

EMISSIONS ACTIVITY CATEGORY FORM ABRASIVE BLASTING OPERATIONS

This form is to be completed for each abrasive blasting operation. State/Federal regulations which may apply to abrasive blasting 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.

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. General sandblasting process data (for sandblasting operations only):

a. Make and model number of sandblaster _____

b. Location of sandblasting operation: indoor outdoor

c. Method of sandblasting: suction blast
 direct pressure blast method
 other (describe) _____

d. Volume (cfm) and pressure (psig) of air used to operate sandblaster

4. Blasting agents

Type of abrasive used	Maximum quantity of abrasive used (pounds/hour)	Maximum quantity of abrasive used (tons/year)

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5. Product(s) being abrasive blasted

Products to be blasted	Units for production rates	Maximum production rate (units/hour)	Maximum production rate (units/year)

6. Control methods to be used for fugitive dust emissions from abrasive blasting:

Check the method(s) to be used to control fugitive dust emissions from the abrasive blasting process. Please complete the requested information for any control method(s) to be employed.

- Complete enclosure (provide related control equipment information in permit application form)

Company ID for control equipment _____

Describe enclosure _____

Estimated overall control efficiency _____%

- Water spray attachment:

Year installed _____

Wet blast adaptor manufacturer _____

Model No. _____

Water pressure required _____ inches water

Estimated overall control efficiency _____%

- Other (describe) _____

Year installed _____

Estimated overall control efficiency _____%

INSTRUCTIONS FOR COMPLETION OF THE EMISSIONS ACTIVITY CATEGORY FORM FOR ABRASIVE BLASTING 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 abrasive blasting operations. Note that there may be other regulations which apply to this emissions unit which are not included in this list.

State: Ohio Administrative Code (OAC) 3745-31-02 (Permit to Install)
3745-35-02 (Permit to Operate)
3745-17-07 (Visible Particulate Emission Rules)
3745-17-08 (Fugitive Particulate Emission Rules)
3745-17-11 (Process Particulate Emission Rules)
3745-15-07 (Nuisances Prohibited)

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.

If source-specific information is not available, the emissions from abrasive blasting may be estimated using the information from section 13.2.6 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:

This emissions activity category form is to be used for abrasive blasting operations which emit fugitive dust emissions. Other forms may also need to be completed for certain fugitive dust emission units (e.g., roadways and parking areas, fuel burning equipment and process operations) at abrasive blasting facilities.

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." Abrasive blasting operations often emit particulate matter in such fashion, and the requirements of OAC Rules 3745-17-07(B) (Visible particulate emission limitation for fugitive dust) and 3745-17-08 (Restrictions of emission of fugitive dust) may be applicable.

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 abrasive blasting 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. Complete the requested general process data in items 3.a. through 3.d. for sandblasting operations only.
4. Specify each blasting media and the corresponding maximum potential hourly and annual usage rates.
5. In the table, for each product being blasted, enter the units in the second column which relate to the production rates in the third and fourth columns. The units may be directly related to your product (e.g. vehicles, panels) or they may be standard units (e.g. square feet, linear feet of pipe).
6. Identify, by checking the appropriate box(es), all of the control measures to be employed for the abrasive blasting operation.

For those control methods identified, provide the data requested in the control method section. Information concerning add-on control equipment such as baghouses is requested in the Permit to Install/Operate and Title V application forms and need not be duplicated here.