

EMISSIONS ACTIVITY CATEGORY FORM METAL SALVAGE OPERATIONS

This form is to be completed for each metal salvage operation. State/Federal regulations which may apply to metal salvage 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, material handling operations (e.g., magnetic separation, conveying, handling and loadout), and other fugitive dust emissions units that have a specific EAC form. Therefore, additional EAC forms may need to be submitted for these emissions units.

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</u> <u>Emissions Units Present</u> | <u>Fugitive Dust</u> <u>Emissions Units</u> | <u>How many?</u> |
|--|--|------------------|
| <input type="checkbox"/> | Torching | _____ |
| <input type="checkbox"/> | Shredder/Hammermill | _____ |
| <input type="checkbox"/> | Crusher | _____ |
| <input type="checkbox"/> | Other (describe): | _____ |
| | _____ | _____ |
| | _____ | _____ |
| | _____ | _____ |

4. General process data:

- a. Materials processed _____
- b. Method(s) of processing _____

5. Torching process data:

- a. Number of torching stations _____
- b. Type of torching equipment used _____

c. Describe the various metal parts which are removed by torching at each station:

6. Shredder/Hammermill process data:

a. Type of shredder/hammermill (describe) _____

b. Manufacturer _____

c. Maximum design capacity of shredder _____ tons metal/hour

d. Maximum hourly processing rate for the shredder _____ tons metal/hour

e. Maximum annual quantity of metal processed by the shredder _____ tons metal/year

f. Are combustible fluids drained/removed prior to processing? Yes No N/A

g. Are mercury switches removed prior to processing? Yes No N/A

h. Are all CFCs (clorofluorocarbons, like Freon) removed prior to processing?
 Yes No N/A

7. Crusher process data:

a. Type of crusher (describe) _____

b. Manufacturer _____

c. Maximum design capacity of crusher _____ tons metal/hour

d. Maximum hourly processing rate for the crusher _____ tons metal/hour

e. Maximum annual quantity of metal processed by the crusher _____ tons metal/year

f. Are combustible fluids drained/removed prior to processing? Yes No N/A

g. Are mercury switches removed prior to processing? Yes No N/A

h. Are all CFCs (clorofluorocarbons, like Freon) removed prior to processing?
 Yes No N/A

8. Control methods to be used for emissions from metal salvage activities:

| Activity | Capture Method | Capture Efficiency | Control Method | Control Efficiency |
|----------------------------|----------------|--------------------|--|--------------------|
| Torching | | | <input type="checkbox"/> Fire extinguishers (type): _____ <input type="checkbox"/> Other (describe): _____ _____ | |
| Shredder/Hammermill | | | <input type="checkbox"/> Vent to wet scrubber <input type="checkbox"/> Wet suppression/cooling <input type="checkbox"/> Other (describe): _____ _____ | |
| Crusher | | | <input type="checkbox"/> Wet suppression <input type="checkbox"/> Other (describe): _____ _____ | |
| Other Activity (describe): | | | | |
| | | | | |
| | | | | |

9. Details for wet suppression systems:

| Activity | Material Used (wetting agent) | Application Point(s) | Application Rate (gal./ton processed) |
|----------------------------|----------------------------------|----------------------|--|
| Shredder/Hammermill | | | |
| Crusher | | | |
| Other Activity (describe): | | | |
| | | | |
| | | | |

INSTRUCTIONS FOR COMPLETION OF THE EMISSIONS ACTIVITY CATEGORY FORM FOR METAL SALVAGE OPERATIONS

GENERAL INSTRUCTIONS:

This emissions activity category form is to be used for certain activities at metal salvage operations which emit fugitive dust. Typical emissions units to be included on this form are listed in item # 3. Please do not include on this form fugitive dust emissions units such as roadways and parking areas, storage piles, and material handling operations (e.g., magnetic separation, conveying, handling and loadout) which have other EAC forms required for them. Any other fugitive dust emissions unit that does not have a specific emissions activity category 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 emitted from any source by means other than a stack." Paragraph (B)(7) of the same rule defines "fugitive dust source" as "...any source which emits fugitive dust or which emitted fugitive dust prior to the installation of any control equipment that was installed on or after February 15, 1972." Emissions units at metal salvage facilities often emit particulate matter as described and, therefore, the requirements of OAC rules 3745-17-07 and 3745-17-08 may be applicable as indicated above.

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

Ohio Administrative Code (OAC) rules:

- 3745-31-02 (Permit to Install)
- 3745-35-02 (Permit to Operate)
- 3745-17-07 (Control of Visible Particulate Emissions from Stationary Sources)
- 3745-17-08 (Restriction of Emission of Fugitive Dust)
- 3745-17-11 (Restrictions on Particulate Emissions from Industrial Processes)
- 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.

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 metal salvage 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. Identify the fugitive dust emissions units at the facility by placing a check mark in the appropriate box adjacent to the respective emissions unit type. If there are other fugitive dust emissions units at the facility which were not specifically listed and do not have other applicable EAC forms, please identify such emissions unit(s) in the section marked "Other (describe)".
4. Complete the requested general process data.
5. Complete items (a) through (c) in the torching process data section.
6. Complete items (a) through (h) in the shredder/hammermill process data section.
7. Complete items (a) through (h) in the crusher process data section.
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.