

# **Air Permitting Requirements for Engines, Boilers, and Digesters**

Government Affairs Seminar  
February 28, 2013  
WDNR Air Permit Program


# What has changed?

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- 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 ZZZZ for reciprocating internal combustion engines

# WDNR Fact Sheet

Developed for small wastewater treatment facilities and municipal water supply systems



Air Management Program

**WWTP and Water Supply Systems – Do I Need an Air Pollution Permit?** February 2013

This factsheet is meant to help small wastewater treatment facilities and municipal water supply systems determine whether an air pollution control permit is required for their facility.

**Do I need an Air Pollution Control Permit?**

<b>NO</b>	<p>You do not need a permit if the <i>only</i> equipment you have that emits air pollution is:</p> <p><b>Emergency electrical generators:</b></p> <ul style="list-style-type: none"> <li>with electrical output less than 3000 kilowatts, <i>and</i></li> <li>that operate less than 200 hours per year, <i>and</i></li> <li>do not offset electrical rates, peak shave or participate in a financial arrangement with another entity, <i>and</i></li> <li>are powered by internal combustion (IC) engines fueled by natural gas, ULSD diesel, distillate fuel oil or gasoline</li> </ul> <p>and/or <b>Boilers</b> that are:</p> <ul style="list-style-type: none"> <li>natural gas-fired with max rated heat input capacity of not more than 25 mmBTU per hour, <i>or</i></li> <li>distillate fuel oil-fired with max rated heat input capacity of not more than 10 mmBTU per hour</li> </ul> <p><b>Who usually qualifies?</b> Municipal water supply systems and/or wastewater treatment facilities that do <i>not</i> have an anaerobic digester unit can often fit into this category.</p> <p><b>NOTE:</b> 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 <a href="http://www.epa.gov/ttn/atw/rice/output/quiz.html">http://www.epa.gov/ttn/atw/rice/output/quiz.html</a> for more details.</p> <p>If your facility has several emission units that individually meet the exemptions described above, the Department recommends you contact your regional air management staff to ensure no permitting requirements are triggered by the cumulative impact of all units.</p>
<b>YES</b>	<p>You <i>will</i> need a permit if:</p> <ul style="list-style-type: none"> <li>Your facility-wide total capacity of all biogas-fired engines is <math>\geq</math> 120 hp (90 kilowatts); or</li> <li>You operate your facility's engine as a peak-shaving unit or supply power as a financial arrangement with another entity; or</li> <li>You operate several types of combustion units at your facility.</li> </ul> <p><b>NOTE:</b> Even if you fall into this category, you may still qualify for the Air Program's simple and streamlined Registration Permit (ROP).</p> <ul style="list-style-type: none"> <li>For more information, see the permit resources on registration permits on the small business website <a href="http://dnr.wi.gov/files/PDF/pubs/amu/AM488.pdf">http://dnr.wi.gov/files/PDF/pubs/amu/AM488.pdf</a>.</li> <li>For information on how to apply for a standard individual permit, see the Air Program's webpage at: <a href="http://dnr.wi.gov/topic/AirPermits/Apply.html">http://dnr.wi.gov/topic/AirPermits/Apply.html</a></li> </ul>
<b>MAYBE</b>	<p>You <i>may</i> need a permit if:</p> <ul style="list-style-type: none"> <li>Your facility does not fit into either the "Yes" or "No" categories above.</li> </ul> <p>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.</p> <p>Please call or e-mail:  Rick Wulk – 920-662-5181  E-mail: <a href="mailto:richard.wulk@wisconsin.gov">richard.wulk@wisconsin.gov</a></p>

# Do I need an air pollution control permit? No, if...

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- 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...

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**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...

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- Facility total capacity of all biogas-fired engines is  $\geq$  120 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...

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

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