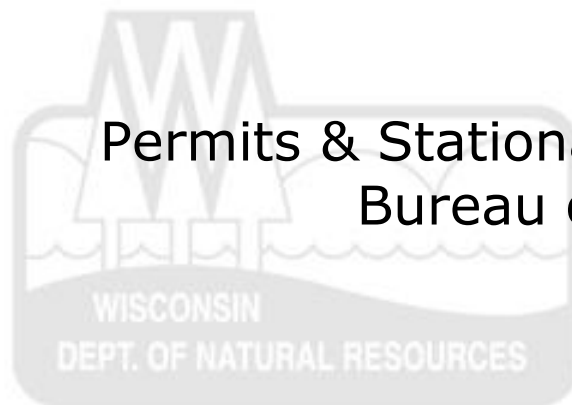


Air Permitting for Wastewater Treatment Facilities

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Air Permitting for Wastewater Treatment Facilities

- Issue
- Concern
- Goal
- Approach



Issue

- Many wastewater treatment facilities in Wisconsin have air emission sources that may require air permits
 - Few have applied and received permits
- Federal & state emission standards apply
 - Complicated
 - Mainly related to combustion sources



Concern

- Sources unaware of requirements
- Potential noncompliance & enforcement situations
- Inefficient use of resources
- Unrealized opportunities to take advantage of improving:
 - environmental impact
 - energy use



Goal

- Get facilities where they need to be with respect to air regulations
 - Educate as to what is needed
 - Assist operators in understanding requirements & getting needed permits in place
 - Resolve individual compliance situations



Approach

- Use a sector approach rather than deal one-on-one as situations arise
 - Gather information
 - Provide direction
 - Respond to individual situations



Emission Sources

- Combustion
 - Engines
 - Boilers
 - Turbines
 - Flares
- Other
 - Digesters
 - Fugitives (leaks)
 - “Entire” POTW



Emission Standards

- Criteria Pollutants
 - Particulate matter
 - Sulfur dioxide
 - Nitrogen oxide
 - Carbon monoxide
- Hazardous Pollutants
 - Hydrogen sulfide
 - Formaldehyde
 - Benzene
 - Methylene Chloride
- Greenhouse Gases
 - Methane



Requirements

- Optimize combustion
 - Limits
 - Specifications
- Add on controls
 - Catalysts
 - Filters
- Work practices
 - Leak detection & prevention
 - Maintenance



Approach

- Survey
- Analysis
- Develop tools
- Outreach
- Process
- Resolve individual situations



Types of Permits

- Construction Permit
 - Needed prior to construction if have air emissions & not exempt
- Operation permit
 - Includes all applicable limitations & requirements
- Different types of permitting options are available



Resources

- US EPA
 - New Source Performance Standards (NSPS)
<http://www.epa.gov/ttn/atw/nsps/nspstbl.html>
 - National Emission Standards for Hazardous Air Pollutants (NESHAP)
<http://www.epa.gov/ttn/oarpg/t3pfpr.html>
- Focus on Energy
 - Water & Wastewater
<http://www.focusonenergy.com/Business/Industrial-Business/Wastewater.aspx>
- WI Dept of Natural Resources
 - Air Permitting
<http://dnr.wi.gov/air/permits.html>



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