

## EMISSIONS ACTIVITY CATEGORY FORM GALVANIZING OPERATIONS

*This form is to be completed for each galvanizing line. State/Federal regulations which may apply to galvanizing facilities 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. P901) \_\_\_\_\_

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. Provide the galvanizing kettle process data:

a. Ohio EPA emissions unit ID \_\_\_\_\_

b. Galvanizing line ID \_\_\_\_\_

c. Galvanizing kettle manufacturer \_\_\_\_\_

d. Make or model no. \_\_\_\_\_

e. Kettle dimensions (length, width, height) \_\_\_\_\_

f. Type of operation (batch or continuous) \_\_\_\_\_

g. Maximum hourly production rate (tons zinc used/hour) \_\_\_\_\_

h. Annual production rate (tons zinc used/year) \_\_\_\_\_

- i. List articles galvanized: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- j. Type of flux cover (if any): \_\_\_\_\_  
Type of preflux material (if any): \_\_\_\_\_
- k. Is fluxing done wet at the top of the zinc kettle or dry in a separate tank? (wet or dry) \_\_\_\_\_
- l. Type of pickling acid used \_\_\_\_\_
- m. Is dusting performed after galvanizing? (yes or no) \_\_\_\_\_
- n. Type of dusting agent used (if any) \_\_\_\_\_
- o. Is headroom required over the kettle? (yes or no) \_\_\_\_\_

4. Provide the control methods to be used for fugitive dust emissions from galvanizing operations:

| Operation          | Capture Method | Capture Efficiency | Control Method | Control Efficiency |
|--------------------|----------------|--------------------|----------------|--------------------|
| Galvanizing kettle |                |                    |                |                    |
| Dusting            |                |                    |                |                    |
| Other:             |                |                    |                |                    |

# INSTRUCTIONS FOR COMPLETION OF THE EMISSIONS ACTIVITY CATEGORY FORM FOR GALVANIZING 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 galvanizing facilities. 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 | (Control of visible particulate emissions from stationary sources) |
|                                       | 3745-17-08 | (Restrictions of emissions of fugitive dust)                       |
|                                       | 3745-17-11 | (Restrictions on particulate emissions from industrial sources)    |

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>.

## **SPECIFIC INSTRUCTIONS:**

This emissions activity category form is to be used for galvanizing emissions units at galvanizing facilities. Other emissions activity category forms may also need to be completed for certain fugitive dust emissions units, such as roadways and parking areas, at galvanizing facilities.

Paragraph (B)(6) of OAC rule 3745-17-01 defines "fugitive dust" as "fugitive dust means particulate matter which is emitted from any source by means other than a stack." Paragraph (B)(7) of OAC rule 3745-17-01 defines "fugitive dust source" as "Fugitive dust source means 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". Thus, several types of sources at galvanizing facilities emit particulate matter in such fashion, and the requirements of OAC rules 3745-17-07(B) (Control of visible particulate emissions from stationary sources) and 3745-17-08 (Restrictions on particulate emissions from industrial sources) 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 ferroalloy plant 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 galvanizing kettle process data.
4. For each operation in the galvanizing line, 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.