

## EMISSIONS ACTIVITY CATEGORY FORM COAL PROCESSING PLANTS AND COAL LOADING FACILITIES

*This form is to be completed for each emissions unit located at a coal processing plant and a coal loading facility. State/Federal regulations which may apply to these 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, material handling operations, or mineral extraction operations which may be associated with a coal processing plant. Therefore, additional EAC forms for those 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 and 365 days/year, what limits the schedule to less than maximum? See instructions for examples. \_\_\_\_\_

3. Maximum plant throughput: \_\_\_\_\_tons per hour; \_\_\_\_\_tons per year

4. Does this facility prepare coal by one or more of the following processes: breaking, crushing, screening, wet or dry cleaning and thermal drying?  Yes       No

5. Is this facility a portable plant?     yes       no

6. Identification of types of processes:

<u>Check Those</u> <u>Emissions Units Present</u>	<u>Fugitive Dust</u> <u>Emissions Units</u>	<u>How many?</u>
<input type="checkbox"/>	Primary crushing/screening	_____
<input type="checkbox"/>	Secondary crushing/screening	_____
<input type="checkbox"/>	Cleaning	_____
<input type="checkbox"/>	Loading:	
<input type="checkbox"/>	Rail car/barge	_____
<input type="checkbox"/>	Truck	_____
<input type="checkbox"/>	Other (describe):	_____
	_____	_____
	_____	_____

7. Process data:

Operation	Type	Year installed	Number of units	Maximum rate (tons/hour)	Maximum rate (tons/year)
Primary crushing/screening					
Secondary crushing/screening					
Cleaning	<input type="checkbox"/> Wet <input type="checkbox"/> Dry				
Unloading	<input type="checkbox"/> Railcar <input type="checkbox"/> Truck <input type="checkbox"/> Barge <input type="checkbox"/> Other (describe):				
Loading	<input type="checkbox"/> Railcar <input type="checkbox"/> Truck <input type="checkbox"/> Barge <input type="checkbox"/> Other (describe):				
Storage (stock piles)					
Storage (silos)					
Thermal dryers					
Other: _____ _____					

8. Control methods to be used for emissions from coal processing and loading facilities:

	Capture Method	Capture Efficiency	Control Method	Control Efficiency
Primary crushing/screening				
Secondary crushing/screening				
Cleaning				
Unloading				
Loading				
Storage				
Thermal dryer				
Other: _____ _____ _____				

9. Details for wet suppression systems

	Year Installed	Material Used (wetting agent)	Application Point(s)	Application Rate (gal./ton processed)
Primary crushing/screening				
Secondary crushing/screening				
Unloading				
Loading				
Storage				
Other: _____ _____ _____				

# INSTRUCTIONS FOR COMPLETION OF THE EMISSIONS ACTIVITY CATEGORY FORM FOR COAL PROCESSING PLANTS AND COAL LOADING FACILITIES

## **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.

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## **APPLICABLE REGULATIONS:**

*The following State and Federal Regulations may be applicable to coal processing plants and coal loading facilities. 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 and Y (coal preparation plants that process more than 200 tons/day and commenced construction or modification after October 24, 1974):

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)

3745-17-10 (Restrictions on particulate emissions from fuel burning equipment)

3745-17-11 (Restrictions on particulate emissions from industrial processes)

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/epacr40/chapt-l.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.

The emissions from coal processing operations may be estimated using the information from Chapter 11

(Mineral Products Industry) 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 certain operations at coal processing facilities. Typical emissions units to be included on this form are listed in item #1. Please use the specific emissions activity category forms for roadways and parking areas, coal storage piles, material handling operations (e.g., conveyors, transfer points, unloading operations), and mineral extraction (e.g., strip mines) for these emissions units. Any other 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." Coal processing 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. It should be noted that this definition of fugitive emissions is only applicable to this regulation. The same particulate emissions may not be considered "fugitive" under other federal and state regulations (i.e. PSD, Title V, etc).

If the facility processes, loads, unloads or stores materials other than coal, please indicate the type and amount of material, emissions data, and provide process and control equipment information.

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 coal processing plant or coal loading facility 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).
5. A "portable source" means an air contaminant source that, in the Director's judgment, is specifically designed to be transferred to a new site as needs warrant.
6. Identify the emissions units at the facility by placing a check mark in the appropriate block adjacent to the respective emissions unit. If there are other emissions units at the facility which were not specifically listed in item # 6 and do not have other applicable emission activity category forms, please identify such emissions unit(s) in the section marked "Other (describe)". The "OEPA Emissions Unit ID" column may be left blank if such information is not known. If there are more one emissions unit at the facility, please make a duplicate copy of this form or obtain an additional form from the OEPA.
7. For each of the emissions units identified in item # 6 complete the applicable sections for the process data. Be sure to check the appropriate block adjacent to the respective emissions unit.
8. For emissions units identified in item # 6 complete the applicable sections for data on methods of capture and control of fugitive dust.

9. Wherever wet suppression systems are used to control fugitive dust from emissions units identified in item # 6, provide the data requested in the table.