AIR EMISSION PERMIT NO. 14500029-002
Major Amendment

IS ISSUED TO

Martin Marietta Materials, Inc.

Martin Marietta Aggregates – St. Cloud
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. 14500029-001 and authorizes the Permittee to operate 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; Limits to Avoid Part 70/Limits to Avoid New Source Review

Operating Permit Issue Date: February 27, 1997

Major Amendment Issue Date: April 19, 2012

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

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

for Paul Aasen
Commissioner
Minnesota Pollution Control Agency

Permit Applications Table

Permit Type	Application Date	Permit Action
Total Facility Operating Permit	06/15/1996	001
Major Amendment	09/19/2011	002

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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 mostly particulate matter (PM), PM_{10}, and $PM_{2.5}$. 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 DESCRIPTION:

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

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name. Martin Marietta Aggregates - St Cloud

Permit Number: 14500029 - 002

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 2000000 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 50000 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 shall be limited to a maximum of: 10 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
NONROAD ENGINE REQUIREMENTS	hdr
The Permittee shall keep the following records for each nonroad engine 1) Date that the nonroad engine is brought onsite 2) Date that the nonroad engine is taken offsite and/or moved to a different location. 3) Identification number. 4) Rated capacity of the nonroad engine. 5) The model year and date of manufacture (as defined by the applicable nonroad engine rule). 6) Which nonroad provision that the nonroad engine is certified under 7) Rental company information (if applicable). 8) Function of the nonroad engine (mechanical power, electric generator, air compressor, etc.). While on site, each engine shall be labeled with the identification number described in item 3 above	Minn R. 7007 0800, subp 4 and 5

Facility Name: Martin Marietta Aggregates - St Cloud

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A nonroad engine shall not remain in one 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 (or engines) 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. An engine located at a seasonal source is an engine that remains at a seasonal source during the full annual operating period of the seasonal source. A seasonal source is a stationary source that remains in a single location on a permanent basis (i e , at least two years) and that operates at that single location approximately three months (or more) each year. See 40 CFR Section 1068.31 for provisions that apply if the engine is removed from the location	40 CFR Section 1068 30, "Nonroad engines", (2)(iii)
For a nonroad engine that is excluded from any requirements of 40 CFR Part 1068 because it is a stationary engine, the Permittee may not move it or install it in any mobile equipment, except as allowed by the provisions of 40 CFR Part 1068 The Permittee may not circumvent or attempt to circumvent the residence-time requirements of paragraph (2)(iii) of the nonroad engine definition in 40 CFR Section 1068 30	40 CFR Section 1068.101(b)(3)
SOURCE-SPECIFIC REQUIREMENTS	hdr
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
Operation and Maintenance Plan· Retain at the stationary source an operation and maintenance plan for all air pollution control equipment·	Minn R 7007 0800, subp 14 and Minn R 7007 0800, subp 16(J)
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 federally enforceable.	Minn. R. 7030.0010 - 7030.0080
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
The Permittee shall comply with the General Conditions listed in Minn. R. 7007 0800, subp 16	Minn. R 7007.0800, subp. 16
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
Inspections: Upon presentation of credentials and other documents as may be required by law, allow the Agency, or its representative, to enter the Permittee's premises, to have access to and copy any records required by this permit, to inspect at reasonable times (which include any time the source is operating) any facilities, equipment, practices or operations, and to sample or monitor any substances or parameters at any location	Minn. R. 7007 0800, subp. 9(A)
MONITORING	hdr
Feed Material Moisture Content Monitoring (part 1). Demonstrate that all feed material moisture content is at least 1 5 percent by either method 1 or 2 below. 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 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.	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

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Feed Material Moisture Content Monitoring (part 2). 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 On each operating day, either: (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,	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
Feed Material Moisture Content Monitoring (part 3): (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 OR 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	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	hdr
Recordkeeping - Crushing. 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 Daily records must indicate the production date, production quantity (tons), and material processed or produced.	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 - Fines Crushing: 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. Daily records must indicate the production date, production quantity (tons), and material processed or produced	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.	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

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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 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. 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
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)
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.
Shutdowns Notify the Commissioner at least 24 hours in advance of shutdown of any process or control equipment if the shutdown would cause an increase in the emission of air contaminants At the time of notification, notify the Commissioner of the cause of the shutdown and the estimated duration Notify the Commissioner again when the shutdown is over.	Minn R 7019 1000, subp 1
Breakdowns Notify the Commissioner immediately of a breakdown of more than one hour duration of any process or control equipment if the breakdown causes an increase in the emission of air contaminants At the time of notification or as soon thereafter as possible, the permittee shall also notify the Commissioner of the cause of the breakdown and the estimated duration. Notify the Commissioner again when the breakdown is over.	Minn. R. 7019 1000, subp. 2
Oral Notification of Deviations Endangering Human Health or the Environment Within 24 hours of discovery, orally notify the Commissioner of any deviation from permit conditions which could endanger human health or the environment	Minn R 7007 0800, subp. 6(A)
Discovery of Deviations Endangering Human Health or the Environment Report (written): due two working days after discovery of deviation, submit a written description of any deviation endangering human health or the environment to the Commissioner. Include the following information in this written description cause of the deviation; exact dates of the period of the deviation; if the deviation has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the deviation.	Minn. R 7007 0800, subp 6(A)

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Martin Marietta Aggregates - St Cloud

Permit Number. 14500029 - 002

Application for Permit Amendment. If you need a permit amendment, submit 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 through Minn. R 7007 1500
Emission Inventory Report: due on or before April 1 of each calendar year following permit issuance Submit the report on a form approved by the Commissioner.	Minn R 7019.3000 through Minn R 7019 3010
Emission Fees· due 60 days after receipt of an MPCA bill	Minn R 7002 0005 through Minn R 7002 0095
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)	Minn. R. 7007.1400, subp. 1(H)

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name Martin Marietta Aggregates - St Cloud

Permit Number. 14500029 - 002

Subject Item: **GP 001 NSPS Equipment**

Associated Items: EU 001 NSPS Crushers

EU 002 Other NSPS equipment

What to do	Why to do it
Construction or Reconstruction: Notification of construction or reconstruction postmarked no later than 30 days after the start of construction (or reconstruction) as defined in 40 CFR Section 60.2, except for mass-produced (prefabricated) affected facilities.	40 CFR Section 60.7(a)(1); Minn. R. 7019.0100
Notification of the Actual Initial Startup Date· due (postmarked) within 15 days after Initial Startup	40 CFR Section 60 7(a)(3), Minn. R. 7019.0100
Initial Performance Testing: Shall be completed within 60 days of obtaining maximum capacity but no later than 180 days after initial startup date.	40 CFR Sections 60.8(a), 60.675, 60.676; Minn. R. 7017 2015, Minn R 7011 3350
Performance Test Notification· Performance test notification shall be postmarked at least 30 days prior to conducting a performance test	40 CFR Section 60 8(d); Minn R 7017 2015
Replacement Notification shall be postmarked within 60 days after making the replacement	40 CFR Sections 60 670(d) and 60 676, Minn R 7011.3350
Recordkeeping Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.	40 CFR Section 60 7(b), Minn R 7019 0100

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Martin Marietta Aggregates - St Cloud

Permit Number: 14500029 - 002

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

Associated Items: FS 901 Fugitive transfer points

FS 902 Piles

FS 903 Unpaved Roads

What to do	Why to do it
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	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 also apply: 1. Record the date and time of dust suppressant action and initials of person making the record 2 Record amount of water or dust suppressant applied. 3 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 4 Record the location (e g , on a site sketch) of water or dust suppressant application 5 Install a rain gauge at the site and record the precipitation during the previous 24 hours for each day of operation at the site (continued below)	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
6 Conduct and record basic weather observations according to the Weather Summary Criteria in Appendix A that best characterizes weather for each operating day. 7 Unpaved site roads shall be posted with 10 mph speed limit signs 8 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

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name. Martin Marietta Aggregates - St Cloud

Permit Number. 14500029 - 002

Subject Item: **EU 001 NSPS Crushers**

Associated Items: GP 001 NSPS Equipment

GP 003 Process Units

What to do	Why to do it
Opacity less than 15 percent opacity	40 CFR Section 60 672(c), Minn R. 7011.3350

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Martin Marietta Aggregates - St Cloud

Permit Number 14500029 - 002

Subject Item: **EU 002 Other NSPS equipment**

Associated Items: GP 001 NSPS Equipment

GP 003 Process Units

What to do	Why to do it
Opacity: less than 10 percent opacity	40 CFR Section 60 672(b); Minn. R. 7011 3350

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Martin Marietta Aggregates - St Cloud

Permit Number: 14500029 - 002

Subject Item: **EU 003 Equipment not subject to NSPS and put into operation before 7/9/69**

Associated Items: GP 003 Process Units

What to do	Why to do it
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

Facility Name: Martin Marietta Aggregates - St Cloud

Permit Number 14500029 - 002

Subject Item: **EU 004 Equipment not subject to NSPS and put into operation on or after 7/9/69**

Associated Items: GP 003 Process Units

What to do	Why to do it
Opacity: less than or equal to 20 percent opacity	Minn. R. 7011 0715, subp. 1(B)

TABLE B: SUBMITTALS

Facility Name: Martin Marietta Aggregates - St Cloud

Permit Number 14500029 - 002

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 any application for a permit or permit amendment to:

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

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

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

Mr. George Czerniak
Air and Radiation Branch
EPA Region V
77 West Jackson Boulevard
Chicago, Illinois 60604

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

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.

TABLE B: RECURRENT SUBMITTALS

Facility Name Martin Marietta Aggregates - St Cloud

Permit Number: 14500029 - 002

What to send	When to send	Portion of Facility Affected
Semiannual Deviations Report	due 30 days after end of each calendar half-year starting 02/27/1997 The first report covers January 1 - June 30. The second report covers July 1 - December 31	Total Facility
Compliance Certification	due 30 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

APPENDICES

Facility Name: **Martin Marietta Aggregates - St Cloud**
Permit Number: **14500029-002**

Appendix A. 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.

Minnesota Pollution Control Agency
520 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).

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:

Name (print): _____

Title: _____

Signature: _____

Phone: _____ Fax: _____ Date _____

Operator (if different)

Name (print): _____

Title: _____

Signature _____

Phone: _____ Fax. _____ Date: _____

Appendix B. Form NM-EQ (modified)

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 C. Insignificant Activities Required to be Listed

Minn. R. 7007.1300	Insignificant Activity Description	Applicable Minn. Rule
subp. 3.J	Fugitive emissions from unpaved haul roads	Minn. R. 7011.0150

TECHNICAL SUPPORT DOCUMENT
For
AIR EMISSION PERMIT NO. 14500029-002

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)
Martin Marietta Materials, Inc. P.O. Box 550 Iowa Falls, IA 50126	Martin Marietta Aggregates - St Cloud 1450 Division Street West Waite Park Stearns County
Contact: Beth Kephart, P.E. Phone: (515) 859-3355 x134 beth.kephart@martinmarietta.com	

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), PM_{10}, and $PM_{2.5}$. 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 is a major amendment to a non-expiring federally enforceable state operating permit. This amendment authorizes an increase in production from 1.8 million tons per year to 2.0 million tons per year. In addition, the amendment records the 2005 removal of the dryer and associated cyclone, and updates standard template language to current format.

1.4. Facility Emissions:

Table 2. Title I Emissions Increase 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	85.4	7.0	250	NO
PM_{10}	30.8	2.48	250	NO
$PM_{2.5}$	30.8	0.33	250	NO
NO_x	-	-	250	NO
SO_2	-	-	250	NO
CO	-	-	250	NO
Ozone (VOC)	-	-	250	NO
Lead	-	-	250	NO
CO_2e**	-	-	100,000	NO

*This data is the difference between the uncontrolled PTE at the proposed 2.0 million tpy production rate and the uncontrolled PTE at the currently permitted 1.8 million tpy production rate (not including fugitive emissions)
**Carbon dioxide equivalents as defined in Minn. R. 7007.0100

Table 3. Total Facility Potential to Emit Summary

	PM tpy	PM_{10} tpy	$PM_{2.5}$ tpy	SO_2 tpy	NO_x tpy	CO tpy	CO_2e Tpy	VOC tpy	Single HAP tpy	All HAPs tpy
Total Facility Limited Potential Emissions not including fugitive emissions	70.1	24.8	3.30							
Total Facility Limited Potential Emissions including fugitive emissions	206.3	73.7	9.3							
Total Facility Actual Emissions (includes fugitive emissions; 2009)	155.4	18.42	*				*		*	

* Not reported in MN emission inventory.

Table 4. Facility Classification

Classification	Major/Affected Source	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 facility is an existing non-major source under New Source Review regulations. This permit action does not change this status.

Part 70 Permit Program

The facility is an existing non- major source under the Part 70 permit program. This permit action does not change this status.

New Source Performance Standards (NSPS)

Portions of the facility are subject to 40 CFR pt. 60, subp. OOO.

National Emission Standards for Hazardous Air Pollutants (NESHAP)

The facility is an area source of HAP emissions and no area source NESHAPs apply to the facility.

Compliance Assurance Monitoring (CAM)

CAM does not apply to any emission unit at the facility because total facility emissions are less than the part 70 major source threshold.

Environmental Review & AERA

The proposed annual production increase does not trigger environmental review or an Air Emissions Risk Analysis (AERA).

Minnesota State Rules

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

- Minn. R. 7011.0710 Standards of Performance for Pre-1969 Industrial Process Equipment
- Minn. R. 7011.0715 Standards of Performance for Post-1969 Industrial Process Equipment

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

Subject Item*	Applicable Regulations	Comments:
Total Facility	Title I Condition: to avoid classification as major source under 40 CFR Section 52.21; To avoid major source classification under 40 CFR Section 70.2	2 million tons per year crushed stone limit (12-month rolling sum), 50,000 tons per year crushed fines limit (12-month rolling sum), and equipment limit of 10 crushers, 20 screens, and 100 transfer points

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

3. Technical Information

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. limited controlled potential emissions are shown in table 3 both with and without fugitive emissions. In addition, non-road engines are not part of the stationary source (see Clean Air Act Section 302 item (z)) and therefore the emissions from non-road engines are not considered in PSD and Title V permitting applicability, nor reported in the emissions inventory.

3.1 Emissions Changes and Potential to Emit Calculations

Refer to the attached emissions calculation spreadsheet. Note that fugitive emissions are not included for permitting applicability purposes. However, fugitive emissions are reported for emission inventory purposes and therefore emissions data with and without fugitive emissions are provided.

3.2 Periodic 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 periodic monitoring requirements for those emission units for which the monitoring required by the applicable requirement is nonexistent or inadequate.

Table 6. Periodic Monitoring

Subject Item*	Requirement (rule basis)	Additional Monitoring	Discussion
Total Facility	Production: ≤ 2 million tons per year, on a 12-month rolling basis (limit to avoid NSR and part 70)	Recordkeeping: daily records used to generate monthly and 12-month rolling sum crushing and fines crushing records	Records are required regarding the product crushed, and date and amount produced.
	Fines crushing: ≤ 50,000 tons per year, on a 12-month rolling sum basis (limit to avoid NSR and part 70)		
	Equipment Limit: ≤10 crushers, ≤20 screens, ≤100 transfer points (limit to avoid NSR and part 70)	Instantaneous limit	Records are required for quantity of each type of equipment at the site at any given time. Permit also indicates that all equipment operating at the facility regardless if it is owned/operated by the Permittee, is subject to these limits.
	Feed material moisture content ≥1.5 % (limit to avoid NSR and part 70)	Weekly testing when operating and daily testing if moisture content is <1.5%	Moisture content testing provides adequate data to verify proper dust (PM, PM_{10}, $PM_{2.5}$) control is achieved.

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

3.3 Insignificant Activities

The Martin Marietta – St. Cloud facility has unpaved haul roads which are classified as insignificant activities under the MPCA air permit rule. The permit is required to include periodic monitoring for all emissions units, including insignificant activities, according to EPA guidance. The insignificant activities at this Facility are only subject to general applicable requirements. Using the criteria outlined earlier in this TSD, the following table documents the additional periodic monitoring for the current insignificant activities. See Attachment 1 to this TSD for PTE information for the insignificant activities.

Table 7. Insignificant Activities

Insignificant Activity	General Applicable Emission limit	Discussion
Fugitive Emissions from unpaved roads	Requirement to take reasonable measures to prevent PM from becoming airborne (Minn. R. 7011.0150)	The permit contains requirements for water or commercial dust suppression application to meet this standard.

3.5 Comments Received

Public Notice and EPA Review Period: February 10 – March 12, 2012

No comments were received.

4. Permit Fee Assessment

This is a major amendment application that is subject to a permit fee based on the 25 point application fee. The revised production limit to avoid 40 CFR part 70 also incurs an additional fee of 10 points as described in the fee calculation instruction guidance that says:

> *'Charge for changes to limits to avoid a program, except in cases where these are minor changes in monitoring or record keeping requirements (i.e., would not require a major amendment).'*

5. Conclusion

Based on the information provided by Martin Marietta Materials, Inc., the MPCA has reasonable assurance that the proposed operation of the emission facility, as described in the Air Emission Permit No. 14500029-002 and this TSD, will not cause or contribute to a violation of applicable federal regulations and Minnesota Rules.

Staff Members on Permit Team: Marshall Cole (permit writer/engineer)
Dave Crowell (enforcement)
Amrill Okonkwo (peer reviewer)

AQ File No. 2110A; DQ 3662

Attachments:
1. Emissions Calculation Spreadsheet
2. Facility Description and CD-01 Forms
3. Points Calculator Spreadsheet

Total Facility Limited Controlled PTE Including Fugitive Emissions (Table 3 Technical Support Document)

Emission Source	PM (tons/yr)	PM_{10} (tons/yr)	$PM_{2.5}$ (tons/yr)	SO_2 (tons/yr)	NO_X (tons/yr)	CO (tons/yr)	VOC (tons/yr)	GHG (tons/yr)	HAP (tons/yr)
Point Sources	70.1	24.8	3.3						
Fugitive Sources	136.2	48.8	6.0						
Total	206.3	73.7	9.3	0.0	0.0	0.0	0.0	0	0.00

EMISSIONS CALCULATIONS - POTENTIAL TO EMIT (Excluding Fines Crushing)

EQUIPMENT	NO OF UNITS	DESIGN CAPACITY (tons/hr)	PM EMIS FACTOR	PM_{10} EMIS FACTOR	$PM_{2.5}$ EMIS FACTOR *	Emission Factor UNITS	PM PTE (tons/yr)	PM PTE (lb/hr)	PM_{10} PTE (tons/yr)	PM_{10} PTE (lb/hr)	$PM_{2.5}$ PTE (tons/yr)	$PM_{2.5}$ PTE (lb/hr)
Crusher	10	1,250	0 0054	0 0024	0 0024	lb/ton	295 7	67 5	131 4	30 0	131 4	30.0
Screen	20	1,250	0 025	0 0087	0 0087	lb/ton	2737.5	625 0	952 7	217 5	952 7	217 5
**Transfer Pts	100	1,250	0 003	0 0011	0 0011	lb/ton	1642.5	375 0	602 3	137 5	602 3	137 5
						TOTAL	4675 7		1686 3		1686 3	

CHANGE IN LIMITED UNCONTROLLED PTE (Table 2 Technical Support Document)

EQUIPMENT	NO OF UNITS	Permitted production increase (tpy)	PM EMIS FACTOR	PM_{10} EMIS FACTOR	$PM_{2.5}$ EMIS FACTOR *	Emission Factor UNITS	PM PTE (tons/yr)		PM_{10} PTE (tons/yr)		$PM_{2.5}$ PTE (tons/yr)	
Crusher	10	200,000	0 0054	0 0024	0 0024	lb/ton	5 4		2 4		2 4	
Screen	20	200,000	0 025	0 0087	0 0087	lb/ton	50 0		17 4		17 4	
**Transfer Pts	100	200,000	0 003	0 0011	0 0011	lb/ton	30 0		11 0		11 0	
						TOTAL	85 4		30 8		30 8	

UNLIMITED CONTROLLED PTE

EQUIPMENT	NO OF UNITS	DESIGN CAPACITY (tons/hr)	PM EMIS FACTOR (controlled)	PM_{10} EMIS FACTOR (controlled)	$PM_{2.5}$ EMIS FACTOR (controlled)	Emission Factor UNITS	PM PTE (tons/yr)	PM PTE (lb/hr)	PM_{10} PTE (tons/yr)	PM_{10} PTE (lb/hr)	$PM_{2.5}$ PTE (tons/yr)	$PM_{2.5}$ 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		135 78		18 07	

EXISTING PERMITTED THROUGHPUT - LIMITED CONTROLLED PTE

EQUIPMENT	NO OF UNITS	CURRENT ANNUAL THROUGHPUT (tons/yr)	PM EMIS FACTOR (controlled)	PM_{10} EMIS FACTOR (controlled)	$PM_{2.5}$ EMIS FACTOR (controlled)	Emission Factor UNITS	PM PTE (tons/yr)	PM PTE (lb/hr)	PM_{10} PTE (tons/yr)	PM_{10} PTE (lb/hr)	$PM_{2.5}$ PTE (tons/yr)	$PM_{2.5}$ PTE (lb/hr)
Crusher	10	1,800,000	0 0012	0 00054	0 0001	lb/ton	10 80	15 00	4 86	6 75	0 90	1 25
Screen	20	1,800,000	0 0022	0 00074	0 00005	lb/ton	39 60	55 00	13 32	18 50	0 90	1 25
**Transfer Pts	100	1,800,000	0 00014	0 000046	0 000013	lb/ton	12 60	17 50	4 14	5 75	1 17	1 63
						TOTAL	63 00		22 32		2 97	

PROPOSED PERMITTED THROUGHPUT - CONTROLLED LIMITED PTE

EQUIPMENT	NO OF UNITS	PROPOSED ANNUAL THROUGHPUT (tons/yr)	PM EMIS FACTOR (controlled)	PM_{10} EMIS FACTOR (controlled)	$PM_{2.5}$ EMIS FACTOR (controlled)	Emission Factor UNITS	PM PTE (tons/yr)	PM PTE (lb/hr)	PM_{10} PTE (tons/yr)	PM_{10} PTE (lb/hr)	$PM_{2.5}$ PTE (tons/yr)	$PM_{2.5}$ PTE (lb/hr)
Crusher	10	2,000,000	0 0012	0 00054	0 0001	lb/ton	12 00	15 00	5 40	6 75	1 00	1 25
Screen	20	2,000,000	0 0022	0.00074	0 00005	lb/ton	44 00	55 00	14.80	18 50	1 00	1 25
**Transfer Pts	100	2,000,000	0 00014	0 000046	0 000013	lb/ton	14 00	17 50	4 60	5 75	1 30	1 63
						TOTAL	70 00		24 80		3 30	

PERMITTED VS PROPOSED — PTE AT STATIONARY SOURCES

EMISSIONS INCREASE					
[illegible]	PM	[illegible]	[illegible]	[illegible]	PM2.5 PTE
	(tons/yr)	[illegible]	[illegible]	[illegible]	(tons/yr)
Crusher	1 20	[illegible]	[illegible]	[illegible]	0 10
Screen	4 40	[illegible]	[illegible]	[illegible]	0 10
[illegible]	1 40	[illegible]	[illegible]	[illegible]	0 13
Total Increase	7 00				0 33

*PM10 emission factor used as an upper limit for PM2 5 emission factor

**All transfer point emissions data (point and loadout fugitive) are listed in the delta facility description under FS 901 'fugitive transfer points'

Emission factors from AP-42 ch 11 19 2 table 11 19 2-2

Fines Crushing

			PM		PM10		PM2 5			PM			PM10			PM2 5		
EQUIPMENT	No of UNITS	Design Capacity (ton/hr)	PM Emission Factor lb/ton *controlled*	PM Emission Factor lb/ton *uncontrolled*	PM10 emission factor lb/ton *controlled*	PM10 Emission Factor lb/ton *uncontrolled*	PM2 5 Emission Factor lb/ton *controlled*	PM2 5 Emission Factor lb/ton *uncontrolled* [1]	Production Limit (tpy)	Ltd & Controlled (tons/yr)	Unlimited & Uncontrolled (tons/yr)	(lb/hr)	Ltd & Controlled (tons/yr)	Unlimited & Uncontrolled (tons/yr)	(lb/hr)	Ltd & Controlled (tons/yr)	Unlimited & Uncontrolled (tons/yr)	(lb/hr)
Crusher	10	1250	0 003	0 039	0 0012	0 015	0 00007	0 015	50000	0 08	2135 3	37 5	0 03	821 3	15 00	0 002	821 3	0 88

Emission factors from AP-42 ch 11 19 2 table 11 19 2-2

[1]Used PM_{10} uncontrolled factor from AP-42 table 11 19 2-2 as upper limit $PM_{2.5}$

Martin Marietta Materials Inc St Cloud Quarry Waite Park, MN Permit No 14500029-002

FUGITIVE EMISSIONS CALCULATIONS

FUGITIVE EMISSIONS (1 8 mm ton/yr)

	SCC Code	NO OF UNITS	DESIGN CAPACITY (tph)	LIMITED THROUGHPUT (tpy)	THROUGHPUT UNITS	PM EMISSION FACTOR	PM10 EMISSION FACTOR	PM2 5 EMISSION FACTOR*	Factor UNITS	PM PTE (tons/yr)	PM PTE LTD (tons/yr) Ltd	PM PTE (lb/hr)	PM10 PTE (tons/yr)	PM10 PTE LTD (tons/yr) Ltd	PM10 PTE (lb/hr)	PM2 5 PTE (tons/yr)	PM2 5 PTE LTD (tons/yr) Ltd	PM2 5 PTE (lb/hr)
Fugitive Transfer Points - loading pts	30502006	NA	1250	1,800,000	tons/yr	0 00237	0 00112	0 00017	lb/ton	12 96	2 13	2 96	6 13	1 01	1 40	0 93	0 15	0 21
Storage Piles - load out	30502507	NA	1250	1,800,000	tons/yr	0 00237	0 00112	0 00017	lb/ton	12 96	2 13	2 96	6 13	1 01	1 40	0 93	0 15	0 21
Storage Piles - wind erosion	30502507	NA	NA	26	acres	2992	1496	229	lb/acre-yr	38 90	38 90	8 88	19 45	19 45	4 44	2 97	2 97	0 68
Unpaved Roads	NA	NA	NA	50,000	VMT/yr	See Sheet 'Unpaved Road Emission Factors			lb/VMT	77 15	77 15	17 61	22 61	22 61	5 16	2 26	2 26	0 52
									TOTAL		120 3			44.1			5 5	

FUGITIVE EMISSIONS (2 0 mm ton/yr, Table 3 Technical Support Document)

EQUIPMENT	SCC Code	NO OF UNITS	DESIGN CAPACITY (tph)	LIMITED THROUGHPUT (tpy)	THROUGHPUT UNITS	PM EMISSION FACTOR	PM10 EMISSION FACTOR	PM2 5 EMISSION FACTOR*	Factor UNITS	PM PTE (tons/yr)	PM PTE LTD (tons/yr) Ltd	PM PTE (lb/hr)	PM10 PTE (tons/yr)	PM10 PTE LTD (tons/yr) Ltd	PM10 PTE (lb/hr)	PM2 5 PTE (tons/yr)	PM2 5 PTE LTD (tons/yr) Ltd	PM2 5 PTE (lb/hr)
Fugitive Transfer Points - loading pts	30502006	NA	1250	2,000,000	tons/yr	0.00237	0 00112	0 00017	lb/ton	12 96	2.37	2 96	6 13	1 12	1 40	0 93	0 17	0 21
Storage Piles - load out	30502507	NA	1250	2,000,000	tons/yr	0 00237	0 00112	0 00017	lb/ton	12.96	2 37	2 96	6 13	1 12	1 40	0 93	0 17	0 21
Storage Piles - wind erosion	30502507	NA	NA	26	acres	2992	1496	229	lb/acre-yr	38 90	38 90	8 88	19 45	19 45	4 44	2 97	2 97	0 68
Unpaved Roads	NA	NA	NA	60,000	VMT/yr	See Sheet 'Unpaved Road Emission Factors'			lb/VMT	92 58	92 58	21 14	27 13	27 13	6 19	2 71	2 71	0 62
									TOTAL		136.2			48.8			6.0	

*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)

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 drops 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

V = maximum load out rate, (ton/hr) or (ton/yr)

u = mean wind speed, 5 mph

m = average moisture content, 2 % from AP-42, Table 13 2 4-1

k = particle size multiplier

From AP-42, page 13 2 4-4

k (PM) = 0 74

k (PM10) = 0 35

k (PM2 5) = 0 053

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

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

p = 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 ROAD EMISSION FACTORS

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

$E = k (s/12)^a (W/3)^b$ given in lb/VMT

The extrapolated emission factor accounting for natural mitigation is as follows.

$E (ext) = E * [(365-p)/365]$ given in lb/VMT

Where:
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 a (PM) = 0 7 b (PM) = b (PM10) = b (PM2.5) = 0 45
k (PM10) = 1.5 lb/VMT a (PM10) = 0.9
k (PM2.5) = 0 15 lb/VMT a (PM2 5) = 0 9

Activity	s	S	w	Empty Weight	Load Weight	W	PM Emission Factor	PM10 Emission Factor	PM2.5 Emission Factor	Roundtrip Miles/trip	# trips per year
Loader in Pit	10	2.5	4	62.5	16	70 5	12 47	3 68	0.37	0.019	164,500
Haul Truck Rainbow	10	8	6	60	77	98.5	14 50	4.28	0 43	1 515	12,720
Haul Truck Meridian	10	8	6	60	77	98.5	14 50	4 28	0.43	0 947	20,150
Loader to Stockpiles	8.3	5	4	46.6	10	51.6	9 51	2.71	0 27	0.265	10,800
Loader to Customer Trucks	8.3	2.5	4	46 6	10	51.6	9 51	2.71	0.27	0.019	135,600
Customer Truck Traffic	8 3	8	18	15	25	27 5	7 17	2.04	0 20	0.265	49,300
Loader into Trains	8 3	2.5	4	62 5	16	70 5	10 95	3.11	0 31	0.028	495

Unpaved Road PM Calculations

Activity	PM Emission Factor (lb/VMT)	Ltd Vehicle miles traveled (miles/yr)	PM Ltd Emission Rate (lb/yr)	PM Ltd Uncontrolled Emissions (tons/yr)	PM Pollution Control Efficiency	PM Ltd Controlled Emissions (tons/yr)
Loader in pit	12.47	3,126	38,987	19.493	75%	4.87
Haul Truck Rainbow	14.50	19,271	279,420	139.710	75%	34 93
Haul Truck Meridian	14.50	19,082	276,684	138 342	75%	34 59
Loader to Stockpiles	9.51	2,862	27,229	13 614	75%	3 40
Loader to Customer Trucks	9.51	2,576	24,512	12.256	75%	3 06
Customer Truck Traffic	7.17	13,065	93,640	46 820	75%	11 70
Loader into Trains	10.95	14	151 75	0.076	75%	0 0190
SUM				**370.31 TONS**		**92.58 TONS**

Unpaved Road PM10 Calculations

Activity	PM10 Emission Factor (lb/VMT)	Ltd Vehicle miles traveled (miles/yr)	PM10 Ltd Emission Rate (lb/yr)	PM10 Ltd Uncontrolled Emissions (tons/yr)	PM10 Pollution Control Efficiency	PM10 Ltd Controlled Emissions (tons/yr)
Loader in pit	3.68	3,126	11,507	5 754	75%	1 44
Haul Truck Rainbow	4 28	19,271	82,474	41.237	75%	10 31
Haul Truck Meridian	4 28	19,082	81,666	40.833	75%	10 21
Loader to Stockpiles	2.71	2,862	7,743	3.871	75%	0.97
Loader to Customer Trucks	2 71	2,576	6,970	3.485	75%	0.87
Customer Truck Traffic	2.04	13,065	26,628	13 314	75%	3 33
Loader into Trains	3.11	14	43.2	0 022	75%	0 0054
SUM				**108.52 TONS**		**27.13 TONS**

Unpaved Road PM2 5 Calculations

Activity	PM2.5 Emission Factor (lb/VMT)	Ltd Vehicle miles traveled (miles/yr)	PM2 5 Ltd Emission Rate (lb/yr)	PM2.5 Ltd Uncontrolled Emissions (tons/yr)	PM2.5 Pollution Control Efficiency	PM2.5 Ltd Controlled Emissions (tons/yr)
Loader in pit	0.37	3,126	1,151	0 575	75%	0.14
Haul Truck Rainbow	0 43	19,271	8,247	4.124	75%	1.03
Haul Truck Meridian	0.43	19,082	8,167	4.083	75%	1 02
Loader to Stockpiles	0.27	2,862	774	0 387	75%	0.10
Loader to Customer Trucks	0 27	2,576	697	0 349	75%	0 09
Customer Truck Traffic	0 20	13,065	2,663	1 331	75%	0 33
Loader into Trains	0.31	14	4.3	0 002	75%	0.0005
SUM				**10.85 TONS**		**2.71 TONS**

Detla Permit Database Emissions Data

	PM			PM10			PM2 5		
	controlled lb/hr	unlimited & uncontrolled tpy	limited & controlled tpy	controlled lb/hr	unlimited & uncontrolled tpy	limited & controlled tpy	controlled lb/hr	unlimited & uncontrolled tpy	limited & controlled tpy
FS 901 fugitive transfer points and loadout points	20 5	1655.5	16.4	7 2	608 4	5.7	1.8	603 2	1 5
FS 902 storage piles (wind erosion and pile loadout)	11.8	51 9	41 3	5 8	25 6	20.6	0 9	3.9	3 1
FS 903 unpaved roads	21.1	370 3	92.6	6.2	108 5	27 1	0 6	10 9	2.7
GP 003 Crushers, Conveyors, Screens	107.5	5168.4	56.1	40.3	1905.3	20 2	3.4	1905 3	2.0
Total		7246.0	206.3		2647.8	73 7		2523 2	9.3

GP 003 is EU 001 (NSPS Crushers), EU 002 (Other NSPS Equipment), and EU 003 (non-NSPS equipment)

MINNESOTA POLLUTION CONTROL AGENCY
AIR QUALITY
520 LAFAYETTE ROAD
ST PAUL, MN 55155-4194

 20 Jan, 2012 16:05

COMPLIANCE PLAN CD-01

Facility Name: Martin Marietta Aggregates - St Cloud

Permit Number: 14500029 - 002

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 2000000 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 50000 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 shall be limited to a maximum of: 10 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	NONROAD ENGINE REQUIREMENTS
9 0		CD	Minn. R. 7007.0800, subp. 4 and 5	The Permittee shall keep the following records for each nonroad engine: 1) Date that the nonroad engine is brought onsite. 2) Date that the nonroad engine is taken offsite and/or moved to a different location. 3) Identification number. 4) Rated capacity of the nonroad engine. 5) The model year and date of manufacture (as defined by the applicable nonroad engine rule). 6) Which nonroad provision that the nonroad engine is certified under. 7) Rental company information (if applicable). 8) Function of the nonroad engine (mechanical power, electric generator, air compressor, etc.) While on site, each engine shall be labeled with the identification number described in item 3 above.

COMPLIANCE PLAN CD-01

Facility Name: Martin Marietta Aggregates - St Cloud

Permit Number: 14500029 - 002

10.0		CD	40 CFR Section 1068.30, "Nonroad engines", (2)(iii)	A nonroad engine shall not remain in one 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 (or engines) 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. An engine located at a seasonal source is an engine that remains at a seasonal source during the full annual operating period of the seasonal source. A seasonal source is a stationary source that remains in a single location on a permanent basis (i.e., at least two years) and that operates at that single location approximately three months (or more) each year. See 40 CFR Section 1068.31 for provisions that apply if the engine is removed from the location.
11.0		CD	40 CFR Section 1068.101(b)(3)	For a nonroad engine that is excluded from any requirements of 40 CFR Part 1068 because it is a stationary engine, the Permittee may not move it or install it in any mobile equipment, except as allowed by the provisions of 40 CFR Part 1068. The Permittee may not circumvent or attempt to circumvent the residence-time requirements of paragraph (2)(iii) of the nonroad engine definition in 40 CFR Section 1068.30.
12 0		CD	hdr	SOURCE-SPECIFIC REQUIREMENTS
13.0		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.
14.0		CD	Minn R 7007.0800, subp. 14 and Minn R. 7007.0800, subp. 16(J)	Operation and Maintenance Plan: Retain at the stationary source an operation and maintenance plan for all air pollution control equipment.
15.0		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 federally enforceable.
16.0		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.
17.0		CD	Minn. R. 7007.0800, subp. 16	The Permittee shall comply with the General Conditions listed in Minn R 7007.0800, subp. 16.
18.0		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
19.0		CD	Minn. R. 7007.0800, subp. 9(A)	Inspections: Upon presentation of credentials and other documents as may be required by law, allow the Agency, or its representative, to enter the Permittee's premises, to have access to and copy any records required by this permit, to inspect at reasonable times (which include any time the source is operating) any facilities, equipment, practices or operations, and to sample or monitor any substances or parameters at any location.
20.0		CD	hdr	MONITORING
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	Feed Material Moisture Content Monitoring (part 1): Demonstrate that all feed material moisture content is at least 1.5 percent by either method 1 or 2 below: 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: 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.

COMPLIANCE PLAN CD-01

Facility Name: Martin Marietta Aggregates - St Cloud

Permit Number: 14500029 - 002

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	Feed Material Moisture Content Monitoring (part 2). 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. On each operating day, either: (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,
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	Feed Material Moisture Content Monitoring (part 3): (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. OR 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.
24.0		CD	hdr	RECORDKEEPING
25.0		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	Recordkeeping - Crushing: 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. Daily records must indicate the production date, production quantity (tons), and material processed or produced
26.0		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	Recordkeeping - Fines Crushing: 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. Daily records must indicate the production date, production quantity (tons), and material processed or produced.
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	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 Aggregates - St Cloud

Permit Number: 14500029 - 002

28.0		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.
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	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.
30.0		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.
31.0		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. 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.
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	hdr	REPORTING/SUBMITTALS
34.0		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.
35.0		CD	Minn R. 7019.1000, subp. 1	Shutdowns: Notify the Commissioner at least 24 hours in advance of shutdown of any process or control equipment if the shutdown would cause an increase in the emission of air contaminants. At the time of notification, notify the Commissioner of the cause of the shutdown and the estimated duration. Notify the Commissioner again when the shutdown is over.
36.0		CD	Minn. R. 7019.1000, subp. 2	Breakdowns: Notify the Commissioner immediately of a breakdown of more than one hour duration of any process or control equipment if the breakdown causes an increase in the emission of air contaminants. At the time of notification or as soon thereafter as possible, the permittee shall also notify the Commissioner of the cause of the breakdown and the estimated duration. Notify the Commissioner again when the breakdown is over.
37.0		CD	Minn. R 7007.0800, subp. 6(A)	Oral Notification of Deviations Endangering Human Health or the Environment: Within 24 hours of discovery, orally notify the Commissioner of any deviation from permit conditions which could endanger human health or the environment.

COMPLIANCE PLAN CD-01

Facility Name: Martin Marietta Aggregates - St Cloud

Permit Number: 14500029 - 002

38 0		CD	Minn. R. 7007.0800, subp. 6(A)	Discovery of Deviations Endangering Human Health or the Environment Report (written): due two working days after discovery of deviation, submit a written description of any deviation endangering human health or the environment to the Commissioner. Include the following information in this written description: cause of the deviation; exact dates of the period of the deviation; if the deviation has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the deviation.
39.0		CD	Minn. R. 7007.1150 through Minn. R. 7007.1500	Application for Permit Amendment: If you need a permit amendment, submit 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.
40.0		S/A	Minn. R. 7007.0800, subp. 6 (C)(1)	Compliance Certification: due 30 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.
41.0		CD	Minn R 7019 3000 through Minn R. 7019.3010	Emission Inventory Report due on or before April 1 of each calendar year following permit issuance. Submit the report on a form approved by the Commissioner.
42.0		CD	Minn. R. 7002.0005 through Minn. R. 7002.0095	Emission Fees: due 60 days after receipt of an MPCA bill
43.0		S/A	Minn. R. 7007.0800, subp. 6(A)	Semiannual Deviations Report: due 30 days after end of each calendar half-year starting 02/27/1997 The first report covers January 1 - June 30. The second report covers July 1 - December 31.
44.0		CD	Minn. R. 7007.1400, subp. 1(H)	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).

COMPLIANCE PLAN CD-01

Facility Name: Martin Marietta Aggregates - St Cloud

Permit Number: 14500029 - 002

Subject Item: **GP 001 NSPS Equipment**

Associated Items: EU 001 NSPS Crushers

EU 002 Other NSPS equipment

	NC/ CA	Type	Citation	Requirement
1.0		CD	40 CFR Section 60.7(a)(1); Minn. R. 7019.0100	Construction or Reconstruction: Notification of construction or reconstruction postmarked no later than 30 days after the start of construction (or reconstruction) as defined in 40 CFR Section 60.2, except for mass-produced (prefabricated) affected facilities.
2.0		CD	40 CFR Section 60.7(a)(3); Minn. R. 7019.0100	Notification of the Actual Initial Startup Date: due (postmarked) within 15 days after Initial Startup.
3.0		CD	40 CFR Sections 60.8(a), 60.675, 60.676; Minn. R. 7017.2015, Minn. R. 7011.3350	Initial Performance Testing: Shall be completed within 60 days of obtaining maximum capacity but no later than 180 days after initial startup date.
4.0		CD	40 CFR Section 60.8(d); Minn. R. 7017.2015	Performance Test Notification Performance test notification shall be postmarked at least 30 days prior to conducting a performance test.
5.0		CD	40 CFR Sections 60.670(d) and 60.676; Minn. R. 7011 3350	Replacement: Notification shall be postmarked within 60 days after making the replacement.
6.0		CD	40 CFR Section 60.7(b); Minn. R. 7019.0100	Recordkeeping: Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.

COMPLIANCE PLAN CD-01

Facility Name: Martin Marietta Aggregates - St Cloud

Permit Number. 14500029 - 002

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

Associated Items: FS 901 Fugitive transfer points

FS 902 Piles

FS 903 Unpaved Roads

	NC/ CA	Type	Citation	Requirement
1.0		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	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
2.0		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	The following dust suppression requirements also apply: 1. Record the date and time of dust suppressant action and initials of person making the record. 2. Record amount of water or dust suppressant applied. 3. 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. 4 Record the location (e.g., on a site sketch) of water or dust suppressant application. 5. Install a rain gauge at the site and record the precipitation during the previous 24 hours for each day of operation at the site. (continued below)
3.0		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	6. Conduct and record basic weather observations according to the Weather Summary Criteria in Appendix A that best characterizes weather for each operating day. 7. Unpaved site roads shall be posted with 10 mph speed limit signs. 8. 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.

COMPLIANCE PLAN CD-01

Facility Name: Martin Marietta Aggregates - St Cloud

Permit Number: 14500029 - 002

Subject Item: **EU 001 NSPS Crushers**

Associated Items: GP 001 NSPS Equipment

GP 003 Process Units

	NC/ CA	Type	Citation	Requirement
1.0		LIMIT	40 CFR Section 60 672(c); Minn. R. 7011.3350	Opacity: less than 15 percent opacity

COMPLIANCE PLAN CD-01

Facility Name: Martin Marietta Aggregates - St Cloud

Permit Number: 14500029 - 002

Subject Item: **EU 002 Other NSPS equipment**

Associated Items: GP 001 NSPS Equipment

GP 003 Process Units

	NC/ CA	Type	Citation	Requirement
1.0		LIMIT	40 CFR Section 60.672(b); Minn. R. 7011.3350	Opacity: less than 10 percent opacity

COMPLIANCE PLAN CD-01

Facility Name: Martin Marietta Aggregates - St Cloud

Permit Number: 14500029 - 002

Subject Item: **EU 003 Equipment not subject to NSPS and put into operation before 7/9/69**

Associated Items: GP 003 Process Units

	NC/ CA	Type	Citation	Requirement
1.0		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 Aggregates - St Cloud

Permit Number: 14500029 - 002

Subject Item: **EU 004 Equipment not subject to NSPS and put into operation on or after 7/9/69**

Associated Items: GP 003 Process Units

	NC/ CA	Type	Citation	Requirement
1.0		LIMIT	Minn. R. 7011.0715, subp. 1(B)	Opacity: less than or equal to 20 percent opacity

MINNESOTA POLLUTION CONTROL AGENCY
AIR QUALITY
520 LAFAYETTE ROAD
ST PAUL, MN 55155-4194

FACILITY DESCRIPTION: CONTROL EQUIPMENT (CE)

Show: Active and Pending Records
Action: PER 002
AQD Facility ID. 14500029
Facility Name: Martin Marietta Aggregates - St Cloud

	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	Active	PER 001			008	Centrifugal Collector - Medium Efficiency	Barber-Green	NA	PM10 PM	100 100	50 50	
2	CE 009	Removed	PER 002			008	Centrifugal Collector - Medium Efficiency	Barber-Green	NA	PM10 PM	100 100	50 50	

MINNESOTA POLLUTION CONTROL AGENCY
AIR QUALITY
520 LAFAYETTE ROAD
ST PAUL, MN 55155-4194

FACILITY DESCRIPTION: EMISSION UNIT (EU)

Show: Active and Pending Records
Action: PER 002
AQD Facility ID: 14500029
Facility Name: Martin Marietta Aggregates - St Cloud

	ID No.	Emission Unit Status	Added By (Action)	Retired By (Action)	Insignif-icant 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		☐				NSPS Crushers			1423					
2	EU 002	Active	PER 001		☐				Other NSPS equipment			1423					
3	EU 003	Active	PER 001		☐				Equipment not subject to NSPS and put into operation before 7/9/69			1423					
4	EU 004	Active	PER 001		☐				Equipment not subject to NSPS and put into operation on or after 7/9/69			1423					
5	EU 710	Active	PER 001		☐		SV 710 (M)	CE 009	Dryer	Barber-Greene	839	1423	30		Ton	Hr	12
6	EU 710	Removed	PER 002		☐		SV 710 (M)		Dryer	Barber-Greene	839	1423	30		Ton	Hr	12
7	EU 711	Active	EIS 002		☐				Granite Blasting			1423					

FACILITY DESCRIPTION: EMISSION UNIT (EU)

	ID No.	Emission Unit Status	Added By (Action)	Comm-ence Const Date	Initial Startup Date	Removal Date	Firing Method	Pct. Fuel/ Space Heat	Bottleneck	Elevator Type
1	EU 001	Active	PER 001							
2	EU 002	Active	PER 001							
3	EU 003	Active	PER 001							
4	EU 004	Active	PER 001							
5	EU 710	Active	PER 001	01/01/1956	01/01/1989			0		
6	EU 710	Removed	PER 002	01/01/1956	01/01/1989	01/01/2005		0		
7	EU 711	Active	EIS 002							

MINNESOTA POLLUTION CONTROL AGENCY
AIR QUALITY
520 LAFAYETTE ROAD
ST PAUL, MN 55155-4194

FACILITY DESCRIPTION: FUGITIVE SOURCES (FS)

Show: Active and Pending Records
Action: PER 002
AQD Facility ID. 14500029
Facility Name: Martin Marietta Aggregates - St Cloud

	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 001		☐		PM		Fugitive transfer points		
2	FS 901	Active	PER 002		☐		PM PM2.5 PM10		Fugitive transfer points		
3	FS 902	Active	PER 001		☐		PM		Piles		
4	FS 902	Active	PER 002		☐		PM PM2.5 PM10		Piles		
5	FS 903	Active	PER 001		☐		PM		Unpaved Roads		
6	FS 903	Active	PER 002		☐		PM PM2.5 PM10		Unpaved Roads		

MINNESOTA POLLUTION CONTROL AGENCY
AIR QUALITY
520 LAFAYETTE ROAD
ST PAUL, MN 55155-4194

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

Show: Active and Pending Records
AQD Facility ID: 14500029
Facility Name: Martin Marietta Aggregates - St Cloud

Pollutant	Item	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)
Carbon Monoxide							
	EU 710	PER 001		4.300E-01	1.880E+00	1.400E-01	2.000E-02
	EU 710	PER 002		0.000E+00	0.000E+00	0.000E+00	0.000E+00
Totals					0.000E+00	0.000E+00	0.000E+00
Nitrogen Oxides							
	EU 710	PER 001		2.140E+00	9.390E+00	7 100E-01	1 100E-01
	EU 710	PER 002		0.000E+00	0.000E+00	0.000E+00	0.000E+00
Totals					0.000E+00	0.000E+00	0 000E+00
PM < 2.5 micron							
	FS 901	PER 002		1.840E+00	6.032E+02	1.470E+00	[illegible]
	FS 902	PER 002		8 900E-01	3.900E+00	3.140E+00	[illegible]
	FS 903	PER 002		6.200E-01	1.085E+01	2.710E+00	[illegible]
	GP 003	PER 002		3 380E+00	1.905E+03	2.000E+00	[illegible]
Totals					2.523E+03	9.320E+00	0.000E+00
PM < 10 micron							
	EU 710	PER 001		2.829E+01	2.478E+02	9.430E+00	1.410E+00
	EU 710	PER 002		0.000E+00	0.000E+00	0.000E+00	0.000E+00
	FS 901	PER 002		7.150E+00	6.084E+02	5.720E+00	[illegible]
	FS 902	PER 001		3.720E+00	1 629E+01	2.790E+00	2 500E-01
	FS 902	PER 002		5.840E+00	2.558E+01	2.057E+01	0.000E+00
	FS 903	PER 001		8.990E+00	1.576E+02	6.750E+00	4.870E+00
	FS 903	PER 002		6.190E+00	1.085E+02	2.713E+01	0.000E+00
	GP 003	PER 001		1.295E+01	4.386E+01	2.262E+01	7.110E+00
	GP 003	PER 002		4.030E+01	1.905E+03	2.023E+01	0.000E+00
Totals					2.648E+03	7.365E+01	0 000E+00
Total Particulate Matter							
	EU 710	PER 001		2.829E+01	2.478E+02	9.430E+00	1.410E+00
	EU 710	PER 002		0.000E+00	0.000E+00	0.000E+00	0.000E+00
	FS 901	PER 002		2.046E+01	1.655E+03	1.637E+01	[illegible]
	FS 902	PER 001		7.800E+00	3.416E+01	5.850E+00	5.500E-01
	FS 902	PER 002		1.184E+01	5.187E+01	4.127E+01	0.000E+00
	FS 903	PER 001		1.999E+01	3.502E+02	1.499E+01	1.083E+01
	FS 903	PER 002		2.114E+01	3.703E+02	9.258E+01	0.000E+00
	GP 003	PER 001		9.184E+01	3.080E+02	1.593E+02	4.777E+01
	GP 003	PER 002		1.075E+02	5.168E+03	5.610E+01	0.000E+00
Totals					7 246E+03	2.063E+02	0.000E+00

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

Show: Active and Pending Records
AQD Facility ID: 14500029
Facility Name: Martin Marietta Aggregates - St Cloud

Pollutant	Item	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)
Sulfur Dioxide							
	EU 710	PER 001		6.170E+00	2.703E+01	2.060E+00	3.100E-01
	EU 710	PER 002		0.000E+00	0.000E+00	0.000E+00	0.000E+00
Totals					0.000E+00	0.000E+00	0.000E+00
Volatile Organic Compounds							
	EU 710	PER 001		2.000E-02	8.000E-02	1.000E-02	0 000E+00
	EU 710	PER 002		0.000E+00	0.000E+00	0.000E+00	0.000E+00
Totals					0.000E+00	0.000E+00	0.000E+00

Points Calculator

1) AQ Facility ID No.:	14500029	Total Points 35
2) Facility Name:	Martin Marietta Aggregates - St Cloud	
3) Small business? y/n?	N	
4) DQ Numbers (including all rolled) :	3662	
5) Date of each Application Received:	9/19/11	
6) Final Permit No.	14500029-002	
7) Permit Staff	M Cole	
8) "Work completed" in which .xls file (i.e. unit 2b, unit 1a, biofuels)?	NA	

Application Type	DQ No.	Qty.	Points	Total Points	Details
Administrative Amendment			1	0	
Minor Amendment			4	0	
Applicability Request			10	0	
Moderate Amendment			15	0	
Major Amendment	3662	1	25	25	
Individual State Permit (not reissuance)			50	0	
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			10	0	
NESHAP Review			10	0	
Case-by-case MACT Review			20	0	
Netting			10	0	
Limits to remain below threshold	3662	1	10	10	revise annual production limi
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		10	

NOTES:
change existing 1.8 mm ton/yr limit to 2.0 mm ton/yr

(DQ 3662)

2/7 - Public Notice - ONBASE - # 710421

WEB ✓
GOV ✓

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

Air Permit Signature and Routing Sheet

Rev 11/23/10

AQ File No.: **2110A** Facility ID No.: **14500029** DQ: 3662

CDS No.: 366000029 Action Number: **002**

Facility Name, Street Address, and County: Martin Marietta Aggregates - St Cloud
1450 Division St W Waite Park, MN 56387 *Stearns County*
Brainerd Region

TYPE OF PERM IT ACTION (check appropriate box)

Total Facility Permit	State ☐	Part 70 ☐
Reissuance of Individual	State ☐	Part 70 ☐
Major Amendment	☒	
Moderate Amendment	☐	
Minor Amendment	☐	
Administrative Change*/Amendment	☐	
Applicability Request	☐	
Registration Permit	☐	Option
Capped Permit	☐	Option
Pt 70 General Permit	☐	☐ Mfg. ☐ Fiberglass ☐ other
State General Permit	☐	☐ non-metallic ☐ other

*Administrative Change can apply to Registration, Capped, or General Permits For these options, check both boxes to show the permit type as well as the administrative change.

SIGNATURES

	Public Notice		EPA Review		1st Stage Issuance		Final Iss/Approval	
	Initials	Date	Initials	Date	Initials	Date	Initials	Date
Originator:	MC	1/21/12	MC	1/21/12			MC	4/14/12
Supervisor/Lead:	CS	1/23/12	CS	1/23/12			CS	4/21/12
Section/Division Mgr:	[illegible]							

Permit effective on date of last signature (unless otherwise noted), Public Notice starts on day after published date

Received
FEB 15 2012
Rochester Office
MPCA

Documentation expected to be in files at the start of public notice (in DELTA where indicated):
Martin Marietta – St Cloud DQ # 3662 Marshall Cole

Sent to be filed?	Item
☒ NA ☐ sent to be filed	Early project scheduling letter that includes standard procedures on communication and dispute resolution, and project schedule (OnBase and Delta);
☐ NA ☒ sent to be filed	Notes/records of any significant information requests to permittee, how and basically what requested (OnBase, DELTA activity log – kept up-to-date during project);
☐ NA ☒ sent to be filed	Permittee responses to above/note date of response (OnBase, DELTA activity log – kept up-to-date during project);
☒ NA ☐ sent to be filed	Any other letters that revise project schedule (OnBase and Delta);
☐ NA ☒ sent to be filed	Draft permit sent to the permittee (OnBase and cover letter in Delta also);
☐ NA ☒ sent to be filed	Permittee responses to draft permit (OnBase and Delta if received electronically);
☒ NA ☐ sent to be filed	Modeling information and data, if applicable (with the Permit Application and/or Modeling File(s), as appropriate);
☒ NA ☐ sent to be filed	Air Emission Risk Analysis (AERA), if applicable ("RASS" Excel Workbook in Delta, salient excerpts attached to and summarized in TSD, as appropriate); and
☒ NA ☐ sent to be filed	Risk Manager Memo and attachments, if applicable (attached to TSD and in Delta).

Additional File Content after Permit Issuance (for final Routing):

Sent to be filed?	Item
☐ NA ☒ sent to be filed ☐ in routing folder	Draft permit placed on public notice, EPA letter, and Public Notice (OnBase; EPA letter and electronic version of Public Notice in Delta also);
☒ NA ☐ sent to be filed ☐ in routing folder	Board Item, if applicable, including Board Agenda, Notice To Interested Parties, Issue Statement, proposed Findings of Fact, Conclusions of Law and Order, proposed staff resolution, as well as all attachments to the Board Item (OnBase and Delta); and
☒ NA ☐ sent to be filed ☐ in routing folder	Signed Findings of Fact, Conclusions of Law and Order, if applicable (OnBase and Delta if different from proposed).
☐ NA ☒ sent to be filed ☐ in routing folder	Final Certified Permit Application (with application in OnBase);
☒ NA ☐ sent to be filed ☐ in routing folder	Public comments and responses, if any (Letters and e-mails in OnBase if voluminous, otherwise attached to Technical Support Document (TSD)); Responses to Comments Document in OnBase – attached to TSD or Citizens' Board Item, if applicable – and Delta; and
☐ NA ☐ sent to be filed ☒ in routing folder	Final permit (and transmittal letter) and Technical Support Document and Board item, if applicable (OnBase and Delta);

Date when you sent "last materials" to be filed:	4-14-2012

The above are key components of the Administrative Record for the permit. In cases where controversy or litigation is anticipated, work early with the Attorney General's Office to coordinate development of the Administrative Record and an Index. Examples of other items to be included in the Record are guidance documents, Internet website printouts, maps, photographs, memos, technical reports, modeling input/out files on CD, e-mails, etc. It's important to date and file all items on an ongoing basis.

TEAM DEVELOPMENT CHECKLIST

Project Name	**Martin Marietta Materials – St Cloud PER 002**
Project Lead	Marshall Cole
Assigned Section Manager	Don Smith
Main Company Contact & Phone	Beth Kephart 515-859-3355 ext. 134
Estimated Date of Permit Draft	11/15/11
AQ Permit Type	Major Amendment
Permit Team Member / Supervisor	Marshall Cole/Carolina Schutt
Performance Testing Team Member / Supervisor	none
Enforcement Team Member / Supervisor	Dave Crowell
Peer Reviewer / Supervisor	Amrill Okonkwo
Support Staff / Supervisor	Laurie O'Brien
Site Visit (Yes/No)	No
If yes, members of team attending	No

EAW (Yes/No)	NO
AERA (Yes/No)	NO
Modeling (Yes/No)	NO
Community Involvement (Yes/No)	NO
Tribe Involvement	NO
PIO Staff (Yes/No)	NO
Mercury Review (Yes/No)	NO
SIP Issues (Yes/No)	NO
SIP Staff	NO
Waste Combustor (Yes/No)	NO
AG (Yes/No)	NO
Water Permits (Yes/No)	NO
Storm Water Permits (Yes/No)	NO
Tanks / Haz. Waste Permits (Yes/No)	NO
Other Team Members / Processes needed but not listed above	None

Permit Tracking Report

– updates made electronically in DQ (MC)

Filter ?

Sort ?

Trk Id:	3662	Record Active.	Y
Preferred Id:	14500029		
Facility Name:	Martin Marietta Aggregates - St Cloud		
Action Code:	Major Amendment		
Existing Operating Permit:	Y	Current Permit Type Code	State - TFP
Expire Date Current Permit:		Resultant Permit#:	
Project Rolled Into Other.	N	Rolled Into Other Trk ID.	
Consulting Firm:			
MPCA Region/County:	Brainerd	Stearns	SIC Code. 1423
Sector Group:	None	Six Sigma.	Y
Speed Bumps:	N	Funding Source	EXP
Tribal?.	N	PSD?	N
Permit Writer	Cole, Marshall	Work Plan Year.	
Contractor.		Name:	
Date of First Contact:	10/01/2011	First Preapp Mtg:	
App Received	09/19/2011	Date Assigned To Staff:	09/27/2011
Admin Completion Done	Y	Technical Completion Done:	N
Ready to be Assigned:	09/26/2011	Application on Hold:	N

Comments

1 copy - check #1229633 - $7125.00 - Gave App to Adriane
9/19/11 bo
9/20/2011 - app to Jeff Hedman to suggest expediting
9/27/2011 app to M Cole via B Olson jh. Sent to Marshall Cole
9/27/11 bo

Proj Pickedup Target.	09/27/2011
Proj Pickedup Actual:	09/29/2011
Project On Hold	
Project Off Hold:	
Site Visit.	
Internal Meeting.	
Project Scheduling Meeting:	
EAW/EIS Target:	
EAW/EIS Actual:	
Modeling Target.	
Modeling Actual.	
AERA Target:	
AERA Actual:	
Risk Manager Target:	
Risk Manager Actual:	
Resolve Compl Target:	
Resolve Compl Actual:	
1st Draft To Permittee Tgt.	12/23/2011
1st Draft To Permittee Act:	12/20/2011
Final Cmts Back Permittee:	12/28/2011

Correct/Complete Application:	01/17/2012
Public Notice Target:	01/27/2012
Public Notice Actual:	02/10/2012
Public Meeting	
Board Meeting:	
Constr Auth Target:	02/25/2012
Constr Auth Actual:	
Issuance Target:	02/25/2012
Issuance Actual:	

Peer Review Checklist

Facility Name: Martin Marietta Aggregates - St Cloud

Permit Number. 14500029-002 DQ Number: 3662

Permit Author: Marshall Cole

Date Submitted for Review: 10/27/2011

Peer Reviewer: Amrill Okonkwo

Date Review Completed: 10/30/11

All comments resolved to my satisfaction: (ASO: 10/31/11)

Permit Peer Review

☒ 1. Read TSD, including sample calculations

A TSD is adequate if the reviewer finds that they understand the type of facility, applicable requirements, type of permit, and special or unusual permit conditions just from the TSD. A thorough TSD makes review of the application unnecessary. Sufficient calculations must be attached so the Peer Reviewer can verify that calculations are done correctly. A CD-01 must also be attached.

1. Add "preliminary" determination in the first paragraph; Done
2. Technical Information- Add "40 CFR" to Section; Done
3. Emission Changes- There are no references for emission factors; Paved roads, there is a 75% control efficiency for PM10 and PM 2.5, where did this number come from? Are all the engines non road engines? Total facility section of permit allows only nonroad engines at the site
4. There are no discussions in regards to "Points Calculator"; Added discussion
5. I believe that EPA has 30-day review. Done

☒ 2. Review permit

If the TSD is thorough and detailed and the permit done correctly, the Peer Reviewer will have no questions about the permit.

1. Add "Draft" to the cover page; Done
2. Can you change "Process" to "Production" under TF items 3 and 4? Done
3. Add Minn. R. 7007.0200 under TF items 2-6; Done

The Peer Reviewer may review the application as well if desired.

☒ Application reviewed

☐ 3. Review EAW/EIS applicability N/A

Check that EAW/EIS requirements were correctly assessed for construction permits.

☒ 4. Review Permit Shield language

If template language is not used, check for an explanation/documentation in the TSD.

☒ 5. Check Applicable Requirements; including NSR, NSPS, NESHAPS, CAM, RMP, Acid Rain

Check the adequacy of permit conditions for each of these applicable requirements, e.g., are synthetic minor conditions for NSR written properly

☐ 112g applicability -- For **construction permits**, check applicability of 112g

☒ Compliance Certification – for State permits, to be submitted ONLY to MPCA, i.e. edit standard Delta language as necessary

☐ 6. Check modeling requirements (policy, NAAQS, MAAQS, increments, EELs) N/A

Check that modeling has been done, or the permit contains the appropriate modeling requirements

☒ 7. Check emission limits and compliance demonstration methods

Check that Compliance Demonstration methods are consistent with the associated limit, such as averaging times.

☐ Check Periodic Monitoring requirements

☐ Check Performance testing requirements, especially for new APCE

☒ 8. Audit the Delta permit conditions

Check some of the permit conditions to verify that limits have been entered on the Limit Screen, Submittals on the S/A screen, etc.

☒ 9. Check that necessary documents are in Delta

The Technical Support Document and any other MPCA-generated documents that support the permit (e.g., spreadsheets) must be in Delta. If the permittee submitted an electronic version of their calculations, they should be copied into Delta as well.

☒ 10. Check the Permit Action Summary Form (Delta) for completeness

The permit action summary form must be complete and correct for future use of Delta to identify facilities with specific types of conditions.

☒ 11. Audit the information in the Delta Facility Description

The PTE entered on the tabs in the Facility Description must be consistent with the permit and TSD.

Verify that emission unit, tanks, etc., have been revised and/or updated for the given permit action.

☒ 12. For applicable projects, review the Points Calculator

Verify that the fees assessed are correct and clearly documented in the "Comments" column within the worksheet.

Verify that the version of the Fee Calculator in the Central File in Delta matches the one saved within the FeeTracking.xls workbook on the x drive.

☐ 13. For **first permits** only – check Actual emissions for first-time invoice

For a first-time permit, actual emissions must be accurately estimated for the fee invoice.