



Boilers

This guide is intended for true minor sources only.

What is a True Minor Source?

Air pollution sources whose potential to emit (PTE) is less than the major source annual emission thresholds are considered minor sources. Potential to Emit (PTE) is defined at Section 39.5 of the Illinois Environmental Protection Act and is used to predict the release of air contaminants from an emission source operating at its maximum rate capacity, 24 hours per day, 365 days a year.

A true minor air pollution source is one that, even operating at its maximum capacity and continuously, cannot exceed the major source annual emission threshold levels. A true minor source should not be confused with a synthetic minor source which is an air pollution source that has a Federally Enforceable State Operating Permit (FESOP) with conditions that legally restrict its PTE to below the threshold levels.

WHAT SHOULD YOUR PERMIT APPLICATION INCLUDE?

Cover Letter

- ✓ Number of boilers and maximum design heat input capacity of each (mmBTU/hr);
- ✓ What the boiler(s) will be used for and maximum annual operating hours for each;
- ✓ Whether the boiler(s) are subject to the requirements in **40 CFR Part 60 Subpart Dc (Standards of Performance for Small Industrial, Commercial, Institutional Steam Generating Units), or National Emission Standard for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers Area Sources, 40 CFR Part 63 Subpart JJJJJJ**, and if so:
 - whether the boiler(s) will comply with the applicable **Subpart Dc or Subpart JJJJJJ requirements**; and
- ✓ Whether the site has an existing Illinois EPA air operating permit. If it does, indicate in cover letter if the existing operating permit is still representative of existing conditions at the site or if changes need to be made to the operating permit due to changes at the site since the existing operating permit was issued.

Description of the Operation

A written summary and/or table(s) that describes or identifies the following as it exists and is proposed:

- ✓ For existing boilers, date(s) boiler(s) constructed and modified;
- ✓ Type of fuel for boiler(s) and maximum sulfur content of fuel;
- ✓ The expected maximum annual air emissions (CO, NO_x, VOM, PM, SO₂, CO₂) for all the boilers combined; and
- ✓ If applicable, a list and description of other emission units/pollution control equipment that the permit needs to address.

Plot Plan/Flow Diagram:*

- ✓ Illustrate location of all boilers covered by the application;
- ✓ Each boiler should be labeled by a unique identifier;
- ✓ Differentiate between any existing and proposed boilers;
- ✓ Identify site location, location of boilers, site property boundaries, and surrounding land use, and if applicable, other emission units/pollution control equipment;

*Sketch drawing or block diagram is sufficient (doesn't have to be to scale)

Application Forms:

The forms can be obtained on the Illinois EPA website at: www.epa.state.il.us/air/stateforms/

- APC-629: Application for a Permit to Construct and/or Operate;
- 197-FEE: Fee Determination for Construction Permit Application if you are requesting a Construction Permit

(Please make sure a check in the appropriate amount is also included with the completed 197-Fee form)

Send two copies (three if located in Cook County) of your application to:

**Bureau of Air Permit Section
Illinois Environmental Protection Agency
1021 North Grand Avenue East,
P.O. Box 19506
Springfield, IL 62794-9506**

Questions?

If you have any questions regarding air permitting, please contact the **Illinois EPA Air Permit Section at 217-785-1705** or the **Illinois Small Business Environmental Assistance Program at 800-252-3998.**

Registration of Smaller Sources (ROSS): Effective December 2011, true minor sources with low *actual* emissions may be eligible to participate in the mandatory Registration of Smaller Sources (ROSS) program identified at 35 Ill. Adm. Code 201.175. Sources who can meet the following emission criteria as well as other eligibility criteria must register under the ROSS program in lieu of acquiring or maintaining an air pollution control permit:

- 5.0 Tons/yr of combined pollutants (particulate matter, carbon monoxide, nitrogen oxides, sulfur dioxide and volatile organic material)
 - 0.50 Tons/yr of combined Hazardous Air Pollutants (HAPs)
 - 0.05 Tons/yr of mercury air emissions
 - 0.05 Tons/yr of lead air emissions

For more information regarding the ROSS program including a complete list of the eligibility criteria visit www.ienconnect.com/enviro or contact the Illinois Small Business Environmental Assistance Program at 1-800-252-3998.