

July 22, 2004

Mr. Gordon Schoonover, President
Zircon Construction, Inc.
P.O. Box 4253
Bismarck, ND 58502-4253

RE: Air Emission Nonmetallic General Permit No. 16700039-002

Dear Mr. Schoonover:

On June 10, 2004, the Minnesota Pollution Control Agency (MPCA) received an administrative amendment that transfers ownership for the Zircon Construction, Inc. (formerly Onyx Construction, Inc.) for your portable facility located at various locations of the state of Minnesota (Facility). According to your submitted information the Facility's name has also been changed from Onyx Construction, Inc., to Zircon Construction, Inc.

The enclosed permit, Air Emission Permit No. 16700039-002, acknowledges the change of your Facility's name and ownership from Onyx Construction, Inc., to Zircon Construction, Inc.

Please read through the general permit and review its conditions and requirements. Distribute the general permit to staff members responsible for ensuring compliance with the conditions and limitations in the permit. If appropriate, post the general permit at each site.

The MPCA air quality regulatory program is funded primarily by fees based on actual emissions to the air, which facility operators report to the MPCA in the annual emission inventory, in accordance with Minn. R. 7002.0005 - 7002.0095. You will receive the emission inventory form in the mail each year.

We appreciate your cooperation and compliance with environmental laws. If you have questions about the permit, please contact me at (651) 282-5848.

Sincerely,

Fereshteh Rahimzadeh
Majors Air and Construction Section
Majors and Remediation Division

FR:lh

Enclosure

cc: AQ File No. 3831NM

NONMETALLIC MINERAL PROCESSING

AIR EMISSION GENERAL PERMIT NO. 03700274-002

ISSUED TO

Zircon Construction, Inc.

**1023 West Avenue B
Bismarck, MN 58501**

This general permit authorizes the Permittee to construct, modify, and operate nonmetallic mineral processing stationary sources at multiple locations in Minnesota under the conditions set forth herein as long as all conditions of this general permit are always met at each stationary source covered by the Permittee's general permit. (Portable crushing spreads or aggregate processing plants in some situations may be stationary sources themselves, or in other situations parts of another stationary source.) If the construction, modification, or operation of a nonmetallic mineral processing stationary source by the Permittee would not comply with all conditions of this general permit, the Permittee must apply for and obtain an individual part 70, state, or registration permit before beginning the actual construction, modification, or operation of the stationary source that would not comply with all conditions of this general permit. The Permittee must also comply with all general conditions listed in Minn. R. 7007.0800, subp. 16. Terms used in this general permit are as defined in the state air quality rules unless the term is explicitly defined in this general permit.

Permit Type: State, General

Issue Date: July 22, 2004

Expiration: Nonexpiring
Title I Conditions do not expire

Ann M. Foss
Major Facilities Section Manager
Majors and Remediation Division

for Sheryl A. Corrigan
Commissioner
Minnesota Pollution Control Agency

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NOTICE TO THE PERMITTEE:

In addition to being subject to the Minnesota Pollution Control Agency's (MPCA) air quality program your nonmetallic mineral processing stationary source(s) may be subject to the requirements of the 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	(612)296-6300
Outside Metro Area	1-800-657-3864
TTY	(612)282-5332

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

TABLE B: SUBMITTALS

07/22/04

Facility Name: Zircon Construction Inc - Nonmetallic
Permit Number: 16700039 - 002

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.

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

Send any application for a permit or permit amendment to:

Permit Technical Advisor
Permit Section
Air Quality Division
Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, Minnesota 55155-4194

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

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

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

Supervisor
Compliance Determination Unit
Air Quality Division
Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, Minnesota 55155-4194

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: RECURRENT SUBMITTALS

07/22/04

Facility Name: Zircon Construction Inc - Nonmetallic

Permit Number: 16700039 - 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 07/01/1997 . The first semiannual report submitted by the Permittee shall cover the calendar half-year in which the permit is issued. The first report of each calendar year covers January 1 - June 30. The second report of each calendar year covers July 1 - December 31.	Total Facility
Compliance Certification	due 30 days after end of each calendar year starting 07/01/1997 (for the previous calendar year). To be submitted on a form approved by the Commissioner. The report covers all deviations experienced during the calendar year.	Total Facility
Emissions Inventory Report	due 91 days after end of each calendar year starting 07/01/1997 (April 1). To be submitted on a form approved by the Commissioner.	Total Facility

PERMIT SHIELD:

Subject to the limitations in Minn. R. 7007.1800, compliance with the conditions of this general permit shall be deemed compliance with any applicable requirements as of the date of permit issuance. The shield shall only have legal effect if:

1. The specific provision of the applicable requirement is identified in the general permit as the basis of permit conditions, or
2. This general permit specifically identifies a requirement as not applicable.

The permit shield is not provided to the following applicable requirements:

1. Any national ambient air quality standards adopted under section 109 of the Clean Air Act or increment or visibility under part C of title I of the Clean Air Act,
2. Any state ambient air quality standard under Minn. R. ch. 7009, or
3. The state noise pollution control rules, Minn. R. ch. 7030.

TABLE A: LIMITS AND OTHER REQUIREMENTS

Table A contains the limits and other requirements with which your nonmetallic mineral processing stationary source(s) must comply. These 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. An appendix is included in your general permit. Unless specifically indicated otherwise, requirements contained in the various parts of the appendix are enforceable conditions of this general permit. The limits and other requirements contained in Table A apply to each nonmetallic mineral processing stationary source constructed, modified, or operated by the Permittee which is covered by this general permit.

Stationary Source: “Stationary source” has the meaning given in Minn. R. 7005.0100, subp. 42c. For there to be a nonmetallic mineral processing stationary source, one or more pieces of processing equipment (such as those listed in Table A.1, namely crushers, screens, transfer operations, etc.) must be present and operational (storage of equipment in an inoperative state does not constitute a stationary source). Stationary sources may contain portable, mobile, and stationary equipment.

Multiple-Party Site: A multiple-party site is a stationary source location where two or more equipment owners or operators operate nonmetallic mineral processing equipment on the same site and there exists a contractual or other similar relationship between them regarding processing of nonmetallic minerals or their nonmetallic mineral processing operations support each other at the site.

At a multiple-party site, the governing permit is the permit held by the nonmetallic mineral processing company that establishes the stationary source and hires others to perform part of the nonmetallic mineral processing there. This company, which is the holder of the governing permit, is the Permittee responsible for the multiple-party site. If you are the Permittee of a stationary source location which is a multiple-party site, you shall require all parties to comply with the provisions of your permit.

Table A.1: Eligibility Requirements

What to do	Why to do it
<p>Emission Units Allowed: Each nonmetallic mineral processing stationary source constructed, modified and operated under this general permit shall consist only of:</p> <ul style="list-style-type: none"> Crushers (subject to the fines crushing production limitation described, below, under “Materials Allowed”) Screens Wet screening operations and associated transfer operations downstream of the wet screening operation in the production line process up to, but not including, the next crusher in the production line of a nonmetallic mineral processing stationary source. A wet screening operation means a screening facility designed and operated to remove unwanted material from the product by a washing process whereby the product is completely saturated with water in a slurry. Transfer operations (including belt conveyors, enclosed truck/railcar loading stations, bucket elevators, storage bins, stackers, ladders, chutes, classification screws, feeders, pneumatic systems, and bagging operations) Internal combustion engines Storage piles Paved and unpaved roads and parking lots Bulldozers, loaders, and other related vehicles Insignificant activities as defined in Minn. R. 7007.1300, subp. 2 and 3 	<p>Minn. Stat. § 116.07, subd. 4a, Minn. R. 7007.0800, subp. 2, and Minn. R. 7007.1100</p>
<p>Emission Units Not Allowed: Although only the emission units listed in “Emission Units Allowed” are allowed under this general permit, the following emission units that are sometimes part of a nonmetallic mineral processing stationary source are specifically not allowed under this general permit: grinding mills, air conveying systems, air separators, air classifiers, calciners, and aggregate heaters/dryers.</p>	<p>Minn. Stat. § 116.07, subd. 4a, Minn. R. 7007.0800, subp. 2, and Minn. R. 7007.1100</p>
<p>Other NSPS Affected Facilities Not Allowed: A nonmetallic mineral processing stationary source constructed, modified, and operated under this general permit shall not contain equipment 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. (This excludes tanks (must be insignificant activities) subject to a recordkeeping requirement under 40 CFR pt. 60, subp. Kb as indicated in Table A.9.)</p>	<p>Minn. Stat. § 116.07, subd. 4a, Minn. R. 7007.0800, subp. 2, and Minn. R. 7007.1100</p>

Table A.1 (Continued)

<p>Materials Allowed: Except as specifically provided below, a nonmetallic mineral processing stationary source constructed, modified, and operated under this general permit may produce or process only:</p> <ul style="list-style-type: none">Crushed and broken limestoneCrushed and broken graniteCrushed and broken stoneConstruction sand and gravelRecycled concreteRecycled asphalt pavementThe initial steps in producing manufactured sand <p>Exceptions:</p> <p>Other - De Minimis Quantities: A de minimis quantity is a quantity of materials, other than those listed above, that may be produced or processed such that the total amount of actual emissions from producing or processing of all de minimis quantities in any calendar year at any stationary source location is less than one ton (i.e., 1 ton/year per site) of Particulate Matter (PM). No pollutants other than PM and Particulate Matter less than 10 microns (PM₁₀) may be emitted as a result of producing or processing the other material, except those emitted from the operation of associated internal combustion engines. Whenever the Permittee produces or processes de minimis quantities of other materials, calculations of the projected and actual PM and PM₁₀ emissions from producing or processing de minimis quantities must be kept by the Permittee along with records of the dates, site, tons of material produced or processed and a description of the material.</p> <p>Fines Crushing: Crushing material to a maximum size of 3/16 inch or smaller in any calendar year at any stationary source location covered by this general permit is limited to less than 50,000 tons (i.e., 50,000 tons/year per site). Whenever the Permittee performs fines crushing, records must be kept by the Permittee indicating the dates, site, and tons of material produced or processed as well as a description of the material. Crushing material to a maximum size of 3/16 inch is referred to in this general permit as "fines crushing." Fines crushing involves the production of manufactured sand and products of a similar size.</p>	<p>Minn. Stat. § 116.07, subd. 4a, Minn. R. 7007.0800, subp. 2, and Minn. R. 7007.1100</p>
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Table A.1 (Continued)

<p>Control Equipment Allowed: A nonmetallic mineral processing stationary source constructed, modified, and operated under this general permit may contain add-on air pollution control equipment to capture and remove air pollutants from process air streams or have equipment located indoors provided that compliance with all emission limits in this general permit is maintained without considering the effect of such controls. Because no prescribed operation and maintenance and recordkeeping is required, reduced emissions due to such add-on control equipment will not be considered when calculating emissions for the annual emissions inventory.</p>	<p>Minn. Stat. § 116.07, subd. 4a, Minn. R. 7007.0800, subp. 2, and Minn. R. 7007.1100</p>
<p>Geographic Areas of Operation Allowed: Under this general permit, provided all conditions are met at all stationary sources, the Permittee is authorized to construct, modify and operate multiple stationary sources simultaneously anywhere in Minnesota except any area designated as nonattainment for PM₁₀. If the Permittee wishes to operate at a location in an area that is or becomes reclassified nonattainment for PM₁₀ after issuance of this general permit, the Permittee must submit an application for an individual part 70, state, or registration permit to cover that location before commencing operation or beginning actual construction or modification of a nonmetallic mineral processing stationary source.</p>	<p>Minn. Stat. § 116.07, subd. 4a, Minn. R. 7007.0800, subp. 2, Minn. R. 7007.0800, subp. 12, and Minn. R. 7007.1100</p>

Table A.2: Overall Requirements that Apply to the Permittee

What to do	Why to do it
<p>Recordkeeping: Retain all records required by this general permit at each stationary source or, at the Permittee's option, the Permittee's central office for a period of five years from the date of monitoring, emission calculations, sampling, measurement, or report. Records which must be retained include all calibration and maintenance records, all original chart recordings for continuous monitoring instrumentation, and copies of all reports and records required by this general permit. Records must conform to the requirements listed in Minn. R. 7007.0800, subp. 5(A).</p>	<p>Minn. R. 7007.0800, subp. 5(A) and 5(C)</p>
<p>Submittals: All submittals required by this general permit must be certified by a responsible official, defined in Minn. R. 7007.0100, subp. 21. Submittals which must be provided on forms approved by the Commissioner are noted in Tables A and B. All submittals must be postmarked or received by the date specified in the tables.</p>	<p>Minn. R. 7007.0800, subp. 6</p>
<p>Submittal Extension Requests. Any extension requests for submittal dates must be postmarked or received at least 21 days prior to the deadline(s) specified in this general permit. The request must explain the reason(s) why the extension is needed, with a separate explanation for each deadline for which an extension is sought. A requested extension will not be effective until approved by the Air Quality Division Manager. The Division Manager will grant an extension only for such period of time as the Division Manager determines is reasonable under the circumstances.</p>	<p>Minn. R. 7007.0800 subp. 16(L)</p>
<p>Oral Notification of Deviations Endangering Human Health and the Environment: Within 24 hours of discovery, orally notify the Commissioner of any deviation from the general permit conditions which could endanger human health or the environment. The telephone number is (612)296-7300.</p>	<p>Minn. R. 7007.0800, subp. 6(A)</p>
<p>Written Notification of Deviations Endangering Human Health and the Environment: Due two days after the discovery of the deviation, submit a written description of the deviation to the Supervisor, Compliance Determination Unit, Air Quality Division, Minnesota Pollution Control Agency, 520 Lafayette Road North, St. Paul, Minnesota 55155-4194, including the following information: 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.</p>	<p>Minn. R. 7007.0800, subp. 6(A)</p>

Table A.2 (Continued)

Shutdowns: Notify the Commissioner, by calling (612)296-7300, 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, by calling (612)296-7300, 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
Semiannual Deviations Reports: A mid-year report, covering deviations which occurred during the period from January 1 through June 30, is due by July 30 of each year. An end-of-year report, covering deviations which occurred during the period from July 1 through December 31, is due by January 30 of each year. <i>The reports must be submitted even if there were no deviations for the reporting period.</i> This is to be submitted on a form approved by the Commissioner.	Minn. R. 7007.0800, subp. 6(A)
Compliance Certification: Due 30 days after the end of each calendar year (January 30) following general permit issuance (for the previous calendar year). To be submitted on a form approved by the Commissioner.	Minn. R. 7007.0800, subp. 6(C)
Emissions Inventory Report: To be submitted annually on a form approved by the Commissioner which will be sent to you each year.	Minn. R. 7019.3000- 7019.3010
Emission Fees: Due 60 days after receipt of an MPCA bill.	Minn. R. 7002.0005- 7002.0095
Inspections: Upon presentation of credentials allow the MPCA, or its representative, to enter the Permittee's premises, to have access to and copy any records required by this general 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)
Circumvention: The Permittee is prohibited from installing or using 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
Performance Testing: Conduct all performance testing in accordance with Minn. R. ch. 7017 unless otherwise noted. The Commissioner may request additional performance testing under Minn. R. 7017.2020, subp. 1.	Minn. R. 7017.2001- 7017.2060

Table A.3: Requirements and Limits that Apply to the Entire Stationary Source

What to do	Why to do it
<p>Material Moisture Content:</p> <p>At each stationary source, the feed material moisture content shall be greater than or equal to 1.5 percent. This shall be demonstrated at each stationary source by either 1 or 2 below:</p> <p>1. Test moisture content of each different feed material source (sampled at an area representative of the feed source and physically capable of being sampled), as follows:</p> <ul style="list-style-type: none"> a. Use American Society for Testing and Materials (ASTM) method numbers D 2216-92 or D 4643-93 (or equivalent). b. Keep records of each moisture content test summarizing the method used, results, date, time, and initials of person performing test. c. Test weekly, when operating, unless three consecutive tests at the stationary source location show moisture contents of greater than or equal to 1.5 percent after which testing is no longer required until the source of the feed material changes. d. When testing indicates that 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 that feed material moisture content is greater than or equal to 1.5 percent. Daily, when operating, 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 (ii) conduct moisture content testing daily on the feed material after water application following a. and b. above, and if results show moisture content is less than 1.5 percent, increase water addition to insure moisture is 1.5 percent or greater and re-test to verify. 	<p>Title I Condition. Limit to avoid classification as major source and modification under 40 CFR § 52.21 and Minn. R. 7007.3000; Limit to avoid major source classification under 40 CFR § 70.2 and Minn. R. 7007.0200; Minn. Stat. § 116.07, subd. 4a, Minn. R. 7007.0800, subp. 2, and Minn. R. 7007.1100</p>

Table A.3 (Continued)

<p><u>OR</u></p> <p>2. Keep records indicating that feed material is being removed from below the water table - or from below the surface of a waterway (e.g., creek, river, lake) - or that the feed material is recycled asphalt pavement. Records shall include a description of the source (if recycled asphalt pavement, so indicate), the corresponding dates, and the initials of the person making the record.</p>	
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Table A.3 (Continued)

<p>Stationary Source Designation and Capacity Limits: Only one option (Small, Medium, or Large) at a time shall apply at each stationary source covered by this general permit. The option that shall apply to a particular stationary source is selected by the Permittee from the Stationary Source Designation Matrix in Appendix I, either Table 1 or Table 2. The option, along with the limit on annual production (throughput), and the limit on the amount of equipment shall be indicated in a New Location Notification submitted by the Permittee as required by this general permit on a form approved by the Commissioner.</p> <p>(Wet screening operations and associated transfer operations downstream of the wet screening operation in the production line process up to, but not including, the next crusher in the production line of a nonmetallic mineral processing stationary source shall not be counted towards the number of units or capacity levels indicated under the three site designation options. A wet screening operation means a screening facility designed and operated to remove unwanted material from the product by a washing process whereby the product is completely saturated with water in a slurry.)</p> <p>To demonstrate compliance with the annual production limit at each stationary source location, the Permittee shall daily record the production, in tons, and monthly calculate and record a 12-month rolling sum (i.e., the current month plus the eleven preceding months). If a stationary source has less than 12 months of operational data, the Permittee shall determine compliance during the first 12 months under this general permit using the following formula:</p> $N = 0.95 \times (\text{Annual Production Limit}) + 0.0045 \times (\text{Annual Production Limit}) \times (n-1)$ <p>Where “n” is the number of months in operation, and “N” is the rolling sum limit for the current month.</p> <p>At its option, the Permittee may calculate and record individual monthly sums, in lieu of 12-month rolling sums, for a stationary source location such that the annual production limit divided by 12 is not exceeded. These calculations and records must be made by the 15th of the following month.</p> <p>(At a multiple-party site, the number of pieces of equipment (Table 1) or the capacity of equipment (Table 2) of all parties operating at the site at the same time shall be added together by the Permittee to determine the stationary source designation and the appropriate non-process dust control option for that site. Likewise, the production of all parties shall be added together by the Permittee to determine compliance with the annual production limit from the Stationary Source Designation Matrix.)</p>	<p>Title I Condition. Limit to avoid classification as major source and modification under 40 CFR § 52.21 and Minn. R. 7007.3000; Limit to avoid major source classification under 40 CFR § 70.2 and Minn. R. 7007.0200; Minn. Stat. § 116.07, subd. 4a, Minn. R. 7007.0800, subp. 2, Minn. R. 7007.1100, and Minn. R. 7011.0150</p>
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Table A.3 (Continued)

<p>Non-Process Dust Control Options:</p> <p>The option (Small, Medium, or Large), and the associated non-process dust control requirements, that shall apply to each stationary source covered by this general permit is selected by the Permittee from the Stationary Source Designation Matrix as described above.</p> <p><u>Small Stationary Source Non-Process Dust Control:</u></p> <p>The Permittee shall comply with the requirements of Minn. R. 7011.0150. This means that all reasonable measures shall be taken to prevent avoidable amounts of particulate matter from becoming airborne. In a practical manner this refers to preventing avoidable visible dust emissions beyond the lot line surrounding the stationary source. Control of non-process dust emissions can be achieved through such measures as applying water or commercially available dust suppressant to stock piles, unpaved roads and handling areas.</p> <p><u>Medium Stationary Source Non-Process Dust Control:</u></p> <p>In addition to the requirements described in the “Small” option, the following requirements apply to the Permittee:</p> <ol style="list-style-type: none">1. Record date and time of action and initials of person making the record.2. Record amount of water or dust suppressant applied.3. If a commercially available dust suppressant is used, it shall be applied in accordance with the manufacturer's guidelines. A copy of these manufacturer's guidelines must be kept by the Permittee.	<p>Title I Condition. Limit to avoid classification as major source and modification under 40 CFR § 52.21 and Minn. R. 7007.3000; Limit to avoid major source classification under 40 CFR § 70.2 and Minn. R. 7007.0200; Minn. Stat. § 116.07, subd. 4a, Minn. R. 7007.0800, subp. 2, Minn. R. 7007.1100, and Minn. R. 7011.0150</p>
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Table A.3 (Continued)

<p>Non-Process Dust Control Options (Continued):</p> <p><u>Large Stationary Source Non-Process Dust Control:</u></p> <p>In addition to the requirements described in the “Small” option, the following requirements apply to the Permittee:</p> <ol style="list-style-type: none">1. Record date and time of action and initials of person making the record.2. Record amount of water or dust suppressant applied.3. If a commercially available dust suppressant is used, it shall be applied in accordance with the manufacturer’s guidelines. 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 in the previous 24 hours for each day of operation at the site.6. Make and record basic weather observations according to the Weather Summary Criteria listed in Appendix I that best characterize each operating day.7. Unpaved roads at the site shall be posted with speed limit signs indicating a maximum speed of 10 miles per hour.8. Equipment to apply water or dust suppressant shall always be available at the site or on call for use at the site within a given operating day.	
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Table A.3 (Continued)

<p>Labeling Requirements: 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 at each stationary source. This number shall correspond to the number contained in records regarding the piece of equipment.</p>	<p>Minn. Stat. § 116.07, subd. 4a, Minn. R. 7007.0800, subp. 2, and Minn. R. 7007.1100</p>
<p>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 shall be used to provide the required NSPS notifications described in Table A.7 and summarized in Table B. All NSPS affected facilities owned or operated by the Permittee at any stationary source covered by this general permit 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. (If you are the Permittee responsible for a stationary source location which is a multiple-party site covered by your general permit, you shall take all reasonable measures to insure that all equipment being operated at the stationary source has met the notification and testing requirements of the NSPS. You are not required to repeat the notices and tests if they have already been done; however, you must be able to indicate where the documentation of the notices and tests can be found (e.g., the Air Quality Division file associated with a company you have hired).)</p>	<p>Minn. Stat. § 116.07, subd. 4a, Minn. R. 7007.0800, subp. 2, and Minn. R. 7007.1100</p>
<p>New Location Notification: Submit a New Location Notification on a form approved by the Commissioner, at least 48 hours prior to each change in location of a stationary source, establishment of a new stationary source location, or change in a capacity/dust control option at an individual stationary source.</p>	<p>Minn. Stat. § 116.07, subd. 4a, Minn. R. 7007.0800, subp. 2, Minn. R. 7007.0800, subp. 12, and Minn. R. 7007.1100</p>
<p>Comply with the source-specific requirements in Appendix I</p>	<p>See Appendix I</p>

Table A.4: Limits that Apply to NSPS Crushers

(Those subject to 40 CFR pt. 60, subp. OOO.)

What to do	Why to do it
Opacity: less than 15 percent opacity.	40 CFR § 60.672(c) and Minn. R. 7011.3350

Table A.5: Limits that Apply to other Equipment Subject to NSPS

(Those subject to 40 CFR pt. 60, subp. OOO. Included here are, screens, belt conveyors, bucket elevators, bagging operations, storage bins, and enclosed truck or railcar loading stations.)

What to do	Why to do it
Opacity: less than 10 percent opacity.	40 CFR § 60.672(b) and Minn. R. 7011.3350

Table A.6: Limits that Apply to Equipment not Subject to NSPS

What to do	Why to do it
Opacity: For equipment put in operation on or after 7/9/69: less than 20 percent opacity. For equipment put in operation before 7/9/69: less than 20 percent opacity except that a maximum of 60 percent opacity shall be permissible for four minutes in any 60-minute period and 40 percent opacity shall be permissible for four additional minutes in any 60-minute period.	Minn. R. 7011.0715, subp. 1(B) Minn. R. 7011.0710, subp. 1(B)

Table A.7: NSPS Notification and Testing Requirements for Equipment Newly Subject to NSPS (Subpart 000) and Submittal Requirements for Replacements

(If you are the Permittee responsible for a stationary source location which is a multiple-party site covered by your general permit you shall take all reasonable measures to insure that all equipment being operated at the stationary source has met these requirements in Table A.7. You are not required to repeat the notices and tests if they have already been done; however, you must be able to indicate where the documentation of the notices and tests can be found (e.g., the Air Quality Division file associated with a company you have hired).)

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 as defined in 40 CFR § 60.2 except for mass-produced (prefabricated) affected facilities.	40 CFR § 60.7(a)(1) and Minn. R. 7019.0100
ANTICIPATED INITIAL STARTUP: Notification of the anticipated initial startup date postmarked no more than 60 days nor less than 30 days prior to such date. Startup is defined in 40 CFR § 60.2.	40 CFR § 60.7(a)(2) and Minn. R. 7019.0100
ACTUAL INITIAL STARTUP: Notification of actual initial startup date postmarked within 15 days after such date.	40 CFR § 60.7(a)(3) and 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 §§ 60.8(a), 60.675, 60.676, Minn. R. 7017.2015, and Minn. R. 7011.3350
PERFORMANCE TEST NOTIFICATION Performance test notification postmarked at least 30 days prior to conducting a performance test.	40 CFR § 60.8(d), and Minn. R. 7017.2015
REPLACEMENT: Notification postmarked within 60 days after making the replacement.	40 CFR §§ 60.670(d), 60.676, and Minn. R. 7011.3350

Table A.8: Requirements and Limits that Apply to Stationary Internal Combustion Engines at Each Stationary Source

(This includes electric generators as well as other stationary internal combustion engines (e.g., those which directly drive crushers or screens), but does not include mobile sources, such as loaders, haul trucks and other vehicles.)

What to do	Why to do it
<p>Allowed Fuels: Diesel fuel, natural gas, liquefied petroleum gas (LPG)/propane, and gasoline, subject to the limitation described below. No other fuels shall be used.</p> <p>For each stationary source location covered by this general permit, the Permittee shall monthly record the amount of each fuel used during the previous month and do the calculation on the Stationary Internal Combustion Engines Fuel Use form (NM-EN) in Appendix I by the 15th of the following month. The Permittee may elect to make and record this calculation in a different format, but it must include the same information.</p> <p>(At a multiple-party site, the fuel used by all parties operating at the site at the same time shall be added together by the Permittee to determine compliance for that site.)</p>	<p>Title I Condition. Limit to avoid classification as major source and modification under 40 CFR § 52.21 and Minn. R. 7007.3000; limit to avoid major source classification under 40 CFR § 70.2 and Minn. R. 7007.0200; to ensure compliance with Minn. R. 7011.2300, subp. 2; Minn. Stat. § 116.07, subd. 4a, Minn. R. 7007.0800, subp. 2, and Minn. R. 7007.1100</p>
<p>Opacity: not to exceed 20 percent opacity for more than ten consecutive seconds once operating temperatures have been obtained.</p>	<p>Minn. R. 7011.2300, subp. 1</p>

Table A.9: Limits and Requirements that Apply to Volatile Organic Liquid Storage Tanks (Must be Insignificant Activities) Which are Subject to 40 CFR pt. 60, subp. Kb

Tanks *subject* to 40 CFR pt. 60, subp. Kb include those meeting both of the following requirements:

- storage capacity is greater than or equal to 40 m³ (10,568 gallons); **and**
- tank construction, reconstruction, or modification commenced after July 23, 1984.

(If you are the Permittee responsible for a stationary source location which is a multiple-party site covered by your general permit, you shall take all reasonable measures to insure that all subject tanks meet these requirements in Table A.9. You are not required to repeat the recordkeeping requirement if it has already been met.)

What to do	Why to do it
Tank size: Any volatile organic liquid storage tank constructed, reconstructed, or modified after July 23, 1984, must have a design capacity less than 75 m ³ (19,815 gallons)	Minn. Stat. § 116.07, subd. 4a, Minn. R. 7007.0800, subp. 2, and Minn. R. 7007.1100
Records: For each tank, keep records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. Retain records for the life of the tank.	40 CFR §§ 60.116b(b) and 60.116b(a), and Minn. R. 7011.1520(C)

TABLE B: SUBMITTALS

Table B lists the submittals you must send to the Commissioner. Send all submittals (unless specifically instructed otherwise) to: Supervisor, Compliance Determination Unit, Air Quality Division, Minnesota Pollution Control Agency, 520 Lafayette Road North, St. Paul, Minnesota 55155-4194.

When to send	What to send	What is affected
At least 48 hours prior to each change in location of a stationary source, establishment of a new stationary source location, or a change in capacity/dust control option at an individual stationary source	New Location Notification on a form approved by the Commissioner	Each stationary source to be covered by your general permit
No later than 30 days after such date	NSPS Equipment Description and Notification on a form approved by the Commissioner Notifying commencement of construction (defined in 40 CFR § 60.2)	Equipment newly subject to NSPS except for mass-produced (i.e., prefabricated) facilities
No more than 60 days nor less than 30 days prior to such date	NSPS Equipment Description and Notification on a form approved by the Commissioner Notifying anticipated date of initial startup	Equipment newly subject to NSPS
Within 15 days after such date	NSPS Equipment Description and Notification on a form approved by the Commissioner Notifying initial startup date	Equipment newly subject to NSPS
Within 60 days after making the replacement	NSPS Equipment Description and Notification on a form approved by the Commissioner Notifying equipment replacement (With information required in 40 CFR § 60.676 attached)	An existing facility (piece of equipment not subject to NSPS) being replaced by a piece of equipment of equal or smaller size or capacity

Table B (Continued)

At least 30 days before performance test date	Test Plan on a form approved by the Commissioner along with NSPS Equipment Description and Notification on a form approved by the Commissioner Notifying performance test	Affected facility as defined in 40 CFR § 60.676 and any other equipment required to be tested
Required only if requested	Pre-test meeting	Affected facility as defined in 40 CFR § 60.676 and any other equipment required to be tested
Within 45 days after performance test date	Test report	Equipment tested
Within 105 days after performance test date	Microfiche test report	Equipment tested
Semiannually: July 30, covering January 1 through June 30, and January 30, covering July 1 through December 31	Semiannual Deviations Reporting on a form approved by the Commissioner with a summary of <i>all</i> instances of deviations from permit conditions (or indicating none occurred). Submit the end-of-year report with your annual Compliance Certification	All stationary sources covered by your general permit (A single form indicating information for stationary sources covered by this general permit during the reporting period)
Annually, by January 30 for the previous calendar year	Compliance Certification on a form approved by the Commissioner	All stationary sources covered by your general permit (A single form indicating information for stationary sources covered by this general permit during the reporting period)

Table B (Continued)

Annually, by April 1 for the previous calendar year	Emissions inventory report A form will be sent for you to complete and return	All stationary sources covered by your general permit (A single form indicating information for stationary sources covered by this general permit during the reporting period)
Annually, within 60 days of receipt of an MPCA bill	Emission fees	All stationary sources covered by your general permit (A single payment for stationary sources covered by this general permit during the period)
Within 24 hours of discovery	Oral notification of deviation endangering human health or the environment By calling (612)296-7300	Each stationary source covered by your general permit
Within 2 days of discovery	Written description of deviation endangering human health or the environment	Each stationary source covered by your general permit
At least 24 hours before a shutdown of process or control equipment if it would cause an increase in the emission of air contaminants and again when the shutdown is over	Shutdown notification By calling (612)296-7300	Each stationary source covered by your general permit
Immediately for 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 and again when the breakdown is over	Breakdown notification By calling (612)296-7300	Each stationary source covered by your general permit
At least 21 days prior to the deadline for which an extension is being requested	Submittal extension request	Varies

APPENDIX I: SOURCE-SPECIFIC REQUIREMENTS

Stationary Source Designation Matrix

Stationary Internal Combustion Engines Fuel Use

Weather Summary Criteria

NONMETALLIC MINERAL PROCESSING GENERAL PERMIT, STATIONARY SOURCE DESIGNATION MATRIX

TABLE 1 - Annual Production versus Numbers of Units

Number of Units			Stationary Source Annual Production (tons) - Up to:								
Crushers	Screens	Transfer Operations	1,000,000 <u>Qualifies as:</u>	1,250,000	1,500,000	1,750,000	2,000,000	2,250,000	2,500,000	2,750,000	3,000,000
1	1	10	small	small	small	medium	medium	medium	medium	medium	large
2	2	20	small	small	small	medium	medium	medium	large	large	large
3	3	30	small	small	medium	medium	medium	large	large	large	not allowed
4	4	40	small	small	medium	medium	large	large	not allowed	not allowed	not allowed
5	5	50	small	medium	medium	large	large	not allowed	not allowed	not allowed	not allowed
6	6	60	small	medium	medium	large	not allowed	not allowed	not allowed	not allowed	not allowed
7	7	70	small	medium	large	not allowed	not allowed	not allowed	not allowed	not allowed	not allowed
8	8	80	medium	medium	large	not allowed	not allowed	not allowed	not allowed	not allowed	not allowed

Stationary sources, using Table 1, with over 3,000,000 tons per year throughput or with more than 8 crushers, 8 screens or 80 transfer operations are not allowed under this general permit. Not allowed (in both Tables 1 and 2) means not authorized by this general permit.

TABLE 2 - Annual Production versus In-Place Capacity

Cumulative In-Place Capacity (tph)			Stationary Source Annual Production (tons) - Up to:								
Crushers	Screens	Transfer Operations	1,000,000 <u>Qualifies as:</u>	1,250,000	1,500,000	1,750,000	2,000,000	2,250,000	2,500,000	2,750,000	3,000,000
750	750	7,500	small	small	medium	medium	medium	large	large	large	not allowed
1,250	1,250	12,500	medium	medium	medium	medium	large	large	not allowed	not allowed	not allowed
2,500	2,500	25,000	large	large	large	large	large	not allowed	not allowed	not allowed	not allowed

Stationary sources, using Table 2, with cumulative capacities above 2,500 tons per hour (tph) for crushers or for screens or above 25,000 tph for transfer operations are not allowed under this general permit.

If Table 2 is used for determining the stationary source designation, in order to demonstrate compliance with the cumulative capacity limitation, the Permittee must keep an up-to-date record (e.g., a site plan or process flow diagram) showing the cumulative in-place capacity of each equipment type at the stationary source. This record does not need to identify specific unique identifying numbers for pieces of equipment. It may be generic in nature, but must be sufficiently detailed to determine the cumulative capacity of all equipment types at the stationary source.



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

CALCULATION FORM **NM-EN**
STATIONARY INTERNAL
COMBUSTION ENGINES
FUEL USE
General Permit
Nonmetallic Mineral Processing

- 1) AQD File No.: _____
- 2) AQD Permit No.: _____
- 3) Company Name: _____
- 4) Stationary Source Name/Location: _____
- 5) _____ Dates of period covered by calculation _____
- 6) Printed name of person recording calculation: _____
- 7) Date (must be done by 15th of following month): _____

Fuel Type	Amount Burned in Previous 12-Month Period at Stationary Source Location *	Units	Multiplying Factor	Subtotal
Diesel Fuel	_____	Gallons	x 2.35 ÷ 10,000	_____
Natural Gas	_____	Cubic Feet	x 1.70 ÷ 1,000,000	_____
Liquefied Petroleum Gas (LPG) / Propane	_____	Gallons	x 6.95 ÷ 100,000	_____
Gasoline	_____	Gallons	x 2.00 ÷ 1,000	_____
Calculation Total	(Sum subtotals)		Must be less than 100 *	_____

* If a stationary source has less than 12 months of operational data, the Permittee shall determine compliance during the first 12 months under this general permit using the following formula:

$$N = 0.95 \times (\text{Annual Limit}) \\ + 0.0045 \times (\text{Annual Limit}) \times (n-1)$$

Where "n" is the number of months in operation, and "N" is the rolling sum limit for the current month.

At its option, the Permittee may calculate and record individual monthly sums, in lieu of 12-month rolling sums, for a stationary source location such that the annual production limit divided by 12 is not exceeded. Also at its option, if only one fuel is used, the Permittee may record and sum the quantity of fuel used directly, in which case the annual limits are as follows: 420,000 gallons for diesel fuel, 58 million cubic feet for natural gas, 1.4 million gallons for propane, and 50,000 gallons for gasoline.

**WEATHER SUMMARY CRITERIA
FOR
LARGE STATIONARY SOURCE NON-PROCESS DUST CONTROL OPTION
NONMETALLIC MINERAL PROCESSING GENERAL PERMIT**

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: The 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-Strm	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.