Illinois Environmental Protection Agency

Data and Information – Fuel Combustion Emission Source

Illinois Environmental Protection Agency
Bureau of Air – Permit Section
2520 West Iles Ave
P.O. Box 19276
Springfield, IL 62794-9276

Date Form Received

Applicant Information

Name of Owner: _____
Name of Corporate Division or Plant (If different from owner): _____
Street Address of Emission Source: _____
City of Emission Source: _____
Bureau of Air ID (If Applicable): _____

Instructions

1. This information form is to be completed for a furnace, boiler, or similar equipment used for the primary purpose of producing heat or power by indirect heat transfer. An emission source that does not fit this description, including an emission source using direct heating, is either a process emission source or an incinerator.
2. Complete the appropriate section(s). If more than one fuel is fired or if the capability exists to fire more than one fuel, the actual usage of fuels and the relationship between fuels, simultaneous firing, alternate firing, reserve fuel, etc., must be made clear.
3. Emission and Exhaust Point Information must be completed, unless emissions are exhausted through air pollution control equipment. Complete the appropriate Form APC-260 "Data & Information – Air Pollution Control Equipment" for any control equipment.
4. Firing rates and certain other items require both average and maximum values.

Definitions

- **Fuel combustion emission source:** furnace, boiler, or similar equipment used primarily for producing heat or power by indirect heat transfer.
- **Incinerator:** an apparatus in which refuse is burned.
- **Average:** the value that summarizes or represents the general condition of the emission source, or the general state of production of the emission source.
- **Maximum:** the greatest value attainable or attained for the emission source, or the period of greatest or utmost production of the emission source.

The Illinois EPA is authorized to require, and you must disclose, the requested information on this form pursuant to the Environmental Protection Act ("Act"), 415 ILCS 5/1 et seq., and its implementing regulations. This information shall be provided using either this form or in an alternative manner at your discretion. Failure to disclose the information may result in an incomplete application and other penalties as provided for in the Act, 415 ILCS 5/42-45. Intentional falsification of the information in this form may result in significant criminal and civil penalties as provided by law.

Emission Source Information

Flow Diagram Designation(s) of Emission Sources: _____
Manufacturer: _____
Model Number: _____
Serial Number: _____

Operating Time of Emission Source	Hrs/day	Days/wk	Wks/yr
Average Operation			
Maximum Operation			

Percent of Annual Heat Input

Dec-Feb (%)	Mar-May (%)	Jun-Aug (%)	Sept-Nov (%)

Fuel Information

Gas Firing

Origin of Gas*:

- ☐ Pipeline
- ☐ Distillate Fuel Oil Gasification
- ☐ Other Liquid Fuel Gasification
- ☐ Solid Fuel Gasification
- ☐ Byproduct (Specify Source): _____

Are You on An Interruptible Gas Supply:

- ☐ Yes - Specify Alternate Fuel: _____
- ☐ No

Annual Consumption: _____ scf
Heat Content*: _____Btu/scf
Sulfur Content as Fired*: _____ % by WT
Average Firing Rate: _____ Btu/hr
Maximum Firing Rate: _____ Btu/hr

* If the gas fired is natural gas, these items need not be completed.

Oil Firing

Grade Number: ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ Other (Specify): _____

Annual Consumption: _____ gal
Heat Content: _____ ☐ Btu/lb ☐ Btu/gal
Sulfur Content: _____ % by WT
Ash Content: _____ % by WT

Direction of Firing: ☐ Horizontal ☐ Tangential ☐ Other (Specify): _____

Average Firing Rate: _____ Btu/hr
Maximum Firing Rate: _____ Btu/hr

Solid Fuel Firing

Type of Solid Fuel:

- ☐ Sub-Bituminous Coal
- ☐ Bituminous Coal
- ☐ Anthracite Coal
- ☐ Other (Specify): _____

Annual Consumption: _____ tons
Heat Content as Fired: _____ Btu/lb
Moisture Content as Fired: _____ % by WT
Ash Content as Fired: _____ % by WT
Sulfur Content as Fired: _____ % by WT

Type of Firing: ☐ Cyclone ☐ Pulverized

If Pulverized:

- ☐ Wet Bottom
- ☐ Dry Bottom
- ☐ Horizontally Opposed
- ☐ Other (Specify): _____

Spreader Stoker: ☐ Yes - % Reinjection: _____ ☐ Other (Specify): _____

Average Firing Rate: _____ Btu/hr
Maximum Firing Rate: _____ Btu/hr

Submit copies of those portions of coal or other solid fuel contracts which set forth the specifications of the fuel and the duration of the contract. If the actual fuel fired is a blend of solid fuels, submit appropriate portions of all fuel contracts and set forth the manner in which the fuels are blended and actually fried. Reference this information to this form.

Emission Information

Number of Identical Sources (Describe as Required):

_____

The Average Operation and Maximum Operation tables do not need to be completed if emissions are exhausted through air pollution control equipment, or if natural gas is the fuel fired.

Average Operation

Contaminant	Concentration OR Emission Rate Per Identical Source	Method Used to Determine Concentration or Emission Rate
Particulate Matter	☐ gr/scf ☐ lb/10^6 Btu ☐ lb/hr	
Carbon Monoxide	☐ ppm (vol) ☐ lb/10^6 Btu ☐ lb/hr	
Nitrogen Oxides	☐ ppm (vol) ☐ lb/10^6 Btu ☐ lb/hr	
Volatile Organic Material	☐ ppm (vol) ☐ lb/10^6 Btu ☐ lb/hr	
Sulfur Dioxide	☐ ppm (vol) ☐ lb/10^6 Btu ☐ lb/hr	

Maximum Operation

Contaminant	Concentration OR Emission Rate Per Identical Source	Method Used to Determine Concentration or Emission Rate
Particulate Matter	☐ gr/scf ☐ lb/10^6 Btu ☐ lb/hr	
Carbon Monoxide	☐ ppm (vol) ☐ lb/10^6 Btu ☐ lb/hr	
Nitrogen Oxides	☐ ppm (vol) ☐ lb/10^6 Btu ☐ lb/hr	
Volatile Organic Material	☐ ppm (vol) ☐ lb/10^6 Btu ☐ lb/hr	
Sulfur Dioxide	☐ ppm (vol) ☐ lb/10^6 Btu ☐ lb/hr	

Exhaust Point Information

This section should not be completed if emissions are exhausted through air pollution control equipment.

Flow Diagram Designation(s) of Exhaust Point: _____
Description of Exhaust Point (Location in Relation to Buildings, Direction, Hooding, etc.):

_____
Exit Height Above Grade: _____
Exit Diameter: _____
Greatest Height of Nearby Buildings:_____
Exit Distance from Nearest Plant Boundary: _____

Exhaust Point Operation	Exit Gas Temperature (°F)	Gas Flow Rate Through Exit (acfm)
Average Operation		
Maximum Operation		