Air Permitting
Requirements for Engines, Boilers, and Digesters

Government Affairs Seminar
February 28, 2013
WDNR Air Permit Program
What has changed?

- New Source Performance Standards
  - 40 CFR 60, Subpart JJJJ for spark ignition engines
  - 40 CFR 60, Subpart IIII for compression ignition engines
- National Emission Standard for Hazardous Air Pollutants
  - 40 CFR 63, Subpart ZZZZZ for reciprocating internal combustion engines
Developed for small wastewater treatment facilities and municipal water supply systems.

**Do I Need an Air Pollution Permit?**

**NO**

You do not need a permit if the only equipment you have that emits air pollution is:

- **Emergency electrical generators:**
  - with electrical output less than 3000 kilowatts, and
  - that operate less than 200 hours per year, and
  - do not offset electrical rates, peak shave or participate in a financial arrangement with another entity, and
  - are powered by internal combustion (IC) engines fueled by natural gas, ULSD diesel, distillate fuel oil or gasoline

- **Boilers** that are:
  - natural gas-fired with max rated heat input capacity of not more than 25 mmBTU per hour, or
  - distillate fuel oil-fired with max rated heat input capacity of not more than 10 mmBTU per hour

**Who usually qualifies?** Municipal water supply systems and/or wastewater treatment facilities that do not have an anaerobic digester unit can often fit into this category.

**NOTE:** Please be aware that you are still required to meet emission limits and management practices of Federal Standards for your emergency generators. See page 2 and [http://www.epa.gov/ttn/atw/rice/output/quiz.htm](http://www.epa.gov/ttn/atw/rice/output/quiz.htm) for more details.

**YES**

You will need a permit if:

- Your facility-wide total capacity of all biogas-fired engines is ≥ 120 hp (90 kilowatts); or
- You operate your facility’s engine as a peak-shaving unit or supply power as a financial arrangement with another entity; or
- You operate several types of combustion units at your facility.

**NOTE:** Even if you fall into this category, you may still qualify for the Air Program’s simple and streamlined Registration Permit (ROP).

- For information on how to apply for a standard individual permit, see the Air Program’s webpage at: [http://dnr.wi.gov/topics/AirPermits/Apply.html](http://dnr.wi.gov/topics/AirPermits/Apply.html)

**MAYBE**

You may need a permit if:

- Your facility does not fit into either the “Yes” or “No” categories above.

Please contact the Air Management Program for help with determining whether or not a permit is required and, if so, what type of permit best fits your facility.

Please call or e-mail:

Rick Wulk – 920-662-5181  
E-mail: richard.wulk@wisconsin.gov
Do I need an air pollution control permit? No, if...

- Facility consists of only
  - Emergency electrical generators:
    - Electrical output less than 3,000 kW, and
    - Operate less than 200 hours per year, and
    - Generators are not part of a program to offset facility electrical rates, and
    - Combust only natural gas, diesel or gasoline
  - And/or boilers that are:
    - Combust natural gas with a max heat input capacity of $\leq 25$ MMBtu per hour, or
    - Combust distillate with a max heat input of $\leq 10$ MMBtu per hour
Do I need an air pollution control permit? No, if…

NOTE: Your facility is still required to meet any emission limits and management practices of the applicable Federal Standards!
Do I need an air pollution control permit? Yes, if…

- Facility total capacity of all biogas-fired engines is \( \geq 120 \text{ hp (90 kW)} \); or
- Engine generators are used to offset electrical rates; or
- The facility operates several types of combustion units.
Do I need an air pollution control permit? Maybe…

- If you do not fit into the “Yes” or “No” categories.
- If you are unsure or confused.
- Contact

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