

ENVIRONMENTAL REQUIREMENTS FOR BIODIESEL FACILITIES



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Why are we here today?

- Biodiesel is an emerging industry.
- Local officials are involved (often early in the process).
- In a position to spot potential problems and refer them to state/federal agencies before they occur.
- You are not expected to:
 - enforce requirements that are not under your jurisdiction.
- However, you can:
 - gain an awareness of issues and learn about contacts for assistance or referrals.



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OVERVIEW OF REQUIREMENTS

- Waste Management
- Wastewater Management
- Stormwater Management
- Air Emissions
- Spill Prevention, Control, and Countermeasures (SPCC)
- Emergency Planning and Community Right-to-Know (EPCRA)
- Spill Reporting and Response



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Waste Management

- Hazardous waste:
 - May generate hazardous waste:
 - glycerin with methanol.
 - Requirements apply depending on amount they generate.
 - Large, small, conditionally exempt small quantity generators.
 - Requirements for testing, storage, facility plans, transportation, and disposal.



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Waste Management (Cont.)

- Solid Waste
 - May accept solid waste.
 - "yellow grease."
 - "brown grease" **must** go to designated facilities for decanting and burning.
 - Permit required to accept or process solid waste received from others.
 - May also generate solid waste.
 - Must be shipped off-site for proper disposal.

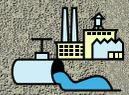


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Wastewater Management

- Sanitary sewer discharges:
 - From rinsing of tanks.
 - Boiler blowdown.
 - Water softener backwash.
 - Sprinkler testing wastewater.
- Permits required for wastewater discharges to sewer.
 - Up to 50,000 gpd: general permit.
 - Otherwise, need an individual permit.



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Wastewater Management (cont.)



- Septic system.
 - Typically, only septage may be discharged to septic systems.
 - Therefore will often need a holding tank to store process wastewaters for shipment off-site to a POTW or permitted waste treatment facility.
 - Facilities are encouraged to locate in areas where sanitary sewer is available.

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Stormwater Management



- Permits required for certain stormwater discharges.
 - > 5 acres, need Construction Stormwater General Permit.
 - <5 acres comply with local zoning.
 - May need an industrial stormwater general permit depending on SIC code.

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Air Emissions



- Permits are required for certain emissions of air pollutants.
 - VOCs (including Methanol)
 - CO – NOx – Particulates – SOx
- Whether or not a permit is required depends on:
 - Type of pollutant.
 - # of tons emitted per year (typically 15 tpy calculated at maximum rated capacity running 8760 hours per year).

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Spill Prevention, Control, and Countermeasures (SPCC)



- Applies to facilities with:
 - Over 1320 gallons of oil in tanks or containers (> 55 gallons)
 - 42,000 gals. Of oil in USTs.
- Oil includes both petroleum oils and animal and vegetable oils.
- Need to have:
 - SPCC plan.
 - Containment.

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Emergency Planning and Community Right-to-Know (EPCRA)




- Applies to facilities that store/handle chemicals.
- Chemical Hazard Reporting Form to LEPC, DEP, and local FD.
 - List any material requiring an MSDS.
 - Includes Methanol and others.

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EPCRA (Cont.)



- Notification Form to LEPC and DEP
 - List any of 356 Extremely Hazardous Substances (EHSs) over threshold amounts.
- Emergency Release Notification.
 - Must report releases of certain hazardous substances.
- "Tier II" Reporting.
- Toxic chemical release inventory (Form R Reporting).

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Spill Reporting and Response

- CGS 22a-450 requires reporting of any spill in CT.
- DEP Spill Number:
 - 1-866-DEP-SPIL



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Other Requirements

- Wetlands 
- Aquifer Protection Requirements 
- Site Cleanup 
- Underground Storage Tanks 
- OLISP requirements for coastal structures/dredging 

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For More Information...

- Call DEP: 1-860-424-3000 
- www.ct.gov/dep
 - "Programs and Services"
- www.ct.gov/dep/constructioncontractors
- Technical info/questions:
 - Ross Bunnell: 424-3274
 - ross.bunnell@po.state.ct.us



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For More Information... (Cont.)

- DEP Pre-Application Meetings:
 - Bob Hannon (860) 424-3245
 - Call at first sign of a proposed facility
- Brownfields sites:
 - Old industrial sites
 - Graham Stevens (860) 424-4166



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Questions?



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