

EMISSIONS ACTIVITY CATEGORY FORM FERROALLOY PLANTS

This form is to be completed for each ferroalloy plant. State/Federal regulations which may apply to ferroalloy plants 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 material handling operations (e.g., unloading, transfer and conveying) which may be associated with a ferroalloy production facility. Therefore, additional EAC forms for these 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. 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. Identification of fugitive dust emissions units:

Check Those

<u>Emissions Units Present</u>	<u>Emissions Units</u>	<u>How many?</u>
<input type="checkbox"/>	Raw materials crushing	_____
<input type="checkbox"/>	Raw materials screening	_____
<input type="checkbox"/>	Furnace charging (semi-enclosed type)	_____
<input type="checkbox"/>	Furnace tapping	_____
<input type="checkbox"/>	Casting	_____
<input type="checkbox"/>	Crushing and screening	_____
<input type="checkbox"/>	Other (describe):	
	_____	_____
	_____	_____

4. Raw materials crushing and screening data:

Emissions Unit ID(s)	Number of identical processes	Type of process (e.g. primary crushing)	Capacity of each process (tons/hour)	Capacity of each process (tons/year)	Control equipment ID

5. Ferroalloy furnace process data:

Emissions Unit ID(s)	Number of identical furnaces	Type of furnace (e.g. reverb)	Fuel(s) used	Capacity of each furnace (tons/hour)	Capacity of each furnace (tons/year)	Cycle time (hours)	Control equipment ID

6. Product crushing and screening process data:

Emissions Unit ID(s)	Number of identical processes	Process equipment	Capacity of each process (tons/hour)	Capacity of each process (tons/year)	Control equipment ID

7. Control methods to be used for fugitive dust emissions from ferroalloy production:

Operation	Pollutant emitted	Capture Method	Capture Efficiency	Control Method	Control Efficiency
Raw materials crushing					
Raw materials screening					
Furnace charging					
Furnace tapping					
Casting					
Product crushing and screening					
Other:					

INSTRUCTIONS FOR COMPLETION OF THE EMISSIONS ACTIVITY CATEGORY FORM FOR FERROALLOY PRODUCTION

GENERAL INSTRUCTIONS: Provide complete responses to all applicable questions. 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 ferroalloy production. Note that there may be other regulations which apply to this emissions unit which are not included in this list.

Federal: 40 CFR 63, (MACT) Subparts A and XXX (Ferroalloys Production)

State: Ohio Administrative Code (OAC) 3745-31-02 (Permit to Install)
3745-35-02 (Permit to Operate)
3745-17-07, -08, -11 (particulate emissions)
3745-18-06 (sulfur dioxide emissions)

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 (EAC) form is to be used for certain operations at ferroalloy production facilities which emit fugitive dust emissions. Typical emissions units to be included on this form are listed in item #3. Please use other emissions activity category forms for any roadways and parking areas, storage piles and material handling operations (e.g., for raw material unloading, transfer and conveying). 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, or was prior to the installation of control equipment, emitted from any source by means other than a stack." Ferroalloy production 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.

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. 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 and do not have other applicable emissions activity category forms, please identify such emissions unit(s) in the section marked "Other (describe)". Indicate the number of similar operations of the listed activity in the "Number of Emissions Units" column.
4. Complete the requested raw material crushing and screening process data.
5. Complete the ferroalloy furnace process data table.
6. Complete the product crushing and screening process data table.
7. 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.