

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

**RULE 1137 -- PM10 EMISSION REDUCTIONS FROM WOODWORKING OPERATIONS**

*(Adopted February 1, 2002)*

**(a) Purpose**

The purpose of this rule is to reduce PM10 emissions from woodworking operations.

**(b) Applicability**

This rule applies to any woodworking facility that uses a pneumatic conveyance system to collect particulate matter from woodworking equipment.

**(c) Definitions**

For the purpose of this rule, the following definitions shall apply:

- (1) BAGHOUSE SYSTEM means a baghouse, cartridge filter, or a cyclone followed by an after filter, installed and connected to a pneumatic conveyance system.
- (2) CUBIC FEET PER MINUTE is calculated by multiplying the air velocity by the cross sectional area of the ductwork.
- (3) EMISSION CONTROL DEVICE is a combination of capture systems(s) and control equipment used to reduce, eliminate or control the release of particulate matter from a pneumatic conveyance system to the atmosphere (i.e., cyclone, baghouse, misting system, etc.).
- (4) EXISTING WOODWORKING FACILITY means a woodworking facility in existence prior to July 1, 2002.
- (5) NEW OR EXPANDED PNEUMATIC CONVEYANCE SYSTEM means a separate pneumatic conveyance system constructed on or after July 1, 2002 or changes made to an existing conveyance system on or after July 1, 2002 that increase the cubic feet per minute of an existing pneumatic conveyance system by more than 20 percent over the design capacity of the system in existence as of July 1, 2002.
- (6) NEW OR EXPANDED WOODWORKING FACILITY means any woodworking facility not in existence before July 1, 2002 or any existing

woodworking facility that installs a new or expanded pneumatic conveyance system on or after July 1, 2002.

- (7) OPERATOR is any person who operates a facility subject to the requirements of this rule.
- (8) PNEUMATIC CONVEYANCE SYSTEM means an arrangement of devices such as hoods, ductwork, storage bins and fan(s) to collect particulate matter-laden air from the process area and direct it to the atmosphere.
- (9) SAWDUST EMISSIONS are minute particles of wood formed by the sawing, sanding, shaping, and/or drilling of wood.
- (10) STAND ALONE EMISSION CONTROL DEVICE means a capture system connected directly to woodworking equipment and vented to an attached bag or by tubing to a container located inside an enclosed building within a woodworking facility.
- (11) WASTE DISPOSAL ACTIVITIES involve the movement of sawdust emissions from a sawdust storage bin to another container or haul vehicle, and excludes the initial disconnection of an enclosure or shroud system from the sawdust storage bin.
- (12) WOODWORKING EQUIPMENT includes, but is not limited to, rip saws, panel saws, cut-off saws, matchers, stickers, grinders, moulders, planers, jointers, CNC routers, spindle sanders, drum sanders, edge sanders, tenoners, mortisers, groovers, borers, and dovetailers.
- (13) WOODWORKING FACILITY is any facility with woodworking equipment or groups of woodworking equipment used in the production of wood products to be sold or wood products to be improved or altered for profit, that are located on one or more contiguous properties within the District, in actual physical contact or separated solely by a public roadway or other public right-of-way, and are owned or operated by the same person (or by persons under common control). Examples of woodworking facilities include, but are not limited to, lumbermills, furniture manufacturers, planing mills, furniture refinishing shops, cabinet shops, sash and door manufacturers, and carpenter shops. Examples of wood products include, but are not limited to, goods

manufactured from plywood, particleboard, medium-density fiberboard, pine, oak, cedar, alder, and all other species of wood.

**(d) Requirements**

- (1) On or after July 1, 2002, an operator of an existing woodworking facility shall not remove any baghouse system unless it is replaced with the same type of emission control device.
- (2) On or after January 1, 2004, an operator of an existing woodworking facility shall not operate any equipment, activity or operation connected to a pneumatic conveyance system unless the sawdust emissions are completely vented to an emission control device in operation such that there are no visible emissions exiting from external ductwork and the emission control device at any time, other than the initial 15 minutes after start up or the final 15 minutes prior to shutdown.
- (3) On or after July 1, 2002, an operator of a new or expanded woodworking facility shall:
  - (A) completely vent the sawdust emissions from its new or expanded pneumatic conveyance system to a baghouse system; and
  - (B) operate the baghouse system such that there are no visible emissions exiting from external ductwork and the baghouse system at any time, other than the initial 15 minutes after start up or the final 15 minutes prior to shutdown; and
  - (C) operate and maintain the baghouse system in accordance with manufacturer specifications.
- (4) On or after July 1, 2002, any operator of a woodworking facility with a pneumatic conveyance system shall not operate unless the sawdust emissions are reduced through an enclosure or shroud connected from the emission control device to the waste storage bin so that there are no visible emissions at any time, other than the initial 15 minutes after start up or the final 15 minutes prior to shutdown.
- (5) On or after July 1, 2002, any operator of a woodworking facility with a pneumatic conveyance system shall cover sawdust storage bins at all times

except during the initial disconnection from the enclosure or shroud and during waste disposal activities.

- (6) On or after July 1, 2002, any operator of a woodworking facility with a pneumatic conveyance system shall not cause visible emissions from waste disposal activities to cross any property line by taking measures, as necessary, such as, but not limited to, use of water or disposal bags, or prohibition of on-site waste transfer activities.

**(e) Reporting Schedule**

- (1) No later than July 1, 2002, the operator of an existing woodworking facility subject to this rule shall submit all of the following to the Executive Officer and retain a copy on-site and make said copy available upon request:
  - (A) Operator's name and contact information;
  - (B) Type of operation (i.e., lumberyard, cabinet/furniture manufacturer, etc.);
  - (C) Fan(s) diameter;
  - (D) Fan(s) horsepower;
  - (E) Description of emission control device(s), including but not limited to:
    - (i) Type and model of equipment (i.e., cyclone, cyclone with after filter, cartridge collector, vacuum collection bag, industrial high-efficiency baghouse, etc); and
    - (ii) Diameter of cyclone outlet (if applicable).
  - (F) Estimate of sawdust generated per month; and
  - (G) Description of sawdust disposal procedures.
- (2) Within 90 days of operation of a new or expanded woodworking facility, the information required in paragraph (e)(1) shall be submitted to the Executive Officer and a copy retained on-site and made available upon request.

**(f) Exemptions**

- (1) The requirements of subdivision (d) and (e) shall not apply to the following:
  - (A) Woodworking equipment that vents solely to a stand alone emission control device or into an enclosed room.

- (B) Woodworking equipment used in demonstrations that last less than 30 consecutive days at one location.
- (2) The requirements of paragraph (d)(6) shall not apply when maximum instantaneous wind gusts exceed 25 miles per hour, provided that the operator applies water to the entire surface area after opening the sawdust storage bin prior to initiating waste disposal activities.