

EMISSIONS ACTIVITY CATEGORY FORM WOODWORKING OPERATIONS

This form is to be completed for each woodworking operation. State/Federal regulations which may apply to woodworking operations are listed in the instructions. Note that there may be other regulations which apply to this emissions unit which are not included in this list.

Note: This emissions activity category (EAC) form does not include roadways and parking areas, storage piles, and other fugitive dust emissions units that have a specific EAC form for such units. Therefore, additional EAC forms for those emissions units may need to be submitted.

1. Reason this form is being submitted (Check one)

- New Permit Renewal or Modification of Air Permit Number(s) (e.g. F001)_____

2. Maximum Operating Schedule: _____ hours per day; _____ days per year

If the schedule is less than 24 hours/day or 365 days/year, what limits the schedule to less than maximum? See instructions for examples. _____

3. Identification of fugitive dust emissions units:

<u>Check Those Emissions Units Present</u>	<u>Fugitive Dust Emissions Units</u>	<u>How many?</u>
<input type="checkbox"/>	Log debarking (sawmills)	_____
<input type="checkbox"/>	Sawing (sawmills)	_____
<input type="checkbox"/>	Machining, see # 4 below	_____
<input type="checkbox"/>	Wood waste storage bin vent	_____
<input type="checkbox"/>	Wood waste storage bin loadout	_____
<input type="checkbox"/>	Other (describe): _____	_____
	_____	_____

4. Woodworking machining operations conducted (check all that apply):

- | | | |
|-----------------------------------|-----------------------------------|--|
| <input type="checkbox"/> sawing | <input type="checkbox"/> moulding | <input type="checkbox"/> sanding |
| <input type="checkbox"/> carving | <input type="checkbox"/> hogging | <input type="checkbox"/> routing |
| <input type="checkbox"/> planing | <input type="checkbox"/> latheing | <input type="checkbox"/> other (describe): |
| <input type="checkbox"/> chipping | <input type="checkbox"/> drilling | _____ |

5. Type of woodworking industry:

- sawmill
- hardboard plant

- plywood plant
- particle board plant

- furniture manufacturing plant
 - other (describe):
-

6. Process data:

Process Operation	Maximum rate (tons/hour)	Maximum rate (tons/year)
Log debarking, describe: <input type="checkbox"/> wet <input type="checkbox"/> dry		
Sawing		
Other machining		
Wood waste generated		

7. Wood waste storage bin process data:

Storage bin ID	Method of loading storage bin	Maximum load-in rate (tons/hour)	Maximum load-in rate (tons/year)	Maximum load-out rate (tons/hour)	Maximum load-out rate (tons/year)

8. Control methods to be used for fugitive dust emissions from woodworking operations:

	Capture Method	% Capture Efficiency	Control Method	% Control Efficiency
Log debarking (sawmills)			<input type="checkbox"/> vent to fabric filter <input type="checkbox"/> wet suppression <input type="checkbox"/> enclosure <input type="checkbox"/> other, describe	
Sawing (sawmills)			<input type="checkbox"/> vent to fabric filter <input type="checkbox"/> wet suppression <input type="checkbox"/> enclosure <input type="checkbox"/> other, describe	
Wood waste storage bin vent			<input type="checkbox"/> vent to fabric filter <input type="checkbox"/> passive filter <input type="checkbox"/> other, describe	
Wood waste storage bin loadout			<input type="checkbox"/> telescopic tubes <input type="checkbox"/> wet suppression <input type="checkbox"/> enclosure <input type="checkbox"/> other, describe	
Machining			<input type="checkbox"/> vent to fabric filter <input type="checkbox"/> enclosure <input type="checkbox"/> other, describe	
Other:				

9. Details for wet suppression systems

	Year Installed	Material Used (wetting agent)	Application Point(s)	Application Rate (gal./ton processed)
Log debarking				
Sawing				
Storage bin loadout				
Other:				

INSTRUCTIONS FOR COMPLETION OF THE EMISSIONS ACTIVITY CATEGORY FORM FOR WOODWORKING OPERATIONS

GENERAL INSTRUCTIONS:

Provide complete responses to all applicable questions. If an item does not apply to the emissions unit, write in "Not Applicable" or "NA." If the answer is not known, write in "Not Known" or "NK." If you need assistance in understanding a question after reading the instructions below, contact your Ohio EPA District Office or Local Air Agency for assistance. Submittal of an incomplete application will delay application review and processing. In addition, the application may be returned as incomplete if all applicable questions are not answered appropriately.

APPLICABLE REGULATIONS:

The following State and Federal Regulations may be applicable to woodworking operations. Note that there may be other regulations which apply to this emissions unit which are not included in this list.

Federal: 40 CFR 60, (NSPS)
40 CFR 63, (MACT)

State: OAC rule 3745-31-02 (Permit to Install)
OAC rule 3745-35-02 (Permit to Operate)
OAC rule 3745-17-07, -08, -11 (Particulate Emission Rules)

If you would like a copy of these regulations, contact your Ohio EPA District Office or Local Air Agency. State regulations may also be viewed and downloaded from the Ohio EPA website at <http://www.epa.state.oh.us/dapc/regs/regs.html>. Federal regulations may be viewed and downloaded at <http://www.epa.gov/docs/epacfr40/chapt-I.info/subch-C.htm>.

CALCULATING EMISSIONS:

Manufacturers of some types of emissions units and most types of control equipment develop emissions estimates or have stack test data which you can request. Stack testing of the emissions may be done. Emissions unit sampling test data may be either for this emissions unit or a similar one located at the facility or elsewhere. You may develop your own emission factors by mass balance or other knowledge of your process, if you can quantify inputs and outputs accurately. You may be able to do this on a small scale or over a short period of time, if it is not practical during regular production. If you have control equipment, you may be able to quantify the amount of pollutants collected over a known time period or production amount. Any emission factor calculation should include a reference to the origin of the emission factor or control efficiency.

The emissions from woodworking operations may be estimated using the information from Chapter 10 (Wood Products Industry) of AP-42, Compilation of Air Pollutant Emission Factors, Fifth Edition, Volume I, available from the following website: <http://www.epa.gov/ttn/chief/ap42/index.html>.

SPECIFIC INSTRUCTIONS:

1. Indicate whether this is an application for a new permit or an application for permit renewal. If applying for a permit renewal, provide the 4-character OEPA emissions unit identification number.
2. Provide the maximum number of hours per day and days per year the woodworking operation is

expected to operate. The following are examples of why the maximum number of hours per day may be less than 24 or the maximum number of days per year may be less than 365 (this list is not all-inclusive):

- The facility can only operate during daylight hours.
- The process can only operate within a certain range of ambient temperatures.
- The process is limited by another operation (i.e., a bottleneck).

3. This emissions activity category ("EAC") form is to be used for certain operations at woodworking facilities which emit fugitive dust. Typical emissions units to be included on this form are listed in item # 3. "Sawing (sawmills)" refers to sawing logs. Sawing lumber is included in "Machining".

Please do not include on this form fugitive dust emissions units such as roadways and parking areas and storage piles, which have other EAC forms prepared for them. Any other fugitive dust emissions unit that does not have a specific EAC form should be entered on this form under "other (describe)".

Paragraph (B)(6) of OAC Rule 3745-17-01 defines "fugitive dust" as "...particulate matter which is, or was prior to the installation of control equipment, emitted from any source by means other than a stack." Several emissions units at woodworking facilities emit particulate matter in such fashion, and the requirements of OAC Rules 3745-17-07(B) (Visible particulate emission limitations for fugitive dust) and 3745-17-08 (Restriction of emissions of fugitive dust) may be applicable.

Identify the fugitive dust emissions units at the facility by placing a check mark in the appropriate block adjacent to the respective emissions unit type. If there are other fugitive dust emissions units at the facility which were not specifically listed in item # 3 and do not have other applicable emission activity category forms, please identify such emissions unit(s) in the section marked "Other (describe)". The "OEPA Emissions Unit ID" column may be left blank if such information is not known.

4. Indicate all of the woodworking operations conducted at this facility by checking the appropriate boxes. Additional air pollution emitting sources may be listed under "other".
6. Enter the maximum amount of wood processed per hour and per year by debarking, sawing and other machining operations. Enter the total amount of wood waste generated by all machining operations. The amount of wood waste generated does not need to be estimated for sawmills.
8. For each operation identified elsewhere in this form, describe how the emissions are captured and estimate the percentage of emissions which are captured. Also describe how the emissions are controlled and estimate the percentage of reduction attained. Efficiencies may be determined, in order of preference, by testing, design, published estimation methods or best engineering judgement. For multiple methods, enter them in the blank separated by a slash (/) and do the same for the efficiency.
9. If any of the operations identified elsewhere in this form use wet suppression to control fugitive dust emissions, enter the requested data in the table.