



**Minnesota Pollution  
Control Agency**

520 Lafayette Road  
St. Paul, MN 55155-4194

# Sand & Gravel Compliance Audit

Subpart 000 NonMetallic Aggregate Mining  
Standards for Particulate Matter and Opacity  
Environmental Audits

Minnesota Pollution Control Agency (MPCA) compliance audit checklists are designed to assist businesses and MPCA staff with the interpretation of Minnesota's environmental laws and rules. Because the laws and rules are numerous and often complicated, this checklist cannot be a complete guide to all your compliance obligations. If you have questions about the checklist, your obligations, or its conditions that you discover as you complete this evaluation, please contact:

Small Business Environmental Assistance Program (SBEAP)  
651-282-6143 or 1-800-657-3938  
<http://www.pca.state.mn.us/programs/sbap-sectors.html>

## Nonmetallic Air Permit

Date of Audit: \_\_\_\_\_

Company Name: \_\_\_\_\_

Authorized  
Representative Name: \_\_\_\_\_ Title: \_\_\_\_\_

## Air Emission Discharge Limits - NSPS, Subpart 000

Once the performance test(s) required to be conducted at each transfer point on affected belt conveyors is completed, you cannot discharge into the atmosphere any stack emissions which:

- (1) contain particulate matter in excess of 0.05 g/dscm (0.022 gr/dscf); and
- (2) exhibit greater than seven percent opacity using Method 9.

**1. Are you in compliance with both the particulate matter and opacity limits following your most recent performance tests?**

- ☐ **YES** We are in compliance with both the particulate matter and opacity limits following our most recent performance tests. Continue on to the next question.
- ☐ **NO** We are not in compliance with the particulate matter and/or opacity limits following our most recent performance tests. *This is a deviation and must be recorded on a DRF-2 form.* Continue on to the next question.

Sixty days but not later than 180 days after initial startup and after achieving your maximum production rate, you are subject to the provisions of Subpart 000 and cannot discharge into the atmosphere from any transfer point on belt conveyors any fugitive emissions which exhibit greater than ten percent opacity.

**2. Do you discharge into the atmosphere from any transfer point on your belt conveyors any fugitive emissions which exhibit greater than ten percent opacity?**

- ☐ **YES** We do discharge into the atmosphere from one or more transfer points on our belt conveyors fugitive emissions which exhibit greater than ten percent opacity? *This is a deviation and must be recorded on a DRF-2 form.* Continue on to the next question
- ☐ **NO** We do not discharge into the atmosphere from one or more transfer points on our belt conveyors fugitive emissions which exhibit greater than ten percent opacity. Continue on to the next section.

Sixty days, but not later than 180 days, after initial startup and after achieving your maximum production rate you are subject to the provisions of Subpart OOO and cannot discharge into the atmosphere from any crusher, at which a capture system is not used, fugitive emissions which exhibit greater than 15 percent opacity.

**3. Do you discharge into the atmosphere from any crusher, at which a capture system is not used, fugitive emissions which exhibit greater than 15 percent opacity?**

- ☐ **YES** We do discharge into the atmosphere from our crusher fugitive emissions which exhibit greater than 15 percent opacity. *This is a deviation and must be recorded on a DRF-2 form.* Continue on to the next question
- ☐ **NO** We do not discharge into the atmosphere from our crusher fugitive emissions which exhibit greater than 15 percent opacity. Continue on to the next section.

**NOTE:** Truck dumping of nonmetallic minerals (aggregate) into any screening operation, feed hopper, or crusher is exempt from the requirements of this section.

If any transfer point on a conveyor belt is enclosed in a building, then each enclosed affected facility must comply with the emission limits established above.

**NOTE:** Although visible fugitive emissions from a building vent are exempt, you cannot discharge from any enclosed building vent from any transfer point on a conveyor belt particulate emissions which exceed the Subpart OOO stack emissions limit of 0.05 g/dscm (0.022 gr/dscf) described above.

**4. Do you discharge from your enclosed building vent transfer point on a conveyor belt particulate emissions which exceed the Subpart OOO stack emissions limit of 0.05 g/dscm (0.022 gr/dscf) as described above?**

- ☐ **YES** We do emit particulate emissions from our enclosed building vent transfer points that exceed Subpart OOO stack emissions limit of 0.05 g/dscm (0.022 gr/dscf) as described above. *This is a deviation and must be recorded on a DRF-2 form.* Continue on to the next question.
- ☐ **NO** We do not emit particulate emissions from our enclosed building vent transfer points that exceed Subpart OOO stack emissions limit of 0.05 g/dscm (0.022 gr/dscf) as described above. Continue on to the next question.

On and after the sixtieth day after achieving your maximum aggregate production rate, but not later than 180 days after initial startup, you cannot cause to be discharged into the atmosphere from any baghouse that controls emissions from only an individual enclosed storage bin, stack emissions which exhibit greater than seven percent opacity.

**5. Do you discharge into the atmosphere from any baghouse that controls emissions from only an individual enclosed storage bin, stack emissions which exhibit greater than seven percent opacity?**

- ☐ **YES** We do discharge into the atmosphere from a baghouse that controls emissions from an individual enclosed storage bin, stack emissions which exhibit greater than seven percent opacity. *This is a deviation and must be recorded on a DRF-2 form.* Continue on to the next question.
- ☐ **NO** We do not discharge into the atmosphere from a baghouse that controls emissions from an individual enclosed storage bin, stack emissions which exhibit greater than seven percent opacity. Continue on to the next question.

If you have multiple storage bins with combined stack emissions you must comply with the Subpart OOO emission limits of 0.05 g/dscm (0.022 gr/dscf) and seven percent opacity as described above.

**6. Do you have multiple storage bins with combined stack emissions and comply with the Subpart OOO emission limits of 0.05 g/dscm (0.022 gr/dscf) and seven percent opacity as described above?**

- ☐ **YES** We do have multiple storage bins with combined stack emissions and do comply with the Subpart OOO emission limits of 0.05 g/dscm (0.022 gr/dscf) and seven percent opacity as required above. Continue on to the next question.
- ☐ **NO** We do have multiple storage bins with combined stack emissions but do not comply with the Subpart OOO emission limits of 0.05 g/dscm (0.022 gr/dscf) and seven percent opacity as required above. *This is a deviation and must be recorded on a DRF-2 form.* Continue on to the next question.

On and after the sixtieth day after achieving your maximum production rate, but not later than 180 days after initial startup, you must not discharge into the atmosphere **any** visible emissions from any screening operations, bucket elevators, and belt conveyors that process saturated material in the production line up to the next crusher, grinding mill or storage bin.

**7. Do you discharge into the atmosphere any visible emissions from your screening operations, bucket elevators, and belt conveyors that process saturated material in the production line up to the next crusher, grinding mill, or storage bin?**

- ☐ **YES** We do discharge into the atmosphere visible emissions from our screening operations, bucket elevators, and/or belt conveyors that process saturated material in the production line up to the next crusher, grinding mill, or storage bin. *This is a deviation and must be recorded on a DRF-2 form.* Continue on to the next question.
- ☐ **NO** We do not discharge into the atmosphere any visible emissions from our screening operations, bucket elevators, and/or belt conveyors that process saturated material in the production line up to the next crusher, grinding mill, or storage bin. Continue on to the next question.

On and after the sixtieth day after achieving your maximum production rate, but not later than 180 days after initial startup, you must not discharge into the atmosphere **any** visible emissions from any screening operations, bucket elevators, and belt conveyors in the production line **downstream** of wet mining operations, where these operations process saturated materials up to the first crusher, grinding mill, or storage bin in the production line.

**8. Do you discharge into the atmosphere any visible emissions from any screening operations, bucket elevators, and belt conveyors in the production line downstream of wet mining operations, where these operations process saturated materials up to the first crusher, grinding mill, or storage bin in the production line?**

- ☐ **YES** We do discharge into the atmosphere visible emissions from any screening operations, bucket elevators, and belt conveyors in the production line **downstream** of wet mining operations, where these operations process saturated materials up to the first crusher, grinding mill, or storage bin in the production line. *This is a deviation and must be recorded on a DRF-2 form.* You've completed this checklist.
- ☐ **NO** We do not discharge into the atmosphere any visible emissions from any screening operations, bucket elevators, and belt conveyors in the production line **downstream** of wet mining operations, where these operations process saturated materials up to the first crusher, grinding mill, or storage bin in the production line. You've completed this checklist.

## Subpart 000--Standards of Performance for Nonmetallic Mineral Processing Plants

### ***Minn. Stat. § 60.670 Applicability and designation of affected facility.***

*Source: 51 FR 31337, Aug. 1, 1985, unless otherwise noted.*

*(a)(1) Except as provided in paragraphs (a)(2), (b), (c), and (d) of this section, the provisions of this subpart are applicable to the following affected facilities in fixed or portable nonmetallic mineral processing plants: each crusher, grinding mill, screening operation, bucket elevator, belt conveyor, bagging operation, storage bin, enclosed truck or railcar loading station. Also, crushers and grinding mills at hot mix asphalt facilities that*

*reduce the size of nonmetallic minerals embedded in recycled asphalt pavement and subsequent affected facilities up to, but not including, the first storage silo or bin are subject to the provisions of this subpart.*

*(2) The provisions of this subpart do not apply to the following operations: All facilities located in underground mines; and stand-alone screening operations at plants without crushers or grinding mills.*

*(b) An affected facility that is subject to the provisions of subpart F or I or that follows in the plant process any facility subject to the provisions of subparts F or I of this part is not subject to the provisions of this subpart.*

*(c) Facilities at the following plants are not subject to the provisions of this subpart:*

*(1) Fixed sand and gravel plants and crushed stone plants with capacities, as defined in Sec. 60.671, of 23 megagrams per hour (25 tons per hour) or less;*

*(2) Portable sand and gravel plants and crushed stone plants with capacities, as defined in Sec. 60.671, of 136 megagrams per hour (150 tons per hour) or less; and*

*(3) Common clay plants and pumice plants with capacities, as defined in Sec. 60.671, of 9 megagrams per hour (10 tons per hour) or less.*

(d)(1) When an existing facility is replaced by a piece of equipment of equal or smaller size, as defined in Sec. 60.671, having the same function as the existing facility, the new facility is exempt from the provisions of Secs. 60.672, 60.674, and 60.675 except as provided for in paragraph (d)(3) of this section.

(2) An owner or operator complying with paragraph (d)(1) of this section shall submit the information required in Sec. 60.676(a).

(3) An owner or operator replacing all existing facilities in a production line with new facilities does not qualify for the exemption described in paragraph (d)(1) of this section and must comply with the provisions of Secs. 60.672, 60.674 and 60.675.

(e) An affected facility under paragraph (a) of this section that commences construction, reconstruction, or modification after August 31, 1983 is subject to the requirements of this part.

(f) Table 1 of this subpart specifies the provisions of subpart A of this part 60 that apply and those that do not apply to owners and operators of affected facilities subject to this subpart.

#### **Minn. Stat. § 60.672 Standard for particulate matter.**

(a) On and after the date on which the performance test required to be conducted by §60.8 is completed, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any transfer point on belt conveyors or from any other affected facility any stack emissions which:

(1) Contain particulate matter in excess of 0.05 g/dscm (0.022 gr/dscf); and

(2) Exhibit greater than 7 percent opacity, unless the stack emissions are discharged from an affected facility using a wet scrubbing control device. Facilities using a wet scrubber must comply with the reporting provisions of §60.676 (c), (d), and (e).

(b) On and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup as required under §60.11 of this part, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any transfer point on belt conveyors or from any other affected facility any fugitive emissions which exhibit greater than 10 percent opacity, except as provided in paragraphs (c), (d), and (e) of this section.

(c) On and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup as required under §60.11 of this part, no owner or operator shall cause to be discharged into the atmosphere from any crusher, at which a capture system is not used, fugitive emissions which exhibit greater than 15 percent opacity.

(d) Truck dumping of nonmetallic minerals into any screening operation, feed hopper, or crusher is exempt from the requirements of this section.

(e) If any transfer point on a conveyor belt or any other affected facility is enclosed in a building, then each enclosed affected facility must comply with the emission limits in paragraphs (a), (b) and (c) of this section, or the building enclosing the affected facility or facilities must comply with the following emission limits:

(1) No owner or operator shall cause to be discharged into the atmosphere from any building enclosing any transfer point on a conveyor belt or any other affected facility any visible fugitive emissions except emissions from a vent as defined in §60.671.

(2) No owner or operator shall cause to be discharged into the atmosphere from any vent of any building enclosing any transfer point on a conveyor belt or any other affected facility emissions which exceed the stack emissions limits in paragraph (a) of this section.

(f) On and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup as required under §60.11 of this part, no owner or operator shall cause to be discharged into the atmosphere from any baghouse that controls emissions from only an individual, enclosed storage bin, stack emissions which exhibit greater than 7 percent opacity.

(g) Owners or operators of multiple storage bins with combined stack emissions shall comply with the emission limits in paragraph (a)(1) and (a)(2) of this section.

(h) On and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup, no owner or operator shall cause to be discharged into the atmosphere any visible emissions from:

(1) Wet screening operations and subsequent screening operations, bucket elevators, and belt conveyors that process saturated material in the production line up to the next crusher, grinding mill or storage bin.

(2) Screening operations, bucket elevators, and belt conveyors in the production line downstream of wet mining operations, where such screening operations, bucket elevators, and belt conveyors process saturated materials up to the first crusher, grinding mill, or storage bin in the production line.

[51 FR 31337, Aug. 1, 1985, as amended at 62 FR 31359, June 9, 1997; 65 FR 61778, Oct. 17, 2000]