

Attachment 3: Permit No. 12300055-004; Title I SIP conditions only



**AIR EMISSION PERMIT NO. 12300007-002
Major Amendment**

IS ISSUED TO

Aggregate Industries Inc

AGGREGATE INDUSTRIES INC - YARD A
1177 Childs Road
St. Paul, Ramsey County, MN 55106

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. 12300007-001 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. Any additions or changes to conditions incorporated into Minnesota's State Implementation Plan (SIP) under 40 CFR § 52.1220, designated "Title I: SIP for PM₁₀" must go through the federal SIP approval process before becoming effective. Terms used in the permit are as defined in the state air pollution control rules unless the term is explicitly defined in the permit.

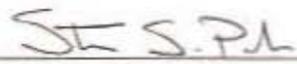
Unless otherwise indicated, all the Minnesota rules cited as the origin of the permit terms are incorporated into the SIP under 40 CFR § 52.1220 and as such as are enforceable by U.S. Environmental Protection Agency Administrator or citizens under the Clean Air Act.

Permit Type: State; Limits to Avoid Pt 70/True Minor for NSR; Title I SIP Conditions PM₁₀

Operating Permit Issue Date: March 30, 2006

Major Amendment Issue Date: April 23, 2009

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 Eger
Commissioner
Minnesota Pollution Control Agency

Permit Applications Table

Permit Type	Application Date	Permit Action
Total Facility Operating Permit	1/31/96 updated 2005	001
Major Amendment	9/4/07	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 Minnesota Pollution Control Agency (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 an aggregate distribution and storage facility. It receives aggregate by barge, unloads it, and conveys it to one of several storage piles based on size and material type. The aggregate is stored until it is loaded to truck for off-site transport. The facility operates a natural gas-fired aggregate heater that is used between November and April to reduce moisture content and make some materials more easily conveyed. The primary emissions from the facility are Particulate Matter and Particulate Matter smaller than 10 microns (PM₁₀) from the process equipment, as well as fugitive emissions from the stockpiles and unpaved roads. Permit action -001 incorporated the applicable Administrative Order (State Implementation Plan) requirements.

AMENDMENT DESCRIPTION (Major Amendment -002):

This major amendment will clarify a Title I Condition regarding a SIP for PM₁₀ originating from an Administrative Order for the facility issued August 25, 1992. This amendment will also update the permit language for the aggregate heater (EU026) and update opacity limits for GP001 and GP002. SV001 is being removed from the facility description. Total facility permit language was updated to meet current MPCA policy.

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Aggregate Industries Inc - Yard A
 Permit Number: 12300007 - 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
SOURCE-SPECIFIC REQUIREMENTS	hdr
SIP REQUIREMENTS	hdr
<p>Activities Not Requiring A Modification To The SIP: The Permittee is authorized to make changes to the facility without obtaining a modification to the SIP as long as the change does not increase from any emission point, the PM10 emission rates (either lb/hr or gr/dscf) or overall PM10 emissions.</p> <p>As noted in Part II of the Order, the Permittee may undertake certain changes to the facility without obtaining a modification of the Order. However, if the Permittee does make such a change, and if the change in any way affects PM10 emissions (reduces the amount or changes the concentration, size, character, velocity, direction, or location of PM10 emissions) the Permittee shall notify the AQD Manager in writing at least 30 days prior to undertaking the change. The notification shall describe the change and why it does not require a modification of the SIP. The Permittee must also obtain a permit amendment if required by state or federal law.</p>	Title I Condition: State Implementation Plan for PM10

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Aggregate Industries Inc - Yard A

Permit Number: 12300007 - 002

<p>Activities Requiring A Modification To The SIP: Activities that require a modification to the SIP prior to the Permittee commencing the activity include, but are not limited to:</p> <ol style="list-style-type: none"> 1. any decrease in stack emissions exit velocity; 2. any decrease in the exit point heat content of stack emissions; or 3. any construction or modification of structures that increase the effective structural dimensions. 4. any changes in operations that increase potential PM10 emissions. 	<p>Title I Condition: State Implementation Plan for PM10</p>
<p>The Permittee shall demonstrate compliance with applicable conditions of the PM10 SIP, Minnesota and federal statutes, federal regulations and Minnesota rules by the following methods: visually observing the opacity from emission units with opacity limits, in accordance with the testing procedures of 40 CFR pt. 60, Appendix A, Method 9 as amended in Minn. R. 7005.1860, subp. 7. These records shall be made available when requested by MPCA or EPA.</p>	<p>Title I Condition: State Implementation Plan for PM10</p>
<p>Required Records: The following records must be retained at the facility:</p> <ol style="list-style-type: none"> a. monitoring, testing and other records; b. PM10 emissions and operations records; c. startup, shutdown, bypass and breakdown records; d. excess emissions and noncompliance with operational requirements records 	<p>Title I Condition: State Implementation Plan for PM10</p>
<p>Permanent Recordkeeping: The Permittee shall permanently maintain the following records:</p> <ol style="list-style-type: none"> a. Design, Construction and Operation Information. The Permittee shall maintain a file or files of information on the design, construction and operation of each emission source, fuel system, stack, structures pertinent to modeling for downwash, and any other information required to conduct PM10 ambient air quality modeling. The file or files shall include all information required to demonstrate that the equipment identified in this permit is installed and operated as described. If the Permittee makes changes or modifications that do not require amendments to this permit, the file or files shall include a description of that change or modification and all information required to demonstrate that the change or modification did not require a permit amendment. 	<p>Title I Condition: State Implementation Plan for PM10</p>
<p>Permanent Recordkeeping (continued):</p> <ol style="list-style-type: none"> b. PM10 Emission and Operational Requirement Compliance Demonstration Plans. The Permittee shall maintain a file at the facility which includes this permit and all attachments or items incorporated by reference, and any plans which upon approval by the MPCA or EPA become integral and enforceable parts of this permit. 	<p>Title I Condition: State Implementation Plan for PM10 (continued from above)</p>
<p>Recordkeeping: Retain all records at the stationary source and/or corporate office from the date of monitoring, sample, measurement, or report. Records which must be retained at these locations include all calibration and maintenance records, all original recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Records are required to be retained at the stationary source for 1 year with the remaining records stored at the corporate office for a minimum of six (6) years. Records must conform to the requirements listed in Minn. R. 7007.0800, subp. 5(A) unless otherwise noted.</p>	<p>Title I Condition: State Implementation Plan for PM10; Minn. R. 7007.0800, subp. 5A</p>
<p>Shutdown Notifications: Notify the Commissioner at least 24 hours in advance of a planned shutdown of any control equipment or process equipment if the shutdown would cause any increase in the emissions of PM10. At the time of the notification, the company shall notify the Commissioner of the cause of the shutdown and the estimated duration. The owner or operator shall notify the Commissioner when the shutdown is over.</p>	<p>Title I Condition: State Implementation Plan for PM10</p>
<p>Breakdown Notifications: Notify the Commissioner within 24 hours of a breakdown of more than one hour duration of any control equipment or a breakdown of process equipment if the process equipment breakdown causes any increase in the emissions of PM10. The 24-hour time period starts when the breakdown was discovered or reasonably should have been discovered by the owner or operator. The owner or operator shall notify the Commissioner when the breakdown is over.</p>	<p>Title I Condition: State Implementation Plan for PM10</p>
<p>Performance Test Notifications and Submittals:</p> <p>Performance Tests are due as outlined in Tables A and B of the permit. See Table B for additional testing requirements.</p> <p>Performance Test Notification (written): due 30 days before each Performance Test Performance Test Plan: due 30 days before each Performance Test Performance Test Pre-test Meeting: due 7 days before each Performance Test Performance Test Report: due 45 days after each Performance Test Performance Test Report - Microfiche Copy: due 105 days after each Performance Test</p> <p>The Notification, Test Plan, and Test Report may be submitted in alternative format as allowed by Minn. R. 7017.2018.</p>	<p>Title I Condition: State Implementation Plan for PM10; Minn. Rs. 7017.2030, subp. 1-4, 7017.2018 and Minn. R. 7017.2035, subp. 1-2</p>

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Aggregate Industries Inc - Yard A

Permit Number: 12300007 - 002

<p>Annual Reports: The Permittee shall submit to the MPCA once each calendar year, a report that contains the following information: a record of data used in calculating PM10 emissions, and calculations of the PM10 emissions; each startup, shutdown, bypass and breakdown of process and control equipment; and a summary record of excess PM10 emissions, opacity exceedances, hours of operation exceedances and noncompliance with operational requirements (or the Permittee shall state if no exceedances or noncompliance conditions occurred in the year). Annual reports shall be postmarked or delivered within 60 days following the end of each calendar year.</p>	<p>Title I Condition: State Implementation Plan for PM10</p>
<p>The Permittee shall conduct maintenance as necessary to ensure that all equipment is in proper operating condition.</p>	<p>Title I Condition: State Implementation Plan for PM10</p>
<p>OPERATIONAL REQUIREMENTS</p>	<p>hdr</p>
<p>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.</p>	<p>Title I Condition: State Implementation Plan for PM10; Minn. R. 7011.0150</p>
<p>PERFORMANCE TESTING</p>	<p>hdr</p>
<p>RECORDKEEPING</p>	<p>hdr</p>
<p>REPORTING/SUBMITTALS</p>	<p>hdr</p>

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Aggregate Industries Inc - Yard A

Permit Number: 12300007 - 002

Subject Item: GP 003 SIP Requirements - Storage Piles

- Associated Items:** FS 001 Stock Piles Sand, Gravel & Limestone Products
 FS 002 Stock Piles Sand, Gravel & Limestone Products
 FS 003 Stock Piles Sand, Gravel & Limestone Products
 FS 004 Stock Piles Sand, Gravel & Limestone Products
 FS 005 Stock Piles Sand, Gravel & Limestone Products
 FS 006 Stock Piles Sand, Gravel & Limestone Products
 FS 007 Stock Piles Sand, Gravel & Limestone Products
 FS 008 Stock Piles Sand, Gravel & Limestone Products
 FS 009 Stock Piles Sand, Gravel & Limestone Products
 FS 010 Stock Piles Sand, Gravel & Limestone Products
 FS 011 Stock Piles Sand, Gravel & Limestone Products
 FS 012 Stock Piles Sand, Gravel & Limestone Products
 FS 013 Stock Piles Sand, Gravel & Limestone Products
 FS 014 Stock Piles Sand, Gravel & Limestone Products
 FS 015 Stock Piles Sand, Gravel & Limestone Products
 FS 016 Stock Piles Sand, Gravel & Limestone Products
 FS 017 Stock Piles Sand, Gravel & Limestone Products
 FS 018 Stock Piles Sand, Gravel & Limestone Products

What to do	Why to do it
Operations: Do not operate the product pile conveyors unless the free fall height from the conveyor belt to the product pile is 10 feet or less after the product pile is established. The free fall height shall not be greater than 10 feet for more than 6 hours. The 10 foot drop height shall be achieved as expeditiously as possible.	Title I Condition: State Implementation Plan for PM10
If the steady wind speed exceeds 30 miles per hour, or when wind gusts exceed 45 miles per hour, then the operation of the radial stacker equipment shall be confined to the downwind side of the pile.	Title I Condition: State Implementation Plan for PM10

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Aggregate Industries Inc - Yard A

Permit Number: 12300007 - 002

Subject Item: EU 026 Heater

What to do	Why to do it
<p>Operation: Operate the aggregate heater only during the months of November through April. Do not operate this unit on Sundays during the months of November through April. Operate this unit for not more than 10 hours each day that the unit is allowed to operate. Notwithstanding the previous sentence, the unit shall be operated in a manner that prevents the actual total hours of operation from exceeding 16 hours in any 24-hour period from Monday through Saturday in the months of November through April.</p>	<p>Title I Condition: State Implementation Plan for PM10</p>
<p>Recordkeeping: Record the following data daily:</p> <ul style="list-style-type: none"> a. Burner startup and shutdown time to the minute with each burn recorded separately; b. Fuel consumption; c. Approximate amount of material in tons heated by the unit operator; and d. Actual amount of heated materials in tons established based on daily sales records. 	<p>Title I Condition: State Implementation Plan for PM10; Minn. R. 7007.0800, subp. 5A</p>
<p>Recordkeeping: For each month by the 15th of the following month, summarize the daily data listed above.</p>	<p>Title I Condition: State Implementation Plan for PM10; Minn. R. 7007.0800, subp. 5A</p>
<p>Operate heater to minimize generation of fugitive dust.</p>	<p>Title I Condition State Implementation Plan for PM10</p>
<p>Moisture Content: greater than or equal to 2 percent leaving the heater. Test at the beginning of each winter season, when operating. Complete testing until three consecutive tests at the stationary source location show moisture contents of greater than 2% after which testing is no longer required until the next winter season.</p>	<p>Title I Condition: State Implementation Plan for PM10</p>
<p>Opacity: less than or equal to 20 percent opacity , this is more stringent than the limit cited in Minn. R. 7011.0610, subp. 1(A)(2).</p>	<p>Title I Condition: State Implementation Plan for PM10</p>

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Aggregate Industries Inc - Yard A

Permit Number: 12300007 - 002

Subject Item: FS 019 Haul Roads

What to do	Why to do it
<p>Water unpaved roads located within the property boundaries of the facility. Watering shall be subject to the following conditions:</p> <p>a. Water application rate shall be at least 0.03 gallons for each square foot at least once every 24 hours.</p> <p>b. 0.1 inch or more rainfall during the past 24 hours shall substitute for one daily water application. This shall be measured either by National Weather Service (St. Paul/Holman Field) data or an on-site rain gauge.</p> <p>c. Water application shall not be required when there is snow cover or the ground is frozen.</p> <p>d. Water application shall not be required when there is no traffic on the roads.</p> <p>e. Following any day when water is not applied based on absence of traffic, water shall be applied within 3 hours of the recommencement of traffic.</p>	<p>Title I Condition: State Implementation Plan for PM10</p>
<p>Recordkeeping (unpaved roads): Maintain a daily log which shall include the following information:</p> <p>a. which roads were watered;</p> <p>b. date and time of watering;</p> <p>c. quantity of water used;</p> <p>d. method of application for each application;</p> <p>e. water tank size, total area of roads to be watered and number of fills necessary to accomplish the required application rate;</p> <p>f. records of watering equipment breakdowns and repairs.</p> <p>If water was not applied because the facility was not in operation, there was no traffic on the roads, was frozen or snow covered, or there was rainfall, the log shall note the reason for no watering. The method of rainfall measurement shall be either National Weather Service (St. Paul/Holman Field) data or an on-site rain gauge.</p>	<p>Title I Condition: State Implementation Plan for PM10; Minn. R. 7007.0800, subp. 5A</p>
<p>To eliminate track-out of mud onto the paved roads, wash the entire concrete exit driveway at least twice per day in non-frozen conditions. These washings shall be recorded in the road watering log.</p>	<p>Title I Condition: State Implementation Plan for PM10</p>
<p>High pressure wash the paved surface of Childs Road (to the side gutters) in front of the facility at least once per day when trucks are hauling from the facility. The washing shall be conducted in both directions to the extent that track-out of sediment from the facility can be seen on Childs Road.</p>	<p>Title I Condition: State Implementation Plan for PM10</p>
<p>Recordkeeping (paved roads): Maintain a daily log which shall state the date and time of washing. If water was not applied because trucks were not hauling, the log shall note the reason for no watering.</p>	<p>Title I Condition: State Implementation Plan for PM10; Minn. R. 7007.0800, subp. 5A</p>