



# Diesel Powered Generator Set

*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 existing and proposed generator sets and rated capacity of each (kW for generator and HP for engine);
- ✓ What the generator set(s) will be used to power and maximum annual operating hours for each;
- ✓ Whether the generator set(s) are subject to the requirements in **40 CFR Part 60 Subpart IIII (Standards of Performance for Stationary Compression Ignition Internal Combustion Engines)**, and if so:
  - whether the generator set(s) will serve emergency or non-emergency use as defined in Subpart IIII, and if the generator set(s) will comply with the applicable Subpart IIII requirements;
- ✓ Whether the generator set(s) are subject to the requirements in **40 CFR Part 63 Subpart ZZZZ (Stationary Reciprocating Internal Combustion Engines)**, and if so:
  - whether the generator set(s) will serve emergency or non-emergency use as defined in **Subpart ZZZZ**, and if the generator set(s) will comply with the applicable **Subpart ZZZZ** requirements;
- ✓ 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:

- ✓ Date(s) generator set(s) ordered (**see 40 CFR 60.4200(a)**);
- ✓ Date(s) of manufacture of the generator set(s) (**see 40 CFR 60.4200(a)(2)(i)**);
- ✓ Model year(s) for generator set(s) (**see 40 CFR 60.4200(a)(1)**);
- ✓ Type of fuel for engine(s) and maximum sulfur content of fuel;
- ✓ The expected maximum operating time for each generator set in hours per year;
- ✓ The expected maximum annual air emissions (CO, NO<sub>x</sub>, VOM, PM, SO<sub>2</sub>, CO<sub>2</sub>) for all the generator sets 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 generator sets;
- ✓ Each generator set should be labeled by a unique identifier;
- ✓ Differentiate between any existing and proposed generator sets;
- ✓ Identify site location, location of generation sets, site property boundaries, and surrounding land use, and if applicable, other emission units/pollution control equipment at the source

\*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/](http://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 of your application (three if located in Cook County) 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.ienvconnect.com/enviro](http://www.ienvconnect.com/enviro) or contact the Illinois Small Business Environmental Assistance Program at 1-800-252-3998.**