Pollution Control Agency

Adopted Permanent Rules Relating to Exempt Sources and Conditionally Insignificant Activities

The rules proposed and published at State Register, Volume 42, Number 43, pages 1223-1253, April 23, 2018 (42 SR 1223), are adopted with the following modifications:

7005.0100 DEFINITIONS.

Subp. 11g. Hood. "Hood" has the meaning given in part 7011.0060, subpart 3e.

[For text of subps 12 to 45 44, see M.R.]

Subp. 44a. Total enclosure. "Total enclosure" has the meaning given in part 7011.0060, subpart 5.

[For text of subp 45, see M.R.]

7007.1250 INSIGNIFICANT MODIFICATIONS.

Subpart 1. When an insignificant modification can be made. The permittee may make a modification described in either item A or B at a permitted stationary source without getting a permit amendment, unless the modification is prohibited by subpart 2. However, if the modification triggers new monitoring, record keeping, or reporting requirements under applicable requirements or parts 7007.0100 to 7007.1850, the permittee shall initiate an administrative amendment under part 7007.1400 to include the new requirements no more than 30 days after making the modification.

A. Construction or operation of any emissions unit, or undertaking any activity, that is on the insignificant activities list in part 7007.1300, subparts 2 and 3:

(1) listed as an insignificant activity in part 7007.1300, subpart 2 or 3; or

(2) a conditionally insignificant activity that complies with parts 7008.4000 to 7008.4110.

[For text of item B, see M.R.]
7007.1300 INSIGNIFICANT ACTIVITIES LIST.

Subp. 2. Insignificant activities not required to be listed. The emissions units described in this subpart are not required to be listed in a permit application under part 7007.0500, subpart 2, item C, subitem (2), except as required under subpart 1, item D.

D. Processing operations:

(5) handheld equipment used for buffing, polishing, carving, cutting, drilling, machining, routing, sanding, sawing, surface grinding, or turning; and, provided that the equipment is:

(a) handheld; or

(b) infrequently used and not associated with the primary production processes at the stationary source; and

E. Storage tanks:

(5) storage tanks holding inorganic liquids, including water, except for acids that volatilize HAPs and VOCs.

Subp. 3. Insignificant activities required to be listed. The emissions units described in this subpart must be listed in a permit application.

E. Miscellaneous: brazing, soldering, torch-cutting, or welding equipment.

7008.0100 DEFINITIONS.

Subp. 10. Mechanical finishing operations. "Mechanical finishing operations" means buffing, abrasive blasting, polishing, carving, cutting, drilling, machining, routing, sanding, sawing, surface grinding, or turning equipment, but does not include abrasive blasting for removing lead-containing paint.
Subp. 18. **Woodworking facility.** "Woodworking facility" means a stationary source that manufacturers, finishes, refinishes, and restores parts or products primarily made of wood, but including incidental use of other materials such as metal, plastic, or ceramic.

7008.2300 **AUTO-BODY REFINISHING; TECHNICAL STANDARDS.**

Subpart 1. **Eligibility.**

C. The owner or operator of an auto-body refinishing facility must:

1. purchase or use less than 2,000 gallons of coating and cleaning materials, combined, each calendar year; or

2. limit VOC and HAP emissions from coating and cleaning activities in each calendar year to less than the thresholds in this subitem, calculated according to the methods in subpart 4:

   a. VOC emissions - 20,000 pounds per calendar year; and

   b. total HAP emissions - 12,000 pounds per calendar year.

Subp. 2. **Operational requirements.** The owner or operator of an auto-body refinishing facility must:

A. ensure all painters are trained in proper spray application of surface coatings and proper setup and maintenance of spray equipment. Each painter must be trained no later than 180 days after hiring and every five years after the date previous training was completed;

B. ensure spray-painting operations, excluding those done by spray guns with three ounces or less cup capacity and aerosol or pump spray containers with 16 ounces or less capacity, are completed inside a particulate-control system that is designed to confine and direct paint overspray, fumes, and vapors to a powered ventilation system and is equipped with either dry filtration or a water-wash system to capture paint overspray;
C. operate and maintain spray-painting application equipment, exhaust filtration systems, and spray booths according to the manufacturer's specification;

Subp. 3. **Record keeping.**

A. The owner or operator of an auto-body refinishing facility must maintain:

1. a record of inspection, maintenance, and repair activities for the spray-painting equipment, exhaust filtration systems, and spray booths; and

2. a record of the number of gallons of coating and cleaning materials purchased or used for each calendar year; and

3. if the owner or operator ships waste material from coating and cleaning activities off-site for recycling, records of the gallons of material shipped off-site for recycling.

B. The owner or operator of an auto-body refinishing facility that chooses to comply with the VOC and HAP emission limits in subpart 1, item C, subitem (2), must maintain:

1. records for each calendar year of the maximum VOC content of each coating and cleaning material;

2. records for each calendar year of the maximum HAP content of each coating and cleaning material; and

3. a record of the safety data sheet (SDS) or a signed statement from the supplier stating the maximum VOC content and the maximum HAP content for each coating and cleaning material.

B: C. For purposes of this part, "recycling" means reclamation or reuse, as defined in part 7045.0020, of a coating or cleaning material. If the owner or operator ships waste material from coating and cleaning activities off-site for recycling.
(1) the gallons of material recycled may be subtracted from the amount of combined coating and cleaning materials used. For purposes of this item, "recycling" means reclamation or reuse, as defined in part 7045.0020, of a coating or cleaning material. If the gallons of material recycled is subtracted from the amount of combined coating and cleaning materials used, the owner or operator must keep records of the gallons of material shipped off-site for recycling and the calculations done to determine the amount to subtract; or

(2) the pounds of VOC and HAP recycled may be subtracted from the amount of VOC and HAP calculated as allowed in subpart 4. If the pounds of VOC and HAP recycled is subtracted from the amount of VOC and HAP calculated in subpart 4, the owner or operator must keep records of the amount of coating and cleaning materials shipped off-site for recycling, the VOC and HAP content of coating and cleaning materials shipped off-site for recycling, and the calculations done to determine the amount of VOC and HAP to subtract. Acceptable records include safety data sheets, invoices, shipping papers, and hazardous waste manifests.

C. D. The owner or operator must comply with the requirements for monitoring, record keeping, and reporting in Code of Federal Regulations, title 40, part 63, subpart HHHHHH, as applicable.

Subp. 4. Calculating emissions. The owner or operator of an auto-body refinishing facility that chooses to comply with the VOC and HAP emission limits in subpart 1, item C, subitem (2), must calculate VOC and HAP emissions using the methods in items A and B.

A. The owner or operator must calculate VOC emissions using a method in subitem (1) or (2). If the owner or operator ships waste material from coating or cleaning activities off-site for recycling, the amount of VOC recycled may be subtracted from the amount of VOC calculated in subitem (1) or (2):
(1) pounds of VOC emissions per calendar year equal gallons of
VOC-containing material purchased or used in a calendar year multiplied by the pounds of
VOC per gallon; or

(2) pounds of VOC emissions per calendar year equal pounds of
VOC-containing material purchased or used in a calendar year multiplied by weight percent
of VOC.

B. The owner or operator must calculate total HAP emissions using a method in
subitem (1) or (2). If the owner or operator ships waste material from coating or cleaning
activities off-site for recycling, the amount of HAP recycled may be subtracted from the
amount of total HAP calculated in subitem (1) or (2):

(1) pounds of HAP emissions per calendar year equal gallons of
HAP-containing material purchased or used in a calendar year multiplied by the pounds of
HAP per gallon; or

(2) pounds of HAP emissions per calendar year equal pounds of
HAP-containing material purchased or used in a calendar year multiplied by weight percent
of HAP.

Subp. 45. Notification.

B. The owner or operator of an auto-body refinishing facility not described in
item A must notify the commissioner in a format specified by the commissioner within 90
120 days after the effective date of this part or within 90 120 days after beginning to operate
an auto-body refinishing facility.

C. The notification required under this subpart must contain:

(4) the number of gallons of coating and cleaning materials purchased or used
in the last calendar year or, if the facility is not completed has not been in operation for one
calendar year, the anticipated number of gallons of coating and cleaning materials to be purchased or used.

7.3 **7008.2400  COATING FACILITY; TECHNICAL STANDARDS.**

Subpart 1. **Eligibility.**

B. Coating must account for substantially all emissions from the coating facility. All other emissions from the coating facility stationary source must be from insignificant activities under part 7007.1300, subpart 2 or 3, or conditionally insignificant activities that comply with parts 7008.4000 and 7008.4110, or both.

C. The owner or operator of a coating facility must:

1. purchase or use less than 2,000 gallons of coating and cleaning materials, combined, each calendar year; or

2. limit VOC and HAP emissions from coating and cleaning activities in each calendar year to less than the thresholds in this subitem, calculated according to the methods in subpart 4:

   a. VOC emissions - 20,000 pounds per calendar year; and

   b. total HAP emissions - 12,000 pounds per calendar year.

Subp. 2. **Operational requirements.** The owner or operator of a coating facility must:

A. ensure all painters are trained in proper spray application of surface coatings and proper setup and maintenance of spray equipment. Each painter must be trained no later than 180 days after hiring and every five years after the date previous training was completed;

B. ensure spray-painting operations, excluding those done by spray guns with three ounces or less cup capacity and aerosol or pump spray containers with 16 ounces or less capacity, are completed inside a particulate-control system that is designed to confine
and direct paint overspray, fumes, and vapors to a powered ventilation system and is equipped with either dry filtration or a water-wash system to capture paint overspray;

C. operate and maintain spray-painting application equipment, exhaust filtration systems, and spray booths according to the manufacturer's specification;

Subp. 3. **Record keeping.**

A. The owner or operator of a coating facility must maintain:

(2) a record of inspection, maintenance, and repair activities for the spray-painting application equipment, exhaust filtration systems, and spray booths; and

(3) a record of the number of gallons of coating and cleaning materials purchased or used for each calendar year; and

(4) if the owner or operator ships waste material from coating and cleaning activities off-site for recycling, records of the gallons of material shipped off-site for recycling.

B. The owner or operator of a coating facility that chooses to comply with the VOC and HAP emission limits in subpart 1, item C, subitem (2), must maintain:

(1) records for each calendar year of the maximum VOC content of each coating and cleaning material;

(2) records for each calendar year of the maximum HAP content of each coating and cleaning material; and

(3) a record of the safety data sheet (SDS) or a signed statement from the supplier stating the maximum VOC content and the maximum HAP content for each coating and cleaning material.
B. C. For purposes of this part, "recycling" means reclamation or reuse, as defined in part 7045.0020, of a coating or cleaning material. If the owner or operator ships waste material from coating and cleaning activities off-site for recycling:

(1) the gallons of material recycled may be subtracted from the amount of combined coating and cleaning materials used. For purposes of this item, "recycling" means reclamation or reuse, as defined in part 7045.0020, of a coating or cleaning material. If the gallons of material recycled is subtracted from the amount of combined coating and cleaning materials used, the owner or operator must keep records of the gallons of material shipped off-site for recycling and the calculations done to determine the amount to subtract; or

(2) the pounds of VOC and HAP recycled may be subtracted from the amount of VOC and HAP calculated as allowed in subpart 4. If the pounds of VOC and HAP recycled is subtracted from the amount of VOC and HAP calculated in subpart 4, the owner or operator must keep records of the amount of coating and cleaning materials shipped off-site for recycling, the VOC and HAP content of coating and cleaning materials shipped off-site for recycling, and the calculations done to determine the amount of VOC and HAP to subtract. Acceptable records include safety data sheets, invoices, shipping papers, and hazardous waste manifests.

C. D. The owner or operator must comply with the requirements for monitoring, record keeping, and reporting in Code of Federal Regulations, title 40, part 63, subpart HHHHHH, as applicable.

Subp. 4. Calculating emissions. The owner or operator of a coating facility that chooses to comply with the VOC and HAP emission limits in subpart 1, item C, subitem (2), must calculate VOC and HAP emissions using the methods in items A and B.

A. The owner or operator must calculate VOC emissions using a method in subitem (1) or (2). If the owner or operator ships waste material from coating or cleaning activities
off-site for recycling, the amount of VOC recycled may be subtracted from the amount of VOC calculated in subitem (1) or (2):

(1) pounds of VOC emissions per calendar year equal gallons of VOC-containing material purchased or used in a calendar year multiplied by the pounds of VOC per gallon; or

(2) pounds of VOC emissions per calendar year equal pounds of VOC-containing material purchased or used in a calendar year multiplied by weight percent of VOC.

B. The owner or operator must calculate total HAP emissions using a method in subitem (1) or (2). If the owner or operator ships waste material from coating or cleaning activities off-site for recycling, the amount of HAP recycled may be subtracted from the amount of total HAP calculated in subitem (1) or (2):

(1) pounds of HAP emissions per calendar year equal gallons of HAP-containing material purchased or used in a calendar year multiplied by the pounds of HAP per gallon; or

(2) pounds of HAP emissions per calendar year equal pounds of HAP-containing material purchased or used in a calendar year multiplied by weight percent of HAP.

Subp. 4 5. Notification.

B. The owner or operator of a coating facility not described in item A must notify the commissioner in a format specified by the commissioner within 90 120 days after the effective date of this part or within 90 120 days after beginning to operate a coating facility.

C. The notification required under this subpart must contain:
(4) the number of gallons of coating and cleaning materials purchased or used in the last calendar year or, if the facility is not completed has not been in operation for one calendar year, the anticipated number of gallons of coating and cleaning materials to be purchased or used.

7008.2500 WOODWORKING FACILITY; TECHNICAL STANDARDS.

Subpart 1. Eligibility.

B. Equipment for manufacturing, mechanical finishing and refinishing, and restoring wood products and ovens for curing or drying wood products must account for substantially all the emissions from the woodworking facility. All other emissions from the stationary source must be from insignificant activities under part 7007.1300, subpart 2 or 3, or conditionally insignificant activities that comply with parts 7008.4000 and 7008.4100, or both.

C. All other emissions from the woodworking facility must be from insignificant activities under part 7007.1300, subpart 2 or 3, or conditionally insignificant activities that comply with parts 7008.4000 and 7008.4100, or both. The combined total heat input capacity of all fuel-burning ovens for curing or drying wood products must be less than or equal to 25,000,000 Btu per hour.

D. The owner or operator must limit emissions of particulate matter from all wood-product manufacturing, mechanical finishing and refinishing, and restoring equipment to less than 40,000 pounds per calendar year, calculated according to the method in subpart 5, or limit the aggregate exhaust airflow rate from all wood-product manufacturing, mechanical finishing and refinishing, and restoring equipment to less than or equal to:

   (1) 177,000 standard cubic feet per minute if all emissions from wood-product manufacturing, mechanical finishing and refinishing, and restoring equipment are vented to control equipment through a total enclosure; or
12.1 (2) 80,000 standard cubic feet per minute if all emissions from wood-product manufacturing, mechanical finishing and refinishing, and restoring equipment are vented to control equipment through a certified hood or total enclosure.

Subp. 2. **Operational requirements.** The owner or operator of a woodworking facility must:

A. ensure that equipment for manufacturing, mechanical finishing and refinishing, and restoring wood products vents emissions to control equipment meeting the requirements in subpart 3 at all times the equipment is operating;

D. when emissions are vented externally, check the control-equipment exhaust for any visible emissions once each day of operation during daylight hours except during inclement weather. If visible emissions are observed for longer than six minutes, the owner or operator must:

   (2) take corrective actions, including repairing or replacing control-equipment components when necessary; and

E. inspect the control equipment once each calendar quarter or more frequently according to the manufacturer's specification.; and

F. perform the hood evaluation in subpart 4, item D, if the owner or operator:

   (1) chooses to comply with the requirements in subpart 1, item D, subitem (2); or

   (2) uses the certified hood values in subpart 5.

Subp. 3. **Control requirements.** The owner or operator of a woodworking facility must comply with the applicable requirements for control equipment in items A to C.

A. The owner or operator of a woodworking facility must comply with the applicable requirement for control equipment in items B to F. The owner or operator of a
woodworking facility that chooses to comply with the emission limit for particulate matter in subpart 1, item D, must install, operate, and maintain control equipment designed to control emissions of particulate matter on all wood-product manufacturing, mechanical finishing and refinishing, and restoring equipment.

B. The owner or operator of a woodworking facility that chooses to comply with the requirements in subpart 1, item D, subitem (1), must ensure all emissions from wood-product manufacturing, mechanical finishing and refinishing, and restoring equipment are vented to control equipment through a total enclosure and must:

B. (1) if the aggregate exhaust airflow rate from all wood-product manufacturing, mechanical finishing and refinishing, and restoring equipment is less than or equal to 17,000 standard cubic feet per minute, the owner or operator of a woodworking facility must install, operate, and maintain control equipment designed to emit particulate matter in a concentration less than or equal to 0.03 grains per standard cubic foot of exhaust gas on all wood-product manufacturing, mechanical finishing and refinishing, and restoring equipment.

C. (2) if the aggregate exhaust airflow rate from all wood-product manufacturing, mechanical finishing and refinishing, and restoring equipment is greater than 17,000 standard cubic feet per minute but and less than or equal to 26,000 standard cubic feet per minute, the owner or operator of a woodworking facility must install, operate, and maintain control equipment designed to emit particulate matter in a concentration less than or equal to 0.02 grains per standard cubic foot of exhaust gas on all wood-product manufacturing, mechanical finishing and refinishing, and restoring equipment.

D. (3) if the aggregate exhaust airflow rate from all wood-product manufacturing, mechanical finishing and refinishing, and restoring equipment is greater than 26,000 standard cubic feet per minute but and less than or equal to 53,000 standard cubic feet per minute, the owner or operator of a woodworking facility must install, operate, and maintain control equipment designed to emit particulate matter in a concentration less than or equal to 0.01
grains per standard cubic foot of exhaust gas on all wood-product manufacturing, mechanical finishing and refinishing, and restoring equipment:  

E. (4) if the aggregate exhaust airflow rate from all wood-product manufacturing, mechanical finishing and refinishing, and restoring equipment is greater than 53,000 standard cubic feet per minute but and less than or equal to 106,000 standard cubic feet per minute, the owner or operator of a woodworking facility must install, operate, and maintain control equipment designed to emit particulate matter in a concentration less than or equal to 0.005 grains per standard cubic foot of exhaust gas on all wood-product manufacturing, mechanical finishing and refinishing, and restoring equipment; or

E. (5) if the aggregate exhaust airflow rate from all wood-product manufacturing, mechanical finishing and refinishing, and restoring equipment is greater than 106,000 standard cubic feet per minute but and less than or equal to 177,000 standard cubic feet per minute, the owner or operator of a woodworking facility must install, operate, and maintain control equipment designed to emit particulate matter in a concentration less than or equal to 0.003 grains per standard cubic foot of exhaust gas on all wood-product manufacturing, mechanical finishing and refinishing, and restoring equipment.

C. The owner or operator of a woodworking facility that chooses to comply with the requirements in subpart 1, item D, subitem (2), must ensure all emissions from wood-product manufacturing, mechanical finishing and refinishing, and restoring equipment are vented to control equipment through a certified hood or total enclosure and must:

(1) if the aggregate exhaust airflow rate from all wood-product manufacturing, mechanical finishing and refinishing, and restoring equipment is less than or equal to 8,000 standard cubic feet per minute, install, operate, and maintain control equipment designed to emit particulate matter in a concentration less than or equal to 0.03 grains per standard cubic foot of exhaust gas on all wood-product manufacturing, mechanical finishing and refinishing, and restoring equipment:
(2) if the aggregate exhaust airflow rate from all wood-product manufacturing, mechanical finishing and refinishing, and restoring equipment is greater than 8,000 standard cubic feet per minute and less than or equal to 12,000 standard cubic feet per minute, install, operate, and maintain control equipment designed to emit particulate matter in a concentration less than or equal to 0.02 grains per standard cubic foot of exhaust gas on all wood-product manufacturing, mechanical finishing and refinishing, and restoring equipment;

(3) if the aggregate exhaust airflow rate from all wood-product manufacturing, mechanical finishing and refinishing, and restoring equipment is greater than 12,000 standard cubic feet per minute and less than or equal to 24,000 standard cubic feet per minute, install, operate, and maintain control equipment designed to emit particulate matter in a concentration less than or equal to 0.01 grains per standard cubic foot of exhaust gas on all wood-product manufacturing, mechanical finishing and refinishing, and restoring equipment;

(4) if the aggregate exhaust airflow rate from all wood-product manufacturing, mechanical finishing and refinishing, and restoring equipment is greater than 24,000 standard cubic feet per minute and less than or equal to 48,000 standard cubic feet per minute, install, operate, and maintain control equipment designed to emit particulate matter in a concentration less than or equal to 0.005 grains per standard cubic foot of exhaust gas on all wood-product manufacturing, mechanical finishing and refinishing, and restoring equipment; or

(5) if the aggregate exhaust airflow rate from all wood-product manufacturing, mechanical finishing and refinishing, and restoring equipment is greater than 48,000 standard cubic feet per minute and less than or equal to 80,000 standard cubic feet per minute, install, operate, and maintain control equipment designed to emit particulate matter in a concentration less than or equal to 0.003 grains per standard cubic foot of exhaust gas on all wood-product manufacturing, mechanical finishing and refinishing, and restoring equipment.

Subp. 4. Record keeping. The owner or operator of a woodworking facility must maintain:
A. must maintain a record of inspection, maintenance, and repair activities performed pursuant to the manufacturer's specifications for the control equipment;

B. records for each calendar year of must maintain a written list of all wood-product manufacturing, mechanical finishing and refinishing, and restoring equipment and ovens for curing or drying wood products on site that contains:

(1) the design airflow rate from the control equipment associated with each wood-product manufacturing, mechanical finishing and refinishing, and restoring equipment;

(2) the manufacturer's design particulate matter concentration from each control equipment installed;

(3) if the manufacturer's design particulate matter concentration is not used for the calculation method in subpart 5, the default concentration value used for each control equipment installed; and

(4) the heat input capacity of each fuel-burning oven used for curing or drying wood products.

C. records for each calendar year of the manufacturer's design particulate matter concentration from each control equipment installed; and

D. must maintain records of the date and time of each visible emission check and whether or not any visible emissions were observed;

E. if the owner or operator chooses to comply with the emission limit for particulate matter in subpart 1, item D, must maintain records for each calendar year of the hours operated for the control equipment associated with each wood-product manufacturing, mechanical finishing and refinishing, and restoring equipment; and

E. if the emissions from wood-product manufacturing, mechanical finishing and refinishing, and restoring equipment are vented to the control equipment through a hood.
may evaluate, on a form provided by the commissioner, whether the hood conforms to the
design and operating practices recommended in "Industrial Ventilation - A Manual of
Recommended Practice, American Conference of Governmental Industrial Hygienists."
The manual is incorporated by reference under part 7011.0061. An owner or operator that
performs this evaluation must:

(1) maintain at the stationary source records of the evaluation of each hood
and certification required in part 7011.0072, subpart 2; and

(2) record each month the fan rotation speed, fan power draw, face velocity,
or other comparable airflow indicator for each hood.

Subp. 5. Calculating emissions of particulate matter. The owner or operator that
chooses to comply with the emission limit for particulate matter in subpart 1, item D, must
calculate emissions of particulate matter from each wood-product manufacturing, mechanical
finishing and refinishing, and restoring equipment according to the following equations:

\[ E = E_C + E_U \]

\[ E_C = \text{OP} \times \text{EF} \times Q_{\text{Air}} \times (1 \text{ lb/7,000 grains}) \times (60 \text{ minutes/1 hour}) \]

\[ E_U = R \times E_C \]

Where:

E = actual emissions from the wood-product manufacturing, mechanical
finishing and refinishing, or restoring equipment, in pounds per calendar year.

\[ E_C = \text{actual emissions from the control equipment, in pounds per calendar year.} \]

\[ E_U = \text{actual emissions that are uncaptured by the control equipment, in pounds per calendar year.} \]

\[ \text{OP} = \text{hours of operations of the control equipment per calendar year.} \]
EF = design concentration for particulate matter from the control equipment, in grains per standard cubic foot, but if the manufacturer's design value is unknown, then the default value is 0.07 grains per standard cubic foot for cyclones or 0.03 grains per standard cubic foot for fabric filters.

Q_{Air} = design airflow rate from the control equipment, in standard cubic feet per minute.

R = the ratio of emissions that are uncaptured by the control equipment to the emissions that are captured and controlled by the control equipment. When emissions are captured through a total enclosure and vented to any type of control equipment, the value of R is 0. When emissions are captured through a certified hood, the value of R is 3.57 when vented to a fabric filter or 1.14 when vented to a cyclone or other type of control equipment. When emissions are captured through an uncertified hood, the value of R is 14.29 when vented to a fabric filter or 4.54 when vented to a cyclone or other type of control equipment.


B. The owner or operator of a woodworking facility not described in item A must notify the commissioner in a format specified by the commissioner within 90 days after the effective date of this part or within 90 days after beginning to operate a woodworking facility.

C. The notification required under this subpart must contain:

(4) the manufacturer's design particulate matter concentration and airflow rate from each control equipment installed or, if the facility has not been in operation for one calendar year, the anticipated manufacturer's design particulate matter concentration and airflow rate from each control equipment.
**19.1 7008.4100 CONDITIONALLY INSIGNIFICANT ACTIVITY; MATERIAL USAGE.**

Subp. 4. **Calculating VOC emissions.** An owner or operator claiming material usage as a conditionally insignificant activity must calculate VOC emissions using one of the methods in item A or B. If the owner or operator ships waste material from material usage activities off-site for recycling, the amount of VOC recycled may be subtracted from the amount of VOC calculated in item A or B:

B. pounds of VOC emissions per calendar year equal pounds of VOC-containing material purchased or used in a calendar year multiplied by weight percent of VOC per gallon.

Subp. 5. **Calculating particulate matter emissions.**

A. An owner or operator claiming material usage as a conditionally insignificant activity must calculate particulate matter emissions using one of the following methods:

(2) pounds of particulate matter emissions per calendar year equal pounds of solids-containing material purchased or used in a calendar year multiplied by weight percent of solids per gallon.

**19.16 7008.4110 CONDITIONALLY INSIGNIFICANT ACTIVITY; MECHANICAL FINISHING OPERATIONS.**

Subpart 1. **Applicability.** This part applies to the owner or operator of a stationary source claiming mechanical finishing operations that emit only particulate matter as a conditionally insignificant activity. To qualify as a conditionally insignificant activity under this part, all mechanical finishing operations at the stationary source must be included in the limits under subpart 2. If lead is a component of any mechanical finishing operation at the stationary source, this part does not apply. All particulate matter is considered filterable particulate matter under this part.
Subp. 2. Requirements. The owner or operator of a stationary source claiming mechanical finishing operations as a conditionally insignificant activity must:

A. install, operate, and maintain control equipment designed to control emissions of particulate matter on the mechanical finishing operations; and

B. limit emissions of particulate matter from all mechanical finishing operations to less than 10,000 pounds in each calendar year, calculated according to the method in subpart 4. All emissions of particulate matter from all mechanical finishing operations at the stationary source must be accounted for in the annual calculation.

Subp. 3. Monitoring and record keeping. The owner or operator of a stationary source claiming mechanical finishing operations as a conditionally insignificant activity must:

A. must operate the control equipment as required by the manufacturer's specification and part 7008.0200, item D;

B. must inspect the control equipment once each calendar quarter or more frequently according to the manufacturer's specification;

C. must maintain the control equipment according to the manufacturer's specification;

D. must maintain a record of inspection, maintenance, and repair activities and the manufacturer's inspection, maintenance, and repair specifications for the control equipment for at least five years;

E. must maintain records for each calendar year of the hours operated for the control equipment associated with each mechanical finishing operation;

F. must maintain records for each calendar year of the design airflow rate from the control equipment associated with each mechanical finishing operation; and
G. if the default value is not used, must maintain records for each calendar year of the manufacturer's design concentration for particulate matter from the control equipment associated with each mechanical finishing operation; and

H. if the emissions from mechanical finishing operations are vented to the control equipment through a hood, may evaluate, on a form provided by the commissioner, whether the hood conforms to the design and operating practices recommended in "Industrial Ventilation - A Manual of Recommended Practice, American Conference of Governmental Industrial Hygienists," in order to use the certified hood values in subpart 4. The manual is incorporated by reference under part 7011.0061. An owner or operator that performs this evaluation must:

(1) if a permit is required under chapter 7007, include with the permit application the certification required in part 7011.0072, subpart 2;

(2) maintain at the stationary source records of the evaluation of each hood;

and

(3) record each month the fan rotation speed, fan power draw, face velocity, or other comparable airflow indicator for each hood.

Subp. 4. Calculating emissions of particulate matter. The owner or operator claiming mechanical finishing operations as a conditionally insignificant activity must calculate emissions of particulate matter from each control equipment mechanical finishing operation according to the following equation:

\[ E = E_C + E_U \]

\[ E_C = OP \times EF \times Q_{Air} \times (1 \text{ lb}/7,000 \text{ grains}) \times (60 \text{ minutes}/1 \text{ hour}) \]

\[ E_U = R \times E_C \]

Where:
E = actual emissions from the mechanical finishing operation, in pounds per calendar year.

\[ E = \text{actual emissions from the control equipment, in pounds per calendar year.} \]

\[ E_1 = \text{actual emissions that are uncaptured by the control equipment, in pounds per calendar year.} \]

OP = hours of operations of the control equipment per calendar year.

EF = design concentration for particulate matter from the control equipment, in grains per standard cubic foot, but if the manufacturer's design value is unknown, then the default value is 0.07 grains per standard cubic foot for cyclones or 0.03 grains per standard cubic foot for fabric filters.

\[ Q_{\text{Air}} = \text{design airflow rate from the control equipment, in standard cubic feet per minute.} \]

R = the ratio of emissions that are uncaptured by the control equipment to the emissions that are captured and controlled by the control equipment. When emissions are captured through a total enclosure and vented to any type of control equipment, the value of R is 0. When emissions are captured through a certified hood, the value of R is 3.57 when vented to a fabric filter or 1.14 when vented to a cyclone or other type of control equipment. When emissions are captured through an uncertified hood, the value of R is 14.29 when vented to a fabric filter or 4.54 when vented to a cyclone or other type of control equipment.