Crusher	Syntron	7 STD	1200	Ton	Hr	
EU 824	113	Cone Crusher	Sandvik	CH 660	700	Ton	Hr	
EU 825	114	Conveyor 7	TBD	54 x 93	200	Ton	Hr	
EU 826	115	Conveyor 8	TBD	30 x 90	300	Ton	Hr	
EU 827	116	Radial Stacker 9 - Other Emission Unit	TBD	30 x 100	600	Ton	Hr	
EU 828	117	Conveyor 10	TBD	36 x 191	700	Ton	Hr	
EU 829	118	Screen	Diester	10 x 20- 2D	700	Ton	Hr	
EU 830	119	Conveyor 11	TBD	30 x 283	700	Ton	Hr	
EU 831	120	50 Ton Bin	TBD	TBD	700	Ton	Hr	
EU 832	121	Belt Feeder 1	TBD	42 x 20	350	Ton	Hr	
EU 833	122	Crusher	Barmac	89000 VSI	350	Ton	Hr	
EU 834	123	Conveyor 12	TBD	48 x 1759	1800	Ton	Hr	
EU 835	124	Belt Scale - Material Handling Equipment	TBD	TBD	1800	Ton	Hr	
EU 836	125	Conveyor 13	TBD	48 x 510	1800	Ton	Hr	

TECHNICAL SUPPORT DOCUMENT
For
AIR EMISSION PERMIT NO. 14500029-003

This technical support document (TSD) is intended for all parties interested in the permit and to meet the requirements that have been set forth by the federal and state regulations (40 CFR § 70.7(a)(5) and Minn. R. 7007.0850, subp. 1). The purpose of this document is to provide the legal and factual justification for each applicable requirement or policy decision considered in the preliminary determination to issue the permit.

1. General Information

1.1 Applicant and Stationary Source Location:

Table 1. Applicant and Source Address

Applicant/Address	Stationary Source/Address (SIC Code: 1423)
Mr. William Gahan, President, Midwest Division 11252 Aurora Ave Des Moines, IA 50322 515-254-0030	Martin Marietta Materials - Saint Cloud Quarry 1450 Division St W Waite Park Stearns County, Minnesota 56387
Contact: Neil Grant, Land/Environmental Manager Phone: 515-697-3425	

1.2 Facility Description

The facility is a non-metallic mineral processing facility that produces crushed and broken granite. Emissions are mostly particulate matter (PM), particulate matter less than 10 microns (PM₁₀), and particulate matter less than 2.5 microns (PM_{2.5}). Emission sources are crushers, screens, conveyors, product handling and stockpiling, and paved and unpaved roads. Emissions are controlled by natural moisture content, rainfall, or the application of water or other dust suppressant when necessary. Nonroad engines may also be present at the facility.

1.3 Description of the Activities Allowed by this Permit Action

This permit action is for a Major Amendment to a non-expiring federally state operating permit. Construction of emission units EU 797 – 836 is authorized through this permit action. Martin Marietta Materials –Saint Cloud Quarry (MMM) is increasing the facility annual production limit from 2,000,000 tons per year to 3,500,000 tons per year based on a 12-month rolling sum. In addition, MMM is increasing the facility annual fines production limit from 50,000 tons per year to 100,000 tons per year also based on a 12-month rolling sum and increasing the maximum number of crushers in operation at any time from 10 to 15. The production increases will also increase truck traffic volumes. The main pollutants of concern from the changes incorporated in this amendment are PM, PM₁₀, and PM_{2.5}.

For this permit action, MMM also is incorporating National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines, 40 CFR pt. 63, subp. ZZZZ and New Source Performance Standards for Stationary Compression Ignition Internal Combustion Engines, 40 CFR pt. 60, subp. IIII. EU 797 is an engine rented by the Permittee each calendar year. EU 797 is not a

nonroad engine because the engine remains at a location for more than 12 consecutive months or a shorter period of time for an engine located at a seasonal source. EU 797 is an engine located at MMM, a seasonal source. A location is any single site at a building, structure, facility, or installation. Any engine that replaces an engine at a location and that is intended to perform the same or similar function as the engine replaced will be included in calculating the consecutive time period.

This major amendment also includes an administrative amendment received on July 6th, 2001 for change in ownership and facility name change. The facility name changed from Martin Marietta Aggregates – Saint Cloud Quarry to Martin Marietta Materials – Saint Cloud Quarry.

1.4 Facility Emissions:

Table 2. Title I Emissions Summary

Pollutant	Unlimited Potential Emissions from the Modification (tpy)	Limited Potential Emissions from the Modification (tpy)	NSR/112(g) Threshold for New Major Source (tpy)	NSR/112(g) Review Required? (Yes/No)
PM	1,196	138.8	250	No
PM ₁₀	451.9	52.54	250	No
PM _{2.5}	51.31	10.22	250	No
NO _x	50.03	50.03	250	No
SO ₂	3.290	3.290	250	No
CO	10.78	10.78	250	No
Ozone (VOC)	4.084	4.084	250	No
Lead	0.000	0.00	250	No
CO ₂ e*	1,852	1,852	100,000	No
Single HAPs	0.0134	0.0134	10	No
Total HAPs	0.0439	0.0439	25	No

*Carbon dioxide equivalents as defined in Minn. R. 7007.0100.

Table 3. Total Facility Potential to Emit Summary

	PM tpy	PM₁₀ tpy	PM_{2.5} tpy	SO₂ tpy	NO_x tpy	CO tpy	CO₂e tpy	VOC tpy	Single HAP tpy	All HAPs tpy
Total Facility Limited Potential Emissions – without fugitives	138.8	52.54	10.22	3.290	50.03	10.78	1,852	4.084	0.0134	0.0439
Total Facility Limited Potential Emissions – with fugitives	271.5	103.2	16.87	3.290	50.03	10.78	1,852	4.084	0.0134	0.0439
Total Facility Actual Emissions (2012)	128.8	46.6	10.7	0.0	0.0	0.0	*	0.0	*	

* Not reported in MN emission inventory.

Table 4. Facility Classification

Classification	Major	Synthetic Minor/Area	Minor/Area
PSD		X	
Part 70 Permit Program		X	
Part 63 NESHAP			X

2. Regulatory and/or Statutory Basis

New Source Review

The existing facility is subject to limits such that all NSR regulated air pollutants are less than the major source thresholds for NSR (40 CFR § 52.21(b)(1)). Therefore, as defined by the federal rules, the facility is not considered an existing major source for NSR.

The potential emissions from the modification are not subject to NSR as shown in Table 2 because the limited emissions do not constitute a major source; therefore, this permit is not subject to NSR and does not change the status of the facility.

Furthermore, the facility is not in a source category listed at 40 CFR Section 52.21(b)(1)(iii), or in a source category for determining major source status under 40 CFR Section 70.2. Therefore, fugitive emissions are not included for purposes of determining PSD and part 70 applicability for this source. However, fugitive emissions are reported in the emissions inventory.

Part 70 Permit Program

The existing facility is a nonmajor source under the Part 70 permit program; therefore this permit does not change the status of the facility.

New Source Performance Standards (NSPS)

New Source Performance Standards 40 CFR pt. 60, subp. OOO and 40 CFR pt. 63, subp. IIII apply to the operations at this facility. 40 CFR pt. 60, subp. OOO applies to each crusher, grinding mill, screening operation, bucket elevator, belt conveyor, bagging operation, storage bin, enclosed truck or railcar loading station that commences construction, modification, or reconstruction after August 31, 1983. Emission units subject to 40 CFR pt. 60, subp. OOO are EU 712 – 718, 721, 723, 724, 726-739, 744, 745, 753, 756, 759-765, 767-785, and 787-836.

40 CFR pt. 60, subp. IIII applies to EU 797 (Generator (Rental) – Reciprocating IC Engine). MMM rents and operates an engine that ceased to qualify as a nonroad engine because the engine remains at a location for more than 12 consecutive months or a shorter period of time for an engine located at a seasonal source. EU 797 is an engine located at MMM, a seasonal source. A location is any single site at a building, structure, facility, or installation. Any engine that replaces an engine at a location and that is intended to perform the same or similar function as the engine replaced will be included in calculating the consecutive time period.

National Emission Standards for Hazardous Air Pollutants (NESHAP)

The facility is an area source of HAP emissions and is subject to the following area source NESHAP; 40 CFR pt. 63, subp. ZZZZ applies to EU 797 (Generator (Rental) – Reciprocating IC Engine).

Minnesota State Rules

Portions of the facility are subject to the following Minnesota Standards of Performance:

- Minn. R. 7011.0715 Standards of Performance for Post 1969 Industrial Process Equipment
- Minn. R. 7011.0710 Standards of Performance for Pre-1969 Industrial Process Equipment
- Minn. R. 7011.3350 Standards of Performance for New Nonmetallic Mineral Processing Plants
- Minn. R. 7011.2300 Standards of Performance for Stationary Internal Combustion Engines

Table 5. Regulatory Overview of Units Affected by the Modification/Permit Amendment

Subject Item*	Applicable Regulations	Rationale
FC	Title I conditions to avoid 40 CFR Section 52.21	Limits set on production and operation to avoid major source classification under 40 CFR Section 52.21 to limit PM, PM ₁₀ , and PM _{2.5} emissions.
GP 001 (NSPS Equipment)	40 CFR pt. 60, subp. OOO	New Source Performance Standards (NSPS) for Nonmetallic Mineral Processing Plants.
GP 002 (Fugitive Sources (non-process equipment))	Title I conditions to avoid 40 CFR Section 52.21	Operational requirements and recordkeeping to avoid major source classification under 40 CFR Section 52.21 to limit PM, PM ₁₀ , and PM _{2.5} emissions.
GP 003 (Process Units)	Minn. R. 7011.0715	Standards of Performance for Post 1969 Industrial Process Equipment
EU 725 (Feed Bin w/Conveyor –Old Feed Bin (61451))	Minn. R. 7011.0710	Standards of Performance for Pre-1969 Industrial Process Equipment
EU 797 (Generator (Rental) – Reciprocating IC Engine)	Minn. R. 7011.2300	Standards of Performance for Stationary Internal Combustion Engines
	40 CFR pt. 63, subp. ZZZZ	National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines
	40 CFR pt. 60, subp. IIII	New Source Performance Standards (NSPS) for Stationary Compression Ignition Internal Combustion Engines

*Location of the requirement in the permit (e.g., EU, SV, GP, etc.).

3. Technical Information

3.1 Calculations of Potential to Emit and Emissions Increase Analysis

Attachment 1 contains detailed spreadsheets and supporting information prepared by the MPCA and the Permittee. Attachment 1 to this TSD also contains the Title I emissions increase calculations for this modification. This demonstrates that this modification is not a major modification for PSD.

3.2 Monitoring

In accordance with the Clean Air Act, it is the responsibility of the owner or operator of a facility to have sufficient knowledge of the facility to certify that the facility is in compliance with all applicable requirements.

In evaluating the monitoring included in the permit, the MPCA considered the following:

- the likelihood of the facility violating the applicable requirements;

- whether add-on controls are necessary to meet the emission limits;
- the variability of emissions over time;
- the type of monitoring, process, maintenance, or control equipment data already available for the emission unit;
- the technical and economic feasibility of possible periodic monitoring methods; and
- the kind of monitoring found on similar units elsewhere.

The table below summarizes the monitoring requirements associated with this amendment.

Table 6. Monitoring

Subject Item*	Requirement (rule basis)	Monitoring	Discussion
FC	Production \leq 3.5 million tons per year of crushed stone (excluding fines), on a 12 month rolling basis (limit to avoid NSR)	Recordkeeping: Daily records of crushing production; monthly records and calculations of the 12-month rolling sum	Records are generated on a daily basis using a production quantity (tons) and material processed or produced.
	Production \leq 100,000 tons per year of crushed fines, on a 12 month rolling basis (limit to avoid NSR)	Recordkeeping: Daily records of fines crushing production; monthly records and calculations of the 12-month rolling sum	
	Number of units in operation at any time; 15 crushers, 20 screens, 100 transfer points	Recordkeeping of the number and type of equipment in operation at the stationary source at any time.	Records are required for each date that any change is made to the type and/or number of equipment at the stationary source.
	Feed material moisture content \geq 1.5% by weight	Material testing, or recordkeeping if testing is unfeasible or the material is removed below the water table	Each different feed material source is sampled and tested using ASTM methods and procedures.
GP 001 (NSPS Equipment)	Opacity: \leq 12 % for crushers (40 CFR pt. 60, subp. OOO, Minn. R. 7011.3350)	Initial performance testing for opacity	Monitoring based on New Source Performance Standards for Nonmetallic Mineral Processing Plants is adequate to have a reasonable assurance of compliance.

Subject Item*	Requirement (rule basis)	Monitoring	Discussion
	Opacity: $\leq 7\%$ (40 CFR pt. 60, subp. OOO, Minn. R. 7011.3350)		This opacity limit is for grinding mills, screening operations, bucket elevators, transfer points on belt conveyors, bagging operations, storage bins, enclosed truck or railcar loading stations or from any other affected facility. Monitoring based on New Source Performance Standards for Nonmetallic Mineral Processing Plants is adequate to have a reasonable assurance of compliance.
GP 003 (Process Units)	PM: ≤ 0.30 gr/dscf (Minn. R. 7011.0715)	No additional monitoring	PM and opacity limits are controlled through feed material moisture content, visible emission checks, and dust suppression
	Opacity: $\leq 20\%$ (Minn. R. 7011.0715)		
EU 725 (Feed Bin w/Conveyor –Old Feed Bin (61451))	PM: ≤ 0.30 gr/dscf (Minn. R. 7011.0710)	No additional monitoring	PM and opacity limits are controlled through feed material moisture content, visible emission checks, and dust suppression
	Opacity: $\leq 20\%$ (Minn. R. 7011.0710)		
EU 797 (Generator (Rental) – Reciprocating IC Engine)	Opacity: $\leq 20\%$ (Minn. R. 7011.2300)	Fuel type and usage recordkeeping	MMM uses diesel fuel by design. The PTE for EU 797, using AP-42, is 0.29 compared to the rule limit of 0.50 lb/MMBtu, therefore no additional monitoring is required.
	SO ₂ : ≤ 0.50 lb/MMBtu heat input (Minn. R. 7011.2300)		
	Emission Limits under 40 CFR pt. 60, subp. IIII will vary depending on the type of CI engine on site.	No additional monitoring	Monitoring based on New Source Performance Standards for Stationary Compression Ignition Internal Combustion Engines is adequate to have a reasonable assurance of compliance.

*Location of the requirement in the permit (e.g., EU, SV, GP, etc.).

3.3 Insignificant Activities

Martin Marietta Materials - Saint Cloud Quarry has one operation classified as an insignificant activity under the MPCA's permitting rules. This operation is unpaved entrance road and parking lot fugitive dust emissions and this is listed in Appendix II to the permit. No other insignificant activities are included in this modification.

3.4 Permit Organization

In general, the permit meets the MPCA Delta Guidance for ordering and grouping of requirements. One area where this permit deviates slightly from Delta guidance is in the use of appendices. While appendices are fully enforceable parts of the permit, in general, any requirement that the MPCA thinks

should be electronically tracked (e.g., limits, submittals, etc.), should be in Table A or B of the permit. The main reason is that the appendices are word processing sections and are not part of the electronic tracking system. Violation of the appendices can be enforced, but the computer system will not automatically generate the necessary enforcement notices or documents. Staff must generate these.

Another area that deviates from the guidance is in the use of groups where the requirements in the group apply to the members of the group individually. This was done in order to shorten the permit and where no testing or tracking specific to a unit is in the permit (thereby reducing the likelihood that there will be further unit-specific requirements later). This is the case for the requirements at GP 003 (Process Units).

3.5 Comments Received

Public Notice Period: August 14th, 2014 – September 12th, 2014

EPA 30-day Review Period: August 14th, 2014 – September 12th, 2014

No comments were received.

4. Permit Fee Assessment

Attachment 3 to this TSD contains the MPCA's assessment of Application and Additional Points used to determine the permit application fee for this permit action as required by Minn. R. 7002.0019. The permit action includes two permit applications, one of which was received after the effective date of the rule (July 1, 2009). The administrative amendment application that was received July 6, 2001, before the effective date of the rule, so only the additional fees apply to the changes requested by that application. The action includes the incorporation of 40 CFR pt. 60, subp. OOO, however this was an existing standard that applied to the facility and is not a chargeable activity (i.e., the standard was not triggered by the changes requested in the permit applications). Additional fees do apply however for the incorporation of 40 CFR pt. 63, subp. ZZZZ and 40 CFR pt. 60, subp. IIII because these standards are included in the permit for a new emission unit.

5. Conclusion

Based on the information provided by Neil Grant and Marley Ayres of Pinnacle Engineering, the MPCA has reasonable assurance that the proposed operation of the emission facility, as described in the Air Emission Permit No. 14500029-003 and this TSD, will not cause or contribute to a violation of applicable federal regulations and Minnesota Rules.

Staff Members on Permit Team: Andrea Walkush (permit engineer)
David Crowell (enforcement)
Ladislaus Strzok (compliance)
Amrill Okonkwo (peer reviewer)
Beckie Olson (permit writing assistant)
Sandra Simbeck (administrative support)

AQ File No. 2110A; DQ 4739, 4715, 4663, 2742

Attachments:

Attachment 1
PTE Summary and Emissions Increase Calculation Spreadsheets
Also available electronically in the Central File of Delta

Attachment 2
Facility Description and CD-01 Forms
Also available electronically in the Central File of Delta

Attachment 3
Points Calculator
Also available electronically in the Central File of Delta

Attachment 1 – PTE Summary and Emission Increase Calculation Spreadsheets

PROPOSED THROUGHPUT - PTE AT STATIONARY SOURCES WITH ANNUAL PRODUCTION LIMIT (WET SUPPRESSION):

EQUIPMENT	NO. OF UNITS	PROPOSED THROUGHPUT (tons/yr)	MAX CAPACITY (tons/hr)	PM EMIS. FACTOR (lb/ton)	PM10 EMIS. FACTOR (lb/ton)	PM2.5 EMIS. FACTOR (lb/ton)	PM/PM10 UNITS	PM PTE (tons/yr)	PM PTE (lb/hr)	PM10 PTE (tons/yr)	PM10 PTE (lb/hr)	PM2.5 PTE (tons/yr)	PM2.5 PTE (lb/hr)
Crusher	15	3,500,000	2,250	0.0012	0.00054	0.0001	lb/ton	31.50	40.50	14.18	18.23	2.63	3.38
Screen	20	3,500,000	2,250	0.0022	0.00074	0.00005	lb/ton	77.00	99.00	25.90	33.30	1.75	2.25
Transfer Pts.	100	3,500,000	2,250	0.00014	0.000046	0.000013	lb/ton	24.50	31.50	8.05	10.35	2.28	2.93
TOTAL								133.00		48.13		6.65	

EMISSIONS INCREASE

LIMITED CONTROLLED PTE AT STATIONARY SOURCES (WET SUPPRESSION):

	PM (tons/yr)	PM (lb/hr)	PM10 (tons/yr)	PM10 (lb/hr)	PM2.5 (tons/yr)	PM2.5 (lb/hr)	SO2 (tons/yr)	SO2 (lb/hr)	CO (tons/yr)	CO (lb/hr)	VOC (tons/yr)	VOC (lb/hr)	NOx (tons/yr)	NOx (lb/hr)	CO2e (tons/yr)	CO2e (lb/hr)
Crusher	31.50	40.50	14.18	18.23	2.63	3.38	-	-	-	-	-	-	-	-	-	-
Screen	77.00	99.00	25.90	33.30	1.75	2.25	-	-	-	-	-	-	-	-	-	-
Transfer Pts.	24.50	31.50	8.05	10.35	2.28	2.93	-	-	-	-	-	-	-	-	-	-
Fines Crushing	2.25	101.25	0.90	40.50	0.05	2.36										
Generator	3.52	0.80	3.52	0.80	3.52	0.80	3.29	0.75	10.78	2.46	4.08	0.93	50.03	11.42	1,852	423
Total	138.77	273.05	52.54	103.18	10.22	11.72	3.29	0.75	10.78	2.46	4.08	0.93	50.03	11.42	1,852	423

EMISSIONS INCREASE

FUGITIVE EMISSIONS ESTIMATES

	PM (tons/yr)	PM (lb/hr)	PM10 (tons/yr)	PM10 (lb/hr)	PM2.5 (tons/yr)	PM2.5 (lb/hr)
Fugitive TP - loading pts	4.14	5.33	1.96	2.52	0.30	0.38
Storage Piles- load out	4.14	5.33	1.96	2.52	0.30	0.38
Storage Piles- erosion	52.37	11.96	26.18	5.98	4.00	0.91
Unpaved Roads	72.07	89.62	20.52	25.51	2.05	2.55
Total	132.72	112.23	50.62	36.53	6.65	4.23

Limited Increase	138.77	273.05	52.54	103.18	10.22	11.72	3.29	0.75	10.78	2.46	4.08	0.93	50.03	11.42	1,852	423
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*Fugitive emissions are not included for purposes of determining PSD and Part 70 applicability for this source. This is because the source is not in any of the source categories listed at 40 CFR Section 52.21(b)(1)(iii) or in any of the source categories that include fugitive emissions in the major source definition at 40 CFR Section 70.2. However, fugitive emissions are reported in the emissions inventory so the total limited controlled PTE including fugitives has been included

Limited Increase w/ Fugitives	271.49	385.28	103.16	139.71	16.87	15.94	3.29	0.75	10.78	2.46	4.08	0.93	50.03	11.42	1,852	423
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EMISSIONS INCREASE

UNLIMITED CONTROLLED PTE AT STATIONARY SOURCES (WET SUPPRESSION):

	PM (tons/yr)	PM (lb/hr)	PM10 (tons/yr)	PM10 (lb/hr)	PM2.5 (tons/yr)	PM2.5 (lb/hr)	SO2 (tons/yr)	SO2 (lb/hr)	CO (tons/yr)	CO (lb/hr)	VOC (tons/yr)	VOC (lb/hr)	NOx (tons/yr)	NOx (lb/hr)	CO2e (tons/yr)	CO2e (lb/hr)
Crusher	177.39	40.50	79.83	18.23	14.78	3.38	-	-	-	-	-	-	-	-	-	-
Screen	433.62	99.00	145.85	33.30	9.86	2.25	-	-	-	-	-	-	-	-	-	-
Transfer Pts.	137.97	31.50	45.33	10.35	12.81	2.93	-	-	-	-	-	-	-	-	-	-
Fines Crushing	443.48	101.25	177.39	40.50	10.35	2.36										
Generator	3.52	0.80	3.52	0.80	3.52	0.80	3.290	0.75	10.78	2.46	4.084	0.93	50.03	11.42	1,852	423
Total	1195.97	273.05	451.92	103.18	51.31	11.72	3.290	0.75	10.78	2.46	4.084	0.93	50.03	11.42	1,852	423

EMISSIONS INCREASE

FUGITIVE EMISSIONS ESTIMATES

	PM (tons/yr)	PM (lb/hr)	PM10 (tons/yr)	PM10 (lb/hr)	PM2.5 (tons/yr)	PM2.5 (lb/hr)
Fugitive TP - loading pts	4.14	5.33	1.96	2.52	0.30	0.38
Storage Piles- load out	4.14	5.33	1.96	2.52	0.30	0.38
Storage Piles- erosion	52.37	11.96	26.18	5.98	4.00	0.91
Unpaved Roads	72.07	89.62	20.52	25.51	2.05	2.55
Total	132.72	112.23	50.62	36.53	6.65	4.23

Unlimited Increase	1195.97	273.05	451.92	103.18	51.31	11.72	3.290	0.75	10.78	2.46	4.084	0.93	50.03	11.42	1,852	423
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Unlimited Increase w/ Fugitives	1328.70	385.28	502.54	139.71	57.96	15.94	3.290	0.75	10.78	2.46	4.084	0.93	50.03	11.42	1,852	423
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MARTIN MARIETTA MATERIALS INC.
ST. CLOUD QUARRY, WAITE PARK, MN
MPCA AIR EMISSIONS PERMIT NO. 14500029

I. EMISSIONS CALCULATIONS - POTENTIAL TO EMIT - UNCONTROLLED EMISSIONS

PERMITTED UNITS- MAXIMUM UNCONTROLLED EMISSIONS AT STATIONARY SOURCES (NO WET SUPPRESSION):

EQUIPMENT	NO. OF UNITS	DESIGN CAPACITY (tons/hr)	PM EMIS. FACTOR (lb/ton)	PM10 EMIS. FACTOR (lb/ton)	PM2.5 EMIS. FACTOR * (lb/ton)	PM/PM10 UNITS	PM PTE (tons/yr)	PM PTE (lb/hr)	PM10 PTE (tons/yr)	PM10 PTE (lb/hr)	PM2.5 PTE (tons/yr)	PM2.5 PTE (lb/hr)
Crusher	10	1,250	0.0054	0.0024	0.0024	lb/ton	295.65	67.50	131.40	30.00	131.40	30.00
Screen	20	1,250	0.025	0.0087	0.0087	lb/ton	2737.50	625.00	952.65	217.50	952.65	217.50
Transfer Pts.	100	1,250	0.003	0.0011	0.0011	lb/ton	1642.50	375.00	602.25	137.50	602.25	137.50
TOTAL							4675.65	1067.50	1686.30	385.00	1686.30	385.00

PROPOSED UNITS- MAXIMUM UNCONTROLLED EMISSIONS AT STATIONARY SOURCES (NO WET SUPPRESSION):

EQUIPMENT	NO. OF UNITS	DESIGN CAPACITY (tons/hr)	PM EMIS. FACTOR (lb/ton)	PM10 EMIS. FACTOR (lb/ton)	PM2.5 EMIS. FACTOR * (lb/ton)	PM/PM10 UNITS	PM PTE (tons/yr)	PM PTE (lb/hr)	PM10 PTE (tons/yr)	PM10 PTE (lb/hr)	PM2.5 PTE (tons/yr)	PM2.5 PTE (lb/hr)
Crusher	15	2,250	0.0054	0.0024	0.0024	lb/ton	798.26	182.25	354.78	81.00	354.78	81.00
Screen	20	2,250	0.025	0.0087	0.0087	lb/ton	4927.50	1125.00	1714.77	391.50	1714.77	391.50
Transfer Pts.	100	2,250	0.003	0.0011	0.0011	lb/ton	2956.50	675.00	1084.05	247.50	1084.05	247.50
TOTAL							8682.26	1982.25	3153.60	720.00	3153.60	720.00

II. EMISSIONS CALCULATIONS - POTENTIAL TO EMIT - CONTROLLED EMISSIONS

PERMITTED UNITS- MAXIMUM CONTROLLED EMISSIONS AT STATIONARY SOURCES (WET SUPPRESSION EMISSION FACTORS PROVIDED):

EQUIPMENT	NO. OF UNITS	DESIGN CAPACITY (tons/hr)	PM EMIS. FACTOR (lb/ton)	PM10 EMIS. FACTOR (lb/ton)	PM2.5 EMIS. FACTOR (lb/ton)	PM/PM10 UNITS	PM PTE (tons/yr)	PM PTE (lb/hr)	PM10 PTE (tons/yr)	PM10 PTE (lb/hr)	PM2.5 PTE (tons/yr)	PM2.5 PTE (lb/hr)
Crusher	10	1,250	0.0012	0.00054	0.0001	lb/ton	65.70	15.00	29.57	6.75	5.48	1.25
Screen	20	1,250	0.0022	0.00074	0.00005	lb/ton	240.90	55.00	81.03	18.50	5.48	1.25
Transfer Pts.	100	1,250	0.00014	0.000046	0.000013	lb/ton	76.65	17.50	25.19	5.75	7.12	1.63
TOTAL							383.25	87.50	135.78	31.00	18.07	4.13

PROPOSED UNITS- MAXIMUM CONTROLLED EMISSIONS AT STATIONARY SOURCES (WET SUPPRESSION EMISSION FACTORS PROVIDED):

EQUIPMENT	NO. OF UNITS	DESIGN CAPACITY (tons/hr)	PM EMIS. FACTOR (lb/ton)	PM10 EMIS. FACTOR (lb/ton)	PM2.5 EMIS. FACTOR (lb/ton)	PM/PM10 UNITS	PM PTE (tons/yr)	PM PTE (lb/hr)	PM10 PTE (tons/yr)	PM10 PTE (lb/hr)	PM2.5 PTE (tons/yr)	PM2.5 PTE (lb/hr)
Crusher	15	2,250	0.0012	0.00054	0.0001	lb/ton	177.39	40.50	79.83	18.23	14.78	3.38
Screen	20	2,250	0.0022	0.00074	0.00005	lb/ton	433.62	99.00	145.85	33.30	9.86	2.25
Transfer Pts.	100	2,250	0.00014	0.000046	0.000013	lb/ton	137.97	31.50	45.33	10.35	12.81	2.93
TOTAL							748.98	171.00	271.01	61.88	37.45	8.55

- NOTES:
1. Emission factors taken from AP-42, Table 11.19.2-2 for uncontrolled sources and controlled sources with wet suppression (lb/ton)
 2. Aggregate moisture content is maintained at 1.5% or greater in accordance with permit requirements.
 3. Aggregate production limit imposed on a 12-month rolling average in accordance with Title I permit condition (Synthetic Minor Permit).
 4. Equipment limited to 10 crushers, 20 screens and 100 transfer points in accordance with current Title I permit condition.
 5. Emissions estimates are biased high: All crushers, screens, and transfer points cannot operate at the given maximum capacities, or process the proposed throughput due to bottlenecks.

MARTIN MARIETTA MATERIALS INC.
ST. CLOUD QUARRY, WAITE PARK, MN
MPCA AIR EMISSIONS PERMIT NO. 14500029

V. POTENTIAL EMISSIONS CALCULATIONS FOR STATIONARY SOURCES - FINES CRUSHING

A. EMISSIONS CALCULATED FROM MAXIMUM DESIGN CAPACITY

PERMITTED THROUGHPUT

EQUIPMENT	NO. OF UNITS	DESIGN CAPACITY (tons/hr)	PM EMIS. FACTOR (lb/ton)	PM10 EMIS. FACTOR (lb/ton)	PM2.5 EMIS. FACTOR * (lb/ton)	PM PTE (tons/yr)	PM PTE (lb/hr)	PM10 PTE (tons/yr)	PM10 PTE (lb/hr)	PM2.5 PTE (tons/yr)	PM2.5 PTE (lb/hr)
UNCONTROLLED PTE:											
Crusher	10	1,250	0.039	0.015	0.015	2135.25	487.50	821.25	187.50	821.25	187.50
CONTROLLED PTE:											
Crusher	10	1,250	0.003	0.0012	0.00007	164.25	37.50	65.70	15.00	3.83	0.88

PROPOSED THROUGHPUT

EQUIPMENT	NO. OF UNITS	DESIGN CAPACITY (tons/hr)	PM EMIS. FACTOR (lb/ton)	PM10 EMIS. FACTOR (lb/ton)	PM2.5 EMIS. FACTOR (lb/ton)	PM PTE (tons/yr)	PM PTE (lb/hr)	PM10 PTE (tons/yr)	PM10 PTE (lb/hr)	PM2.5 PTE (tons/yr)	PM2.5 PTE (lb/hr)
UNCONTROLLED PTE:											
Crusher	15	2,250	0.039	0.015	0.015	5765.18	1316.25	2217.38	506.25	2217.38	506.25
CONTROLLED PTE:											
Crusher	15	2,250	0.003	0.0012	0.00007	443.48	101.25	177.39	40.50	10.35	2.36

B. EMISSIONS CALCULATED FROM PERMIT LIMIT ON ANNUAL PRODUCTION

PERMITTED THROUGHPUT - CONTROLLED LIMITED PTE

EQUIPMENT	NO. OF UNITS	CURRENT THROUGHPUT (tons/yr)	PM EMIS. FACTOR (lb/ton)	PM10 EMIS. FACTOR (lb/ton)	PM2.5 EMIS. FACTOR (lb/ton)	PM PTE (tons/yr)	PM PTE (lb/hr)	PM10 PTE (tons/yr)	PM10 PTE (lb/hr)	PM2.5 PTE (tons/yr)	PM2.5 PTE (lb/hr)
Crusher	10	50,000	0.003	0.0012	0.00007	0.75	37.50	0.30	15.00	0.02	0.88

PROPOSED THROUGHPUT - CONTROLLED LIMITED PTE

EQUIPMENT	NO. OF UNITS	PROPOSED THROUGHPUT (tons/yr)	PM EMIS. FACTOR	PM10 EMIS. FACTOR	PM2.5 EMIS. FACTOR	PM PTE (tons/yr)	PM PTE (lb/hr)	PM10 PTE (tons/yr)	PM10 PTE (lb/hr)	PM2.5 PTE (tons/yr)	PM2.5 PTE (lb/hr)
Crusher	15	100,000	0.003	0.0012	0.00007	2.25	101.25	0.90	40.50	0.05	2.36

- NOTES:
1. Emission factors taken from AP-42, Table 11.19.2-2 for uncontrolled sources and controlled sources with wet suppression (lb/ton)
 2. Aggregate moisture content is maintained at 1.5% or greater in accordance with permit requirements.
 3. Fines (less than or equal to 3/16") production limit imposed on a 12-month rolling average in accordance with Title I permit condition (Synthetic Minor Permit).
 4. Equipment limited to 10 crushers in accordance with current Title I permit condition.
 6. Emissions estimates are biased high: All crushers listed cannot process the proposed throughput of 100,000 TPY due to process flow limitations (bottlenecks).

Engine:	EPA Certification Level	Engine hp:	Engine MMBtu/hr [1]:	Max (Limited PTE) Hrs/Yr	Actual Hrs/Yr
275 eKW (EU 086)	Tier III	370.00	2.59	8760.00	30.00

Pollutant	Emission Factor (lb/MMBtu) [2]	Emission Factor (g/hp-hr) [3]	Capacity (MMBtu/hr)	Emission Rate (lb/hr)	PTE (tpy)	Manufacturer Certified PTE (tpy)	Actual (tpy)
Criteria Air Pollutants							
NO _x	4.41	3.7	2.59	11.42	50.03	13.22	4.53E-02
CO	0.95	0.23	2.59	2.46	10.78	0.82	2.81E-03
PM	0.31		2.59	0.80	3.52	3.52	1.20E-02
PM ₁₀	0.31	0.030	2.59	0.80	3.52	0.11	3.67E-04
PM _{2.5}	0.31	0.030	2.59	0.80	3.52	0.11	3.67E-04
SO ₂	0.29		2.59	0.75	3.29	3.29	1.13E-02
VOC	0.36	0.07	2.59	0.93	4.08	0.25	8.57E-04
CO ₂	162.7		2.59	421.4	1,846	1,846	6.32
CH ₄	0.0066		2.59	0.02	0.07	0.07	2.56E-04
N ₂ O	0.0013		2.59	0.00	0.01	0.01	5.13E-05
CO ₂ e	-	-	-	422.9	1,852	1,852	6.34
Hazardous Air Pollutants							
Benzene	9.33E-04	-	2.59	2.42E-03	1.06E-02	1.06E-02	3.62E-05
Toluene	4.09E-04	-	2.59	1.06E-03	4.64E-03	4.64E-03	1.59E-05
Xylene	2.85E-04	-	2.59	7.38E-04	3.23E-03	3.23E-03	1.11E-05
1,3-Butadiene	3.91E-05	-	2.59	1.01E-04	4.44E-04	4.44E-04	1.52E-06
Formaldehyde	1.18E-03	-	2.59	3.06E-03	1.34E-02	1.34E-02	4.58E-05
Acetaldehyde	7.67E-04	-	2.59	1.99E-03	8.70E-03	8.70E-03	2.98E-05
Acrolein	9.25E-05	-	2.59	2.40E-04	1.05E-03	1.05E-03	3.59E-06
Naphthalene	8.48E-05	-	2.59	2.20E-04	9.62E-04	9.62E-04	3.29E-06
POM	8.32E-05	-	2.59	2.15E-04	9.44E-04	9.44E-04	3.23E-06
Total HAPs				1.00E-02	4.39E-02	4.39E-02	1.92E-01
Single Largest HAP [4]				3.06E-03	1.34E-02	1.34E-02	4.58E-05

Notes:

[1] Calculated using EPA AP-42 Table 3.3.-1 conversion factor of 7,000 Btu/hp-hr.

[2] Diesel emission factors taken from EPA AP-42 Section 3.3 Gasoline and Diesel Industrial Engines

[3] Emission factors are provided by the engine manufacturer.

[4] The highest single HAP for the diesel engines is formaldehyde.

MARTIN MARIETTA MATERIALS INC.
ST. CLOUD QUARRY, WAITE PARK, MN
MPCA AIR EMISSIONS PERMIT NO. 14500029
FUGITIVE AIR EMISSIONS CALCULATIONS

PERMITTED LIMITED FUGITIVE EMISSIONS ESTIMATES:

EQUIPMENT	SCC Code	NO. OF UNITS	PERMITTED CAPACITY (tph)	ANNUAL THROUGHPUT	THROUGHPUT UNITS	PM EMISSION FACTOR	PM10 EMISSION FACTOR	PM2.5 EMISSION FACTOR*	E.F. UNITS
Fugitive TP - loading pts	30502006	NA	1250	2,000,000	tons/yr	0.00237	0.00112	0.00017	lb/ton
Storage Piles- load out	30502507	NA	1250	2,000,000	tons/yr	0.00237	0.00112	0.00017	lb/ton
Storage Piles- erosion	30502507	NA	NA	26	acres	2992	1496	229	lb/acre-yr
Unpaved Roads	NA	NA	NA	60,000	VMT/yr	See Attached	See Attached	See Attached	lb/VMT
EQUIPMENT	PM PTE (tons/yr)	PM PTE (lb/hr)	PM10 PTE (tons/yr)	PM10 PTE (lb/hr)	PM2.5 PTE (tons/yr)	PM2.5 PTE (lb/hr)			
Fugitive TP - loading pts	2.4	3.0	1.1	1.4	0.2	0.2			
Storage Piles- load out	2.4	3.0	1.1	1.4	0.2	0.2			
Storage Piles- erosion	38.9	8.9	19.5	4.4	3.0	0.7			
Unpaved Roads	92.6	21.1	27.1	6.2	2.7	0.6			
TOTAL	136.2	35.9	48.8	13.4	6.0	1.7			

PROPOSED LIMITED FUGITIVE EMISSIONS ESTIMATES:

EQUIPMENT	SCC Code	NO. OF UNITS	PERMITTED CAPACITY (tph)	ANNUAL THROUGHPUT	THROUGHPUT UNITS	PM EMISSION FACTOR	PM10 EMISSION FACTOR	PM2.5 EMISSION FACTOR*	E.F. UNITS
Fugitive TP - loading pts	30502006	NA	2250	3,500,000	tons/yr	0.00237	0.00112	0.00017	lb/ton
Storage Piles- load out	30502507	NA	2250	3,500,000	tons/yr	0.00237	0.00112	0.00017	lb/ton
Storage Piles- erosion	30502507	NA	NA	35	acres	2992	1496	229	lb/acre-yr
Unpaved Roads	NA	NA	NA	96,137	VMT/yr	See Attached	See Attached	See Attached	lb/VMT
EQUIPMENT	PM PTE (tons/yr)	PM PTE (lb/hr)	PM10 PTE (tons/yr)	PM10 PTE (lb/hr)	PM2.5 PTE (tons/yr)	PM2.5 PTE (lb/hr)			
Fugitive TP - loading pts	4.1	5.3	2.0	2.5	0.3	0.4			
Storage Piles- load out	4.1	5.3	2.0	2.5	0.3	0.4			
Storage Piles- erosion	52.4	12.0	26.2	6.0	4.0	0.9			
Unpaved Roads	72.1	89.6	20.5	25.5	2.1	2.6			
TOTAL	132.72	112.23	50.62	36.53	6.65	4.23			

*PM10 emission factors used as an upper limit for PM2.5 emission factors not listed in AP-42/WebFIRE.
** PM10 emission factors used as upper limits for PM and PM2.5 emission factors not listed in AP-42/WebFIRE.

- Notes:
1. Potential emissions from the plant's fugitive transfer points are calculated from equipment design and # of transfer points allowed by the permit Emissions factors with wet suppression are used.
 2. Potential emissions from loading points are calculated assuming all drop points are in use and equally distributing product flow
 3. Potential emissions from storage piles are calculated from maximum storage area and storage duration of 365 days/yr
 4. Emission factors for unpaved roads were calculated using the AP42 formula. (See attached worksheets.
 5. Maximum PTE based on 24 hour operation (8760 hrs/wk). Emission rates based on typical operation of 60 hrs/wk, 36 weeks/yr (2160 hrs/yr)

The following equations were used to determine the emission rates for particulate emissions from fugitive transfer points at the plant:

Emissions Rate (lb/hr) = N * V * E

Emissions Rate (ton/yr) = Emissions Rate (lb/hr) * (8760 hr/yr) / (2000 lb/ton)

E = emission factor (lb/ton), Taken from AP-42, Table 11.19.2-2 for controlled conveyor transfer points

Where:

N = maximum number of units

V = maximum operating rate of unit (ton/hr)

The following equations were used to determine the emission rates for particulate emissions from fugitive load out transfer points from conveyor drop onto storage piles, and during active loading from storage piles for shipment:

Emissions Rate (lb/hr) = V * E

E = emission factor (lb/ton) = 0.0032 * k * (u/5)^{1.3} / (m/2)^{1.4} Taken from AP-42, Chapter 13.2.4 for batch or continuous drop operations

Where:

u = mean wind speed, 5 mph

m = average moisture content, 2 % from AP-42, Table 13.2.4-1

k = particle size multiplier

k (PM) = 0.74

k (PM10) = 0.35

k (PM2.5) = 0.053

Martin Marietta Materials, Inc.

AQD File Number 14500029

The following equation was used to determine the emission rates for particulate emissions from wind erosion of storage pile

Emissions Rate (lb/hr) = A * T * E

E = emission factor (lb/acre-yr) = k * (s/1.5) * [365 * (365-p)/235] * (f/15)

Emission Factor taken from US EPA's Air/Superfund National Technical Guidance Study Series, Volume III (1989)

Where:

T = Storage duration, 365 days / 24 hours a day

A = available storage pile area (acres)

k = particle size multiplier

s = silt content, 4% from AP-42, Table 13.2.4-1

p = number of days with at least 0.01 inches of precipitation

f = 110 days from AP-42, Figure 13.2.2-1

f = % of time unobstructed wind speed is >12 mph, 25%

k (PM) = 1.7

From AP-42, page 13.2.5-3:

k (PM10) = 0.5 * k (PM) = 0.85

k (PM2.5) = 0.075 * k (PM) = 0.13

Unpaved Roads Fugitive Particulate Emissions Estimates
 Martin Marietta Materials, Inc.
 AQD File Number 14500029

Activity	s	S [Note 1]	w	Empty Weight	Load Weight	W (ave.)	PM Emission Factor	PM10 Emission Factor	PM2.5 Emission Factor	Roundtrip Miles (permitted estimate)	# trips per year (permitted estimate)	Roundtrip Miles (proposed estimate) [Note 5]	# trips per year (proposed estimate) [Note 4]	#Trip/hr [Note 2]
Loader in Pit	10	2.5	4	100	23	111.5	15.33	4.53	0.45	0.019	164,500	0.019	152,174	98
Haul Truck Rainbow Pit	8.3	20	6	70	70	105	13.10	3.72	0.37	1.515	12,720	1.0400	20,000	13
Haul Truck North Pit	8.3	20	6	70	70	105	13.10	3.72	0.37	0.947	20,150	0.7600	30,000	20
Loader to Stockpiles	8.3	5	4	46.6	10	51.6	9.51	2.71	0.27	0.265	10,800	0.265	18,900	13
Loader to Customer Trucks	8.3	2.5	4	46.6	10	51.6	9.51	2.71	0.27	0.019	135,600	0.019	237,300	94
Customer Truck Traffic	8.3	8	18	15	25	27.5	7.17	2.04	0.20	0.265	49,300	0.265	86,275	34
Loader into Trains	8.3	2.5	4	62.5	16	70.5	10.95	3.11	0.31	0.028	495	0.028	1,600	3

NOTES:

1. Permitted fugitive emissions calculations did not account for vehicle speed (S); proposed fugitive emissions do account for speed (S)
2. Haul truck loading estimates based on maximum throughput: 2250 tpy/ 70 tons per truck = 38 trucks per hour. Assumed 40% from Rainbow and 60% from North Pit.
3. Based upon crusher size, assumed 1/3 of traffic still being driven to old plant.
4. Permitted estimates are based on load weights of 16 tons per load, however the estimate calculation cannot be confirmed. The proposed estimates are based upon the annual limit and loading weight of the loader, or on the increase in production limit (2,000,000 * 1.75 = 3,500,000).
5. The proposed road lengths have decreased for both the rainbow and north pits. This decrease will come into effect when the new primary crusher is installed. The location of the primary crusher is closer to the loading operations in both pits. Once the new crusher is installed, the old primary crusher will be obsolete and the new shorter road put into effect.

Unpaved Roads Fugitive Particulate Emissions Estimates
 Martin Marietta Materials, Inc.
 AQD File Number 14500029

The following equation was used to determine the emission factor for particulate emissions from unpaved roads.

$$E = k (s/12)^a (W/3)^b$$

The extrapolated emission factor has given in lb/VMT

$$E (ext) = E * [(365-p)/365]$$

Where: given in lb/VMT

s = silt content of road material (%)

S = mean vehicle speed (mph)

W = mean vehicle weight (ton)

p = number of days with at least 0.01 inches of precipitation

p = 110 days from AP-42, Figure 13.2.2-1

Constants are taken from AP-42, Table 13.2.2-2 for industrial roads

k (PM) = 4.9 lb/VMT

k (PM10) = 1.5 lb/VMT

k (PM2.5) = 0.15 lb/VMT

a (PM) = 0.7

a (PM10) = 0.9

a (PM2.5) = 0.9

b (PM) = b (PM10) = b (PM2.5) = 0.45

Unpaved Roads Fugitive Particulate Emissions Calculations
Martin Marietta Materials, Inc.
AQD File Number 14500029

PERMITTED ESTIMATED EMISSIONS								PROPOSED ESTIMATED EMISSIONS							
Activity	PM Emission Factor (lb/VMT)	Vehicle miles traveled per year (permit estimate)	PM Emission Rate (lb/yr)	PM Uncontrolled Emissions (tons/yr)	PM Pollution Control Efficiency *	PM Controlled Emissions (lb/hr)	PM Controlled Emissions (tons/yr)	PM Emission Factor (lb/VMT)	Vehicle miles traveled (per hr)	Vehicle miles traveled per yr (proposed estimate)	PM Uncontrolled Emission Rate (lb/hr)	PM Emission Rate (lb/yr)	PM Uncontrolled Emissions (tons/yr)	PM Pollution Control Efficiency	PM Controlled Emissions (tons/yr)
Loader in pit	12.47	3,126	38,975	19.487	75%	1.11	4.87	15.33	2	2,891	29	44,328	22.164	90%	2.22
Haul Truck Rainbow Pit	14.50	19,271	279,427	139.713	75%	7.97	34.93	13.10	13.52	20,800	177	272,436	136.218	80%	27.24
Haul Truck North Pit	14.50	19,082	276,690	138.345	75%	7.90	34.59	13.10	15.20	22,800	199	298,632	149.316	80%	29.86
Loader to Stockpiles	9.51	2,862	27,218	13.609	75%	0.78	3.40	9.51	3	5,009	33	47,650	23.825	90%	2.38
Loader to Customer Trucks	9.51	2,576	24,489	12.244	75%	0.70	3.06	9.51	2	4,509	17	42,895	21.448	90%	2.14
Customer Truck Traffic	7.17	13,065	93,672	46.836	75%	2.67	11.71	7.17	9	22,863	65	163,869	81.935	90%	8.19
Loader into Trains	10.95	14	151.77	0.076	75%	0.00	0.0190	10.95	0.0840	45	1	490	0.245	90%	0.02
SUM	78.61	59,995 VMT		370.311 TONS/YR		21.14 LB/HR	92.58 TONS/YR	78.67	45 VMT/hr	78,916 VMT/yr	520 LB/HR		435.151 TONS/YR		72.07 TONS/YR

* Pollution control efficiency estimated from AP-42 Figure 13.2.2-2 for water spray used as dust control for unpaved roads, when precipitation; and is absent, with a Moisture Ratio of 2.0 or greater.

* Pollution control efficiency based on 10 mph posted speed limit, and 20 mph posted speed limit for haul trucks traveling to and from the Rainbow and North pits (WRAP Fugitive Dust Handbook, September 2000).

Unpaved Roads Fugitive Particulate Emissions Calculations
Martin Marietta Materials, Inc.
AQD File Number 14500029

PERMITTED ESTIMATED EMISSIONS								PROPOSED ESTIMATED EMISSIONS							
Activity	PM 10 Emission Factor (lb/VMT)	Vehicle miles traveled	PM 10 Emission Rate (lb/yr)	PM 10 Uncontrolled Emissions (tons/yr)	PM 10 Pollution Control Efficiency	PM 10 Controlled Emissions (lb/hr)	PM 10 Controlled Emissions (tons/yr)	PM 10 Emission Factor (lb/VMT)	Vehicle miles traveled (per hr)	Vehicle miles traveled (per year)	PM 10 Uncontrolled Emission Rate (lb/hr)	PM 10 Emission Rate (lb/yr)	PM 10 Uncontrolled Emissions (tons/yr)	PM 10 Pollution Control Efficiency	PM 10 Controlled Emissions (tons/yr)
Loader in pit	3.68	3,126	11,502	5.751	75%	0.33	1.44	4.53	2	2,891	8	13,084	6.542	90%	0.65
Haul Truck Rainbow Pit	4.28	19,271	82,479	41.240	75%	2.35	10.31	3.72	13.52	20,800	50	77,471	38.736	80%	7.75
Haul Truck North Pit	4.28	19,082	81,671	40.836	75%	2.33	10.21	3.72	15.20	22,800	57	84,920	42.460	80%	8.49
Loader to Stockpiles	2.71	2,862	7,756	3.878	75%	0.22	0.97	2.71	3	5,009	9	13,550	6.775	90%	0.68
Loader to Customer Trucks	2.71	2,576	6,982	3.491	75%	0.20	0.87	2.71	2	4,509	5	12,198	6.099	90%	0.61
Customer Truck Traffic	2.04	13,065	26,586	13.293	75%	0.76	3.32	2.04	9	22,863	18	46,598	23.299	90%	2.33
Loader into Trains	3.11	14	43.5	0.022	75%	0.00	0.0054	3.11	0.0840	45	0	139	0.070	90%	0.01
SUM	22.80	59,995 VMT		108.510 TON/YR		6.19 LB/HR	27.13 TON/YR	22.54	45 VMT/hr	78,916 VMT/yr	148 LB/HR		123.981 TON/YR		20.52 TON/YR

* Pollution control efficiency estimated from AP-42 Figure 13.2.2-2 for water spray used as dust control for unpaved roads, when precipitation; and is absent, with a Moisture Ratio of 2.0 or greater.

Unpaved Roads Fugitive Particulate Emissions Calculations
Martin Marietta Materials, Inc.
AQD File Number 14500029

PERMITTED ESTIMATED EMISSIONS								PROPOSED ESTIMATED EMISSIONS								PM 2.5 Controlled Emissions (lb/hr)
Activity	PM 2.5 Emission Factor (lb/VMT)	Vehicle miles traveled	PM 2.5 Emission Rate (lb/yr)	PM 2.5 Uncontrolled Emissions (tons/yr)	PM 2.5 Pollution Control Efficiency	PM 2.5 Controlled Emissions (lb/hr)	PM 2.5 Controlled Emissions (tons/yr)	PM 2.5 Emission Factor (lb/VMT)	Vehicle miles traveled (per hr)	Vehicle miles traveled (per year)	PM 2.5 Uncontrolled Emission Rate (lb/hr)	PM 2.5 Emission Rate (lb/yr)	PM 2.5 Uncontrolled Emissions (tons/yr)	PM 2.5 Pollution Control Efficiency	PM 2.5 Controlled Emissions (tons/yr)	
Loader in pit	0.37	3,126	1,156	0.578	75%	0.03	0.14	0.45	2	2,891	0.84	1,308	0.654	90%	0.07	0.08
Haul Truck Rainbow Pit	0.43	19,271	8,286	4.143	75%	0.24	1.04	0.37	13.52	20,800	5.04	7,747	3.874	80%	0.77	1.01
Haul Truck North Pit	0.43	19,082	8,205	4.103	75%	0.23	1.03	0.37	15.20	22,800	5.66	8,492	4.246	80%	0.85	1.13
Loader to Stockpiles	0.27	2,862	773	0.386	75%	0.02	0.10	0.27	3	5,009	0.93	1,355	0.678	90%	0.07	0.09
Loader to Customer Trucks	0.27	2,576	693	0.347	75%	0.02	0.09	0.27	2	4,509	0.48	1,220	0.610	90%	0.06	0.05
Customer Truck Traffic Loader into Trains	0.20	13,065	2,587	1.293	75%	0.07	0.32	0.20	9	22,863	1.84	4,660	2.330	90%	0.23	0.18
SUM	2.27	59,995 VMT		10.852 TON/YR		0.62 LB/HR	2.71 TON/YR	2.25	45 VMT/hr	78,916 VMT/yr	14.82 LB/HR		12.398 TON/YR		2.05 TON/YR	2.55 LB/HR

* Pollution control efficiency estimated from AP-42 Figure 13.2.2-2 for water spray used as dust control for unpaved roads, when precipitation; and is absent, with a Moisture Ratio of 2.0 or greater.

* Pollution control efficiency based on 10 mph posted speed limit, and 20 mph posted speed limit for haul trucks traveling to and from the Rainbow and North pits (WRAP Fugitive Dust Handbook, September 7, 2006)

Control Efficiency Estimates for Unpaved Roads based on WRAP Dust Fugitive Handbook (September 7, 2006)

*Based on the assumption of a linear relationship between PM10 emissions and vehicle speed and an uncontrolled speed of 45 mph. (Table 6-6)

25 44
15 57

$R^2 = 63.5$

0.09125
0.90875
90.875 %

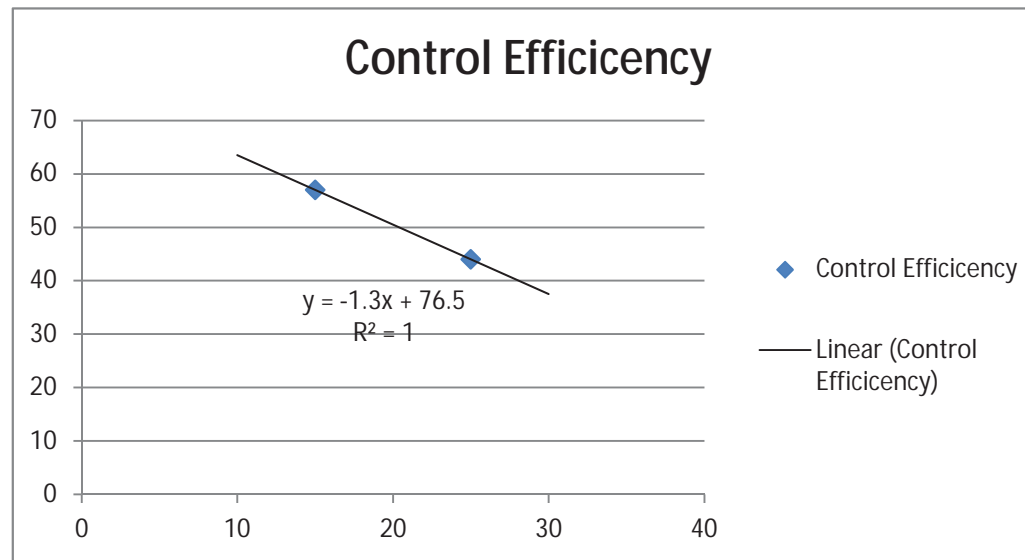
For 10 mph speeds + watering

$R^2 = 50.5$

0.12375
0.87625
87.625 %

For 20 mph speeds + watering

A control efficiency of 80% is assumed to be conservative



EU #	EQUIPMENT	MAXIMUM PRODUCTION RATE (tons/hr)	PM10 EMISSION FACTOR (lb/ton)	PM10 EMISSION FACTOR (lb/ton)	PM2.5 EMISSION FACTOR (lb/ton)	PM10 PTE (lb/hr)	PM10 PTE (tons/yr)	PM10 PTE (lb/hr)	PM10 PTE (tons/yr)	PM2.5 PTE (lb/hr)	PM2.5 PTE (tons/yr)
799	Gyratory Crusher	2,250	0.0054	0.0024	0.0024	12.15	63.22	5.40	23.65	5.40	23.65
823	Cone Crusher #1	1,200	0.0054	0.0024	0.0024	6.48	28.38	2.88	12.61	2.88	12.61
824	Cone Crusher #2	700	0.0054	0.0024	0.0024	3.78	16.56	1.68	7.36	1.68	7.36
804	Barmac VSI Crusher	750	0.0054	0.0024	0.0024	4.05	17.74	1.80	7.88	1.80	7.88
816	Screen #1	2,250	0.0025	0.0087	0.0087	56.25	246.38	19.58	85.74	19.58	85.74
816	Screen #2	1,800	0.0025	0.0087	0.0087	45.00	197.10	15.66	68.58	15.66	68.58
829	Screen #3	700	0.0025	0.0087	0.0087	17.50	76.65	6.09	26.67	6.09	26.67
802	Conveyor 1	2,250	0.003	0.0011	0.0011	6.75	29.57	2.48	10.84	2.48	10.84
805	Conveyor 2	450	0.003	0.0011	0.0011	1.35	5.91	0.44	1.93	0.44	1.93
806	Conveyor 3	2,250	0.003	0.0011	0.0011	6.75	29.57	2.48	10.84	2.48	10.84
811	Conveyor 4	1,800	0.003	0.0011	0.0011	5.40	23.65	1.98	8.67	1.98	8.67
816	Conveyor 5	450	0.003	0.0011	0.0011	1.35	5.91	0.44	1.93	0.44	1.93
818	Conveyor 6	450	0.003	0.0011	0.0011	1.35	5.91	0.50	2.17	0.50	2.17
825	Conveyor 7	300	0.003	0.0011	0.0011	0.90	3.94	0.33	1.45	0.33	1.45
826	Conveyor 8	300	0.003	0.0011	0.0011	0.90	3.94	0.33	1.45	0.33	1.45
827	Conveyor 9	300	0.003	0.0011	0.0011	0.90	3.94	0.33	1.45	0.33	1.45
828	Conveyor 10	700	0.003	0.0011	0.0011	2.10	9.20	0.77	3.37	0.77	3.37
830	Conveyor 11	700	0.003	0.0011	0.0011	2.10	9.20	0.77	3.37	0.77	3.37
834	Conveyor 12	1,800	0.003	0.0011	0.0011	5.40	23.65	1.98	8.67	1.98	8.67
838	Conveyor 13	1,800	0.003	0.0011	0.0011	5.40	23.65	1.98	8.67	1.98	8.67
832	Belt feeder #1	300	0.003	0.0011	0.0011	0.90	3.94	0.33	1.45	0.33	1.45
861	Scaling Feeder	2,250	0.003	0.0011	0.0011	6.75	29.57	2.48	10.84	2.48	10.84
All new equipment above this line.											
766	Gyratory Crusher	1,250	0.0054	0.0024	0.0024	6.75	29.57	3.00	13.14	3.00	13.14
833	Crusher	350	0.0054	0.0024	0.0024	1.89	8.58	0.94	3.68	0.94	3.68
718	Cone Crusher - Ballast	250	0.0054	0.0024	0.0024	1.35	5.91	0.60	2.63	0.60	2.63
719	Crusher #1 C-1	375	0.0054	0.0024	0.0024	1.73	7.57	0.77	3.36	0.77	3.36
720	Crusher #2 C-2	320	0.0054	0.0024	0.0024	1.73	7.57	0.77	3.36	0.77	3.36
722	Crusher #3 C-3	375	0.0054	0.0024	0.0024	2.00	8.75	0.89	3.89	0.89	3.89
721	Crusher #4 C-4	168	0.0054	0.0024	0.0024	0.81	3.67	0.40	1.77	0.40	1.77
723	Crusher #5 C-5	300	0.0054	0.0024	0.0024	1.62	7.10	0.72	3.15	0.72	3.15
715	Screen 1	1,600	0.025	0.0087	0.0087	40.00	175.20	13.92	60.97	13.92	60.97
729	Screen 1A	1,200	0.025	0.0087	0.0087	30.00	131.40	10.44	45.73	10.44	45.73
712	Screen 2A	400	0.025	0.0087	0.0087	10.00	43.80	3.48	15.24	3.48	15.24
718	Screen 1B	800	0.025	0.0087	0.0087	20.00	87.60	6.96	30.48	6.96	30.48
717	Screen 3	425	0.0087	0.0087	0.0087	10.63	46.54	3.70	16.20	3.70	16.20
771	Screen 5A	310	0.025	0.0087	0.0087	7.75	33.95	2.70	11.81	2.70	11.81
716	Screen 5B	310	0.025	0.0087	0.0087	7.75	33.95	2.70	11.81	2.70	11.81
724	Deveasting Screen	400	0.025	0.0087	0.0087	5.00	21.90	1.74	7.62	1.74	7.62
726	Wash Screen	500	0.025	0.0087	0.0087	12.50	54.75	4.35	19.05	4.35	19.05
725	Ballast Screen	1,500	0.025	0.0087	0.0087	37.50	164.25	13.05	57.16	13.05	57.16
728	Wash Screen	350	0.025	0.0087	0.0087	13.75	60.28	4.78	20.96	4.78	20.96
743	Conveyor CB-1A	1,250	0.003	0.0011	0.0011	3.75	16.43	1.38	6.02	1.38	6.02
793	CB-1B	1,600	0.003	0.0011	0.0011	4.80	21.02	1.76	7.71	1.76	7.71
798	CB-2	1,600	0.003	0.0011	0.0011	4.80	21.02	1.76	7.71	1.76	7.71
754	CB-2A	1,200	0.003	0.0011	0.0011	3.60	15.77	1.32	5.78	1.32	5.78
742	CB-2B	1,200	0.003	0.0011	0.0011	3.60	15.77	1.32	5.78	1.32	5.78
756	CB-2C	1,200	0.003	0.0011	0.0011	3.60	15.77	1.32	5.78	1.32	5.78
753	CB2D	800	0.003	0.0011	0.0011	2.40	10.51	0.88	3.85	0.88	3.85
741	CB-3	1,200	0.003	0.0011	0.0011	3.60	15.77	1.32	5.78	1.32	5.78
744	CB3A	400	0.003	0.0011	0.0011	1.20	5.26	0.44	1.93	0.44	1.93
755	CB4	500	0.003	0.0011	0.0011	1.50	6.57	0.55	2.41	0.55	2.41
765	CB4A	100	0.003	0.0011	0.0011	0.30	1.31	0.10	0.81	0.10	0.81
730	CB4F	500	0.003	0.0011	0.0011	1.50	6.57	0.55	2.41	0.55	2.41
768	CB4B	250	0.003	0.0011	0.0011	0.69	3.02	0.25	1.11	0.25	1.11
740	CB4C	500	0.003	0.0011	0.0011	1.50	6.57	0.55	2.41	0.55	2.41
740	CB5A	1,100	0.003	0.0011	0.0011	3.30	14.45	1.21	5.30	1.21	5.30
756	CB5B	1,100	0.003	0.0011	0.0011	3.30	14.45	1.21	5.30	1.21	5.30
741	CB5C	800	0.003	0.0011	0.0011	2.40	10.51	0.88	3.85	0.88	3.85
762	CB5	300	0.003	0.0011	0.0011	0.90	3.94	0.33	1.45	0.33	1.45
745	CB5B	450	0.003	0.0011	0.0011	1.35	5.91	0.50	2.17	0.50	2.17
752	CB5D	800	0.003	0.0011	0.0011	2.40	10.51	0.88	3.85	0.88	3.85
717	CB3D	800	0.003	0.0011	0.0011	1.50	6.57	0.55	2.41	0.55	2.41
747	CB5E	800	0.003	0.0011	0.0011	2.40	10.51	0.88	3.85	0.88	3.85
736	BWC-1	1,900	0.003	0.0011	0.0011	5.70	24.97	2.09	9.15	2.09	9.15
732	BWC-2	1,900	0.003	0.0011	0.0011	5.70	24.97	2.09	9.15	2.09	9.15
733	BWC-3	1,900	0.003	0.0011	0.0011	5.70	24.97	2.09	9.15	2.09	9.15
738	BWC-4	1,900	0.003	0.0011	0.0011	5.70	24.97	2.09	9.15	2.09	9.15
731	BWC-5	1,900	0.003	0.0011	0.0011	5.70	24.97	2.09	9.15	2.09	9.15
736	BWC-6	1,450	0.003	0.0011	0.0011	4.35	5.91	0.60	2.17	0.60	2.17
734	BWC-7	450	0.003	0.0011	0.0011	1.35	5.91	0.50	2.17	0.50	2.17
735	BWC-8	450	0.003	0.0011	0.0011	1.35	5.91	0.50	2.17	0.50	2.17
740	BWC-13	1,100	0.003	0.0011	0.0011	3.30	14.45	1.21	5.30	1.21	5.30
746	BWC-15	800	0.003	0.0011	0.0011	2.40	10.51	0.88	3.85	0.88	3.85
764	PW50	500	0.003	0.0011	0.0011	1.50	6.57	0.55	2.41	0.55	2.41
760	Conveyor w/Bin	250	0.003	0.0011	0.0011	0.75	3.28	0.28	1.20	0.28	1.20
635	Gathering Belt-Blend Bins	300	0.003	0.0011	0.0011	0.90	3.94	0.33	1.45	0.33	1.45
803	Belt Scale	2,250	0.003	0.0011	0.0011	6.75	29.57	2.48	10.84	2.48	10.84
835	Belt Scale	1,900	0.003	0.0011	0.0011	5.40	23.65	1.98	8.67	1.98	8.67
767	Jump Conveyor	200	0.003	0.0011	0.0011	0.60	2.63	0.22	0.96	0.22	0.96
768	Jump Conveyor	200	0.003	0.0011	0.0011	0.60	2.63	0.22	0.96	0.22	0.96
770	Jump Conveyor	400	0.003	0.0011	0.0011	1.20	5.26	0.44	1.93	0.44	1.93
766	Stacker 3	800	0.003	0.0011	0.0011	2.40	10.51	0.88	3.85	0.88	3.85
779	Stacking Conveyor	800	0.003	0.0011	0.0011	2.40	10.51	0.88	3.85	0.88	3.85
780	Stacking Conveyor	800	0.003	0.0011	0.0011	2.40	10.51	0.88	3.85	0.88	3.85
781	SC2	1,000	0.003	0.0011	0.0011	3.00	13.14	1.10	4.82	1.10	4.82
780	SC3	500	0.003	0.0011	0.0011	1.50	6.57	0.55	2.41	0.55	2.41
782	Stacking Conveyor	1,000	0.003	0.0011	0.0011	3.00	13.14	1.10	4.82	1.10	4.82
784	SC6	500	0.003	0.0011	0.0011	1.50	6.57	0.55	2.41	0.55	2.41
785	SC10	500	0.003	0.0011	0.0011	1.50	6.57	0.55	2.41	0.55	2.41
787	SC11	450	0.003	0.0011	0.0011	1.35	5.91	0.50	2.17	0.50	2.17
788	SC12	1,100	0.003	0.0011	0.0011	3.30	14.45	1.21	5.30	1.21	5.30
789	SC1	450	0.003	0.0011	0.0011	1.35	5.91	0.50	2.17	0.50	2.17
790	SC7A	800	0.003	0.0011	0.0011	1.50	6.57	0.55	2.41	0.55	2.41
791	SC8	500	0.003	0.0011	0.0011	1.50	6.57	0.55	2.41	0.55	2.41
792	TCI Stacker	700	0.003	0.0011	0.0011	2.10	9.20	0.77	3.37	0.77	3.37
717	Recycle bin w conveyor	100	0.003	0.0011	0.0011	0.30	1.31	0.11	0.48	0.11	0.48
761	Recycle	1,600	0.003	0.0011	0.0011	3.00	13.14	1.10	4.82	1.10	4.82
713	Ballast Bin	1,500	0.003	0.0011	0.0011	4.50	19.71	1.65	7.23	1.65	7.23
714	Blend Bin	100	0.003	0.0011	0.0011	0.30	1.31	0.11	0.48	0.11	0.48
715	Blend Bin	100	0.003	0.0011	0.0011	0.30	1.31	0.11	0.48	0.11	0.48
716	Blend Bin	100	0.003	0.0011	0.0011	0.30	1.31	0.11	0.48	0.11	0.48
725	Old Feed Bin	200	0.003	0.0011	0.0011	0.60	2.63	0.22	0.96		

EU #

	EQUIPMENT	MAXIMUM PRODUCTION RATE (tons/hr)	PM EMIS. FACTOR (lb/ton)	PM10 EMIS. FACTOR (lb/ton)	PM2.5 EMIS. FACTOR (lb/ton)	PM PTE (lb/hr)	PM PTE (tons/yr)	PM10 PTE (lb/hr)	PM10 PTE (tons/yr)	PM2.5 PTE (lb/hr)	PM2.5 PTE (tons/yr)
799	Gyratory Crusher	2,250	0.0012	0.00054	0.0001	2.70	11.83	1.22	5.32	0.23	0.99
823	Cone Crusher #1	1,200	0.0012	0.00054	0.0001	1.44	6.31	0.65	2.84	0.12	0.53
824	Cone Crusher #2	700	0.0012	0.00054	0.0001	0.84	3.68	0.38	1.66	0.07	0.31
794	Barmac VSI Crusher	750	0.0012	0.00054	0.0001	0.90	3.94	0.41	1.77	0.08	0.33
804	Screen #1	2,250	0.0022	0.00074	0.00005	4.95	21.68	1.67	7.29	0.11	0.49
816	Screen #2	1,800	0.0022	0.00074	0.00005	3.96	17.34	1.33	5.83	0.09	0.39
829	Screen #3	700	0.0022	0.00074	0.00005	1.54	6.75	0.52	2.27	0.04	0.15
802	Conveyor 1	2,250	0.00014	0.000046	0.000013	0.32	1.38	0.10	0.45	0.03	0.13
806	Conveyor 2	400	0.00014	0.000046	0.000013	0.06	0.25	0.02	0.08	0.01	0.02
808	Conveyor 3	2,250	0.00014	0.000046	0.000013	0.32	1.38	0.10	0.45	0.03	0.13
811	Conveyor 4	1,800	0.00014	0.000046	0.000013	0.25	1.10	0.08	0.36	0.02	0.10
817	Conveyor 5	450	0.00014	0.000046	0.000013	0.06	0.28	0.02	0.09	0.01	0.03
818	Conveyor 6	450	0.00014	0.000046	0.000013	0.06	0.28	0.02	0.09	0.01	0.03
825	Conveyor 7	300	0.00014	0.000046	0.000013	0.04	0.18	0.01	0.06	0.00	0.02
826	Conveyor 8	300	0.00014	0.000046	0.000013	0.04	0.18	0.01	0.06	0.00	0.02
827	Conveyor 9	300	0.00014	0.000046	0.000013	0.04	0.18	0.01	0.06	0.00	0.02
828	Conveyor 10	700	0.00014	0.000046	0.000013	0.10	0.43	0.03	0.14	0.01	0.04
830	Conveyor 11	700	0.00014	0.000046	0.000013	0.10	0.43	0.03	0.14	0.01	0.04
834	Conveyor 12	1,800	0.00014	0.000046	0.000013	0.25	1.10	0.08	0.36	0.02	0.10
836	Conveyor 13	1,800	0.00014	0.000046	0.000013	0.25	1.10	0.08	0.36	0.02	0.10
832	Belt feeder #1	300	0.00014	0.000046	0.000013	0.04	0.18	0.01	0.06	0.00	0.02
801	Scalping Feeder	2,250	0.00014	0.000046	0.000013	0.32	1.38	0.10	0.45	0.03	0.13
795	Gyratory Crusher	2,250	0.0012	0.00054	0.0001	2.70	11.83	1.22	5.32	0.23	0.99
833	Crusher	350	0.0012	0.00054	0.0001	0.42	1.84	0.19	0.83	0.04	0.15
718	Cone Crusher - Ballast	250	0.0012	0.00054	0.0001	0.30	1.31	0.14	0.59	0.03	0.11
720	Crusher #1 C-1	320	0.0012	0.00054	0.0001	0.38	1.68	0.17	0.76	0.03	0.14
722	Crusher #2 C-2	320	0.0012	0.00054	0.0001	0.38	1.68	0.17	0.76	0.03	0.14
724	Crusher #3 C-3	370	0.0012	0.00054	0.0001	0.44	1.84	0.20	0.88	0.04	0.16
721	Crusher #4 C-4	168	0.0012	0.00054	0.0001	0.20	0.88	0.09	0.40	0.02	0.07
723	Crusher #5 C-5	300	0.0012	0.00054	0.0001	0.36	1.59	0.16	0.71	0.03	0.13
775	screen 1	1,600	0.0022	0.00074	0.00005	3.52	15.42	1.18	5.19	0.08	0.35
729	screen 1A	1,200	0.0022	0.00074	0.00005	2.64	11.56	0.89	3.89	0.06	0.26
712	screen 2A	400	0.0022	0.00074	0.00005	0.88	3.85	0.31	1.30	0.02	0.08
728	screen 1B	800	0.0022	0.00074	0.00005	1.76	7.71	0.59	2.59	0.04	0.18
727	Screen 3	425	0.0022	0.00074	0.00005	0.94	4.10	0.31	1.38	0.02	0.09
771	screen 5A	310	0.0022	0.00074	0.00005	0.68	2.99	0.23	1.00	0.02	0.07
726	screen 5B	310	0.0022	0.00074	0.00005	0.68	2.99	0.23	1.00	0.02	0.07
724	Dewatering Screen	200	0.0022	0.00074	0.00005	0.44	1.83	0.15	0.65	0.01	0.04
726	Wash Screen	500	0.0022	0.00074	0.00005	1.10	4.82	0.37	1.62	0.03	0.11
795	Ballast Screen	1,500	0.0022	0.00074	0.00005	3.30	14.45	1.11	4.86	0.08	0.33
796	Wash Screen	550	0.0022	0.00074	0.00005	1.21	5.30	0.41	1.78	0.03	0.12
743	Conveyor CB-1A	1,250	0.00014	0.000046	0.000013	0.18	0.77	0.06	0.25	0.02	0.06
757	CB-1B	1,600	0.00014	0.000046	0.000013	0.32	0.98	0.07	0.32	0.02	0.09
759	CB-2	1,600	0.00014	0.000046	0.000013	0.22	0.88	0.07	0.32	0.02	0.09
754	CB-2A	1,200	0.00014	0.000046	0.000013	0.17	0.74	0.06	0.24	0.02	0.07
742	CB-2B	1,200	0.00014	0.000046	0.000013	0.17	0.74	0.06	0.24	0.02	0.07
748	CB-2C	1,200	0.00014	0.000046	0.000013	0.17	0.74	0.06	0.24	0.02	0.07
753	CB2D	800	0.00014	0.000046	0.000013	0.11	0.49	0.04	0.16	0.01	0.05
751	CB-3	1,200	0.00014	0.000046	0.000013	0.17	0.74	0.06	0.24	0.02	0.07
744	CB3A	400	0.00014	0.000046	0.000013	0.06	0.25	0.02	0.08	0.01	0.02
740	CB4	500	0.00014	0.000046	0.000013	0.07	0.31	0.02	0.10	0.01	0.03
755	CB4A	168	0.00014	0.000046	0.000013	0.02	0.10	0.01	0.03	0.00	0.01
730	CB4F	500	0.00014	0.000046	0.000013	0.07	0.31	0.02	0.10	0.01	0.03
746	CB4B	230	0.00014	0.000046	0.000013	0.03	0.14	0.01	0.05	0.00	0.01
749	CB4C	500	0.00014	0.000046	0.000013	0.07	0.31	0.02	0.10	0.01	0.03
740	CB5A	1,100	0.00014	0.000046	0.000013	0.15	0.67	0.05	0.22	0.01	0.06
746	CB5B	1,100	0.00014	0.000046	0.000013	0.15	0.67	0.05	0.22	0.01	0.06
741	CB5C	800	0.00014	0.000046	0.000013	0.11	0.49	0.04	0.16	0.01	0.05
762	CB5	300	0.00014	0.000046	0.000013	0.04	0.18	0.01	0.06	0.00	0.02
745	CB3B	450	0.00014	0.000046	0.000013	0.06	0.28	0.02	0.09	0.01	0.03
752	CB5D	800	0.00014	0.000046	0.000013	0.11	0.49	0.04	0.16	0.01	0.05
777	CB3D	500	0.00014	0.000046	0.000013	0.07	0.31	0.02	0.10	0.01	0.03
747	CB5E	800	0.00014	0.000046	0.000013	0.11	0.49	0.04	0.16	0.01	0.05
736	BWC1	1,900	0.00014	0.000046	0.000013	0.27	1.17	0.09	0.38	0.02	0.11
732	BWC2	1,900	0.00014	0.000046	0.000013	0.27	1.17	0.09	0.38	0.02	0.11
733	BWC3	1,900	0.00014	0.000046	0.000013	0.27	1.17	0.09	0.38	0.02	0.11
734	BWC4	1,900	0.00014	0.000046	0.000013	0.27	1.17	0.09	0.38	0.02	0.11
731	BWC5	1,900	0.00014	0.000046	0.000013	0.27	1.17	0.09	0.38	0.02	0.11
736	BWC6	450	0.00014	0.000046	0.000013	0.06	0.28	0.02	0.09	0.01	0.03
737	BWC7	450	0.00014	0.000046	0.000013	0.06	0.28	0.02	0.09	0.01	0.03
735	BWC8	450	0.00014	0.000046	0.000013	0.06	0.28	0.02	0.09	0.01	0.03
763	BWC13	1,100	0.00014	0.000046	0.000013	0.15	0.67	0.05	0.22	0.01	0.06
748	BWC15	800	0.00014	0.000046	0.000013	0.11	0.49	0.04	0.16	0.01	0.05
764	PV150	500	0.00014	0.000046	0.000013	0.07	0.31	0.02	0.10	0.01	0.03
760	Conveyor w/Bin	250	0.00014	0.000046	0.000013	0.04	0.15	0.01	0.05	0.00	0.01
765	Gathering Belt-Blend Bins	300	0.00014	0.000046	0.000013	0.04	0.18	0.01	0.06	0.00	0.02
800	Belt Scale	2,250	0.00014	0.000046	0.000013	0.32	1.38	0.10	0.45	0.03	0.13
835	Belt Scale	1,800	0.00014	0.000046	0.000013	0.25	1.10	0.08	0.36	0.02	0.10
767	Jump Conveyor	200	0.00014	0.000046	0.000013	0.03	0.12	0.01	0.04	0.00	0.01
768	Jump Conveyor	200	0.00014	0.000046	0.000013	0.03	0.12	0.01	0.04	0.00	0.01
770	Jump Conveyor	400	0.00014	0.000046	0.000013	0.06	0.25	0.02	0.08	0.01	0.02
766	Stacker 3	1,000	0.00014	0.000046	0.000013	0.14	0.61	0.05	0.20	0.01	0.06
778	Stacking Conveyor	800	0.00014	0.000046	0.000013	0.11	0.49	0.04	0.16	0.01	0.05
778	Stacking Conveyor	800	0.00014	0.000046	0.000013	0.11	0.49	0.04	0.16	0.01	0.05
780	Stacking Conveyor	500	0.00014	0.000046	0.000013	0.07	0.31	0.02	0.10	0.01	0.03
781	SC2	1,000	0.00014	0.000046	0.000013	0.14	0.61	0.05	0.20	0.01	0.06
782	SC3	500	0.00014	0.000046	0.000013	0.07	0.31	0.02	0.10	0.01	0.03
783	Stacking Conveyor	1,000	0.00014	0.000046	0.000013	0.14	0.61	0.05	0.20	0.01	0.06
784	SC5	500	0.00014	0.000046	0.000013	0.07	0.31	0.02	0.10	0.01	0.03
785	SC10	500	0.00014	0.000046	0.000013	0.07	0.31	0.02	0.10	0.01	0.03
787	SC11	450	0.00014	0.000046	0.000013	0.06	0.28	0.02	0.09	0.01	0.03
788	SC12	1,100	0.00014	0.000046	0.000013	0.15	0.67	0.05	0.22	0.01	0.06
790	SC1	450	0.00014	0.000046	0.000013	0.06	0.28	0.02	0.09	0.01	0.03
790	SC7A	500	0.00014	0.000046	0.000013	0.07	0.31	0.02	0.10	0.01	0.03
791	SC5	500	0.00014	0.000046	0.000013	0.07	0.31	0.02	0.10	0.01	0.03
792	TOT Stacker	782	0.00014	0.000046	0.000013	0.11	0.49	0.04	0.16	0.01	0.05
717	Recycle bin w conveyor	100	0.00014	0.000046	0.000013	0.01	0.06	0.00	0.02	0.00	0.01
761	Recycle	1,000	0.00014	0.000046	0.000013	0.14	0.61	0.05	0.20	0.01	0.06
715	Ballast Bin	1,500	0.00014	0.000046	0.000013	0.21	0.92	0.07	0.30	0.02	0.09
714	Blend Bin	100	0.00014	0.000046	0.000013	0.01	0.06	0.00	0.02	0.00	0.01
716	Blend Bin	100	0.00014	0.000046	0.000013	0.01	0.06	0.00	0.02	0.00	0.01
725	Old Feed Bin										

EU #	EQUIPMENT	PM PTE (b/hr)	PM PTE (ton/yr) Unrestricted	PM PTE (ton/yr) Limited	PM10 PTE (b/hr)	PM10 PTE (ton/yr) Unrestricted	PM10 PTE (ton/yr) Limited	PM2.5 PTE (b/hr)	PM2.5 PTE (ton/yr) Unrestricted	PM2.5 PTE (ton/yr) Limited
712	screen 2A	10.00	43.80	3.85	3.48	15.24	1.30	3.48	15.24	0.00
713	Ballast Bin	4.50	19.71	0.92	0.85	7.23	0.30	0.85	7.23	0.00
714	Blend Bin	1.30	1.31	0.06	0.11	0.48	0.02	0.11	0.48	0.01
715	Blend Bin	0.30	1.31	0.06	0.11	0.48	0.02	0.11	0.48	0.01
716	Blend Bin	0.30	1.31	0.06	0.11	0.48	0.02	0.11	0.48	0.01
717	Recycle bin w conveyor	0.30	1.31	0.06	0.11	0.48	0.02	0.11	0.48	0.01
718	Cone Crusher - Ballast	1.35	5.91	1.31	0.60	2.63	0.50	0.60	2.63	0.11
719	Crusher #1 C-1	1.73	7.57	1.68	0.38	1.68	0.38	0.77	3.36	0.14
720	Crusher #2 C-2	1.73	7.57	1.68	0.77	3.36	0.78	0.77	3.36	0.14
721	Crusher #4 C-4	0.91	3.97	0.88	0.40	1.77	0.40	0.40	1.77	0.07
722	Crusher #3 C-3	2.08	8.77	1.84	0.78	3.89	0.88	0.89	3.89	0.16
723	Crusher #5 C-5	1.62	7.10	1.58	0.72	3.15	0.71	0.72	3.15	0.13
724	Dewatering Screen	5.00	21.90	1.80	1.74	7.62	0.60	1.74	7.62	0.04
725	Old Feed Bin	0.60	2.63	0.12	0.74	3.96	0.04	0.22	0.96	0.01
726	Wash Screen	12.50	54.78	4.63	4.35	19.06	1.62	4.35	19.06	0.11
727	Screen 1	10.63	46.54	4.50	3.70	16.20	1.38	3.70	16.20	0.08
728	screen 1B	20.00	87.80	7.71	6.96	30.48	2.58	6.96	30.48	0.18
729	screen 1A	30.00	131.40	11.58	10.44	45.73	3.88	10.44	45.73	0.28
730	CB4F	1.50	6.57	0.31	0.55	2.41	0.10	0.55	2.41	0.03
731	BWCS	5.70	24.97	1.17	2.09	9.15	0.38	2.09	9.15	0.11
732	BWCS	5.70	24.97	1.17	2.09	9.15	0.38	2.09	9.15	0.11
733	BWCS	5.70	24.97	1.17	2.09	9.15	0.38	2.09	9.15	0.11
734	BWCS	1.35	5.91	0.28	0.50	2.17	0.09	0.50	2.17	0.03
735	BWCS	1.35	5.91	0.28	0.50	2.17	0.09	0.50	2.17	0.03
736	BWCS	5.70	24.97	1.17	2.09	9.15	0.38	2.09	9.15	0.11
737	BWCS	1.35	5.91	0.28	0.50	2.17	0.09	0.50	2.17	0.03
738	BWCS	5.70	24.97	1.17	2.09	9.15	0.38	2.09	9.15	0.11
739	CB4F (DLE)	1.50	6.57	0.31	0.55	2.41	0.10	0.55	2.41	0.03
740	CB4A	3.30	14.45	0.67	1.21	5.30	0.22	1.21	5.30	0.08
741	CB5C	10.51	44.80	0.49	0.88	3.85	0.16	0.88	3.85	0.06
742	CB-2B	3.60	15.77	0.74	1.32	5.78	0.24	1.32	5.78	0.07
743	Conveyor CB-1A	3.75	16.53	0.77	1.38	6.02	0.28	1.38	6.02	0.07
744	CB3A	2.20	9.26	0.23	0.44	1.93	0.03	0.44	1.93	0.02
745	CB3B	3.50	5.91	0.28	0.50	2.17	0.09	0.50	2.17	0.03
746	CB4B	3.02	6.08	0.14	0.25	1.11	0.05	0.25	1.11	0.01
747	CB2E	2.40	10.51	0.49	0.88	3.85	0.16	0.88	3.85	0.06
748	BWCS	2.40	10.51	0.49	0.88	3.85	0.16	0.88	3.85	0.06
749	CB4C	1.50	6.57	0.31	0.55	2.41	0.10	0.55	2.41	0.03
750	CB4	1.50	6.57	0.31	0.55	2.41	0.10	0.55	2.41	0.03
751	CB-3	1.60	15.77	0.74	1.32	5.78	0.24	1.32	5.78	0.07
752	CB5D	2.40	10.51	0.49	0.88	3.85	0.16	0.88	3.85	0.06
753	CB5D	2.40	10.51	0.49	0.88	3.85	0.16	0.88	3.85	0.06
754	CB2A	1.60	15.77	0.74	1.32	5.78	0.24	1.32	5.78	0.07
755	CB4A	0.50	2.21	0.10	0.18	0.81	0.03	0.18	0.81	0.01
756	CB5B	3.30	14.45	0.67	1.21	5.30	0.22	1.21	5.30	0.08
757	CB-1B	4.80	21.02	0.88	1.76	7.71	0.32	1.76	7.71	0.08
758	CB-2C	3.60	15.77	0.74	1.32	5.78	0.24	1.32	5.78	0.07
759	CB-2	4.80	21.02	0.88	1.76	7.71	0.32	1.76	7.71	0.08
760	Conveyor w Bin	3.75	3.29	0.15	0.28	1.20	0.03	0.28	1.20	0.01
761	CB5	3.00	13.14	0.61	1.10	4.82	0.20	1.10	4.82	0.06
762	CB5	3.30	14.45	0.67	1.21	5.30	0.22	1.21	5.30	0.08
763	BWCS	3.30	14.45	0.67	1.21	5.30	0.22	1.21	5.30	0.08
764	PM2.5	1.50	6.57	0.31	0.55	2.41	0.10	0.55	2.41	0.03
765	Gathering Belt/Blend Bins	0.30	3.94	0.18	0.45	1.93	0.04	0.45	1.93	0.02
766	Gyratory Crusher	6.75	29.57	6.57	3.00	13.14	2.96	3.00	13.14	0.50
767	Jump Conveyor	0.60	2.63	0.12	0.74	3.96	0.04	0.22	0.96	0.01
768	Jump Conveyor	0.60	2.63	0.12	0.74	3.96	0.04	0.22	0.96	0.01
769	CB3C (DLE)	1.50	6.57	0.31	0.55	2.41	0.10	0.55	2.41	0.03
770	Jump Conveyor	1.20	5.26	0.25	0.44	1.93	0.08	0.44	1.93	0.02
771	screen 5A	7.75	33.95	2.89	2.70	11.81	1.00	2.70	11.81	0.07
772	Sand Screw	---	---	---	---	---	---	---	---	---
773	Sand Screw	---	---	---	---	---	---	---	---	---
774	Sand Wheel	---	---	---	---	---	---	---	---	---
775	screen 1	40.00	175.38	15.42	13.92	60.97	5.18	13.92	60.97	0.35
776	screen 5B	7.75	33.95	2.89	2.70	11.81	1.00	2.70	11.81	0.07
777	CB5D	1.50	6.57	0.31	0.55	2.41	0.10	0.55	2.41	0.03
778	Stacking Conveyor	2.40	10.51	0.49	0.88	3.85	0.16	0.88	3.85	0.06
779	Stacking Conveyor	2.40	10.51	0.49	0.88	3.85	0.16	0.88	3.85	0.06
780	Stacking Conveyor	1.50	6.57	0.31	0.55	2.41	0.10	0.55	2.41	0.03
781	SC-2	1.00	13.14	0.61	1.10	4.82	0.20	1.10	4.82	0.06
782	SC-2	1.50	6.57	0.31	0.55	2.41	0.10	0.55	2.41	0.03
783	Stacking Conveyor	1.00	13.14	0.61	1.10	4.82	0.20	1.10	4.82	0.06
784	SC-6	1.50	6.57	0.31	0.55	2.41	0.10	0.55	2.41	0.03
785	SC-10	1.50	6.57	0.31	0.55	2.41	0.10	0.55	2.41	0.03
786	Stacker 3	1.00	13.14	0.61	1.10	4.82	0.20	1.10	4.82	0.06
787	SC-11	1.35	5.91	0.28	0.50	2.17	0.09	0.50	2.17	0.03
788	SC-12	1.30	14.45	0.67	1.21	5.30	0.22	1.21	5.30	0.08
789	SC-1	1.35	5.91	0.28	0.50	2.17	0.09	0.50	2.17	0.03
790	SC7A	1.50	6.57	0.31	0.55	2.41	0.10	0.55	2.41	0.03
791	SC-8	1.50	6.57	0.31	0.55	2.41	0.10	0.55	2.41	0.03
792	TCI Stacker	2.38	10.41	0.49	0.87	3.82	0.16	0.87	3.82	0.06
793	Stacking Conveyor	2.00	13.14	0.61	1.10	4.82	0.20	1.10	4.82	0.06
794	Beltarm VSI Crusher	4.58	17.74	3.84	1.80	7.88	1.77	1.80	7.88	0.33
795	Ballast Screen	37.50	164.26	14.45	13.05	57.16	4.88	13.05	57.16	0.34
796	Wash Screen	13.75	60.28	5.39	4.78	20.96	1.39	4.78	20.96	0.14
797	GENERATOR	See GENERATOR 10	See GENERATOR 10	See GENERATOR 10	See GENERATOR 10	See GENERATOR 10	See GENERATOR 10	See GENERATOR 10	See GENERATOR 10	See GENERATOR 10
798	Jam Breaker	NA	NA	NA	NA	NA	NA	NA	NA	NA
799	Gyratory Crusher	12.15	53.22	11.83	5.40	23.65	5.32	5.40	23.65	0.86
800	Surge Bin	6.75	29.57	1.38	2.48	10.84	0.45	2.48	10.84	0.13
801	Scraping Feeder	6.75	29.57	1.38	2.48	10.84	0.45	2.48	10.84	0.13
802	Conveyor 1	6.75	29.57	1.38	2.48	10.84	0.45	2.48	10.84	0.13
803	Belt Scale	6.75	29.57	1.38	2.48	10.84	0.45	2.48	10.84	0.13
804	Screen #1	60.25	246.38	27.68	19.51	85.74	7.20	19.51	85.74	0.48
805	Conveyor 2	1.20	5.26	0.25	0.44	1.93	0.08	0.44	1.93	0.02
806	Conveyor 3	6.75	29.57	1.38	2.48	10.84	0.45	2.48	10.84	0.13
807	Feeder	7.20	11.83	0.55	1.09	4.34	0.18	1.09	4.34	0.05
808	Feeder	2.70	11.83	0.55	0.99	4.34	0.18	0.99	4.34	0.05
809	Feeder	2.70	11.83	0.55	0.99	4.34	0.18	0.99	4.34	0.05
810	Concrete Surge Tunnel	NA	NA	NA	NA	NA	NA	NA	NA	NA
811	Conveyor 4	5.40	23.65	1.10	1.98	8.67	0.38	1.98	8.67	0.10
812	Belt Scale	NA	NA	NA	NA	NA	NA	NA	NA	NA
813	Magnet	NA	NA	NA	NA	NA	NA	NA	NA	NA
814	Metal Detector	NA	NA	NA	NA	NA	NA	NA	NA	NA
815	Metal Automated Removal	NA	NA	NA	NA	NA	NA	NA	NA	NA
816	Screen #2	45.00	197.10	17.34	15.66	68.59	5.83	15.66	68.59	0.39
817	Conveyor 5	1.35	5.91	0.28	0.50	2.17	0.09	0.50	2.17	0.03
818	Conveyor 6	1.35	5.91	0.28	0.50	2.17	0.09	0.50	2.17	0.03
819	Bin	NA	NA	NA	NA	NA	NA	NA	NA	NA
820	Bin	NA	NA	NA	NA	NA	NA	NA	NA	NA
821	Feeder Retractable	1.80	7.88	0.37	0.65	2.89	0.12	0.65	2.89	0.03
822	Feeder Retractable	2.10	9.20	0.43	0.77	3.37	0.14	0.77	3.37	0.04
823	Cone Crusher #1	1.48	28.38	0.31	0.61	12.61	2.48	0.61	12.61	0.53
824	Cone Crusher #2	3.75	16.56	3.68	1.68	7.36	1.68	1.68	7.36	0.31
825	Conveyor 7	0.90	3.94	0.18	0.33	1.45	0.06	0.33	1.45	0.02
826	Conveyor 8	0.90	3.94	0.18	0.33	1.45	0.06	0.33	1.45	0.02
827	Conveyor 9	0.90	3.94	0.18	0.33	1.45	0.06	0.33	1.45	0.02
828	Conveyor 10	9.20	1.10	0.43	0.77	3.37	0.14	0.77	3.37	0.04
829	Screen #3	17.50	76.65	6.75	6.09	26.67	2.27	6.09	26.67	0.10
830	Conveyor 11	2.10	9.20	0.43	0.77	3.37	0.14	0.77	3.37	0.04
831	Bin	6.10	9.20	0.43	0.77	3.37	0.14	0.77	3.37	0.04
832	Belt feeder #1	0.90	3.94	0.18	0.33	1.45				

Attachment 2 – Facility Description and CD-01 Forms



FACILITY DESCRIPTION: GROUPS (GP)

Show: Active and Pending Records
Action: PER 003
AQD Facility ID: 14500029
Facility Name: Martin Marietta Materials - Saint Cloud Quarry

	ID No.	Group Status	Added By (Action)	Retired By (Action)	Include in EI	Operator ID for Item	Group Description	Group Items
1	GP 001	Active	PER 001		<input type="checkbox"/>		NSPS Equipment	EU 001, EU 002
2	GP 001	Active	PER 003		<input type="checkbox"/>		NSPS Equipment	EU 712, EU 713, EU 714, EU 715, EU 716, EU 717, EU 718, EU 721, EU 723, EU 724, EU 726, EU 727, EU 728, EU 729, EU 730, EU 731, EU 732, EU 733, EU 734, EU 735, EU 736, EU 737, EU 738, EU 739, EU 744, EU 745, EU 753, EU 756, EU 759, EU 760, EU 761, EU 762, EU 763, EU 764, EU 765, EU 767, EU 768, EU 769, EU 770, EU 771, EU 772, EU 773, EU 774, EU 775, EU 776, EU 777, EU 778, EU 779, EU 780, EU 781, EU 782, EU 783, EU 784, EU 785, EU 787, EU 788, EU 789, EU 790, EU 791, EU 792, EU 793, EU 794, EU 795, EU 796, EU 798, EU 799, EU 800, EU 801, EU 802, EU 803, EU 804, EU 805, EU 806, EU 807, EU 808, EU 809, EU 810, EU 811, EU 812, EU 813, EU 814, EU 815, EU 816, EU 817, EU 818, EU 819, EU 820, EU 821, EU 822, EU 823, EU 824, EU 825, EU 826, EU 827, EU 828, EU 829, EU 830, EU 831, EU 832, EU 833, EU 834, EU 835, EU 836
3	GP 002	Active	PER 001		<input type="checkbox"/>		Fugitive Sources (non-process equipment)	FS 901, FS 902, FS 903
4	GP 003	Active	PER 001		<input type="checkbox"/>		Process Units	EU 001, EU 002, EU 003, EU 004, FS 901
5	GP 003	Active	PER 003		<input type="checkbox"/>		Process Units	EU 712, EU 713, EU 714, EU 715, EU 716, EU 717, EU 718, EU 719, EU 720, EU 721, EU 722, EU 723, EU 724, EU 726, EU 727, EU 728, EU 729, EU 730, EU 731, EU 732, EU 733, EU 734, EU 735, EU 736, EU 737, EU 738, EU 739, EU 740, EU 741, EU 742, EU 743, EU 744, EU 745, EU 746, EU 747, EU 748, EU 749, EU 750, EU 751, EU 752, EU 753, EU 754, EU 755, EU 756, EU 757, EU 758, EU 759, EU 760, EU 761, EU 762, EU 763, EU 764, EU 765, EU 766, EU 767, EU 768, EU 769, EU 770, EU 771, EU 772, EU 773, EU 774, EU 775, EU 776, EU 777, EU 778, EU 779, EU 780, EU 781, EU 782, EU 783, EU 784, EU 785, EU 786, EU 787, EU 788, EU 789, EU 790, EU 791, EU 792, EU 793, EU 794, EU 795, EU 796, EU 798, EU 799, EU 800, EU 801, EU 802, EU 803, EU 804, EU 805, EU 806, EU 807, EU 808, EU 809, EU 810, EU 811, EU 812, EU 813, EU 814, EU 815, EU 816, EU 817, EU 818, EU 819, EU 820, EU 821, EU 822, EU 823, EU 824, EU 825, EU 826, EU 827, EU 828, EU 829, EU 830, EU 831, EU 832, EU 833, EU 834, EU 835, EU 836



FACILITY DESCRIPTION: EMISSION UNIT (EU)

Show: Active and Pending Records

Action: PER 003

AQD Facility ID: 14500029

Facility Name: Martin Marietta Materials - Saint Cloud Quarry

	ID No.	Emission Unit Status	Added By (Action)	Retired By (Action)	Insignificant Activity	Operator ID for Item	Stack/Vent ID No(s).	Control Equip. ID No(s).	Operator Description	Manufacturer	Model Number	SIC	Max. Design Capacity	Maximum Design Capacity			Max Fuel Input (mil Btu)
														Materials	Units n	Units d	
1	EU 001	Active	PER 001		<input type="checkbox"/>				NSPS Crushers			1423					
2	EU 001	Retired	PER 003		<input type="checkbox"/>				NSPS Crushers			1423					
3	EU 002	Active	PER 001		<input type="checkbox"/>				Other NSPS equipment			1423					
4	EU 002	Retired	PER 003		<input type="checkbox"/>				Other NSPS equipment			1423					
5	EU 003	Active	PER 001		<input type="checkbox"/>				Equipment not subject to NSPS and put into operation before 7/9/69			1423					
6	EU 003	Retired	PER 003		<input type="checkbox"/>				Equipment not subject to NSPS and put into operation before 7/9/69			1423					
7	EU 004	Active	PER 001		<input type="checkbox"/>				Equipment not subject to NSPS and put into operation on or after 7/9/69			1423					
8	EU 004	Retired	PER 003		<input type="checkbox"/>				Equipment not subject to NSPS and put into operation on or after 7/9/69			1423					
9	EU 710	Removed	PER 002		<input type="checkbox"/>		SV 710 (M)		Dryer	Barber-Greene	839	1423	30		Ton	Hr	12
10	EU 710	Removed	PER 003		<input type="checkbox"/>		SV 710 (M)		Dryer	Barber-Greene	839	1423	30		Ton	Hr	12
11	EU 711	Active	EIS 002		<input type="checkbox"/>				Granite Blasting			1423					
12	EU 711	Removed	PER 003		<input type="checkbox"/>				Granite Blasting			1423					
13	EU 712	Active	PER 003		<input type="checkbox"/>	001		CE 010	1/4" Chip Screens - Screen 2A (141124)	Diester	BFO 1616	1423	400		Ton	Hr	
14	EU 713	Active	PER 003		<input type="checkbox"/>	002		CE 010	100 Ton Bin - Ballast Bin (20748) - Silo/Bin	Custom Welding & Fab	100 Ton	1423	1500		Ton	Hr	
15	EU 714	Active	PER 003		<input type="checkbox"/>	003		CE 010	Belt Feeder to Blend Bins (63640)	Peerless	24 x 10	1423	100		Ton	Hr	
16	EU 715	Active	PER 003		<input type="checkbox"/>	004		CE 010	Belt Feeder to Blend Bins (63642)	Peerless	25 x 10	1423	100		Ton	Hr	
17	EU 716	Active	PER 003		<input type="checkbox"/>	005		CE 010	Belt Feeder to Blend Bins (63643)	Peerless	26 x 10	1423	100		Ton	Hr	
18	EU 717	Active	PER 003		<input type="checkbox"/>	006		CE 010	Bin - Recycle Bin w/Conveyor/04-105081 (02-105080)	Custom Welding & Fab	36 x 32.5	1423	100		Ton	Hr	
19	EU 718	Active	PER 003		<input type="checkbox"/>	007		CE 010	Cone Crusher - Ballast Crusher (50698)	Nordberg	Symons 4.25 SH	1423	250		Ton	Hr	

FACILITY DESCRIPTION: EMISSION UNIT (EU)

	ID No.	Emission Unit Status	Added By (Action)	Commence Const. Date	Initial Startup Date	Removal Date	Firing Method	Pct. Fuel/ Space Heat	Bottleneck	Elevator Type
1	EU 001	Active	PER 001							
2	EU 001	Retired	PER 003							
3	EU 002	Active	PER 001							
4	EU 002	Retired	PER 003							
5	EU 003	Active	PER 001							
6	EU 003	Retired	PER 003							
7	EU 004	Active	PER 001							
8	EU 004	Retired	PER 003							
9	EU 710	Removed	PER 002	01/01/1956	01/01/1989	01/01/2005		0		
10	EU 710	Removed	PER 003	01/01/1956	01/01/1989	01/01/2005		0		
11	EU 711	Active	EIS 002							
12	EU 711	Removed	PER 003							
13	EU 712	Active	PER 003	01/01/1998	01/01/1998					
14	EU 713	Active	PER 003	01/01/1993	01/01/1993					
15	EU 714	Active	PER 003	01/01/1987	01/01/1987					
16	EU 715	Active	PER 003	01/01/1987	01/01/1987					
17	EU 716	Active	PER 003	01/01/1987	01/01/1987					
18	EU 717	Active	PER 003	01/01/2001	01/01/2001					
19	EU 718	Active	PER 003	01/01/1998	01/01/1998					



FACILITY DESCRIPTION: EMISSION UNIT (EU)

Show: Active and Pending Records

Action: PER 003

AQD Facility ID: 14500029

Facility Name: Martin Marietta Materials - Saint Cloud Quarry

	ID No.	Emission Unit Status	Added By (Action)	Retired By (Action)	Insignificant Activity	Operator ID for Item	Stack/Vent ID No(s).	Control Equip. ID No(s).	Operator Description	Manufacturer	Model Number	SIC	Max. Design Capacity	Maximum Design Capacity			Max Fuel Input (mil Btu)
														Materials	Units n	Units d	
20	EU 719	Active	PER 003		<input type="checkbox"/>	008		CE 010	Cone Crusher - C-1 Symons (50722)	Nordberg	Symons 5.5 STD	1423	320		Ton	Hr	
21	EU 720	Active	PER 003		<input type="checkbox"/>	009		CE 010	Cone Crusher - C-2 Symons (50724)	Nordberg	Symons 5.5 STD	1423	320		Ton	Hr	
22	EU 721	Active	PER 003		<input type="checkbox"/>	010		CE 010	Cone Crusher - C-4 (50725)	Allis	H4000	1423	168		Ton	Hr	
23	EU 722	Active	PER 003		<input type="checkbox"/>	011		CE 010	Cone Crusher - C-3 Symons (50726)	Nordberg	Symons 5.5 SH HD	1423	370		Ton	Hr	
24	EU 723	Active	PER 003		<input type="checkbox"/>	012		CE 010	Cone Crusher - C-5 Nordberg (50807)	Mesto	HP300	1423	300		Ton	Hr	
25	EU 724	Active	PER 003		<input type="checkbox"/>	013		CE 010	Dewatering Screens - Derrick Dewatering (141118)	Derrick	Hi-G	1423	200		Ton	Hr	
26	EU 725	Active	PER 003		<input type="checkbox"/>	014		CE 010	Feed Bin w/Conveyor - Old Feed Bin (61451)	Martin Marietta	24 x 30	1423	200		Ton	Hr	
27	EU 726	Active	PER 003		<input type="checkbox"/>	015		CE 010	Wash Screens - Portable Wash Screen (14-100759)	Diester	BTFM3P-3720	1423	500		Ton	Hr	
28	EU 727	Active	PER 003		<input type="checkbox"/>	016		CE 010	Finishing Screens - Screen 3 (14-106339)	Diester	HM 3616	1423	425		Ton	Hr	
29	EU 728	Active	PER 003		<input type="checkbox"/>	017		CE 010	Finishing Screens - Screen 1B (141127)	Diester	BFO 1616	1423	800		Ton	Hr	
30	EU 729	Active	PER 003		<input type="checkbox"/>	018		CE 010	Finishing Screens - Screen 1A (141661)	Diester	XXXHM 3820-02	1423	1200		Ton	Hr	
31	EU 730	Active	PER 003		<input type="checkbox"/>	019		CE 010	Fixed Conveyor - CB4F (44437)	Martin Marietta	24 x 200	1423	500		Ton	Hr	
32	EU 731	Active	PER 003		<input type="checkbox"/>	020		CE 010	Fixed Conveyor - BWC5 (44581)	Superior	42 x 35	1423	1900		Ton	Hr	
33	EU 732	Active	PER 003		<input type="checkbox"/>	021		CE 010	Fixed Conveyor - BWC2 (44603)	Superior	42 x 90	1423	1900		Ton	Hr	
34	EU 733	Active	PER 003		<input type="checkbox"/>	022		CE 010	Fixed Conveyor - BWC3 (44610)	Superior	42 x 90	1423	1900		Ton	Hr	
35	EU 734	Active	PER 003		<input type="checkbox"/>	023		CE 010	Fixed Conveyor - BWC7 (44631)	Martin Marietta	24 x 44	1423	450		Ton	Hr	
36	EU 735	Active	PER 003		<input type="checkbox"/>	024		CE 010	Fixed Conveyor - BWC8 (44652)	Martin Marietta	24 x 20	1423	450		Ton	Hr	
37	EU 736	Active	PER 003		<input type="checkbox"/>	025		CE 010	Fixed Conveyor - BWC1 (44659)	Superior	42 x 257	1423	1900		Ton	Hr	
38	EU 737	Active	PER 003		<input type="checkbox"/>	026		CE 010	Fixed Conveyor - BWC6 (44677)	Martin Marietta	24 x 40	1423	450		Ton	Hr	

FACILITY DESCRIPTION: EMISSION UNIT (EU)

	ID No.	Emission Unit Status	Added By (Action)	Commence Const. Date	Initial Startup Date	Removal Date	Firing Method	Pct. Fuel/ Space Heat	Bottleneck	Elevator Type
20	EU 719	Active	PER 003	01/01/1974	01/01/1974					
21	EU 720	Active	PER 003	01/01/1974	01/01/1974					
22	EU 721	Active	PER 003	01/01/1993	01/01/1993					
23	EU 722	Active	PER 003	01/01/1974	01/01/1974					
24	EU 723	Active	PER 003	01/01/2001	01/01/2001					
25	EU 724	Active	PER 003	01/01/1995	01/01/1995					
26	EU 725	Active	PER 003	01/01/1965	01/01/1965					
27	EU 726	Active	PER 003	01/01/2007	01/01/2007					
28	EU 727	Active	PER 003	01/01/2009	01/01/2009					
29	EU 728	Active	PER 003	01/01/1999	01/01/1999					
30	EU 729	Active	PER 003	01/01/2007	01/01/2007					
31	EU 730	Active	PER 003	01/01/2006	01/01/2006					
32	EU 731	Active	PER 003	01/01/1993	01/01/1993					
33	EU 732	Active	PER 003	01/01/1993	01/01/1993					
34	EU 733	Active	PER 003	01/01/1993	01/01/1993					
35	EU 734	Active	PER 003	01/01/1998	01/01/1998					
36	EU 735	Active	PER 003	01/01/1993	01/01/1993					
37	EU 736	Active	PER 003	01/01/1993	01/01/1993					
38	EU 737	Active	PER 003	01/01/1998	01/01/1998					



FACILITY DESCRIPTION: EMISSION UNIT (EU)

Show: Active and Pending Records

Action: PER 003

AQD Facility ID: 14500029

Facility Name: Martin Marietta Materials - Saint Cloud Quarry

	ID No.	Emission Unit Status	Added By (Action)	Retired By (Action)	Insignificant Activity	Operator ID for Item	Stack/Vent ID No(s).	Control Equip. ID No(s).	Operator Description	Manufacturer	Model Number	SIC	Max. Design Capacity	Maximum Design Capacity			Max Fuel Input (mil Btu)
														Materials	Units n	Units d	
39	EU 738	Active	PER 003		<input type="checkbox"/>	027		CE 010	Fixed Conveyor - BWC4 (44678)	Superior	42 x 100	1423	1900		Ton	Hr	
40	EU 739	Active	PER 003		<input type="checkbox"/>	028		CE 010	Fixed Conveyor - CB5F (44820)	Superior	24 x 45	1423	500		Ton	Hr	
41	EU 740	Active	PER 003		<input type="checkbox"/>	029		CE 010	Fixed Conveyor - CB5A (44877)	Unknown	36 x 48	1423	1100		Ton	Hr	
42	EU 741	Active	PER 003		<input type="checkbox"/>	030		CE 010	Fixed Conveyor - CB5C (44878)	Unknown	30 x 90	1423	800		Ton	Hr	
43	EU 742	Active	PER 003		<input type="checkbox"/>	031		CE 010	Fixed Conveyor - CB-2B (44879)	Superior	36 x 90	1423	1200		Ton	Hr	
44	EU 743	Active	PER 003		<input type="checkbox"/>	032		CE 010	Fixed Conveyor - CB-1A (44880)	Unknown	42 x 455	1423	1250		Ton	Hr	
45	EU 744	Active	PER 003		<input type="checkbox"/>	033		CE 010	Fixed Conveyor - CB3A (44882)	Superior	36 x 51	1423	400		Ton	Hr	
46	EU 745	Active	PER 003		<input type="checkbox"/>	034		CE 010	Fixed Conveyor - CB3B (44883)	Superior	24 x 160	1423	450		Ton	Hr	
47	EU 746	Active	PER 003		<input type="checkbox"/>	035		CE 010	Fixed Conveyor - CB4B (44884)	Martin Marietta	24 x 90	1423	230		Ton	Hr	
48	EU 747	Active	PER 003		<input type="checkbox"/>	036		CE 010	Fixed Conveyor - CB5E (44885)	Unknown	30 x 90	1423	800		Ton	Hr	
49	EU 748	Active	PER 003		<input type="checkbox"/>	037		CE 010	Fixed Conveyor - BWC15 (44888)	Kolman	30 x 110	1423	800		Ton	Hr	
50	EU 749	Active	PER 003		<input type="checkbox"/>	038		CE 010	Fixed Conveyor - CB4C (44890)	Martin Marietta	24 x 178	1423	500		Ton	Hr	
51	EU 750	Active	PER 003		<input type="checkbox"/>	039		CE 010	Fixed Conveyor - CB4 (44891)	Unknown	24 x 210	1423	500		Ton	Hr	
52	EU 751	Active	PER 003		<input type="checkbox"/>	040		CE 010	Fixed Conveyor - CB-3 (44894)	Superior	36 x 139	1423	1200		Ton	Hr	
53	EU 752	Active	PER 003		<input type="checkbox"/>	041		CE 010	Fixed Conveyor - CB5D (44898)	Unknown	30 x 130	1423	800		Ton	Hr	
54	EU 753	Active	PER 003		<input type="checkbox"/>	042		CE 010	Fixed Conveyor - CB2D (44899)	Martin Marietta	30 x 28	1423	800		Ton	Hr	
55	EU 754	Active	PER 003		<input type="checkbox"/>	043		CE 010	Fixed Conveyor - CB-2A (44900)	Unknown	36 x 43	1423	1200		Ton	Hr	
56	EU 755	Active	PER 003		<input type="checkbox"/>	044		CE 010	Fixed Conveyor - CB4A (44901)	Unknown	24 x 92	1423	168		Ton	Hr	
57	EU 756	Active	PER 003		<input type="checkbox"/>	045		CE 010	Fixed Conveyor - CB5B (44906)	Martin Marietta	36 x 36	1423	1100		Ton	Hr	

FACILITY DESCRIPTION: EMISSION UNIT (EU)

	ID No.	Emission Unit Status	Added By (Action)	Commence Const. Date	Initial Startup Date	Removal Date	Firing Method	Pct. Fuel/ Space Heat	Bottleneck	Elevator Type
39	EU 738	Active	PER 003	01/01/1993	01/01/1993					
40	EU 739	Active	PER 003	01/01/1996	01/01/1996					
41	EU 740	Active	PER 003	01/01/1974	01/01/1974					
42	EU 741	Active	PER 003	01/01/1974	01/01/1974					
43	EU 742	Active	PER 003	01/01/1974	01/01/1974					
44	EU 743	Active	PER 003	01/01/1975	01/01/1975					
45	EU 744	Active	PER 003	01/01/1989	01/01/1989					
46	EU 745	Active	PER 003	01/01/1993	01/01/1993					
47	EU 746	Active	PER 003	01/01/1980	01/01/1980					
48	EU 747	Active	PER 003	01/01/1974	01/01/1974					
49	EU 748	Active	PER 003	01/01/1970	01/01/1970					
50	EU 749	Active	PER 003	01/01/1980	01/01/1980					
51	EU 750	Active	PER 003	01/01/1980	01/01/1980					
52	EU 751	Active	PER 003	01/01/1974	01/01/1974					
53	EU 752	Active	PER 003	01/01/1974	01/01/1974					
54	EU 753	Active	PER 003	01/01/1993	01/01/1993					
55	EU 754	Active	PER 003	01/01/1974	01/01/1974					
56	EU 755	Active	PER 003	01/01/1980	01/01/1980					
57	EU 756	Active	PER 003	01/01/1998	01/01/1998					



FACILITY DESCRIPTION: EMISSION UNIT (EU)

Show: Active and Pending Records

Action: PER 003

AQD Facility ID: 14500029

Facility Name: Martin Marietta Materials - Saint Cloud Quarry

	ID No.	Emission Unit Status	Added By (Action)	Retired By (Action)	Insignificant Activity	Operator ID for Item	Stack/Vent ID No(s).	Control Equip. ID No(s).	Operator Description	Manufacturer	Model Number	SIC	Max. Design Capacity	Maximum Design Capacity			Max Fuel Input (mil Btu)
														Materials	Units n	Units d	
58	EU 757	Active	PER 003		<input type="checkbox"/>	046		CE 010	Fixed Conveyor - CB-1B (44907)	Unknown	42 x 450	1423	1600		Ton	Hr	
59	EU 758	Active	PER 003		<input type="checkbox"/>	047		CE 010	Fixed Conveyor - CB-2C (44908)	Superior	36 x 138	1423	1200		Ton	Hr	
60	EU 759	Active	PER 003		<input type="checkbox"/>	048		CE 010	Fixed Conveyor - CB-2 (44909)	Superior	42 x 189	1423	1600		Ton	Hr	
61	EU 760	Active	PER 003		<input type="checkbox"/>	049		CE 010	Fixed Conveyor - Conveyor w/Bin 02-105080 (04-105081)	Custom Welding & Fab	37 x 32.5	1423	250		Ton	Hr	
62	EU 761	Active	PER 003		<input type="checkbox"/>	050		CE 010	Fixed Conveyor - Recycle (04-105082)	Martin Marietta	36 x 50	1423	1000		Ton	Hr	
63	EU 762	Active	PER 003		<input type="checkbox"/>	051		CE 010	Fixed Conveyor - CB5 (04-105083)	Superior	24 x 20	1423	300		Ton	Hr	
64	EU 763	Active	PER 003		<input type="checkbox"/>	052		CE 010	Fixed Conveyor - BWC13 (04-105084)	Martin Marietta	36 x 20	1423	1100		Ton	Hr	
65	EU 764	Active	PER 003		<input type="checkbox"/>	053		CE 010	Fixed Conveyor - PW50 (04-124189)	Martin Marietta	24 x 96	1423	500		Ton	Hr	
66	EU 765	Active	PER 003		<input type="checkbox"/>	054		CE 010	Gathering Belt - Blend Bins (35014) - Conveyor	Peerless	30 x 33	1423	300		Ton	Hr	
67	EU 766	Active	PER 003		<input type="checkbox"/>	055		CE 010	Gyratory Crusher - Primary Crusher (50727)	Nordberg	42 x 70 XHD	1423	1250		Ton	Hr	
68	EU 767	Active	PER 003		<input type="checkbox"/>	056		CE 010	Jump Conveyor - Conveyor (04-100761)	Straight Line	24 x 10	1423	200		Ton	Hr	
69	EU 768	Active	PER 003		<input type="checkbox"/>	057		CE 010	Jump Conveyor - Conveyor (04-110762)	Straight Line	24 x 10	1423	200		Ton	Hr	
70	EU 769	Active	PER 003		<input type="checkbox"/>	058		CE 010	Jump Conveyor - CB3C (04-110152)	Martin Marietta	30 x 33	1423	500		Ton	Hr	
71	EU 770	Active	PER 003		<input type="checkbox"/>	059		CE 010	Jump Conveyor - Conveyor (04-110158)	Martin Marietta	42 x 50	1423	400		Ton	Hr	
72	EU 771	Active	PER 003		<input type="checkbox"/>	060		CE 010	North Rescreener - Screens 5A (141119)	Diester	BFO 1616	1423	450		Ton	Hr	
73	EU 772	Active	PER 003		<input type="checkbox"/>	061		CE 010	Sand Screw - McLanahan Screw (120357) - Material Handling Equipment	McLanahan	36 x 24	1423	100		Ton	Hr	
74	EU 773	Active	PER 003		<input type="checkbox"/>	062		CE 010	Sand Screw - Twin 44 McLanahan (12-100760) - Material Handling Equipment	McLanahan	Twin 44 Screw	1423	250		Ton	Hr	
75	EU 774	Active	PER 003		<input type="checkbox"/>	063		CE 010	Sand Wheel - Bucket Wheel (120360) - Material Handling Equipment	Basic Systems	Unknown	1423	250		Ton	Hr	

FACILITY DESCRIPTION: EMISSION UNIT (EU)

	ID No.	Emission Unit Status	Added By (Action)	Commence Const. Date	Initial Startup Date	Removal Date	Firing Method	Pct. Fuel/ Space Heat	Bottleneck	Elevator Type
58	EU 757	Active	PER 003	01/01/1975	01/01/1975					
59	EU 758	Active	PER 003	01/01/1974	01/01/1974					
60	EU 759	Active	PER 003	01/01/1996	01/01/1996					
61	EU 760	Active	PER 003	01/01/2001	01/01/2001					
62	EU 761	Active	PER 003	01/01/2008	01/01/2008					
63	EU 762	Active	PER 003	01/01/1993	01/01/1993					
64	EU 763	Active	PER 003	01/01/2007	01/01/2007					
65	EU 764	Active	PER 003	01/01/2012	01/01/2012					
66	EU 765	Active	PER 003	01/01/1987	01/01/1987					
67	EU 766	Active	PER 003	01/01/1975	01/01/1975					
68	EU 767	Active	PER 003	01/01/2007	01/01/2007					
69	EU 768	Active	PER 003	01/01/2007	01/01/2007					
70	EU 769	Active	PER 003	01/01/2010	01/01/2010					
71	EU 770	Active	PER 003	01/01/2010	01/01/2010					
72	EU 771	Active	PER 003	01/01/1996	01/01/1996					
73	EU 772	Active	PER 003	01/01/1998	01/01/1998					
74	EU 773	Active	PER 003	01/01/2007	01/01/2007					
75	EU 774	Active	PER 003	01/01/1986	01/01/1986					



FACILITY DESCRIPTION: EMISSION UNIT (EU)

Show: Active and Pending Records

Action: PER 003

AQD Facility ID: 14500029

Facility Name: Martin Marietta Materials - Saint Cloud Quarry

	ID No.	Emission Unit Status	Added By (Action)	Retired By (Action)	Insignificant Activity	Operator ID for Item	Stack/Vent ID No(s).	Control Equip. ID No(s).	Operator Description	Manufacturer	Model Number	SIC	Max. Design Capacity	Maximum Design Capacity			Max Fuel Input (mil Btu)
														Materials	Units n	Units d	
76	EU 775	Active	PER 003		<input type="checkbox"/>	064		CE 010	Scalping Screen - Screen 1 (141547)	Diester	XHM 3820 OT	1423	1600		Ton	Hr	
77	EU 776	Active	PER 003		<input type="checkbox"/>	065		CE 010	South Rescreener - Screen 5B (141125)	Diester	BFO 1617	1423	450		Ton	Hr	
78	EU 777	Active	PER 003		<input type="checkbox"/>	066		CE 010	Stacking Conveyor - CB3D (2056)	Carter	30 x 80	1423	500		Ton	Hr	
79	EU 778	Active	PER 003		<input type="checkbox"/>	067		CE 010	Stacking Conveyor - Cable Stacker (44653)	Kolman	30 x 140	1423	800		Ton	Hr	
80	EU 779	Active	PER 003		<input type="checkbox"/>	068		CE 010	Stacking Conveyor - Conveyor (44658)	Superior	30 x 90	1423	800		Ton	Hr	
81	EU 780	Active	PER 003		<input type="checkbox"/>	069		CE 010	Stacking Conveyor - Conveyor (44822)	Swift	24 x 56	1423	500		Ton	Hr	
82	EU 781	Active	PER 003		<input type="checkbox"/>	070		CE 010	Stacking Conveyor - SC2 (44886)	Superior	36 x 100	1423	1000		Ton	Hr	
83	EU 782	Active	PER 003		<input type="checkbox"/>	071		CE 010	Stacking Conveyor - SC9 (44887)	Superior	24 x 100	1423	500		Ton	Hr	
84	EU 783	Active	PER 003		<input type="checkbox"/>	072		CE 010	Stacking Conveyor - Conveyor (44889)	Superior	36 x 100	1423	1000		Ton	Hr	
85	EU 784	Active	PER 003		<input type="checkbox"/>	073		CE 010	Stacking Conveyor - SC6 (44892)	Superior	24 x 80	1423	500		Ton	Hr	
86	EU 785	Active	PER 003		<input type="checkbox"/>	074		CE 010	Stacking Conveyor - SC10 (44893)	Swift	24 x 100	1423	500		Ton	Hr	
87	EU 786	Active	PER 003		<input type="checkbox"/>	075		CE 010	Stacking Conveyor - Stacker 3 (44895)	Barber Green	36 x 110	1423	1000		Ton	Hr	
88	EU 787	Active	PER 003		<input type="checkbox"/>	076		CE 010	Stacking Conveyor - SC11 (44896)	Superior	24 x 80	1423	450		Ton	Hr	
89	EU 788	Active	PER 003		<input type="checkbox"/>	077		CE 010	Stacking Conveyor - SC12 (44903)	Superior	36 x 80	1423	1100		Ton	Hr	
90	EU 789	Active	PER 003		<input type="checkbox"/>	078		CE 010	Stacking Conveyor - SC1 (44904)	Superior	24 x 65	1423	450		Ton	Hr	
91	EU 790	Active	PER 003		<input type="checkbox"/>	079		CE 010	Stacking Conveyor - SC7A (44911)	Superior	24 x 80	1423	500		Ton	Hr	
92	EU 791	Active	PER 003		<input type="checkbox"/>	080		CE 010	Stacking Conveyor - SC8 (44913)	Superior	24 x 100	1423	500		Ton	Hr	
93	EU 792	Active	PER 003		<input type="checkbox"/>	081		CE 010	Stacking Conveyor - TCI Stacker (04-100767)	TCI	36 x 80	1423	1100		Ton	Hr	
94	EU 793	Active	PER 003		<input type="checkbox"/>	082		CE 010	Stacking Conveyor - SC2 (04-110156)	Superior	36 x 80	1423	1000		Ton	Hr	

FACILITY DESCRIPTION: EMISSION UNIT (EU)

	ID No.	Emission Unit Status	Added By (Action)	Commence Const. Date	Initial Startup Date	Removal Date	Firing Method	Pct. Fuel/ Space Heat	Bottleneck	Elevator Type
76	EU 775	Active	PER 003	01/01/2005	01/01/2005					
77	EU 776	Active	PER 003	01/01/1996	01/01/1996					
78	EU 777	Active	PER 003	01/01/2010	01/01/2010					
79	EU 778	Active	PER 003	01/01/1985	01/01/1985					
80	EU 779	Active	PER 003	01/01/1986	01/01/1986					
81	EU 780	Active	PER 003	01/01/1987	01/01/1987					
82	EU 781	Active	PER 003	01/01/1993	01/01/1993					
83	EU 782	Active	PER 003	01/01/1993	01/01/1993					
84	EU 783	Active	PER 003	01/01/2000	01/01/2000					
85	EU 784	Active	PER 003	01/01/1993	01/01/1993					
86	EU 785	Active	PER 003	01/01/1993	01/01/1993					
87	EU 786	Active	PER 003	01/01/1974	01/01/1974					
88	EU 787	Active	PER 003	01/01/1989	01/01/1989					
89	EU 788	Active	PER 003	01/01/2000	01/01/2000					
90	EU 789	Active	PER 003	01/01/1985	01/01/1985					
91	EU 790	Active	PER 003	01/01/1993	01/01/1993					
92	EU 791	Active	PER 003	01/01/1993	01/01/1993					
93	EU 792	Active	PER 003	01/01/2007	01/01/2007					
94	EU 793	Active	PER 003	01/01/2000	01/01/2000					



FACILITY DESCRIPTION: EMISSION UNIT (EU)

Show: Active and Pending Records

Action: PER 003

AQD Facility ID: 14500029

Facility Name: Martin Marietta Materials - Saint Cloud Quarry

	ID No.	Emission Unit Status	Added By (Action)	Retired By (Action)	Insignificant Activity	Operator ID for Item	Stack/Vent ID No(s).	Control Equip. ID No(s).	Operator Description	Manufacturer	Model Number	SIC	Max. Design Capacity	Maximum Design Capacity			Max Fuel Input (mil Btu)
														Materials	Units n	Units d	
95	EU 794	Active	PER 003		<input type="checkbox"/>	083		CE 010	VSI Crusher - Barmac (05-107932)	Mesto	B9000	1423	750		Ton	Hr	
96	EU 795	Active	PER 003		<input type="checkbox"/>	084		CE 010	Wash Screen - Ballast Screen (141122)	Diester	3820-OT	1423	1500		Ton	Hr	
97	EU 796	Active	PER 003		<input type="checkbox"/>	085		CE 010	Wash Screen - Screen 2 (141546)	Diester	HM 3816 OT	1423	550		Ton	Hr	
98	EU 797	Active	PER 003		<input type="checkbox"/>	086	SV 710 (M)		Generator (Rental) - Reciprocating IC Engine	Caterpillar	DM8500	1423	21.2	Energy	Gal	Hr	
99	EU 798	Active	PER 003		<input type="checkbox"/>	087		CE 010	Jam Breaker - Material Handling Equipment	BTI	TBD	1423			Ton	Hr	
100	EU 799	Active	PER 003		<input type="checkbox"/>	088		CE 010	Gyratory Crusher	TBD	5474	1423	2250		Ton	Hr	
101	EU 800	Active	PER 003		<input type="checkbox"/>	089		CE 010	Concrete Surge Bin	TBD	TBD	1423	2250		Ton	Hr	
102	EU 801	Active	PER 003		<input type="checkbox"/>	090		CE 010	Feeder	Diester	72 x 16	1423	2250		Ton	Hr	
103	EU 802	Active	PER 003		<input type="checkbox"/>	091		CE 010	Conveyor 1	TBD	54 x 192	1423	2250		Ton	Hr	
104	EU 803	Active	PER 003		<input type="checkbox"/>	092		CE 010	Belt Scale - Material Handling Equipment	TBD	TBD	1423	2250		Ton	Hr	
105	EU 804	Active	PER 003		<input type="checkbox"/>	093		CE 010	Screen	Diester	8 x 20-1D	1423	2250		Ton	Hr	
106	EU 805	Active	PER 003		<input type="checkbox"/>	094		CE 010	Conveyor 2	TBD	48 x 61	1423	400		Ton	Hr	
107	EU 806	Active	PER 003		<input type="checkbox"/>	095		CE 010	Conveyor 3	TBD	54 x 483	1423	2200		Ton	Hr	
108	EU 807	Active	PER 003		<input type="checkbox"/>	096		CE 010	Feeder 54 x 96 Pan	Syntron	MF-400-D	1423	900		Ton	Hr	
109	EU 808	Active	PER 003		<input type="checkbox"/>	097		CE 010	Feeder 54 x 96 Pan	Syntron	MF-400-D	1423	900		Ton	Hr	
110	EU 809	Active	PER 003		<input type="checkbox"/>	098		CE 010	Feeder 54 x 96 Pan	Syntron	MF-400-D	1423	900		Ton	Hr	
111	EU 810	Active	PER 003		<input type="checkbox"/>	099		CE 010	Concrete Surge Tunnel - Material Handling Equipment	TBD	TBD	1423			Ton	Hr	
112	EU 811	Active	PER 003		<input type="checkbox"/>	100		CE 010	Conveyor 4	TBD	48 x 384	1423	1800		Ton	Hr	
113	EU 812	Active	PER 003		<input type="checkbox"/>	101		CE 010	Belt Scale - Material Handling Equipment	TBD	TBD	1423			Ton	Hr	
114	EU 813	Active	PER 003		<input type="checkbox"/>	102		CE 010	Magnet - Other Emission Unit	TBD	TBD	1423			Ton	Hr	
115	EU 814	Active	PER 003		<input type="checkbox"/>	103		CE 010	Metal Detector - Other Emission Unit	TBD	TBD	1423			Ton	Hr	
116	EU 815	Active	PER 003		<input type="checkbox"/>	104		CE 010	Metal Automated Removal System - Other Emission Unit	TBD	TBD	1423			Ton	Hr	
117	EU 816	Active	PER 003		<input type="checkbox"/>	105		CE 010	Screen	Diester	8 x 24-3D	1423	1800		Ton	Hr	

FACILITY DESCRIPTION: EMISSION UNIT (EU)

	ID No.	Emission Unit Status	Added By (Action)	Commence Const. Date	Initial Startup Date	Removal Date	Firing Method	Pct. Fuel/ Space Heat	Bottleneck	Elevator Type
95	EU 794	Active	PER 003	01/01/2010	01/01/2010					
96	EU 795	Active	PER 003	01/01/1993	01/01/1993					
97	EU 796	Active	PER 003	01/01/2006	01/01/2006					
98	EU 797	Active	PER 003	10/01/2014	10/01/2014					
99	EU 798	Active	PER 003	10/01/2014	10/01/2014					
100	EU 799	Active	PER 003	10/01/2014	10/01/2014					
101	EU 800	Active	PER 003	10/01/2014	10/01/2014					
102	EU 801	Active	PER 003	10/01/2014	10/01/2014					
103	EU 802	Active	PER 003	10/01/2014	10/01/2014					
104	EU 803	Active	PER 003	10/01/2014	10/01/2014					
105	EU 804	Active	PER 003	10/01/2014	10/01/2014					
106	EU 805	Active	PER 003	10/01/2014	10/01/2014					
107	EU 806	Active	PER 003	10/01/2014	10/01/2014					
108	EU 807	Active	PER 003	10/01/2014	10/01/2014					
109	EU 808	Active	PER 003	10/01/2014	10/01/2014					
110	EU 809	Active	PER 003	10/01/2014	10/01/2014					
111	EU 810	Active	PER 003	10/01/2014	10/01/2014					
112	EU 811	Active	PER 003	10/01/2014	10/01/2014					
113	EU 812	Active	PER 003	10/01/2014	10/01/2014					
114	EU 813	Active	PER 003	10/01/2014	10/01/2014					
115	EU 814	Active	PER 003	10/01/2014	10/01/2014					
116	EU 815	Active	PER 003	10/01/2014	10/01/2014					
117	EU 816	Active	PER 003	10/01/2014	10/01/2014					



FACILITY DESCRIPTION: EMISSION UNIT (EU)

Show: Active and Pending Records

Action: PER 003

AQD Facility ID: 14500029

Facility Name: Martin Marietta Materials - Saint Cloud Quarry

	ID No.	Emission Unit Status	Added By (Action)	Retired By (Action)	Insignificant Activity	Operator ID for Item	Stack/Vent ID No(s).	Control Equip. ID No(s).	Operator Description	Manufacturer	Model Number	SIC	Max. Design Capacity	Maximum Design Capacity			Max Fuel Input (mil Btu)
														Materials	Units n	Units d	
118	EU 817	Active	PER 003		<input type="checkbox"/>	106		CE 010	Conveyor 5	TBD	36 x 120	1423	600		Ton	Hr	
119	EU 818	Active	PER 003		<input type="checkbox"/>	107		CE 010	Conveyor 6	TBD	36 x 132	1423	600		Ton	Hr	
120	EU 819	Active	PER 003		<input type="checkbox"/>	108		CE 010	75 Ton Bin	TBD	TBD	1423			Ton	Hr	
121	EU 820	Active	PER 003		<input type="checkbox"/>	109		CE 010	75 Ton Bin	TBD	TBD	1423			Ton	Hr	
122	EU 821	Active	PER 003		<input type="checkbox"/>	110		CE 010	Feeder 36 x 120 Pan Retractable	Syntron	MF-200	1423	600		Ton	Hr	
123	EU 822	Active	PER 003		<input type="checkbox"/>	111		CE 010	Feeder 72 x 120 Pan Retractable	Syntron	MF-400	1423	700		Ton	Hr	
124	EU 823	Active	PER 003		<input type="checkbox"/>	112		CE 010	Super Heavy Duty Cone Crusher	Syntron	7 STD	1423	1200		Ton	Hr	
125	EU 824	Active	PER 003		<input type="checkbox"/>	113		CE 010	Cone Crusher	Sandvik	CH 660	1423	700		Ton	Hr	
126	EU 825	Active	PER 003		<input type="checkbox"/>	114		CE 010	Conveyor 7	TBD	54 x 93	1423	200		Ton	Hr	
127	EU 826	Active	PER 003		<input type="checkbox"/>	115		CE 010	Conveyor 8	TBD	30 x 90	1423	300		Ton	Hr	
128	EU 827	Active	PER 003		<input type="checkbox"/>	116		CE 010	Radial Stacker 9 - Other Emission Unit	TBD	30 x 100	1423	600		Ton	Hr	
129	EU 828	Active	PER 003		<input type="checkbox"/>	117		CE 010	Conveyor 10	TBD	36 x 191	1423	700		Ton	Hr	
130	EU 829	Active	PER 003		<input type="checkbox"/>	118		CE 010	Screen	Diester	10 x 20-2D	1423	700		Ton	Hr	
131	EU 830	Active	PER 003		<input type="checkbox"/>	119		CE 010	Conveyor 11	TBD	30 x 283	1423	700		Ton	Hr	
132	EU 831	Active	PER 003		<input type="checkbox"/>	120		CE 010	50 Ton Bin	TBD	TBD	1423	700		Ton	Hr	
133	EU 832	Active	PER 003		<input type="checkbox"/>	121		CE 010	Belt Feeder 1	TBD	42 x 20	1423	350		Ton	Hr	
134	EU 833	Active	PER 003		<input type="checkbox"/>	122		CE 010	Crusher	Barmac	89000 VSI	1423	350		Ton	Hr	
135	EU 834	Active	PER 003		<input type="checkbox"/>	123		CE 010	Conveyor 12	TBD	48 x 1759	1423	1800		Ton	Hr	
136	EU 835	Active	PER 003		<input type="checkbox"/>	124		CE 010	Belt Scale - Material Handling Equipment	TBD	TBD	1423	1800		Ton	Hr	
137	EU 836	Active	PER 003		<input type="checkbox"/>	125		CE 010	Conveyor 13	TBD	48 x 510	1423	1800		Ton	Hr	

FACILITY DESCRIPTION: EMISSION UNIT (EU)

	ID No.	Emission Unit Status	Added By (Action)	Commence Const. Date	Initial Startup Date	Removal Date	Firing Method	Pct. Fuel/ Space Heat	Bottleneck	Elevator Type
118	EU 817	Active	PER 003	10/01/2014	10/01/2014					
119	EU 818	Active	PER 003	10/01/2014	10/01/2014					
120	EU 819	Active	PER 003	10/01/2014	10/01/2014					
121	EU 820	Active	PER 003	10/01/2014	10/01/2014					
122	EU 821	Active	PER 003	10/01/2014	10/01/2014					
123	EU 822	Active	PER 003	10/01/2014	10/01/2014					
124	EU 823	Active	PER 003	10/01/2014	10/01/2014					
125	EU 824	Active	PER 003	10/01/2014	10/01/2014					
126	EU 825	Active	PER 003	10/01/2014	10/01/2014					
127	EU 826	Active	PER 003	10/01/2014	10/01/2014					
128	EU 827	Active	PER 003	10/01/2014	10/01/2014					
129	EU 828	Active	PER 003	10/01/2014	10/01/2014					
130	EU 829	Active	PER 003	10/01/2014	10/01/2014					
131	EU 830	Active	PER 003	10/01/2014	10/01/2014					
132	EU 831	Active	PER 003	10/01/2014	10/01/2014					
133	EU 832	Active	PER 003	10/01/2014	10/01/2014					
134	EU 833	Active	PER 003	10/01/2014	10/01/2014					
135	EU 834	Active	PER 003	10/01/2014	10/01/2014					
136	EU 835	Active	PER 003	10/01/2014	10/01/2014					
137	EU 836	Active	PER 003	10/01/2014	10/01/2014					



FACILITY DESCRIPTION: STACK/VENTS (SV)

Show: Active and Pending Records

Action: PER 003

AQD Facility ID: 14500029

Facility Name: Martin Marietta Materials - Saint Cloud Quarry

	ID No.	Stack/ Vent Status	Added By (Action)	Retired By (Action)	Operator ID for Item	Operators Description	Height of Opening From Ground (feet)	Inside Dimensions		Design Flow Rate at Top (ACFM)	Exit Gas Temperature at Top (°F)	Flow Rate/ Temperature Information Source	Discharge Direction
								Diameter or Length (feet)	Width (feet)				
1	SV 710	Active	PER 001				20	1.27	1.19	15942	300	Manufacturer	Up, unknown Cap
2	SV 710	Active	PER 003			Diesel Generator (Rental)	16	0.58		2373	926	Manufacturer	Up, No Cap



FACILITY DESCRIPTION: CONTROL EQUIPMENT (CE)

Show: Active and Pending Records

Action: PER 003

AQD Facility ID: 14500029

Facility Name: Martin Marietta Materials - Saint Cloud Quarry

	ID No.	Control Equip. Status	Added By (Action)	Retired By (Action)	Operator ID for Item	Control Equip. Type	Control Equipment Description	Manufacturer	Model	Pollutants Controlled	Capture Efficiency (%)	Destruction/Collection Efficiency (%)	Afterburner Combustion Parameters
1	CE 009	Removed	PER 002			008	Centrifugal Collector - Medium Efficiency	Barber-Green	NA	PM	100	50	
2	CE 010	Active	PER 003		CE001	099	Other	NA	NA	PM2.5 PM10 PM	0 0 0	0 0 0	
3	CE 011	Active	PER 003		CE002	099	Other	NA	NA	PM2.5 PM10 PM	0 0 0	90 90 90	



FACILITY DESCRIPTION: FUGITIVE SOURCES (FS)

Show: Active and Pending Records

Action: PER 003

AQD Facility ID: 14500029

Facility Name: Martin Marietta Materials - Saint Cloud Quarry

	ID No.	Fugitive Source Status	Added By (Action)	Retired By (Action)	Insignificant Activity	Operator ID for Item	Pollutant(s) Emitted	Control Equip. ID No(s).	Fugitive Source Description	Year Installed	Year Removed
1	FS 901	Active	PER 002		<input type="checkbox"/>		PM PM2.5 PM10		Fugitive transfer points		
2	FS 901	Active	PER 003		<input type="checkbox"/>		PM PM2.5 PM10	CE 010	Fugitive Transfer Point (primary & secondary plants) - Material Handling/Transfer/Storage		
3	FS 902	Active	PER 002		<input type="checkbox"/>		PM PM2.5 PM10		Piles		
4	FS 902	Active	PER 003		<input type="checkbox"/>		PM PM2.5 PM10	CE 011	Storage Piles		
5	FS 903	Active	PER 002		<input type="checkbox"/>		PM PM2.5 PM10		Unpaved Roads		
6	FS 903	Active	PER 003		<input type="checkbox"/>		PM PM2.5 PM10	CE 011	Unpaved Roads		

FACILITY DESCRIPTION: Potential-to-emit (by item)

Show: Active and Pending Records

AQD Facility ID: 14500029

Facility Name: Martin Marietta Materials - Saint Cloud Quarry

Item	Pollutant	Added By (Action)	Retired By (Action)	Hourly Potential (lbs per hr)	Unrestricted Potential (tons per yr)	Limited Potential (tons per yr)	Actual Emissions (tons per yr)
EU 710							
	Carbon Monoxide	PER 002					
	Nitrogen Oxides	PER 002					
	PM < 10 micron	PER 002					
	Total Particulate Matter	PER 002					
	Sulfur Dioxide	PER 002					
	Volatile Organic Compounds	PER 002					
EU 712							
	PM < 2.5 micron	PER 003		3.48E+00	1.52E+01	9.00E-02	
	PM < 10 micron	PER 003		3.48E+00	1.52E+01	1.30E+00	
	Total Particulate Matter	PER 003		1.00E+01	4.38E+01	3.85E+00	
EU 713							
	PM < 2.5 micron	PER 003		1.65E+00	7.23E+00	9.00E-02	
	PM < 10 micron	PER 003		1.65E+00	7.23E+00	3.00E-01	
	Total Particulate Matter	PER 003		4.50E+00	1.97E+01	9.20E-01	
EU 714							
	PM < 2.5 micron	PER 003		1.10E-01	4.80E-01	1.00E-02	
	PM < 10 micron	PER 003		1.10E-01	4.80E-01	2.00E-02	
	Total Particulate Matter	PER 003		3.00E-01	1.31E+00	6.00E-02	
EU 715							
	PM < 2.5 micron	PER 003		1.10E-01	4.80E-01	1.00E-02	
	PM < 10 micron	PER 003		1.10E-01	4.80E-01	2.00E-02	
	Total Particulate Matter	PER 003		3.00E-01	1.31E+00	6.00E-02	
EU 716							
	PM < 2.5 micron	PER 003		1.10E-01	4.80E-01	1.00E-02	
	PM < 10 micron	PER 003		1.10E-01	4.80E-01	2.00E-02	
	Total Particulate Matter	PER 003		3.00E-01	1.31E+00	6.00E-02	
EU 717							
	PM < 2.5 micron	PER 003		1.10E-01	4.80E-01	1.00E-02	
	PM < 10 micron	PER 003		1.10E-01	4.80E-01	2.00E-02	
	Total Particulate Matter	PER 003		3.00E-01	1.31E+00	6.00E-02	
EU 718							
	PM < 2.5 micron	PER 003		6.00E-01	2.63E+00	1.10E-01	
	PM < 10 micron	PER 003		6.00E-01	2.63E+00	5.90E-01	
	Total Particulate Matter	PER 003		1.35E+00	5.91E+00	1.31E+00	
EU 719							
	PM < 2.5 micron	PER 003		7.70E-01	3.36E+00	1.40E-01	
	PM < 10 micron	PER 003		7.70E-01	3.36E+00	7.60E-01	
	Total Particulate Matter	PER 003		1.73E+00	7.57E+00	1.68E+00	
EU 720							
	PM < 2.5 micron	PER 003		7.70E-01	3.36E+00	1.40E-01	
	PM < 10 micron	PER 003		7.70E-01	3.36E+00	7.60E-01	
	Total Particulate Matter	PER 003		1.73E+00	7.57E+00	1.68E+00	
EU 721							
	PM < 2.5 micron	PER 003		4.00E-01	1.77E+00	7.00E-02	

FACILITY DESCRIPTION: Potential-to-emit (by item)

Show: Active and Pending Records

AQD Facility ID: 14500029

Facility Name: Martin Marietta Materials - Saint Cloud Quarry

Item	Pollutant	Added By (Action)	Retired By (Action)	Hourly Potential (lbs per hr)	Unrestricted Potential (tons per yr)	Limited Potential (tons per yr)	Actual Emissions (tons per yr)
EU 721							
	PM < 10 micron	PER 003		4.00E-01	1.77E+00	4.00E-01	
	Total Particulate Matter	PER 003		9.10E-01	3.97E+00	8.80E-01	
EU 722							
	PM < 2.5 micron	PER 003		8.90E-01	3.89E+00	1.60E-01	
	PM < 10 micron	PER 003		8.90E-01	3.89E+00	8.80E-01	
	Total Particulate Matter	PER 003		2.00E+00	8.75E+00	1.94E+00	
EU 723							
	PM < 2.5 micron	PER 003		7.20E-01	3.15E+00	1.30E-01	
	PM < 10 micron	PER 003		7.20E-01	3.15E+00	7.10E-01	
	Total Particulate Matter	PER 003		1.62E+00	7.10E+00	1.58E+00	
EU 724							
	PM < 2.5 micron	PER 003		1.74E+00	7.62E+00	4.00E-02	
	PM < 10 micron	PER 003		1.74E+00	7.62E+00	6.50E-01	
	Total Particulate Matter	PER 003		5.00E+00	2.19E+01	1.93E+00	
EU 725							
	PM < 2.5 micron	PER 003		2.20E-01	9.60E-01	1.00E-02	
	PM < 10 micron	PER 003		2.20E-01	9.60E-01	4.00E-02	
	Total Particulate Matter	PER 003		6.00E-01	2.63E+00	1.20E-01	
EU 726							
	PM < 2.5 micron	PER 003		4.35E+00	1.91E+01	1.10E-01	
	PM < 10 micron	PER 003		4.35E+00	1.91E+01	1.62E+00	
	Total Particulate Matter	PER 003		1.25E+01	5.48E+01	4.82E+00	
EU 727							
	PM < 2.5 micron	PER 003		3.70E+00	1.62E+01	9.00E-02	
	PM < 10 micron	PER 003		3.70E+00	1.62E+01	1.38E+00	
	Total Particulate Matter	PER 003		1.06E+01	4.65E+01	4.10E+00	
EU 728							
	PM < 2.5 micron	PER 003		6.96E+00	3.05E+01	1.80E-01	
	PM < 10 micron	PER 003		6.96E+00	3.05E+01	2.59E+00	
	Total Particulate Matter	PER 003		2.00E+01	8.76E+01	7.71E+00	
EU 729							
	PM < 2.5 micron	PER 003		1.04E+01	4.57E+01	2.60E-01	
	PM < 10 micron	PER 003		1.04E+01	4.57E+01	3.89E+00	
	Total Particulate Matter	PER 003		3.00E+01	1.31E+02	1.16E+01	
EU 730							
	PM < 2.5 micron	PER 003		5.50E-01	2.41E+00	3.00E-02	
	PM < 10 micron	PER 003		5.50E-01	2.41E+00	1.00E-01	
	Total Particulate Matter	PER 003		1.50E+00	6.57E+00	3.10E-01	
EU 731							
	PM < 2.5 micron	PER 003		2.09E+00	9.15E+00	1.10E-01	
	PM < 10 micron	PER 003		2.09E+00	9.15E+00	3.80E-01	
	Total Particulate Matter	PER 003		5.70E+00	2.50E+01	1.17E+00	
EU 732							
	PM < 2.5 micron	PER 003		2.09E+00	9.15E+00	1.10E-01	

FACILITY DESCRIPTION: Potential-to-emit (by item)

Show: Active and Pending Records

AQD Facility ID: 14500029

Facility Name: Martin Marietta Materials - Saint Cloud Quarry

Item	Pollutant	Added By (Action)	Retired By (Action)	Hourly Potential (lbs per hr)	Unrestricted Potential (tons per yr)	Limited Potential (tons per yr)	Actual Emissions (tons per yr)
EU 732							
	PM < 10 micron	PER 003		2.09E+00	9.15E+00	3.80E-01	
	Total Particulate Matter	PER 003		5.70E+00	2.50E+01	1.17E+00	
EU 733							
	PM < 2.5 micron	PER 003		2.09E+00	9.15E+00	1.10E-01	
	PM < 10 micron	PER 003		2.09E+00	9.15E+00	3.80E-01	
	Total Particulate Matter	PER 003		5.70E+00	2.50E+01	1.17E+00	
EU 734							
	PM < 2.5 micron	PER 003		5.00E-01	2.17E+00	3.00E-02	
	PM < 10 micron	PER 003		5.00E-01	2.17E+00	9.00E-02	
	Total Particulate Matter	PER 003		1.35E+00	5.91E+00	2.80E-01	
EU 735							
	PM < 2.5 micron	PER 003		5.00E-01	2.17E+00	3.00E-02	
	PM < 10 micron	PER 003		5.00E-01	2.17E+00	9.00E-02	
	Total Particulate Matter	PER 003		1.35E+00	5.91E+00	2.80E-01	
EU 736							
	PM < 2.5 micron	PER 003		2.09E+00	9.15E+00	1.10E-01	
	PM < 10 micron	PER 003		2.09E+00	9.15E+00	3.80E-01	
	Total Particulate Matter	PER 003		5.70E+00	2.50E+01	1.17E+00	
EU 737							
	PM < 2.5 micron	PER 003		5.00E-01	2.17E+00	3.00E-02	
	PM < 10 micron	PER 003		5.00E-01	2.17E+00	9.00E-02	
	Total Particulate Matter	PER 003		1.35E+00	5.91E+00	2.80E-01	
EU 738							
	PM < 2.5 micron	PER 003		2.09E+00	9.15E+00	1.10E-01	
	PM < 10 micron	PER 003		2.09E+00	9.15E+00	3.80E-01	
	Total Particulate Matter	PER 003		5.70E+00	2.50E+01	1.17E+00	
EU 739							
	PM < 2.5 micron	PER 003		5.50E-01	2.41E+00	3.00E-02	
	PM < 10 micron	PER 003		5.50E-01	2.41E+00	1.00E-01	
	Total Particulate Matter	PER 003		1.50E+00	6.57E+00	3.10E-01	
EU 740							
	PM < 2.5 micron	PER 003		1.21E+00	5.30E+00	6.00E-02	
	PM < 10 micron	PER 003		1.21E+00	5.30E+00	2.20E-01	
	Total Particulate Matter	PER 003		3.30E+00	1.45E+01	6.70E-01	
EU 741							
	PM < 2.5 micron	PER 003		8.80E-01	3.85E+00	5.00E-02	
	PM < 10 micron	PER 003		8.80E-01	3.85E+00	1.60E-01	
	Total Particulate Matter	PER 003		2.40E+00	1.05E+01	4.90E-01	
EU 742							
	PM < 2.5 micron	PER 003		1.32E+00	5.78E+00	7.00E-02	
	PM < 10 micron	PER 003		1.32E+00	5.78E+00	2.40E-01	
	Total Particulate Matter	PER 003		3.60E+00	1.58E+01	7.40E-01	
EU 743							
	PM < 2.5 micron	PER 003		1.38E+00	6.02E+00	7.00E-02	

FACILITY DESCRIPTION: Potential-to-emit (by item)

Show: Active and Pending Records

AQD Facility ID: 14500029

Facility Name: Martin Marietta Materials - Saint Cloud Quarry

Item	Pollutant	Added By (Action)	Retired By (Action)	Hourly Potential (lbs per hr)	Unrestricted Potential (tons per yr)	Limited Potential (tons per yr)	Actual Emissions (tons per yr)
EU 743							
	PM < 10 micron	PER 003		1.38E+00	6.02E+00	2.50E-01	
	Total Particulate Matter	PER 003		3.75E+00	1.64E+01	7.70E-01	
EU 744							
	PM < 2.5 micron	PER 003		4.40E-01	1.93E+00	2.00E-02	
	PM < 10 micron	PER 003		4.40E-01	1.93E+00	8.00E-02	
	Total Particulate Matter	PER 003		1.20E+00	5.26E+00	2.50E-01	
EU 745							
	PM < 2.5 micron	PER 003		5.00E-01	2.17E+00	3.00E-02	
	PM < 10 micron	PER 003		5.00E-01	2.17E+00	9.00E-02	
	Total Particulate Matter	PER 003		1.35E+00	5.91E+00	2.80E-01	
EU 746							
	PM < 2.5 micron	PER 003		2.50E-01	1.11E+00	1.00E-02	
	PM < 10 micron	PER 003		2.50E-01	1.11E+00	5.00E-02	
	Total Particulate Matter	PER 003		6.90E-01	3.02E+00	1.40E-01	
EU 747							
	PM < 2.5 micron	PER 003		8.80E-01	3.85E+00	5.00E-02	
	PM < 10 micron	PER 003		8.80E-01	3.85E+00	1.60E-01	
	Total Particulate Matter	PER 003		2.40E+00	1.05E+01	4.90E-01	
EU 748							
	PM < 2.5 micron	PER 003		8.80E-01	3.85E+00	5.00E-02	
	PM < 10 micron	PER 003		8.80E-01	3.85E+00	1.60E-01	
	Total Particulate Matter	PER 003		2.40E+00	1.05E+01	4.90E-01	
EU 749							
	PM < 2.5 micron	PER 003		5.50E-01	2.41E+00	3.00E-02	
	PM < 10 micron	PER 003		5.50E-01	2.41E+00	1.00E-01	
	Total Particulate Matter	PER 003		1.50E+00	6.57E+00	3.10E-01	
EU 750							
	PM < 2.5 micron	PER 003		5.50E-01	2.41E+00	3.00E-02	
	PM < 10 micron	PER 003		5.50E-01	2.41E+00	1.00E-01	
	Total Particulate Matter	PER 003		1.50E+00	6.57E+00	3.10E-01	
EU 751							
	PM < 2.5 micron	PER 003		1.32E+00	5.78E+00	7.00E-02	
	PM < 10 micron	PER 003		1.32E+00	5.78E+00	2.40E-01	
	Total Particulate Matter	PER 003		3.60E+00	1.58E+01	7.40E-01	
EU 752							
	PM < 2.5 micron	PER 003		8.80E-01	3.85E+00	5.00E-02	
	PM < 10 micron	PER 003		8.80E-01	3.85E+00	1.60E-01	
	Total Particulate Matter	PER 003		2.40E+00	1.05E+01	4.90E-01	
EU 753							
	PM < 2.5 micron	PER 003		8.80E-01	3.85E+00	5.00E-02	
	PM < 10 micron	PER 003		8.80E-01	3.85E+00	1.60E-01	
	Total Particulate Matter	PER 003		2.40E+00	1.05E+01	4.90E-01	
EU 754							
	PM < 2.5 micron	PER 003		1.32E+00	5.78E+00	7.00E-02	

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AQD Facility ID: 14500029

Facility Name: Martin Marietta Materials - Saint Cloud Quarry

Item	Pollutant	Added By (Action)	Retired By (Action)	Hourly Potential (lbs per hr)	Unrestricted Potential (tons per yr)	Limited Potential (tons per yr)	Actual Emissions (tons per yr)
EU 754							
	PM < 10 micron	PER 003		1.32E+00	5.78E+00	2.40E-01	
	Total Particulate Matter	PER 003		3.60E+00	1.58E+01	7.40E-01	
EU 755							
	PM < 2.5 micron	PER 003		1.80E-01	8.10E-01	1.00E-02	
	PM < 10 micron	PER 003		1.80E-01	8.10E-01	3.00E-02	
	Total Particulate Matter	PER 003		5.00E-01	2.21E+00	1.00E-01	
EU 756							
	PM < 2.5 micron	PER 003		1.21E+00	5.30E+00	6.00E-02	
	PM < 10 micron	PER 003		1.21E+00	5.30E+00	2.20E-01	
	Total Particulate Matter	PER 003		3.30E+00	1.45E+01	6.70E-01	
EU 757							
	PM < 2.5 micron	PER 003		1.76E+00	7.71E+00	9.00E-02	
	PM < 10 micron	PER 003		1.76E+00	7.71E+00	3.20E-01	
	Total Particulate Matter	PER 003		4.80E+00	2.10E+01	9.80E-01	
EU 758							
	PM < 2.5 micron	PER 003		1.32E+00	5.78E+00	7.00E-02	
	PM < 10 micron	PER 003		1.32E+00	5.78E+00	2.40E-01	
	Total Particulate Matter	PER 003		3.60E+00	1.58E+01	7.40E-01	
EU 759							
	PM < 2.5 micron	PER 003		1.76E+00	7.71E+00	9.00E-02	
	PM < 10 micron	PER 003		1.76E+00	7.71E+00	3.20E-01	
	Total Particulate Matter	PER 003		4.80E+00	2.10E+01	9.80E-01	
EU 760							
	PM < 2.5 micron	PER 003		2.80E-01	1.20E+00	1.00E-02	
	PM < 10 micron	PER 003		2.80E-01	1.20E+00	5.00E-02	
	Total Particulate Matter	PER 003		7.50E-01	3.29E+00	1.50E-01	
EU 761							
	PM < 2.5 micron	PER 003		1.10E+00	4.82E+00	6.00E-02	
	PM < 10 micron	PER 003		1.10E+00	4.82E+00	2.00E-01	
	Total Particulate Matter	PER 003		3.00E+00	1.31E+01	6.10E-01	
EU 762							
	PM < 2.5 micron	PER 003		3.30E-01	1.45E+00	2.00E-02	
	PM < 10 micron	PER 003		3.30E-01	1.45E+00	6.00E-02	
	Total Particulate Matter	PER 003		9.00E-01	3.94E+00	1.80E-01	
EU 763							
	PM < 2.5 micron	PER 003		1.21E+00	5.30E+00	6.00E-02	
	PM < 10 micron	PER 003		1.21E+00	5.30E+00	2.20E-01	
	Total Particulate Matter	PER 003		3.30E+00	1.45E+01	6.70E-01	
EU 764							
	PM < 2.5 micron	PER 003		5.50E-01	2.41E+00	3.00E-02	
	PM < 10 micron	PER 003		5.50E-01	2.41E+00	1.00E-01	
	Total Particulate Matter	PER 003		1.50E+00	6.57E+00	3.10E-01	
EU 765							
	PM < 2.5 micron	PER 003		3.30E-01	1.45E+00	2.00E-02	

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AQD Facility ID: 14500029

Facility Name: Martin Marietta Materials - Saint Cloud Quarry

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EU 765							
	PM < 10 micron	PER 003		3.30E-01	1.45E+00	6.00E-02	
	Total Particulate Matter	PER 003		9.00E-01	3.94E+00	1.80E-01	
EU 766							
	PM < 2.5 micron	PER 003		3.00E+00	1.31E+01	5.50E-01	
	PM < 10 micron	PER 003		3.00E+00	1.31E+01	2.96E+00	
	Total Particulate Matter	PER 003		6.75E+00	2.96E+01	6.57E+00	
EU 767							
	PM < 2.5 micron	PER 003		2.20E-01	9.60E-01	1.00E-02	
	PM < 10 micron	PER 003		2.20E-01	9.60E-01	4.00E-02	
	Total Particulate Matter	PER 003		6.00E-01	2.63E+00	1.20E-01	
EU 768							
	PM < 2.5 micron	PER 003		2.20E-01	9.60E-01	1.00E-02	
	PM < 10 micron	PER 003		2.20E-01	9.60E-01	4.00E-02	
	Total Particulate Matter	PER 003		6.00E-01	2.63E+00	1.20E-01	
EU 769							
	PM < 2.5 micron	PER 003		5.50E-01	2.41E+00	3.00E-02	
	PM < 10 micron	PER 003		5.50E-01	2.41E+00	1.00E-01	
	Total Particulate Matter	PER 003		1.50E+00	6.57E+00	3.10E-01	
EU 770							
	PM < 2.5 micron	PER 003		4.40E-01	1.93E+00	2.00E-02	
	PM < 10 micron	PER 003		4.40E-01	1.93E+00	8.00E-02	
	Total Particulate Matter	PER 003		1.20E+00	5.26E+00	2.50E-01	
EU 771							
	PM < 2.5 micron	PER 003		2.70E+00	1.18E+01	7.00E-02	
	PM < 10 micron	PER 003		2.70E+00	1.18E+01	1.00E+00	
	Total Particulate Matter	PER 003		7.75E+00	3.40E+01	2.99E+00	
EU 775							
	PM < 2.5 micron	PER 003		1.39E+01	6.10E+01	3.50E-01	
	PM < 10 micron	PER 003		1.39E+01	6.10E+01	5.19E+00	
	Total Particulate Matter	PER 003		4.00E+01	1.75E+02	1.54E+01	
EU 776							
	PM < 2.5 micron	PER 003		2.70E+00	1.18E+01	7.00E-02	
	PM < 10 micron	PER 003		2.70E+00	1.18E+01	1.00E+00	
	Total Particulate Matter	PER 003		7.75E+00	3.40E+01	2.99E+00	
EU 777							
	PM < 2.5 micron	PER 003		5.50E-01	2.41E+00	3.00E-02	
	PM < 10 micron	PER 003		5.50E-01	2.41E+00	1.00E-01	
	Total Particulate Matter	PER 003		1.50E+00	6.57E+00	3.10E-01	
EU 778							
	PM < 2.5 micron	PER 003		8.80E-01	3.85E+00	5.00E-02	
	PM < 10 micron	PER 003		8.80E-01	3.85E+00	1.60E-01	
	Total Particulate Matter	PER 003		2.40E+00	1.05E+01	4.90E-01	
EU 779							
	PM < 2.5 micron	PER 003		8.80E-01	3.85E+00	5.00E-02	

FACILITY DESCRIPTION: Potential-to-emit (by item)

Show: Active and Pending Records

AQD Facility ID: 14500029

Facility Name: Martin Marietta Materials - Saint Cloud Quarry

Item	Pollutant	Added By (Action)	Retired By (Action)	Hourly Potential (lbs per hr)	Unrestricted Potential (tons per yr)	Limited Potential (tons per yr)	Actual Emissions (tons per yr)
EU 779							
	PM < 10 micron	PER 003		8.80E-01	3.85E+00	1.60E-01	
	Total Particulate Matter	PER 003		2.40E+00	1.05E+01	4.90E-01	
EU 780							
	PM < 2.5 micron	PER 003		5.50E-01	2.41E+00	3.00E-02	
	PM < 10 micron	PER 003		5.50E-01	2.41E+00	1.00E-01	
	Total Particulate Matter	PER 003		1.50E+00	6.57E+00	3.10E-01	
EU 781							
	PM < 2.5 micron	PER 003		1.10E+00	4.82E+00	6.00E-02	
	PM < 10 micron	PER 003		1.10E+00	4.82E+00	2.00E-01	
	Total Particulate Matter	PER 003		3.00E+00	1.31E+01	6.10E-01	
EU 782							
	PM < 2.5 micron	PER 003		5.50E-01	2.41E+00	3.00E-02	
	PM < 10 micron	PER 003		5.50E-01	2.41E+00	1.00E-01	
	Total Particulate Matter	PER 003		1.50E+00	6.57E+00	3.10E-01	
EU 783							
	PM < 2.5 micron	PER 003		1.10E+00	4.82E+00	6.00E-02	
	PM < 10 micron	PER 003		1.10E+00	4.82E+00	2.00E-01	
	Total Particulate Matter	PER 003		3.00E+00	1.31E+01	6.10E-01	
EU 784							
	PM < 2.5 micron	PER 003		5.50E-01	2.41E+00	3.00E-02	
	PM < 10 micron	PER 003		5.50E-01	2.41E+00	1.00E-01	
	Total Particulate Matter	PER 003		1.50E+00	6.57E+00	3.10E-01	
EU 785							
	PM < 2.5 micron	PER 003		5.50E-01	2.41E+00	3.00E-02	
	PM < 10 micron	PER 003		5.50E-01	2.41E+00	1.00E-01	
	Total Particulate Matter	PER 003		1.50E+00	6.57E+00	3.10E-01	
EU 786							
	PM < 2.5 micron	PER 003		1.10E+00	4.82E+00	6.00E-02	
	PM < 10 micron	PER 003		1.10E+00	4.82E+00	2.00E-01	
	Total Particulate Matter	PER 003		3.00E+00	1.31E+01	6.10E-01	
EU 787							
	PM < 2.5 micron	PER 003		5.00E-01	2.17E+00	3.00E-02	
	PM < 10 micron	PER 003		5.00E-01	2.17E+00	9.00E-02	
	Total Particulate Matter	PER 003		1.35E+00	5.91E+00	2.80E-01	
EU 788							
	PM < 2.5 micron	PER 003		1.21E+00	5.30E+00	6.00E-02	
	PM < 10 micron	PER 003		1.21E+00	5.30E+00	2.20E-01	
	Total Particulate Matter	PER 003		3.30E+00	1.45E+01	6.70E-01	
EU 789							
	PM < 2.5 micron	PER 003		5.00E-01	2.17E+00	3.00E-02	
	PM < 10 micron	PER 003		5.00E-01	2.17E+00	9.00E-02	
	Total Particulate Matter	PER 003		1.35E+00	5.91E+00	2.80E-01	
EU 790							
	PM < 2.5 micron	PER 003		5.50E-01	2.41E+00	3.00E-02	

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AQD Facility ID: 14500029

Facility Name: Martin Marietta Materials - Saint Cloud Quarry

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EU 790							
	PM < 10 micron	PER 003		5.50E-01	2.41E+00	1.00E-01	
	Total Particulate Matter	PER 003		1.50E+00	6.57E+00	3.10E-01	
EU 791							
	PM < 2.5 micron	PER 003		5.50E-01	2.41E+00	3.00E-02	
	PM < 10 micron	PER 003		5.50E-01	2.41E+00	1.00E-01	
	Total Particulate Matter	PER 003		1.50E+00	6.57E+00	3.10E-01	
EU 792							
	PM < 2.5 micron	PER 003		8.70E-01	3.82E+00	5.00E-02	
	PM < 10 micron	PER 003		8.70E-01	3.82E+00	1.60E-01	
	Total Particulate Matter	PER 003		2.38E+00	1.04E+01	4.90E-01	
EU 793							
	PM < 2.5 micron	PER 003		1.10E+00	4.82E+00	6.00E-02	
	PM < 10 micron	PER 003		1.10E+00	4.82E+00	2.00E-01	
	Total Particulate Matter	PER 003		3.00E+00	1.31E+01	6.10E-01	
EU 794							
	PM < 2.5 micron	PER 003		1.80E+00	7.88E+00	3.30E-01	
	PM < 10 micron	PER 003		1.80E+00	7.88E+00	1.77E+00	
	Total Particulate Matter	PER 003		4.05E+00	1.77E+01	3.94E+00	
EU 795							
	PM < 2.5 micron	PER 003		1.31E+01	5.72E+01	3.30E-01	
	PM < 10 micron	PER 003		1.31E+01	5.72E+01	4.86E+00	
	Total Particulate Matter	PER 003		3.75E+01	1.64E+02	1.45E+01	
EU 796							
	PM < 2.5 micron	PER 003		4.79E+00	2.10E+01	1.20E-01	
	PM < 10 micron	PER 003		4.79E+00	2.10E+01	1.78E+00	
	Total Particulate Matter	PER 003		1.38E+01	6.02E+01	5.30E+00	
EU 797							
	Acetaldehyde	PER 003		1.99E-03	8.70E-03		
	Acrolein	PER 003		2.40E-04	1.05E-03		
	Benzene	PER 003		2.42E-03	1.06E-02		
	1,3-Butadiene	PER 003		1.01E-04	4.44E-04		
	Carbon Dioxide Equivalent	PER 003		4.23E+02	1.85E+03		
	Carbon Monoxide	PER 003		2.46E+00	1.08E+01		
	Formaldehyde	PER 003		3.06E-03	1.34E-02		
	Naphthalene	PER 003		2.20E-04	9.62E-04		
	HAPs - Total	PER 003		1.00E-02	4.39E-02		
	Toluene	PER 003		1.06E-03	4.64E-03		
	Xylenes (mixed isomers)	PER 003		7.38E-04	3.23E-03		
	Nitrogen Oxides	PER 003		1.14E+01	5.00E+01		
	PM < 2.5 micron	PER 003		8.00E-01	3.52E+00		
	PM < 10 micron	PER 003		8.00E-01	3.52E+00		
	Polycyclic organic matter	PER 003		2.15E-04	9.44E-04		
	Total Particulate Matter	PER 003		8.00E-01	3.52E+00		
	HAP-Single	PER 003		3.06E-03	1.34E-02		
	Sulfur Dioxide	PER 003		7.50E-01	3.29E+00		

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AQD Facility ID: 14500029

Facility Name: Martin Marietta Materials - Saint Cloud Quarry

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EU 797							
	Volatile Organic Compounds	PER 003		9.30E-01	4.08E+00		
EU 799							
	PM < 2.5 micron	PER 003		5.40E+00	2.37E+01	9.90E-01	
	PM < 10 micron	PER 003		5.40E+00	2.37E+01	5.32E+00	
	Total Particulate Matter	PER 003		1.22E+01	5.32E+01	1.18E+01	
EU 800							
	PM < 2.5 micron	PER 003		2.48E+00	1.08E+01	1.30E-01	
	PM < 10 micron	PER 003		2.48E+00	1.08E+01	4.50E-01	
	Total Particulate Matter	PER 003		6.75E+00	2.96E+01	1.38E+00	
EU 801							
	PM < 2.5 micron	PER 003		2.48E+00	1.08E+01	1.30E-01	
	PM < 10 micron	PER 003		2.48E+00	1.08E+01	4.50E-01	
	Total Particulate Matter	PER 003		6.75E+00	2.96E+01	1.38E+00	
EU 802							
	PM < 2.5 micron	PER 003		2.48E+00	1.08E+01	1.30E-01	
	PM < 10 micron	PER 003		2.48E+00	1.08E+01	4.50E-01	
	Total Particulate Matter	PER 003		6.75E+00	2.96E+01	1.38E+00	
EU 803							
	PM < 2.5 micron	PER 003		2.48E+00	1.08E+01	1.30E-01	
	PM < 10 micron	PER 003		2.48E+00	1.08E+01	4.50E-01	
	Total Particulate Matter	PER 003		6.75E+00	2.96E+01	1.38E+00	
EU 804							
	PM < 2.5 micron	PER 003		1.96E+01	8.57E+01	4.90E-01	
	PM < 10 micron	PER 003		1.96E+01	8.57E+01	7.29E+00	
	Total Particulate Matter	PER 003		5.63E+01	2.46E+02	2.17E+01	
EU 805							
	PM < 2.5 micron	PER 003		4.40E-01	1.93E+00	2.00E-02	
	PM < 10 micron	PER 003		4.40E-01	1.93E+00	8.00E-02	
	Total Particulate Matter	PER 003		1.20E+00	5.26E+00	2.50E-01	
EU 806							
	PM < 2.5 micron	PER 003		2.48E+00	1.08E+01	1.30E-01	
	PM < 10 micron	PER 003		2.48E+00	1.08E+01	4.50E-01	
	Total Particulate Matter	PER 003		6.75E+00	2.96E+01	1.38E+00	
EU 807							
	PM < 2.5 micron	PER 003		9.90E-01	4.34E+00	5.00E-02	
	PM < 10 micron	PER 003		9.90E-01	4.34E+00	1.80E-01	
	Total Particulate Matter	PER 003		2.70E+00	1.18E+01	5.50E-01	
EU 808							
	PM < 2.5 micron	PER 003		9.90E-01	4.34E+00	5.00E-02	
	PM < 10 micron	PER 003		9.90E-01	4.34E+00	1.80E-01	
	Total Particulate Matter	PER 003		2.70E+00	1.18E+01	5.50E-01	
EU 809							
	PM < 2.5 micron	PER 003		9.90E-01	4.34E+00	5.00E-02	
	PM < 10 micron	PER 003		9.90E-01	4.34E+00	1.80E-01	

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Facility Name: Martin Marietta Materials - Saint Cloud Quarry

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EU 809							
	Total Particulate Matter	PER 003		2.70E+00	1.18E+01	5.50E-01	
EU 811							
	PM < 2.5 micron	PER 003		1.98E+00	8.67E+00	1.00E-01	
	PM < 10 micron	PER 003		9.90E-01	8.67E+00	3.60E-01	
	Total Particulate Matter	PER 003		5.40E+00	2.37E+01	1.10E+00	
EU 816							
	PM < 2.5 micron	PER 003		1.57E+01	6.86E+01	3.90E-01	
	PM < 10 micron	PER 003		1.57E+01	6.86E+01	5.83E+00	
	Total Particulate Matter	PER 003		4.50E+01	1.97E+02	1.73E+01	
EU 817							
	PM < 2.5 micron	PER 003		5.00E-01	2.17E+00	3.00E-02	
	PM < 10 micron	PER 003		5.00E-01	2.17E+00	9.00E-02	
	Total Particulate Matter	PER 003		1.35E+00	5.91E+00	2.80E-01	
EU 818							
	PM < 2.5 micron	PER 003		5.00E-01	2.17E+00	3.00E-02	
	PM < 10 micron	PER 003		5.00E-01	2.17E+00	9.00E-02	
	Total Particulate Matter	PER 003		1.35E+00	5.91E+00	2.80E-01	
EU 821							
	PM < 2.5 micron	PER 003		6.60E-01	2.89E+00	3.00E-02	
	PM < 10 micron	PER 003		6.60E-01	2.89E+00	1.20E-01	
	Total Particulate Matter	PER 003		1.80E+00	7.88E+00	3.70E-01	
EU 822							
	PM < 2.5 micron	PER 003		7.70E-01	3.37E+00	4.00E-02	
	PM < 10 micron	PER 003		7.70E-01	3.37E+00	1.40E-01	
	Total Particulate Matter	PER 003		2.10E+00	9.20E+00	4.30E-01	
EU 823							
	PM < 2.5 micron	PER 003		2.88E+00	1.26E+01	5.30E-01	
	PM < 10 micron	PER 003		2.88E+00	1.26E+01	2.84E+00	
	Total Particulate Matter	PER 003		6.48E+00	2.84E+01	6.31E+00	
EU 824							
	PM < 2.5 micron	PER 003		1.68E+00	7.36E+00	3.10E-01	
	PM < 10 micron	PER 003		1.68E+00	7.36E+00	1.66E+00	
	Total Particulate Matter	PER 003		3.78E+00	1.66E+01	3.68E+00	
EU 825							
	PM < 2.5 micron	PER 003		3.30E-01	1.45E+00	2.00E-02	
	PM < 10 micron	PER 003		3.30E-01	1.45E+00	6.00E-02	
	Total Particulate Matter	PER 003		9.00E-01	3.94E+00	1.80E-01	
EU 826							
	PM < 2.5 micron	PER 003		3.30E-01	1.45E+00	2.00E-02	
	PM < 10 micron	PER 003		3.30E-01	1.45E+00	6.00E-02	
	Total Particulate Matter	PER 003		9.00E-01	3.94E+00	1.80E-01	
EU 827							
	PM < 2.5 micron	PER 003		3.30E-01	1.45E+00	2.00E-02	
	PM < 10 micron	PER 003		3.30E-01	1.45E+00	6.00E-02	

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EU 827							
	Total Particulate Matter	PER 003		9.00E-01	3.94E+00	1.80E-01	
EU 828							
	PM < 2.5 micron	PER 003		7.70E-01	3.37E+00	4.00E-02	
	PM < 10 micron	PER 003		7.70E-01	3.37E+00	1.40E-01	
	Total Particulate Matter	PER 003		2.10E+00	9.20E+00	4.30E-01	
EU 829							
	PM < 2.5 micron	PER 003		6.09E+00	2.67E+01	1.50E-01	
	PM < 10 micron	PER 003		6.09E+00	2.67E+01	2.27E+00	
	Total Particulate Matter	PER 003		1.75E+01	7.67E+01	6.75E+00	
EU 830							
	PM < 2.5 micron	PER 003		7.70E-01	3.37E+00	4.00E-02	
	PM < 10 micron	PER 003		7.70E-01	3.37E+00	1.40E-01	
	Total Particulate Matter	PER 003		2.10E+00	9.20E+00	4.30E-01	
EU 831							
	PM < 2.5 micron	PER 003		7.70E-01	3.37E+00	4.00E-02	
	PM < 10 micron	PER 003		7.70E-01	3.37E+00	1.40E-01	
	Total Particulate Matter	PER 003		2.10E+00	9.20E+00	4.30E-01	
EU 832							
	PM < 2.5 micron	PER 003		3.30E-01	1.45E+00	2.00E-02	
	PM < 10 micron	PER 003		3.30E-01	1.45E+00	6.00E-02	
	Total Particulate Matter	PER 003		9.00E-01	3.94E+00	1.80E-01	
EU 833							
	PM < 2.5 micron	PER 003		8.40E-01	3.68E+00	1.50E-01	
	PM < 10 micron	PER 003		8.40E-01	3.68E+00	8.30E-01	
	Total Particulate Matter	PER 003		1.89E+00	8.28E+00	1.84E+00	
EU 834							
	PM < 2.5 micron	PER 003		1.98E+00	8.67E+00	1.00E-01	
	PM < 10 micron	PER 003		1.98E+00	8.67E+00	3.60E-01	
	Total Particulate Matter	PER 003		5.40E+00	2.37E+01	1.10E+00	
EU 835							
	PM < 2.5 micron	PER 003		1.98E+00	8.67E+00	1.00E-01	
	PM < 10 micron	PER 003		1.98E+00	8.67E+00	3.60E-01	
	Total Particulate Matter	PER 003		5.40E+00	2.37E+01	1.10E+00	
EU 836							
	PM < 2.5 micron	PER 003		1.98E+00	8.67E+00	1.00E-01	
	PM < 10 micron	PER 003		1.98E+00	8.67E+00	3.60E-01	
	Total Particulate Matter	PER 003		5.40E+00	2.37E+01	1.10E+00	
FS 901							
	PM < 2.5 micron	PER 002		1.84E+00	6.03E+02	1.47E+00	
	PM < 10 micron	PER 002		7.15E+00	6.08E+02	5.72E+00	
	Total Particulate Matter	PER 002		2.05E+01	1.66E+03	1.64E+01	
FS 902							
	PM < 2.5 micron	PER 002		8.90E-01	3.90E+00	3.14E+00	
	PM < 10 micron	PER 002		5.84E+00	2.56E+01	2.06E+01	

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FS 902							
	Total Particulate Matter	PER 002		1.18E+01	5.19E+01	4.13E+01	
FS 903							
	PM < 2.5 micron	PER 002		6.20E-01	1.09E+01	2.71E+00	
	PM < 10 micron	PER 002		6.19E+00	1.09E+02	2.71E+01	
	Total Particulate Matter	PER 002		2.11E+01	3.70E+02	9.26E+01	
GP 003							
	PM < 2.5 micron	PER 002		3.38E+00	1.91E+03	2.00E+00	
	PM < 2.5 micron	PER 003					
	PM < 10 micron	PER 002		4.03E+01	1.91E+03	2.02E+01	
	PM < 10 micron	PER 003					
	Total Particulate Matter	PER 002		1.08E+02	5.17E+03	5.61E+01	
	Total Particulate Matter	PER 003					



COMPLIANCE PLAN **CD-01**

Facility Name: Martin Marietta Materials - Saint Cloud Quarry

Permit Number: 14500029 - 003

Subject Item: Total Facility

	NC/ CA	Type	Citation	Requirement
1.0		CD	hdr	PRODUCTION LIMITS AND OPERATING REQUIREMENTS
2.0		CD	Title I Condition: to avoid classification as major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; To avoid major source classification under 40 CFR Section 70.2 and Minn. R. 7007.0200	The following production limits and operating requirements apply to all units at the facility location, and not only to those units owned and operated by the Permittee.
3.0		LIMIT	Title I Condition: to avoid classification as major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; To avoid major source classification under 40 CFR Section 70.2 and Minn. R. 7007.0200	Production: less than or equal to 3500000 tons/year using 12-month Rolling Sum of crushed stone (excluding fines), calculated by the last day of the month for the previous 12-month period.
4.0		LIMIT	Title I Condition: to avoid classification as major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; To avoid major source classification under 40 CFR Section 70.2 and Minn. R. 7007.0200	Production: less than or equal to 100000 tons/year using 12-month Rolling Sum of crushed fines, calculated by the last day of the month for the previous 12-month period. "Fines crushing" is defined as the crushing of material to a maximum size of 3/16 inch or smaller.
5.0		CD	Title I Condition: to avoid classification as major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; To avoid major source classification under 40 CFR Section 70.2 and Minn. R. 7007.0200	Number of Units in Operation at any time on site at the facility shall be limited to a maximum of: 15 crushers 20 screens 100 transfer points (this includes fugitive transfer points). Equipment in storage that is not operative or is being repaired is not subject to this equipment limitation requirement.
6.0		CD	Title I Condition: to avoid classification as major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; To avoid major source classification under 40 CFR Section 70.2 and Minn. R. 7007.0200	Feed material moisture content: Greater than or equal to 1.5 percent (by weight).
7.0		CD	Minn. Stat. 116.07, subp. 4a; Minn. R. 7007.0800, subp. 2	The Permittee shall not install or operate any equipment at the stationary source which is an affected facility under any New Source Performance Standard (NSPS) under 40 CFR pt. 60 other than 40 CFR pt. 60, subp. OOO and subp. Kb. The Permittee shall comply with any applicable requirements of subps. OOO and Kb. If the Permittee wishes to install or operate any equipment subject to NSPS other than subps. OOO and/or Kb, the Permittee shall apply for and obtain an amendment to this permit to authorize the installation and/or operation.
8.0		CD	hdr	SOURCE-SPECIFIC REQUIREMENTS
9.0		CD	Title I Condition: to avoid classification as major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; To avoid major source classification under 40 CFR Section 70.2 and Minn. R. 7007.0200	The Permittee is authorized to install and operate EUs 797 - 836 as defined by the emissions unit information in Appendix IIII of this permit, within 18 months after permit issuance of Permit No. 14500029-003. The units shall meet all the requirements of this permit.
10.0		CD	Minn. R. 7007.0800, subp. 2	Permit Appendices: This permit contains appendices as listed in the permit Table of Contents. The Permittee shall comply with all requirements contained in the appendices.
11.0		CD	hdr	OPERATIONAL REQUIREMENTS
12.0		CD	Minn. R. 7011.0020	Circumvention: Do not install or use a device or means that conceals or dilutes emissions, which would otherwise violate a federal or state air pollution control rule, without reducing the total amount of pollutant emitted.



COMPLIANCE PLAN **CD-01**

Facility Name: Martin Marietta Materials - Saint Cloud Quarry

Permit Number: 14500029 - 003

13.0		CD	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 16(J)	Air Pollution Control Equipment: Operate all pollution control equipment whenever the corresponding process equipment and emission units are operated.
14.0		CD	Minn. R. 7007.0800, subps. 14 and 16(J)	Operation and Maintenance Plan: Retain at the stationary source an operation and maintenance plan for all air pollution control equipment. At a minimum, the O & M plan shall identify all air pollution control equipment and control practices and shall include a preventative maintenance program for the equipment and practices, a description of (the minimum but not necessarily the only) corrective actions to be taken to restore the equipment and practices to proper operation to meet applicable permit conditions, a description of the employee training program for proper operation and maintenance of the control equipment and practices, and the records kept to demonstrate plan implementation.
15.0		CD	Minn. R. 7019.1000, subp. 4	Operation Changes: In any shutdown, breakdown, or deviation the Permittee shall immediately take all practical steps to modify operations to reduce the emission of any regulated air pollutant. The Commissioner may require feasible and practical modifications in the operation to reduce emissions of air pollutants. No emissions units that have an unreasonable shutdown or breakdown frequency of process or control equipment shall be permitted to operate.
16.0		CD	Minn. R. 7011.0150	Fugitive Emissions: Do not cause or permit the handling, use, transporting, or storage of any material in a manner which may allow avoidable amounts of particulate matter to become airborne. Comply with all other requirements listed in Minn. R. 7011.0150.
17.0		CD	Minn. R. 7030.0010 - 7030.0080	Noise: The Permittee shall comply with the noise standards set forth in Minn. R. 7030.0010 to 7030.0080 at all times during the operation of any emission units. This is a state only requirement and is not enforceable by the EPA Administrator or citizens under the Clean Air Act.
18.0		CD	Minn. R. 7007.0800, subp. 9(A)	Inspections: The Permittee shall comply with the inspection procedures and requirements as found in Minn. R. 7007.0800, subp. 9(A).
19.0		CD	Minn. R. 7007.0800, subp. 16	The Permittee shall comply with the General Conditions listed in Minn. R. 7007.0800, subp. 16.
20.0		CD	hdr	MONITORING REQUIREMENTS
21.0		CD	Title I Condition: to avoid classification as major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; To avoid major source classification under 40 CFR Section 70.2	<p>Feed Material Moisture Content Monitoring (part 1):</p> <p>Demonstrate that all feed material moisture content is at least 1.5 percent by either method 1 or 2 below:</p> <ol style="list-style-type: none"> 1. Test moisture content of each different feed material source (sampled at an area representative of the feed source and physically capable of being sampled), as follows: <ol style="list-style-type: none"> a. Use American Society for Testing and Materials (ASTM) method numbers D 2216-92 or D 4643-93 (or equivalent). b. Keep records of each moisture content test summarizing the method used, results, date, time, and initials of person performing test. c. Test weekly, when operating, unless three consecutive tests at the stationary source location show moisture contents of greater than or equal to 1.5 percent after which testing is no longer required until the source of the feed material changes.
22.0		CD	Title I Condition: to avoid classification as major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; To avoid major source classification under 40 CFR Section 70.2	<p>Feed Material Moisture Content Monitoring (part 2):</p> <ol style="list-style-type: none"> d. When testing indicates feed material moisture content is less than 1.5 percent, or in situations where it is infeasible to sample and test, or where the Permittee elects not to sample and test, the Permittee must operate a moisture addition device at or immediately prior to the initial crusher(s) or initial screen(s) where unprocessed feed material is being fed to achieve a moisture content greater than or equal to 1.5 percent. Moisture addition during operation shall continue until subsequent moisture content testing demonstrates feed material moisture content is greater than or equal to 1.5 percent. <p>On each operating day, either:</p> <ol style="list-style-type: none"> (i) keep records of the date, water flow rate, material throughput rate, and initials of the person making the record and the time the record was made; or,



COMPLIANCE PLAN **CD-01**

Facility Name: Martin Marietta Materials - Saint Cloud Quarry

Permit Number: 14500029 - 003

23.0		CD	Title I Condition: to avoid classification as major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; To avoid major source classification under 40 CFR Section 70.2	<p>Feed Material Moisture Content Monitoring (part 3):</p> <p>(ii) conduct moisture content testing daily on the feed material after water application following items a. and b. above, and if results show moisture content is less than 1.5 percent, increase water addition to ensure moisture is 1.5 percent or greater and re-test to verify.</p> <p>OR</p> <p>2. Keep records indicating that feed material is being removed from below the water table - or from below the surface of a waterway (e.g., creek, river, lake) - or that the feed material is recycled asphalt pavement. Records shall include a description of the source (if recycled asphalt pavement, so indicate), the corresponding dates, and the initials of the person making the record.</p>
24.0		CD	Minn. R. 7007.0800, subp. 4(D)	<p>Monitoring Equipment Calibration - The Permittee shall either:</p> <ol style="list-style-type: none"> 1. Calibrate or replace required monitoring equipment every 12 months; or 2. Calibrate at the frequency stated in the manufacturer's specifications. <p>For each monitor, the Permittee shall maintain a record of all calibrations, including the date conducted, and any corrective action that resulted. The Permittee shall include the calibration frequencies, procedures, and manufacturer's specifications (if applicable) in the Operations and Maintenance Plan. Any requirements applying to continuous emission monitors are listed separately in this permit.</p>
25.0		CD	Minn. R. 7007.0800, subp. 4(D)	Operation of Monitoring Equipment: Unless otherwise noted in Tables A and/or B, monitoring a process or control equipment connected to that process is not necessary during periods when the process is shutdown, or during checks of the monitoring systems, such as calibration checks and zero and span adjustments. If monitoring records are required, they should reflect any such periods of process shutdown or checks of the monitoring system.
26.0		CD	hdr	RECORDKEEPING
27.0		CD	Title I Condition: to avoid classification as major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; To avoid major source classification under 40 CFR Section 70.2	<p>Recordkeeping - Crushing:</p> <ol style="list-style-type: none"> 1. Once each day, record the tons of daily crushing production for the previous calendar day; 2. By the last day of each month, calculate and record the monthly crushing production, in tons, during the previous calendar month based on daily production records; 3. By the last day of each month, calculate and record the 12-month rolling sum crushing production for the previous 12-month period by summing the monthly production records for the previous 12 months. <p>Daily records must indicate the production date, production quantity (tons), and material processed or produced.</p>
28.0		CD	Title I Condition: to avoid classification as major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; To avoid major source classification under 40 CFR Section 70.2	<p>Recordkeeping - Fines Crushing:</p> <ol style="list-style-type: none"> 1. Once each day, record the tons of daily fines crushing production for the previous calendar day; 2. By the last day of each month, calculate and record the monthly fines crushing production, in tons, during the previous calendar month based on daily production records; 3. By the last day of each month, calculate and record the 12-month rolling sum fines crushing production for the previous 12-month period by summing the monthly production records for the previous 12 months. <p>Daily records must indicate the production date, production quantity (tons), and material processed or produced.</p>
29.0		CD	Title I Condition: to avoid classification as major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; To avoid major source classification under 40 CFR Section 70.2	Maintain records indicating the number and type of equipment in operation at the stationary source at any time. A new record is required on each date that any change is made to the type and/or number of equipment at the stationary source. Equipment in storage that is not operative or is being repaired is not subject to this equipment recordkeeping requirement.



COMPLIANCE PLAN **CD-01**

Facility Name: Martin Marietta Materials - Saint Cloud Quarry

Permit Number: 14500029 - 003

30.0		CD	Minn. Stat. 116.07, subp. 4a; Minn. R. 7007.0800, subp. 2; Minn. R. 7007.1100	Labeling of Process Equipment: Permanently affix the manufacturer's serial number (or otherwise unique identifying number) to each piece of crushing, screening, transfer operation, and stationary internal combustion engine equipment for tracking purposes within 60 days of permit issuance. The number shall be permanently affixed and maintained so that it is readable and visible at all times from a safe distance. This number shall correspond to the number contained in records regarding the piece of equipment.
31.0		CD	Title I Condition: to avoid classification as major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; To avoid major source classification under 40 CFR Section 70.2	If applicable, keep records indicating that feed material is being removed from below the water table - or from below the surface of a waterway (e.g., creek, river, lake) - or that the feed material is recycled asphalt pavement. Records shall include a description of the source, the corresponding dates, and the initials of the person making the record. If feed material is removed from below the water table or below the surface of a waterway, then testing for moisture content or moisture addition is not required.
32.0		CD	Minn. R. 7007.0800, subp. 5(C)	Recordkeeping: Retain all records at the stationary source, unless otherwise specified within this permit, for a period of five (5) years from the date of monitoring, sample, measurement, or report. Records which must be retained at this location include all calibration and maintenance records, all original recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. Records must conform to the requirements listed in Minn. R. 7007.0800, subp. 5(A).
33.0		CD	Minn. R. 7007.0800, subp. 5(B)	Recordkeeping: Maintain records describing any insignificant modifications (as required by Minn. R. 7007.1250, subp. 3) or changes contravening permit terms (as required by Minn. R. 7007.1350, subp. 2), including records of the emissions resulting from those changes. The Permittee is not required to keep these records for changes in number of process units in operation at any time, as long as the number of units remain limited to those approved in this permit, as listed above.
34.0		CD	Minn. R. 7007.1200, subp. 4	If the Permittee determines that no permit amendment or notification is required prior to making a change, the Permittee must retain records of all calculations required under Minn. R. 7007.1200. For nonexpiring permits, these records shall be kept for a period of five years from the date that the change was made. The records shall be kept at the stationary source for the current calendar year of operation and may be kept at the stationary source or office of the stationary source for all other years. The records may be maintained in either electronic or paper format.
35.0		CD	hdr	REPORTING/SUBMITTALS
36.0		CD	Minn. Stat. 116.07, subp. 4a; Minn. R. 7007.0800, subp. 2; Minn. R. 7007.1100.	NSPS Equipment Description and Notification: When additional equipment is added to the Permittee's operations, an NSPS Equipment Description and Notification must be submitted on a form approved by the Commissioner and/or a record must be made as described below. The NSPS Equipment Description and Notification form (NM-EQ [modified] in Appendix B of this permit) shall be used to provide the required NSPS notifications. All NSPS affected facilities owned or operated by the Permittee must be accounted for in the NSPS Equipment Description and Notification form submitted at the time of permit application or in these subsequent updates. If a piece of equipment is not subject to NSPS, the Permittee must keep records to demonstrate that it did not need to be included in a notification.
37.0		CD	Minn. R. 7019.1000, subp. 3	Shutdown Notifications: Notify the Commissioner at least 24 hours in advance of a planned shutdown of any control equipment or process equipment if the shutdown would cause any increase in the emissions of any regulated air pollutant. If the Permittee does not have advance knowledge of the shutdown, notification shall be made to the Commissioner as soon as possible after the shutdown. However, notification is not required in the circumstances outlined in Items A and B of Minn. R. 7019.1000, subp. 3. At the time of notification, the Permittee shall inform the Commissioner of the cause of the shutdown and the estimated duration. The Permittee shall notify the Commissioner when the shutdown is over.



COMPLIANCE PLAN **CD-01**

Facility Name: Martin Marietta Materials - Saint Cloud Quarry

Permit Number: 14500029 - 003

38.0		CD	Minn. R. 7019.1000, subp. 2	<p>Breakdown Notifications: Notify the Commissioner within 24 hours of a breakdown of more than one hour duration of any control equipment or process equipment if the breakdown causes any increase in the emissions of any regulated air pollutant. The 24-hour time period starts when the breakdown was discovered or reasonably should have been discovered by the Permittee. However, notification is not required in the circumstances outlined in Items A and B of Minn. R. 7019.1000, subp. 2.</p> <p>At the time of notification or as soon as possible thereafter, the Permittee shall inform the Commissioner of the cause of the breakdown and the estimated duration. The Permittee shall notify the Commissioner when the breakdown is over.</p>
39.0		CD	Minn. R. 7019.1000, subp. 1	<p>Notification of Deviations Endangering Human Health or the Environment: As soon as possible after discovery, notify the Commissioner or the state duty officer, either orally or by facsimile, of any deviation from permit conditions which could endanger human health or the environment.</p>
40.0		CD	Minn. R. 7019.1000, subp. 1	<p>Notification of Deviations Endangering Human Health or the Environment Report: Within 2 working days of discovery, notify the Commissioner in writing of any deviation from permit conditions which could endanger human health or the environment. Include the following information in this written description:</p> <ol style="list-style-type: none"> 1. the cause of the deviation; 2. the exact dates of the period of the deviation, if the deviation has been corrected; 3. whether or not the deviation has been corrected; 4. the anticipated time by which the deviation is expected to be corrected, if not yet corrected; and 5. steps taken or planned to reduce, eliminate, and prevent reoccurrence of the deviation.
41.0		S/A	Minn. R. 7007.0800, subp. 6(A)(2)	<p>Semiannual Deviations Report: due 30 days after end of each calendar half-year following Permit Issuance. The first semiannual report submitted by the Permittee shall cover the calendar half-year in which the permit is issued. The first report of each calendar year covers January 1 - June 30. The second report of each calendar year covers July 1 - December 31. If no deviations have occurred, the Permittee shall submit the report stating no deviations.</p>
42.0		CD	Minn. Stat. Section 116.07, subd. 4a; Minn. R. 7007.0800, subp. 2	<p>Fugitive Emissions Control Plan: The Permittee shall submit to the Commissioner and implement a fugitive emissions control plan within 60 days of the date of permit issuance. The plan shall identify all fugitive emission sources, primary and contingent control measures, and record keeping. The Permittee shall follow the actions and record keeping specified in the control plan. If the Commissioner determines the Permittee is out of compliance with Minn. R. 7011.0150 or the fugitive emission control plan, then the Permittee may be required to amend the control plan and/or to install and operate particulate matter ambient monitors.</p>
43.0		CD	Minn. R. 7007.1150 - 7007.1500	<p>Application for Permit Amendment: If a permit amendment is needed, submit an application in accordance with the requirements of Minn. R. 7007.1150 through Minn. R. 7007.1500. Submittal dates vary, depending on the type of amendment needed.</p>
44.0		CD	Minn. R. 7007.1400, subp. 1(H)	<p>Extension Requests: The Permittee may apply for an Administrative Amendment to extend a deadline in a permit by no more than 120 days, provided the proposed deadline extension meets the requirements of Minn. R. 7007.1400, subp. 1(H). Performance testing deadlines from the General Provisions of 40 CFR pt. 60 and pt. 63 are examples of deadlines for which the MPCA does not have authority to grant extensions and therefore do not meet the requirements of Minn. R. 7007.1400, subp. 1(H).</p>
45.0		S/A	Minn. R. 7007.0800, subp. 6(C)	<p>Compliance Certification: due 31 days after end of each calendar year starting 02/27/1997 (for the previous calendar year). The Permittee shall submit this to the Commissioner on a form approved by the Commissioner. This report covers all deviations experienced during the calendar year.</p>
46.0		CD	Minn. R. 7019.3000 - 7019.3100	<p>Emission Inventory Report: due on or before April 1 of each calendar year following permit issuance, to be submitted on a form approved by the Commissioner.</p>
47.0		CD	Minn. R. 7002.0005 - 7002.0095	<p>Emission Fees: due 30 days after receipt of an MPCA bill.</p>



COMPLIANCE PLAN **CD-01**

Facility Name: Martin Marietta Materials - Saint Cloud Quarry

Permit Number: 14500029 - 003

Subject Item: GP 001 NSPS Equipment

Associated Items:

- EU 712 1/4" Chip Screens - Screen 2A (141124)
- EU 713 100 Ton Bin - Ballast Bin (20748) - Silo/Bin
- EU 714 Belt Feeder to Blend Bins (63640)
- EU 715 Belt Feeder to Blend Bins (63642)
- EU 716 Belt Feeder to Blend Bins (63643)
- EU 717 Bin - Recycle Bin w/Conveyor/04-105081 (02-105080)
- EU 718 Cone Crusher - Ballast Crusher (50698)
- EU 721 Cone Crusher - C-4 (50725)
- EU 723 Cone Crusher - C-5 Nordberg (50807)
- EU 724 Dewatering Screens - Derrick Dewatering (141118)
- EU 726 Wash Screens - Portable Wash Screen (14-100759)
- EU 727 Finishing Screens - Screen 3 (14-106339)
- EU 728 Finishing Screens - Screen 1B (141127)
- EU 729 Finishing Screens - Screen 1A (141661)
- EU 730 Fixed Conveyor - CB4F (44437)
- EU 731 Fixed Conveyor - BWC5 (44581)
- EU 732 Fixed Conveyor - BWC2 (44603)
- EU 733 Fixed Conveyor - BWC3 (44610)
- EU 734 Fixed Conveyor - BWC7 (44631)
- EU 735 Fixed Conveyor - BWC8 (44652)
- EU 736 Fixed Conveyor - BWC1 (44659)
- EU 737 Fixed Conveyor - BWC6 (44677)
- EU 738 Fixed Conveyor - BWC4 (44678)
- EU 739 Fixed Conveyor - CB5F (44820)
- EU 744 Fixed Conveyor - CB3A (44882)
- EU 745 Fixed Conveyor - CB3B (44883)
- EU 753 Fixed Conveyor - CB2D (44899)
- EU 756 Fixed Conveyor - CB5B (44906)
- EU 759 Fixed Conveyor - CB-2 (44909)
- EU 760 Fixed Conveyor - Conveyor w/Bin 02-105080 (04-105081)
- EU 761 Fixed Conveyor - Recycle (04-105082)
- EU 762 Fixed Conveyor - CB5 (04-105083)
- EU 763 Fixed Conveyor - BWC13 (04-105084)
- EU 764 Fixed Conveyor - PW50 (04-124189)
- EU 765 Gathering Belt - Blend Bins (35014) - Conveyor
- EU 767 Jump Conveyor - Conveyor (04-100761)
- EU 768 Jump Conveyor - Conveyor (04-110762)
- EU 769 Jump Conveyor - CB3C (04-110152)
- EU 770 Jump Conveyor - Conveyor (04-110158)
- EU 771 North Rescreener - Screens 5A (141119)
- EU 772 Sand Screw - McLanahan Screw (120357) - Material Handling Equipment
- EU 773 Sand Screw - Twin 44 McLanahan (12-100760) - Material Handling Equipment
- EU 774 Sand Wheel - Bucket Wheel (120360) - Material Handling Equipment



COMPLIANCE PLAN **CD-01**

Facility Name: Martin Marietta Materials - Saint Cloud Quarry

Permit Number: 14500029 - 003

Associated Items:

- EU 775 Scalping Screen - Screen 1 (141547)
- EU 776 South Rescreener - Screen 5B (141125)
- EU 777 Stacking Conveyor - CB3D (2056)
- EU 778 Stacking Conveyor - Cable Stacker (44653)
- EU 779 Stacking Conveyor - Conveyor (44658)
- EU 780 Stacking Conveyor - Conveyor (44822)
- EU 781 Stacking Conveyor - SC2 (44886)
- EU 782 Stacking Conveyor - SC9 (44887)
- EU 783 Stacking Conveyor - Conveyor (44889)
- EU 784 Stacking Conveyor - SC6 (44892)
- EU 785 Stacking Conveyor - SC10 (44893)
- EU 787 Stacking Conveyor - SC11 (44896)
- EU 788 Stacking Conveyor - SC12 (44903)
- EU 789 Stacking Conveyor - SC1 (44904)
- EU 790 Stacking Conveyor - SC7A (44911)
- EU 791 Stacking Conveyor - SC8 (44913)
- EU 792 Stacking Conveyor - TCI Stacker (04-100767)
- EU 793 Stacking Conveyor - SC2 (04-110156)
- EU 794 VSI Crusher - Barmac (05-107932)
- EU 795 Wash Screen - Ballast Screen (141122)
- EU 796 Wash Screen - Screen 2 (141546)
- EU 798 Jam Breaker - Material Handling Equipment
- EU 799 Gyratory Crusher
- EU 800 Concrete Surge Bin
- EU 801 Feeder
- EU 802 Conveyor 1
- EU 803 Belt Scale - Material Handling Equipment
- EU 804 Screen
- EU 805 Conveyor 2
- EU 806 Conveyor 3
- EU 807 Feeder 54 x 96 Pan
- EU 808 Feeder 54 x 96 Pan
- EU 809 Feeder 54 x 96 Pan
- EU 810 Concrete Surge Tunnel - Material Handling Equipment
- EU 811 Conveyor 4
- EU 812 Belt Scale - Material Handling Equipment
- EU 813 Magnet - Other Emission Unit
- EU 814 Metal Detector - Other Emission Unit
- EU 815 Metal Automated Removal System - Other Emission Unit
- EU 816 Screen
- EU 817 Conveyor 5
- EU 818 Conveyor 6
- EU 819 75 Ton Bin
- EU 820 75 Ton Bin



COMPLIANCE PLAN **CD-01**

Facility Name: Martin Marietta Materials - Saint Cloud Quarry

Permit Number: 14500029 - 003

Associated Items:

- EU 821 Feeder 36 x 120 Pan Retractable
- EU 822 Feeder 72 x 120 Pan Retractable
- EU 823 Super Heavy Duty Cone Crusher
- EU 824 Cone Crusher
- EU 825 Conveyor 7
- EU 826 Conveyor 8
- EU 827 Radial Stacker 9 - Other Emission Unit
- EU 828 Conveyor 10
- EU 829 Screen
- EU 830 Conveyor 11
- EU 831 50 Ton Bin
- EU 832 Belt Feeder 1
- EU 833 Crusher
- EU 834 Conveyor 12
- EU 835 Belt Scale - Material Handling Equipment
- EU 836 Conveyor 13

	NC/ CA	Type	Citation	Requirement
1.0		CD	hdr	PART 60 NSPS SUBPART OOO REQUIREMENTS Standards of Performance for Nonmetallic Mineral Processing Plants
2.0		CD	hdr	APPLICABILITY
3.0		CD	40 CFR Section 60.670(a)(1); Minn. R. 7011.3350	The provisions of 40 CFR pt. 60, subp. OOO are applicable to the following affected facilities in a fixed nonmetallic mineral processing plants: each crusher, grinding mill, screening operation, bucket elevator, belt conveyor, bagging operation, storage bin, enclosed truck or railcar loading station.
4.0		CD	40 CFR Section 60.670(a)(2); Minn. R. 7011.3350	The provisions of 40 CFR pt. 60, subp. OOO do not apply to wet material processing operations (as defined in 40 CFR Section 60.671).
5.0		CD	40 CFR Section 60.670(d); Minn. R. 7011.3350	1) When an existing facility is replaced by a piece of equipment of equal or smaller size, as defined in 40 CFR Section 60.671, having the same function as the existing facility, and there is no increase in the amount of emissions, the new facility is exempt from the provisions of 40 CFR Sections 60.672, 60.674, and 60.675 except as provided for in 3) 2) If the Permittee complies with 1), the Permittee shall submit the information required in 40 CFR 60.676(a). 3) If the Permittee replaces all existing facilities in a production line with new facilities, the Permittee does not qualify for the exemption described in 1) and shall comply with the provisions of 40 CFR Sections 60.672, 60.674 and 60.675.
6.0		CD	40 CFR Section 60.670(e); Minn. R. 7011.3350	An affected facility under paragraph 40 CFR Section 60.670(a) that commences construction, modification, or reconstruction after August 31, 1983, is subject to the requirements of this 40 CFR pt. 60.
7.0		CD	hdr	EMISSION LIMITS AND OPERATIONAL REQUIREMENTS
8.0		CD	40 CFR Section 60.672(b); Minn. R. 7011.3350	Affected facilities must meet the fugitive emission limits and compliance requirements in 40 CFR pt. 60, subp. OOO, Table 3 within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup as required under 40 CFR Section 60.11. The requirements in 40 CFR pt. 60, subp. OOO, Table 3 apply for fugitive emissions from affected facilities without capture systems and for fugitive emissions escaping capture systems.
9.0		LIMIT	40 CFR pt. 60, subp. OOO, Table 3; Minn. R. 7011.3350	The Permittee shall meet the following fugitive emissions limit for crushers at which a capture system is not used; Opacity: less than or equal to 12 percent opacity



COMPLIANCE PLAN **CD-01**

Facility Name: Martin Marietta Materials - Saint Cloud Quarry

Permit Number: 14500029 - 003

10.0		LIMIT	40 CFR pt. 60, subp. OOO, Table 3; Minn. R. 7011.3350	The Permittee shall meet the following fugitive emissions limit for grinding mills, screening operations, bucket elevators, transfer points on belt conveyors, bagging operations, storage bins, enclosed truck or railcar loading stations or from any other affected facility (as defined in 40 CFR Sections 60.670 and 60.671); Opacity: less than or equal to 7 percent opacity
11.0		CD	40 CFR pt. 60, subp. OOO, Table 3; Minn. R. 7011.3350	The Permittee shall demonstrate compliance with the applicable opacity limits by conducting an initial performance test according to 40 CFR Section 60.11 and 40 CFR Section 60.675; and Periodic inspections of water sprays according to 40 CFR Sections 60.674(b) and 60.676(b).
12.0		CD	40 CFR Section 60.672(d); Minn. R. 7011.3350	Truck dumping of nonmetallic minerals into any screening operation, feed hopper, or crusher is exempt from the requirements of 40 CFR Section 60.672.
13.0		CD	hdr	MONITORING
14.0		CD	40 CFR Section 60.674(b); Minn. R. 7011.3350	The Permittee shall perform monthly periodic inspections to check that water is flowing to discharge spray nozzles in the wet suppression system. The Permittee shall initiate corrective action within 24 hours and complete corrective action as expediently as practical if the Permittee finds that water is not flowing properly during an inspection of the water spray nozzles. The Permittee shall record each inspection of the water spray nozzles, including the date of each inspection and any corrective actions taken, in the logbook required under 40 CFR Section 60.676(b).
15.0		CD	40 CFR Section 60.674(b)(1); Minn. R. 7011.3350	<p>If an affected facility relies on water carryover from upstream water sprays to control fugitive emissions, then that affected facility is exempt from the 5-year repeat testing requirement specified in 40 CFR pt. 60, subp. OOO, Table 3 provided that the affected facility meets the criteria below:</p> <p>(i) The Permittee of the affected facility conducts periodic inspections of the upstream water spray(s) that are responsible for controlling fugitive emissions from the affected facility. These inspections are conducted according to 40 CFR Section 60.674(b) and 40 CFR Section 60.676(b), and</p> <p>(ii) The Permittee of the affected facility designates which upstream water spray(s) will be periodically inspected at the time of the initial performance test required under 40 CFR Section 60.11 and 40 CFR Section 60.675.</p>
16.0		CD	40 CFR Section 60.674(b)(2); Minn. R. 7011.3350	If an affected facility that routinely uses wet suppression water sprays ceases operation of the water sprays or is using a control mechanism to reduce fugitive emissions other than water sprays during the monthly inspection (for example, water from recent rainfall), the logbook entry required under 40 CFR Section 60.676(b) must specify the control mechanism being used instead of the water sprays
17.0		CD	hdr	PERFORMANCE TESTING
18.0		S/A	40 CFR Section 60.672(b); 40 CFR Section 60.8(a); 40 CFR Section 60.11(e)(1); Minn. R. 7011.3350; Minn. R. 7017.2015	Initial Performance Test: due 60 days after achieving maximum capacity, but no later than 180 days after initial startup, according to 40 CFR Section 60.11 and 40 CFR Section 60.675 to measure opacity from EU 712.
19.0		S/A	40 CFR Section 60.672(b); 40 CFR Section 60.8(a); 40 CFR Section 60.11(e)(1); Minn. R. 7011.3350; Minn. R. 7017.2015	Initial Performance Test: due 60 days after achieving maximum capacity, but no later than 180 days after initial startup, according to 40 CFR Section 60.11 and 40 CFR Section 60.675 to measure opacity from EU 713.
20.0		S/A	40 CFR Section 60.672(b); 40 CFR Section 60.8(a); 40 CFR Section 60.11(e)(1); Minn. R. 7011.3350; Minn. R. 7017.2015	Initial Performance Test: due 60 days after achieving maximum capacity, but no later than 180 days after initial startup, according to 40 CFR Section 60.11 and 40 CFR Section 60.675 to measure opacity from EU 714.
21.0		S/A	40 CFR Section 60.672(b); 40 CFR Section 60.8(a); 40 CFR Section 60.11(e)(1); Minn. R. 7011.3350; Minn. R. 7017.2015	Initial Performance Test: due 60 days after achieving maximum capacity, but no later than 180 days after initial startup, according to 40 CFR Section 60.11 and 40 CFR Section 60.675 to measure opacity from EU 715.
22.0		S/A	40 CFR Section 60.672(b); 40 CFR Section 60.8(a); 40 CFR Section 60.11(e)(1); Minn. R. 7011.3350; Minn. R. 7017.2015	Initial Performance Test: due 60 days after achieving maximum capacity, but no later than 180 days after initial startup, according to 40 CFR Section 60.11 and 40 CFR Section 60.675 to measure opacity from EU 716.
23.0		S/A	40 CFR Section 60.672(b); 40 CFR Section 60.8(a); 40 CFR Section 60.11(e)(1); Minn. R. 7011.3350; Minn. R. 7017.2015	Initial Performance Test: due 60 days after achieving maximum capacity, but no later than 180 days after initial startup, according to 40 CFR Section 60.11 and 40 CFR Section 60.675 to measure opacity from EU 717.

COMPLIANCE PLAN CD-01

Facility Name: Martin Marietta Materials - Saint Cloud Quarry

Permit Number: 14500029 - 003

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COMPLIANCE PLAN CD-01

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COMPLIANCE PLAN CD-01

Facility Name: Martin Marietta Materials - Saint Cloud Quarry

Permit Number: 14500029 - 003

[illegible]



COMPLIANCE PLAN **CD-01**

Facility Name: Martin Marietta Materials - Saint Cloud Quarry

Permit Number: 14500029 - 003

120.0		CD	40 CFR Section 60.675(c)(1); Minn. R. 7011.3350	<p>The Permittee shall use Method 9 of 40 CFR pt. 60, Appendix A-4 and the procedures in 40 CFR 60.11 in determining compliance with 40 CFR Section 60.672(b), with the following additions:</p> <p>(i) The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet).</p> <p>(ii) The observer shall, when possible, select a position that minimizes interference from other fugitive emission sources (e.g., road dust). The required observer position relative to the sun (Method 9 of 40 CFR pt. 60, Appendix A-4, Section 2.1) must be followed.</p> <p>(iii) For affected facilities using wet dust suppression for particulate matter control, a visible mist is sometimes generated by the spray. The water mist must not be confused with particulate matter emissions and is not to be considered a visible emission. When a water mist of this nature is present, the observation of emissions is to be made at a point in the plume where the mist is no longer visible.</p>
121.0		CD	40 CFR Section 60.675(c)(3); Minn. R. 7011.3350	<p>When determining compliance with the fugitive emissions standard for any affected facility described under 40 CFR Section 60.672(b) the duration of the Method 9 (40 CFR pt. 60, Appendix A-4) observations must be 30 minutes (five 6-minute averages). Compliance with the applicable fugitive emission limits in 40 CFR pt. 60, subp. 000, Table 3 must be based on the average of the five 6-minute averages.</p>
122.0		CD	40 CFR Section 60.675(e)(2); Minn. R. 7011.3350	<p>The Permittee may use the following as alternatives to the reference methods and procedures specified in 40 CFR Section 60.675:</p> <p>A single visible emission observer may conduct visible emission observations for up to three fugitive, stack, or vent emission points within a 15-second interval if the following conditions are met:</p> <p>(i) No more than three emission points may be read concurrently.</p> <p>(ii) All three emission points must be within a 70 degree viewing sector or angle in front of the observer such that the proper sun position can be maintained for all three points.</p> <p>(iii) If an opacity reading for any one of the three emission points equals or exceeds the applicable standard, then the observer must stop taking readings for the other two points and continue reading just that single point.</p>
123.0		CD	40 CFR Section 60.675(g); Minn. R. 7011.3350	<p>For performance tests involving only Method 9 (40 CFR pt. 60, Appendix A-4) testing, the Permittee may reduce the 30-day advance notification of performance test in 40 CFR Sections 60.7(a)(6) and 60.8(d) to a 7-day advance notification.</p>
124.0		CD	40 CFR Section 60.675(i); Minn. R. 7011.3350	<p>If the initial performance test date for an affected facility falls during a seasonal shut down (as defined in 40 CFR Section 60.671) of the affected facility, then with approval from the permitting authority, the MPCA may postpone the initial performance test until no later than 60 calendar days after resuming operation of the affected facility.</p>
125.0		CD	hdr	REPORTING AND RECORDKEEPING



COMPLIANCE PLAN **CD-01**

Facility Name: Martin Marietta Materials - Saint Cloud Quarry

Permit Number: 14500029 - 003

126.0		CD	40 CFR Section 60.676(a); Minn. R. 7011.3350	<p>To comply with 40 CFR Section 60.670(d), the Permittee shall submit to the Administrator the following information about the existing facility being replaced and the replacement piece of equipment.</p> <p>(1) For a crusher, grinding mill, bucket elevator, bagging operation, or enclosed truck or railcar loading station:</p> <p>(i) The rated capacity in megagrams or tons per hour of the existing facility being replaced and</p> <p>(ii) The rated capacity in tons per hour of the replacement equipment.</p> <p>(2) For a screening operation:</p> <p>(i) The total surface area of the top screen of the existing screening operation being replaced and</p> <p>(ii) The total surface area of the top screen of the replacement screening operation.</p> <p>(3) For a conveyor belt:</p> <p>(i) The width of the existing belt being replaced and</p> <p>(ii) The width of the replacement conveyor belt.</p> <p>(continued below)</p>
127.0		CD	40 CFR Section 60.676(a); Minn. R. 7011.3350	<p>(continued from above)</p> <p>(4) For a storage bin:</p> <p>(i) The rated capacity in megagrams or tons of the existing storage bin being replaced and</p> <p>(ii) The rated capacity in megagrams or tons of replacement storage bins.</p>
128.0		CD	40 CFR Section 60.676(b)(1); Minn. R. 7011.3350	<p>For affected facilities (as defined in 40 CFR Sections 60.670 and 60.671) for which construction, modification, or reconstruction commenced on or after April 22, 2008, the Permittee shall record each periodic inspection required under 40 CFR Section 60.674(b) or (c), including dates and any corrective actions taken, in a logbook (in written or electronic format). The Permittee shall keep the logbook onsite and make hard or electronic copies (whichever is requested) of the logbook available to the Administrator upon request.</p>
129.0		CD	40 CFR Section 60.676(f); Minn. R. 7011.3350	<p>The Permittee shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards set forth in 40 CFR Section 60.672, including reports of opacity observations made using Method 9 (40 CFR pt. 60, Appendix A-4) to demonstrate compliance with 40 CFR Section 60.672(b), (e) and (f).</p>
130.0		CD	40 CFR Section 60.676(g); Minn. R. 7011.3350	<p>For any wet material processing operation that processes saturated and subsequently processes unsaturated materials, the Permittee shall submit a report of this change within 30 days following such change. At the time of such change, this screening operation, bucket elevator, or belt conveyor becomes subject to the applicable opacity limit in 40 CFR Section 60.672(b) and the emission test requirements of 40 CFR Section 60.11.</p>
131.0		CD	40 CFR Section 60.676(h); Minn. R. 7011.3350	<p>The subpart A requirement under 40 CFR Section 60.7(a)(1) for notification of the date construction or reconstruction commenced is waived for affected facilities under 40 CFR pt. 60, subp. OOO.</p>
132.0		CD	40 CFR Section 60.676(i); Minn. R. 7011.3350	<p>A notification of the actual date of initial startup of each affected facility shall be submitted to the Administrator.</p> <p>(1) For a combination of affected facilities in a production line that begin actual initial startup on the same day, a single notification of startup may be submitted by the Permittee to the Administrator. The notification shall be postmarked within 15 days after such date and shall include a description of each affected facility, equipment manufacturer, and serial number of the equipment, if available.</p>



COMPLIANCE PLAN **CD-01**

Facility Name: Martin Marietta Materials - Saint Cloud Quarry

Permit Number: 14500029 - 003

133.0		CD	40 CFR Section 60.676(k); Minn. R. 7011.3350	Notifications and reports required under 40 CFR pt. 60, subp. 000 and under 40 CFR pt. 60, subp. A to demonstrate compliance with 40 CFR pt. 60, subp. 000 need only to be sent to the EPA Region.
134.0		CD	hdr	PART 60 NSPS SUBPART A REQUIREMENTS Standards of Performance for New Stationary Sources
135.0		S/A	40 CFR Section 60.7(a)(3); Minn. R. 7019.0100, subp. 1	Notification of the Actual Date of Initial Startup: due 15 days after Initial Startup
136.0		CD	40 CFR Section 60.7(a)(6); Minn. R. 7019.0100, subp. 1	A notification of the anticipated date for conducting the opacity observations required by 40 CFR Section 60.11(e)(1). The notification shall also include, if appropriate, a request for the Administrator to provide a visible emissions reader during a performance test. The notification shall be postmarked not less than 30 days prior to such date.
137.0		CD	40 CFR Section 60.7(b), Minn. R. 7019.0100, subp. 1	The Permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility.
138.0		CD	40 CFR Section 60.7(f); Minn. R. 7019.0100, subp. 1	The Permittee shall maintain a file of all measurements, including performance testing measurements and all other information required by 40 CFR pt. 60 recorded in a permanent form suitable for inspection. The file shall be retained for at least two years following the date of such measurements, maintenance, reports, and records.
139.0		CD	40 CFR Section 60.8(d); Minn. R. 7017.2015	The Permittee shall provide the Administrator at least 30 days prior notice of any performance test, except as specified under other subparts, to afford the Administrator the opportunity to have an observer present. If after 30 days notice for an initially scheduled performance test, there is a delay (due to operational problems, etc.) in conducting the scheduled performance test, the owner or operator of an affected facility shall notify the Administrator (or delegated State or local agency) as soon as possible of any delay in the original test date, either by providing at least 7 days prior notice of the rescheduled date of the performance test, or by arranging a rescheduled date with the Administrator (or delegated State or local agency) by mutual agreement.
140.0		CD	40 CFR Section 60.11(b); Minn. R. 7017.2015	Compliance with opacity standards in 40 CFR pt. 60 shall be determined by conducting observations in accordance with Method 9 in appendix A of 40 CFR pt. 60, any alternative method that is approved by the Administrator, or as provided in 40 CFR Section 60.11(e)(5). For purposes of determining initial compliance, the minimum total time of observations shall be 3 hours (30 6-minute averages) for the performance test or other set of observations (meaning those fugitive-type emission sources subject only to an opacity standard).
141.0		CD	40 CFR Section 60.11(c); Minn. R. 7017.2015	The opacity standards set forth in 40 CFR pt. 60 shall apply at all times except during periods of startup, shutdown, malfunction, and as otherwise provided in the applicable standard.
142.0		CD	40 CFR Section 60.11(d); Minn. R. 7017.2015	At all times, including periods of startup, shutdown, and malfunction, the Permittee shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.
143.0		CD	40 CFR Section 60.11(e)(2); Minn. R. 7017.2015	Except as provided in 40 CFR Section 60.11(e)(3), the Permittee of an affected facility to which an opacity standard in 40 CFR pt. 60 applies shall conduct opacity observations in accordance with 40 CFR Section 60.11(b), shall record the opacity of emissions, and shall report to the Administrator the opacity results.
144.0		CD	40 CFR Section 60.11(e)(3); Minn. R. 7017.2015	The Permittee may request the Administrator to determine and to record the opacity of emissions from the affected facility during the initial performance test and at such times as may be required. The Permittee shall report the opacity results. Any request to the Administrator to determine and to record the opacity of emissions from an affected facility shall be included in the notification required in 40 CFR Section 60.7(a)(6). If, for some reason, the Administrator cannot determine and record the opacity of emissions from the affected facility during the performance test, then the provisions of 40 CFR Section(e)(1) shall apply.



COMPLIANCE PLAN **CD-01**

Facility Name: Martin Marietta Materials - Saint Cloud Quarry

Permit Number: 14500029 - 003

145.0		CD	40 CFR Section 60.12; Minn. R. 7011.0050	The Permittee shall not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere.
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COMPLIANCE PLAN **CD-01**

Facility Name: Martin Marietta Materials - Saint Cloud Quarry

Permit Number: 14500029 - 003

Subject Item: GP 002 Fugitive Sources (non-process equipment)

Associated Items: FS 901 Fugitive Transfer Point (primary & secondary plants) - Material Handling/Transfer/Storage

FS 902 Storage Piles

FS 903 Unpaved Roads

	NC/ CA	Type	Citation	Requirement
1.0		CD	hdr	OPERATIONAL REQUIREMENTS
2.0		CD	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; To avoid classification as a major source under 40 CFR Section 70.2 and Minn. R. 7007.0200; Minn. R. 7011.0080	Visible Emissions: The Permittee shall check fugitive emissions for any visible emissions once each day of operation during daylight hours.
3.0		CD	Title I Condition: To avoid classification as a major source and modification under 40 CFR Section 52.21 and Minn. R. 7007.3000; To avoid classification as a major source under 40 CFR Section 70.2 and Minn. R. 7007.0200; Minn. R. 7011.0080	Recordkeeping of Visible Emissions: The Permittee shall record the time and date of each visible emission inspection, and whether or not any visible emissions were observed.
4.0		CD	Title I Condition: to avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; To avoid major source classification under 40 CFR Section 70.2 and Minn. R. 7007.0200; Minn. R. 7011.0150	<p>The Permittee shall comply with the requirements of Minn. R. 7011.0150. This means that all reasonable measures shall be taken to prevent avoidable amounts of particulate matter from becoming airborne. In a practical manner this refers to preventing avoidable visible dust emissions beyond the lot line surrounding the stationary source. Control of non-process dust emissions can be achieved through such measures as applying water or commercially available dust suppressants to stock piles, unpaved roads, and handling areas.</p> <p>Anytime fugitive emissions are observed, the Permittee shall immediately eliminate the observed fugitive emissions by applying water or dust suppressant to the source.</p>
5.0		CD	Title I Condition: to avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; To avoid major source classification under 40 CFR Section 70.2 and Minn. R. 7007.0200; Minn. R. 7011.0150	<p>The following dust suppression requirements apply:</p> <ol style="list-style-type: none"> 1. If using a commercially available dust suppressant, it shall be applied in accordance with the manufacturer's guidelines, and a copy of these manufacturer's guidelines must be kept by the Permittee. 2. Install a rain gauge at the site and record the precipitation during the previous 24 hours for each day of operation at the site. 3. Conduct and record basic weather observations according to the Weather Summary Criteria in Appendix I that best characterizes weather for each operating day. 4. Unpaved haul roads to Rainbow Pit and North Pit shall be posted with 20 mph speed limit signs. All other unpaved site roads shall be posted with 10 mph speed limit signs. 5. Water or dust suppressant application equipment shall always be available at the site or on call for use at the site within a given operating day.
6.0		CD	Title I Condition: to avoid classification as a major source under 40 CFR Section 52.21 and Minn. R. 7007.3000; To avoid major source classification under 40 CFR Section 70.2 and Minn. R. 7007.0200; Minn. R. 7011.0150	<p>Daily Recordkeeping: The Permittee shall keep records of the following;</p> <ol style="list-style-type: none"> 1. The date and time of dust suppressant action and initials of person making the record. 2. The amount of water or dust suppressant applied and the method of application. If water was not applied do to a rainfall event, the Permittee shall record this along with the source of measurement (i.e. on-site rain gauge). 3. The location (e.g., on a site sketch) of water or dust suppressant application.



COMPLIANCE PLAN **CD-01**

Facility Name: Martin Marietta Materials - Saint Cloud Quarry

Permit Number: 14500029 - 003

Subject Item: GP 003 Process Units

Associated Items:

- EU 712 1/4" Chip Screens - Screen 2A (141124)
- EU 713 100 Ton Bin - Ballast Bin (20748) - Silo/Bin
- EU 714 Belt Feeder to Blend Bins (63640)
- EU 715 Belt Feeder to Blend Bins (63642)
- EU 716 Belt Feeder to Blend Bins (63643)
- EU 717 Bin - Recycle Bin w/Conveyor/04-105081 (02-105080)
- EU 718 Cone Crusher - Ballast Crusher (50698)
- EU 719 Cone Crusher - C-1 Symons (50722)
- EU 720 Cone Crusher - C-2 Symons (50724)
- EU 721 Cone Crusher - C-4 (50725)
- EU 722 Cone Crusher - C-3 Symons (50726)
- EU 723 Cone Crusher - C-5 Nordberg (50807)
- EU 724 Dewatering Screens - Derrick Dewatering (141118)
- EU 726 Wash Screens - Portable Wash Screen (14-100759)
- EU 727 Finishing Screens - Screen 3 (14-106339)
- EU 728 Finishing Screens - Screen 1B (141127)
- EU 729 Finishing Screens - Screen 1A (141661)
- EU 730 Fixed Conveyor - CB4F (44437)
- EU 731 Fixed Conveyor - BWC5 (44581)
- EU 732 Fixed Conveyor - BWC2 (44603)
- EU 733 Fixed Conveyor - BWC3 (44610)
- EU 734 Fixed Conveyor - BWC7 (44631)
- EU 735 Fixed Conveyor - BWC8 (44652)
- EU 736 Fixed Conveyor - BWC1 (44659)
- EU 737 Fixed Conveyor - BWC6 (44677)
- EU 738 Fixed Conveyor - BWC4 (44678)
- EU 739 Fixed Conveyor - CB5F (44820)
- EU 740 Fixed Conveyor - CB5A (44877)
- EU 741 Fixed Conveyor - CB5C (44878)
- EU 742 Fixed Conveyor - CB-2B (44879)
- EU 743 Fixed Conveyor - CB-1A (44880)
- EU 744 Fixed Conveyor - CB3A (44882)
- EU 745 Fixed Conveyor - CB3B (44883)
- EU 746 Fixed Conveyor - CB4B (44884)
- EU 747 Fixed Conveyor - CB5E (44885)
- EU 748 Fixed Conveyor - BWC15 (44888)
- EU 749 Fixed Conveyor - CB4C (44890)
- EU 750 Fixed Conveyor - CB4 (44891)
- EU 751 Fixed Conveyor - CB-3 (44894)
- EU 752 Fixed Conveyor - CB5D (44898)
- EU 753 Fixed Conveyor - CB2D (44899)
- EU 754 Fixed Conveyor - CB-2A (44900)
- EU 755 Fixed Conveyor - CB4A (44901)



COMPLIANCE PLAN **CD-01**

Facility Name: Martin Marietta Materials - Saint Cloud Quarry

Permit Number: 14500029 - 003

Associated Items:

- EU 756 Fixed Conveyor - CB5B (44906)
- EU 757 Fixed Conveyor - CB-1B (44907)
- EU 758 Fixed Conveyor - CB-2C (44908)
- EU 759 Fixed Conveyor - CB-2 (44909)
- EU 760 Fixed Conveyor - Conveyor w/Bin 02-105080 (04-105081)
- EU 761 Fixed Conveyor - Recycle (04-105082)
- EU 762 Fixed Conveyor - CB5 (04-105083)
- EU 763 Fixed Conveyor - BWC13 (04-105084)
- EU 764 Fixed Conveyor - PW50 (04-124189)
- EU 765 Gathering Belt - Blend Bins (35014) - Conveyor
- EU 766 Gyratory Crusher - Primary Crusher (50727)
- EU 767 Jump Conveyor - Conveyor (04-100761)
- EU 768 Jump Conveyor - Conveyor (04-110762)
- EU 769 Jump Conveyor - CB3C (04-110152)
- EU 770 Jump Conveyor - Conveyor (04-110158)
- EU 771 North Rescreener - Screens 5A (141119)
- EU 772 Sand Screw - McLanahan Screw (120357) - Material Handling Equipment
- EU 773 Sand Screw - Twin 44 McLanahan (12-100760) - Material Handling Equipment
- EU 774 Sand Wheel - Bucket Wheel (120360) - Material Handling Equipment
- EU 775 Scalping Screen - Screen 1 (141547)
- EU 776 South Rescreener - Screen 5B (141125)
- EU 777 Stacking Conveyor - CB3D (2056)
- EU 778 Stacking Conveyor - Cable Stacker (44653)
- EU 779 Stacking Conveyor - Conveyor (44658)
- EU 780 Stacking Conveyor - Conveyor (44822)
- EU 781 Stacking Conveyor - SC2 (44886)
- EU 782 Stacking Conveyor - SC9 (44887)
- EU 783 Stacking Conveyor - Conveyor (44889)
- EU 784 Stacking Conveyor - SC6 (44892)
- EU 785 Stacking Conveyor - SC10 (44893)
- EU 786 Stacking Conveyor - Stacker 3 (44895)
- EU 787 Stacking Conveyor - SC11 (44896)
- EU 788 Stacking Conveyor - SC12 (44903)
- EU 789 Stacking Conveyor - SC1 (44904)
- EU 790 Stacking Conveyor - SC7A (44911)
- EU 791 Stacking Conveyor - SC8 (44913)
- EU 792 Stacking Conveyor - TCI Stacker (04-100767)
- EU 793 Stacking Conveyor - SC2 (04-110156)
- EU 794 VSI Crusher - Barmac (05-107932)
- EU 795 Wash Screen - Ballast Screen (141122)
- EU 796 Wash Screen - Screen 2 (141546)
- EU 798 Jam Breaker - Material Handling Equipment
- EU 799 Gyratory Crusher
- EU 800 Concrete Surge Bin



COMPLIANCE PLAN **CD-01**

Facility Name: Martin Marietta Materials - Saint Cloud Quarry

Permit Number: 14500029 - 003

Associated Items:

- EU 801 Feeder
- EU 802 Conveyor 1
- EU 803 Belt Scale - Material Handling Equipment
- EU 804 Screen
- EU 805 Conveyor 2
- EU 806 Conveyor 3
- EU 807 Feeder 54 x 96 Pan
- EU 808 Feeder 54 x 96 Pan
- EU 809 Feeder 54 x 96 Pan
- EU 810 Concrete Surge Tunnel - Material Handling Equipment
- EU 811 Conveyor 4
- EU 812 Belt Scale - Material Handling Equipment
- EU 813 Magnet - Other Emission Unit
- EU 814 Metal Detector - Other Emission Unit
- EU 815 Metal Automated Removal System - Other Emission Unit
- EU 816 Screen
- EU 817 Conveyor 5
- EU 818 Conveyor 6
- EU 819 75 Ton Bin
- EU 820 75 Ton Bin
- EU 821 Feeder 36 x 120 Pan Retractable
- EU 822 Feeder 72 x 120 Pan Retractable
- EU 823 Super Heavy Duty Cone Crusher
- EU 824 Cone Crusher
- EU 825 Conveyor 7
- EU 826 Conveyor 8
- EU 827 Radial Stacker 9 - Other Emission Unit
- EU 828 Conveyor 10
- EU 829 Screen
- EU 830 Conveyor 11
- EU 831 50 Ton Bin
- EU 832 Belt Feeder 1
- EU 833 Crusher
- EU 834 Conveyor 12
- EU 835 Belt Scale - Material Handling Equipment
- EU 836 Conveyor 13

	NC/ CA	Type	Citation	Requirement
1.0		CD	hdr	LIMITS
2.0		LIMIT	Minn. R. 7011.0715, subp. 1(A)	Total Particulate Matter: less than or equal to 0.30 grains/dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735.
3.0		LIMIT	Minn. R. 7011.0715, subp. 1(B)	Opacity: less than or equal to 20 percent opacity



COMPLIANCE PLAN **CD-01**

Facility Name: Martin Marietta Materials - Saint Cloud Quarry

Permit Number: 14500029 - 003

Subject Item: EU 725 Feed Bin w/Conveyor - Old Feed Bin (61451)

Associated Items: CE 010 Other

	NC/ CA	Type	Citation	Requirement
1.0		CD	hdr	LIMITS
2.0		LIMIT	Minn. R. 7011.0710, subp. 1(A)	Total Particulate Matter: less than or equal to 0.30 grains/dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735.
3.0		LIMIT	Minn. R. 7011.0710, subp. 1(B)	Opacity: less than or equal to 20 percent opacity , except for one six-minute period per hour of not more than 60 percent opacity.



COMPLIANCE PLAN **CD-01**

Facility Name: Martin Marietta Materials - Saint Cloud Quarry

Permit Number: 14500029 - 003

Subject Item: EU 797 Generator (Rental) - Reciprocating IC Engine

Associated Items: SV 710 Diesel Generator (Rental)

	NC/ CA	Type	Citation	Requirement
1.0		CD	hdr	ENGINE REPLACEMENT REQUIREMENTS
2.0		CD	40 CFR Section 1068.30	EU 797 is an engine rented by the Permittee each calendar year. EU 797 is not a nonroad engine because the engine remains at a location for more than 12 consecutive months or a shorter period of time for an engine located at a seasonal source. A location is any single site at a building, structure, facility, or installation. Any engine that replaces an engine at a location and that is intended to perform the same or similar function as the engine replaced will be included in calculating the consecutive time period. EU 797 is an engine located at a seasonal source and remains at a seasonal source during the full annual operating period of the seasonal source.
3.0		CD	Minn. R. 7007.0800, subp. 2	An engine replacement for EU 797 is subject to the permit limits and all of the requirements of EU 797. A permit amendment will be needed if there is an hourly emissions increase, the replacement engine is subject to a new applicable requirement, or the replacement engine requires revisions to the limits or monitoring and recordkeeping in this permit.
4.0		S/A	Minn. R. 7007.0800, subp. 2	Notification of the Actual Date of Initial Startup: due 15 days after Initial Startup of any engine replacement. The Permittee shall provide the following emission unit information; manufacturer, model number, maximum design capacity (KW or HP), maximum fuel input, and engine model year.
5.0		CD	Minn. R. 7007.0800, subp. 5	Recordkeeping: The Permittee shall maintain records of the manufacturer specifications for any engine replacement under EU 797 and the date of each engine replacement.
6.0		CD	hdr	EMISSION LIMITS
7.0		LIMIT	Minn. R. 7011.2300, subp. 1	Opacity: less than or equal to 20 percent opacity once operating temperatures have been attained.
8.0		LIMIT	Minn. R. 7011.2300, subp. 2	Sulfur Dioxide: less than or equal to 0.50 lbs/million Btu heat input . The potential to emit from the unit is 0.29 lb/MMBtu due to equipment design and allowable fuels.
9.0		CD	hdr	OPERATING CONDITIONS
10.0		CD	Minn. R. 7005.0100, subp. 35a	Fuel type: Ultra low sulfur diesel fuel only. Diesel fuel shall meet the requirements of 40 CFR Section 80.510(c).
11.0		CD	hdr	RECORDKEEPING REQUIREMENTS
12.0		CD	Minn. R. 7007.0800, subp. 5	The Permittee shall keep records of fuel type and usage on a monthly basis.
13.0		CD	hdr	PART 63 NESHAP SUBPART ZZZZ REQUIREMENTS National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines
14.0		CD	40 CFR Section 63.6590(a)(iii); Minn. R. 7011.8150	40 CFR pt. 63, subp. ZZZZ applies to each affected source. EU 797 is a new stationary RICE located at an area source that commenced construction on or after June 12, 2006 and is an affected source at the facility.
15.0		CD	40 CFR Section 63.6590(c)(1); Minn. R. 7011.8150	EU 797 meets the criteria in 40 CFR Section 63.6590(c)(1) and shall meet the requirements of 40 CFR pt. 63, subp. ZZZZ by meeting the requirements of 40 CFR pt. 60, subp. IIII, for compression ignition engines. No further requirements apply for EU 797 under 40 CFR pt. 63, subp. ZZZZ.
16.0		CD	hdr	PART 60 NSPS SUBPART IIII REQUIREMENTS Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
17.0		CD	40 CFR Section 60.4204(b); 40 CFR Section 60.4201; Minn. R. 7011.2305; 40 CFR Section 63.6590(c)(1); Minn. R. 7011.8150	EU 797 shall be a 2007 model year and later non-emergency stationary CI ICE with a displacement of less than 30 liters per cylinder. The Permittee shall comply with the emission standards for new CI engines in 40 CFR Section 60.4201 for their 2007 model year and later stationary CI ICE.



COMPLIANCE PLAN **CD-01**

Facility Name: Martin Marietta Materials - Saint Cloud Quarry

Permit Number: 14500029 - 003

18.0		CD	40 CFR Section 60.4207(b); Minn. R. 7011.2305; 40 CFR Section 63.6590(c)(1); Minn. R. 7011.8150	Beginning October 1, 2010, owners and operators of stationary CI ICE subject to this subpart with a displacement of less than 30 liters per cylinder that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel.
19.0		CD	40 CFR Section 60.4208; Minn. R. 7011.2305; 40 CFR Section 63.6590(c)(1); Minn. R. 7011.8150	<p>(a) After December 31, 2008, the Permittee may not install stationary CI ICE (excluding fire pump engines) that do not meet the applicable requirements for 2007 model year engines.</p> <p>(b) After December 31, 2009, the Permittee may not install stationary CI ICE with a maximum engine power of less than 19 KW (25 HP) (excluding fire pump engines) that do not meet the applicable requirements for 2008 model year engines.</p> <p>(c) After December 31, 2014, the Permittee may not install non-emergency stationary CI ICE with a maximum engine power of greater than or equal to 19 KW (25 HP) and less than 56 KW (75 HP) that do not meet the applicable requirements for 2013 model year non-emergency engines.</p> <p>(continued below)</p>
20.0		CD	40 CFR Section 60.4208; Minn. R. 7011.2305; 40 CFR Section 63.6590(c)(1); Minn. R. 7011.8150	<p>(continued from above)</p> <p>(d) After December 31, 2013, the Permittee may not install non-emergency stationary CI ICE with a maximum engine power of greater than or equal to 56 KW (75 HP) and less than 130 KW (175 HP) that do not meet the applicable requirements for 2012 model year non-emergency engines.</p> <p>(e) After December 31, 2012, the Permittee may not install non-emergency stationary CI ICE with a maximum engine power of greater than or equal to 130 KW (175 HP), including those above 560 KW (750 HP), that do not meet the applicable requirements for 2011 model year non-emergency engines.</p> <p>(f) After December 31, 2016, the Permittee may not install non-emergency stationary CI ICE with a maximum engine power of greater than or equal to 560 KW (750 HP) that do not meet the applicable requirements for 2015 model year non-emergency engines.</p> <p>(continued below)</p>
21.0		CD	40 CFR Section 60.4208; Minn. R. 7011.2305; 40 CFR Section 63.6590(c)(1); Minn. R. 7011.8150	<p>(continued from above)</p> <p>(g) After December 31, 2018, the Permittee may not install non-emergency stationary CI ICE with a maximum engine power greater than or equal to 600 KW (804 HP) and less than 2,000 KW (2,680 HP) and a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder that do not meet the applicable requirements for 2017 model year non-emergency engines.</p> <p>(h) In addition to the requirements specified in 40 CFR Sections 60.4201, 60.4202, 60.4204, and 60.4205, the Permittee is prohibited to import stationary CI ICE with a displacement of less than 30 liters per cylinder that do not meet the applicable requirements specified in 40 CFR Section 60.4208(a) through (g) after the dates specified in 40 CFR Section 60.4208(a) through (g)</p> <p>(i) 40 CFR Section 60.4208 requirements do not apply to stationary CI ICE that have been modified, reconstructed, and do not apply to engines that were removed from one existing location and r</p>
22.0		CD	40 CFR Section 60.4206; Minn. R. 7011.2305; 40 CFR Section 63.6590(c)(1); Minn. R. 7011.8150	The Permittee shall operate and maintain stationary CI ICE that achieve the emission standards as required in 40 CFR Section 60.4204 over the entire life of the engine.
23.0		CD	40 CFR Section 60.4211(a); Minn. R. 7011.2305; 40 CFR Section 63.6590(c)(1); Minn. R. 7011.8150	<p>The Permittee shall do all of the following;</p> <p>(1) Operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's emission-related written instructions;</p> <p>(2) Change only those emission-related settings that are permitted by the manufacturer; and</p> <p>(3) Meet the requirements of 40 CFR pt. 89, 94 and/or 1068, as they apply.</p>



COMPLIANCE PLAN **CD-01**

Facility Name: Martin Marietta Materials - Saint Cloud Quarry

Permit Number: 14500029 - 003

24.0		CD	40 CFR Section 60.4211(c); Minn. R. 7011.2305; 40 CFR Section 63.6590(c)(1); Minn. R. 7011.8150	The Permittee shall comply by purchasing an engine certified to the emission standards in 40 CFR Section 60.4204(b) for the same model year and maximum engine power. The engine shall be installed and configured according to the manufacturer's emission-related specifications.
25.0		CD	hdr	PART 60 NSPS SUBPART A REQUIREMENTS Standards of Performance for New Stationary Sources
26.0		CD	40 CFR Section 60.7(b)	The Permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility.
27.0		CD	40 CFR Section 60.7(f)	The Permittee shall maintain a file of all measurements, including performance testing measurements and all other information required by 40 CFR pt. 60 recorded in a permanent form suitable for inspection. The file shall be retained for at least two years following the date of such measurements, maintenance, reports, and records.
28.0		CD	40 CFR Section 60.11(d)	At all times, including periods of startup, shutdown, and malfunction, the Permittee shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.
29.0		CD	40 CFR Section 60.12	The Permittee shall not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere.

Attachment 3 – Points Calculator

Points Calculator

1) AQ Facility ID No.:	14500029
3) Small business? y/n?	Martin Marietta Materials - Saint Cloud Quarry
4) DQ Numbers (including all rolled) :	n
5) Date of each Application Received:	4739, 4715, 4663, 2742
6) Final Permit No.	4/2/14, 3/17/14, 1/31/14, 7/6/2001
7) Permit Staff	14500029-003
8) "Work completed" in which .xls file (i.e. unit 2b, unit 1a, biofuels)?	Andrea Walkush

Total Points	55
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<u>Application Type</u>	<u>DQ No.</u>	<u>Qty.</u>	<u>Points</u>	<u>Total Points</u>	<u>Details</u>
Administrative Amendment	2742		1	0	No application points apply
Minor Amendment			4	0	
Applicability Request			10	0	
Moderate Amendment			15	0	
Major Amendment	4739, 4715, 4663	1	25	25	
Individual State Permit (not reissuance)			50	0	4715 & 4663 were incomplete
Individual Part 70 Permit (not reissuance)			75	0	

Additional Points

Modeling Review			15	0
BACT Review			15	0
LAER Review			15	0
CAIR/Part 75 CEM analysis			10	0
NSPS Review	4739	1	10	10
NESHAP Review	4739	1	10	10
Case-by-case MACT Review			20	0
Netting			10	0
Limits to remain below threshold	4739	1	10	10
Plantwide Applicability Limit (PAL)			20	0
AERA review			15	0
Variance request under 7000.7000			35	0
Confidentiality request under 7000.1300			2	0

EAW review

Part 4410.4300, subparts 18, item A; and 29			15	0
Part 4410.4300, subparts 8, items A & B; 10, items A to C; 16, items A & D; 17, items A to C & E to G; and 18, items B & C			35	0
Part 4410.4300, subparts 4; 5 items A & B; 13; 15; 16, items B & C; and 17 item D			70	0

Add'l Points	30
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NOTES: