

EMISSIONS ACTIVITY CATEGORY FORM FERTILIZER MIXING/BLENDING PLANTS

This form is to be completed for each fertilizer mixing & blending facility. State/Federal regulations which may apply to fertilizer mixing and blending 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.

Note: This emissions activity category (EAC) form does not include roadways and parking areas, storage piles, and material handling operations which may be associated with a fertilizer mixing/blending plant. 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. 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"/>	Mixing building fugitive losses:	
	Mixing	_____
	Bagging	_____
<input type="checkbox"/>	Loading operations:	
	Bulk loading of trucks	_____
<input type="checkbox"/>	Other (describe):	
	_____	_____
	_____	_____
	_____	_____

4. General process data:

a. Type of fertilizer mixing and blending plant:

- ammoniation-granulation bulk blend liquid mix plant

other (describe):

- b. Maximum hourly production rate: _____ tons/hour for mixing/bagging
_____ tons/hour for bulk loading of trucks
- c. Maximum annual production rate: _____ tons/year for mixing/bagging
_____ tons/year for bulk loading of trucks

d. Type of feed materials used:

- | | |
|---|---|
| <input type="checkbox"/> Normal superphosphate | <input type="checkbox"/> Triple superphosphate |
| <input type="checkbox"/> Ammonium sulfate | <input type="checkbox"/> Urea |
| <input type="checkbox"/> Potash | <input type="checkbox"/> Monoammonium phosphate |
| <input type="checkbox"/> Diammonium phosphate | <input type="checkbox"/> Potassium nitrate |
| <input type="checkbox"/> Other (describe) _____ | |
| | _____ |

5. Control methods to be used for fugitive dust emissions from fertilizer mixing & blending operations:

	Capture Method	Capture Efficiency	Control Method	Control Efficiency
Mixing Building Fugitive Losses (mixing)				
Mixing Building Fugitive Losses (bagging)				
Loading Operations (bulk loading of trucks)				
Other fugitive dust emissions units				

6. Details for wet suppression systems

	Year Installed	Material Used (wetting agent)	Application Point(s)	Application Rate (gal./ton processed)
Mixing Building Fugitive Losses (mixing)				
Mixing Building Fugitive Losses (bagging)				
Loading Operations (bulk loading of trucks)				
Other fugitive dust emissions units				

INSTRUCTIONS FOR COMPLETION OF THE EMISSIONS ACTIVITY CATEGORY FORM FOR FERTILIZER MIXING/BLENDING PLANTS

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 fertilizer mixing/blending plants. 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) Subparts A, (list other applicable subparts)
40 CFR 61, (NESHAP) Subparts A, (list other applicable subparts)
40 CFR 63, (MACT) Subparts A, (list other applicable subparts)

State: 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 (Restrictions of emission of fugitive dust)

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:

This emissions activity category (EAC) form is to be used for certain operations at fertilizer mixing and blending facilities which emit fugitive dust. Typical emissions units to be included on this form are listed in item # 3. Please use the specific emissions activity category forms for roadways and parking areas, storage piles and material handling operations (e.g., for any railcar unloading, transfer to storage) for these fugitive dust emissions units. 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." Fertilizer mixing and blending 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.

Item

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 [EAC CATEGORY] 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 in item # 3 and do not have other applicable emission activity category forms, please identify such emissions units in the section marked "Other (describe)". The "OEPA Emissions Unit ID" column may be left blank if such information is not known.
4. Complete the requested general process data in items (a) through (d).
5. For emissions units identified in item # 5 complete the applicable sections for data on methods of capture and control of fugitive dust.
6. Wherever wet suppression systems are used to control fugitive dust from emissions units identified in item # 6, provide the data requested in the table.