

Environmental Compliance

Renewable Energy Development for Oklahoma Tribes

September 19, 2007

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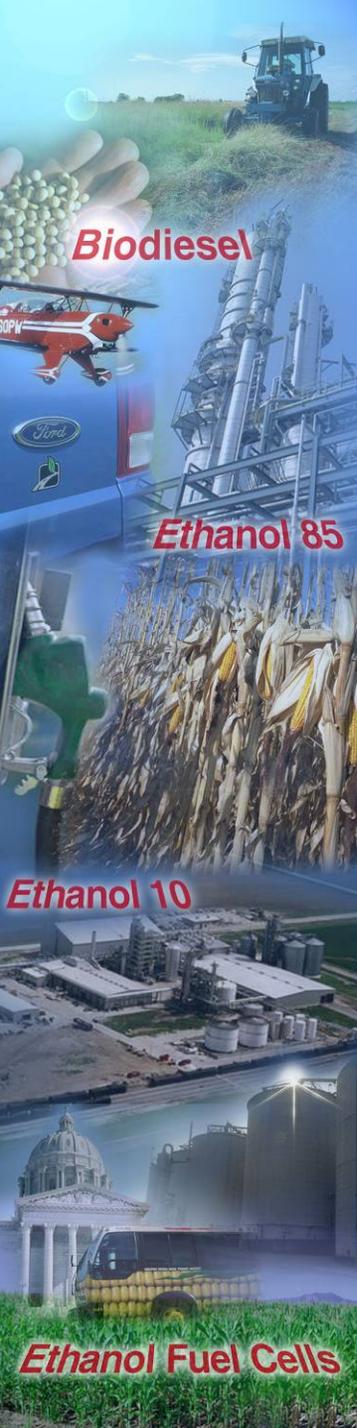
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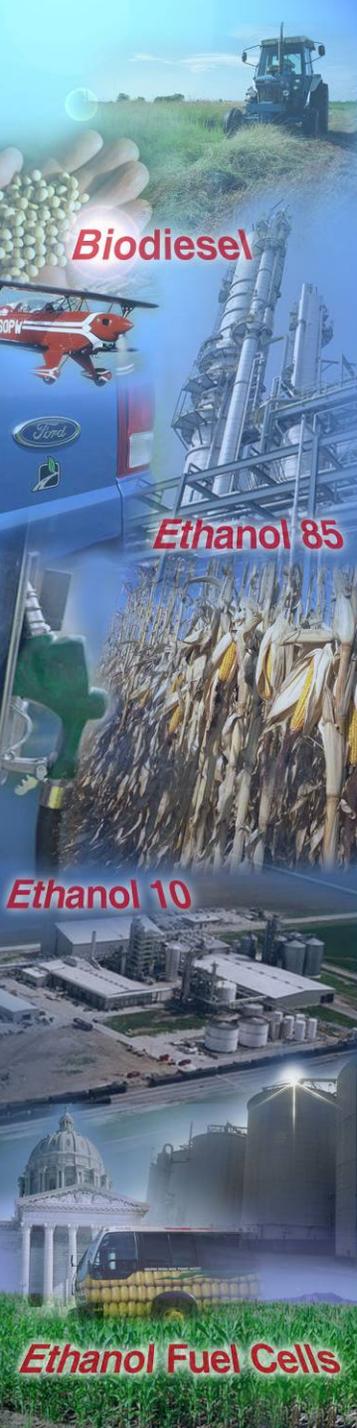
Adding Value to the Biofuels Industry



Environmental Compliance

- Hire an expert to get your environmental permits!
 - Time
 - Money
- Jurisdiction
 - Tribal
 - EPA
 - State
- Hire an experienced Biofuels Plant Manager

Environmental Compliance

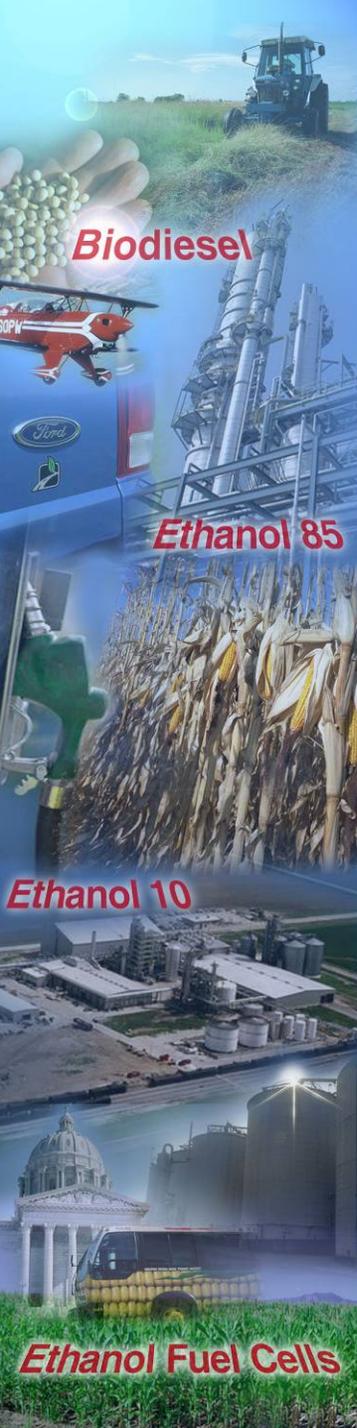


Requirements

- Air Permit (Construction)
- Air Permit (Operating)
- Water
 - SWPPP - Construction and Industrial Activities
 - SPCC and FRP
 - NPDES direct discharge permit
 - Production Wells
- Chemicals
 - Storage Tanks
 - RMP
 - Tier II/III
 - Hazardous Waste Generation
 - Toxic Release Inventory

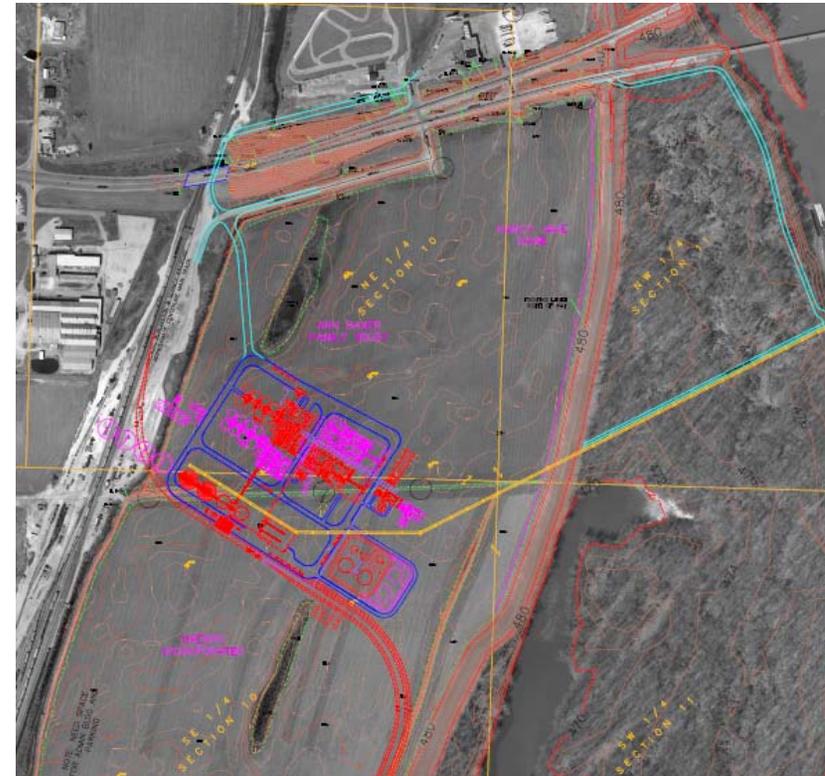
Compliance Activities

- Monitoring
- Recordkeeping
- Reporting
- Maintenance



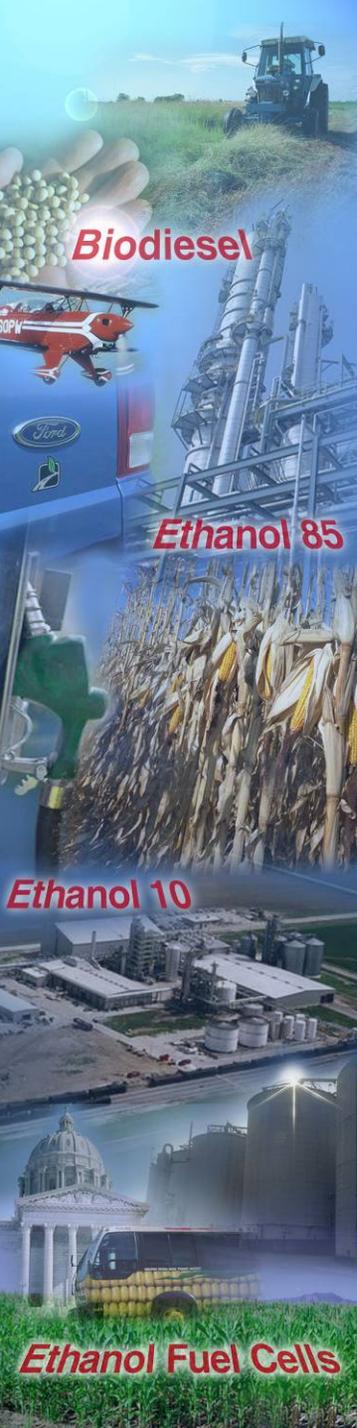
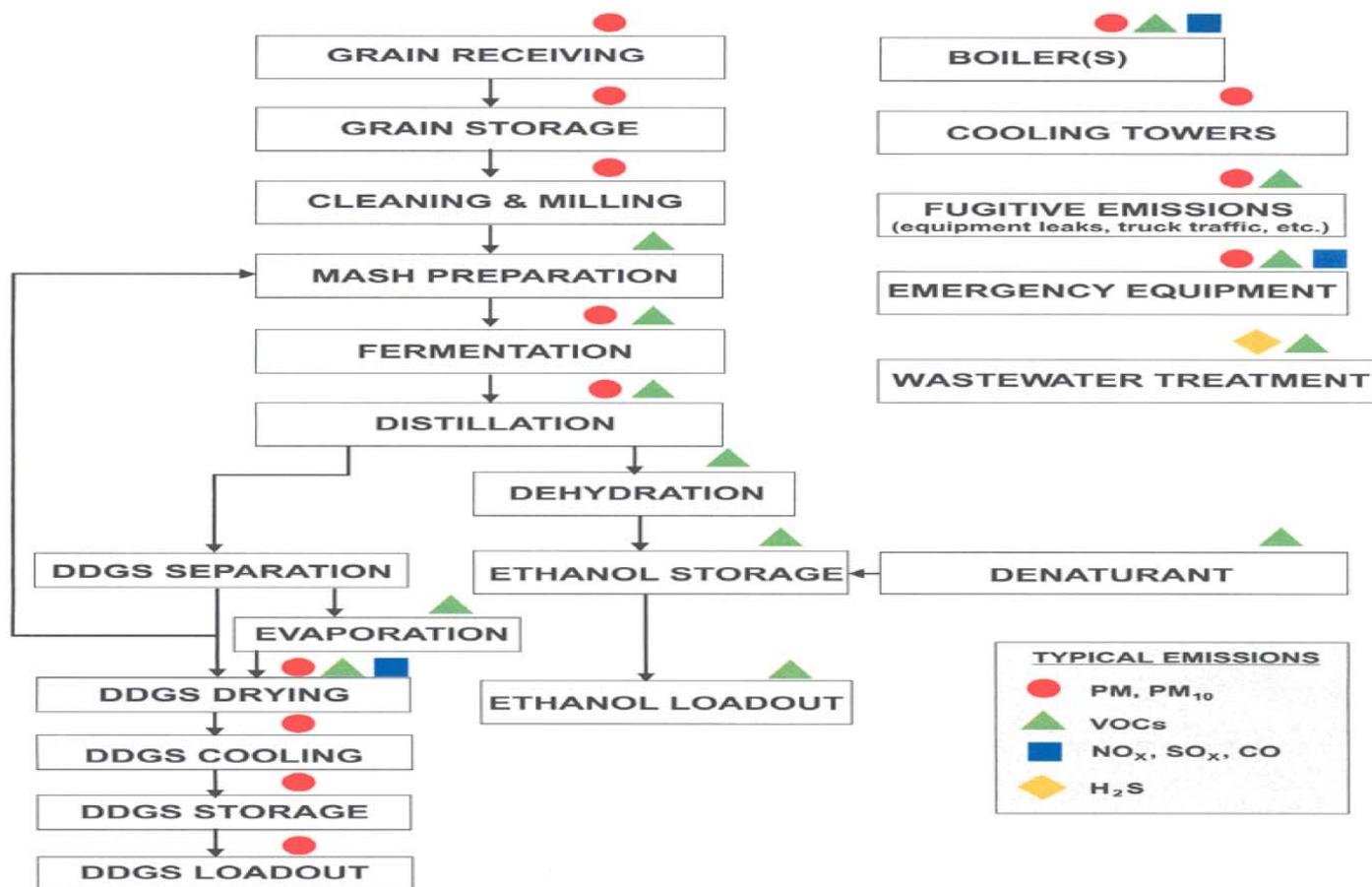
Air Permit (Construction)

- Required for construction
- Long lead time
 - Site
 - Environmental Consultant
 - Local Civil
 - Rail Design
 - Plant Design Firm
 - Discovery
 - Application
 - Review
 - Approval
- NSPS Requirements



Air Permit (Construction)

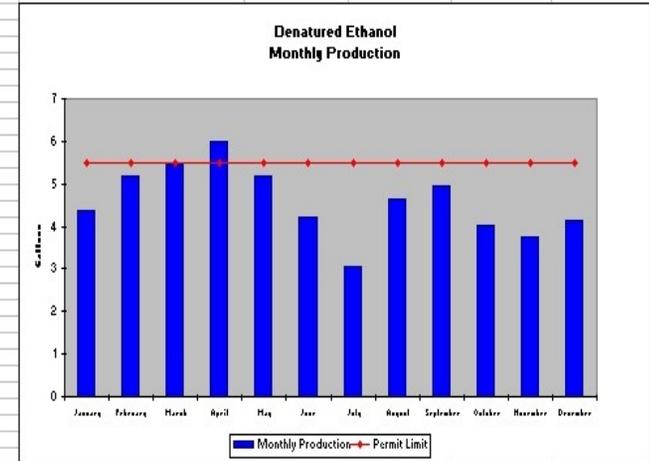
Emissions Modeling – Major or Minor Source



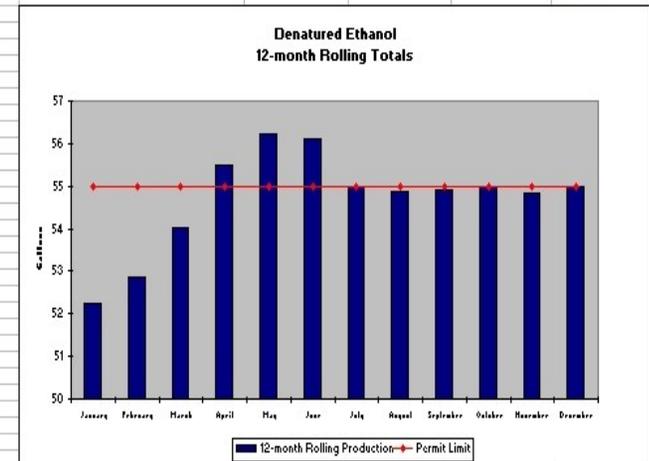
Air Permit (Operations)

- Monthly and Annual Production Limits
 - Monthly limits
 - 12-month rolling averages
- Monitoring of Operating Parameters
 - Control Equipment
 - Material Usage
- Continuous Emissions Monitoring (CEMs)

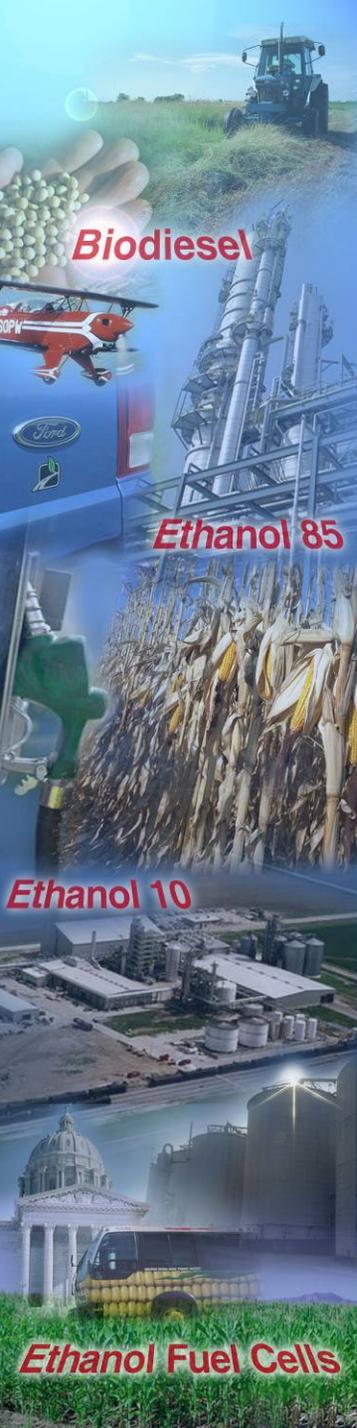
Compliance Summary for Production



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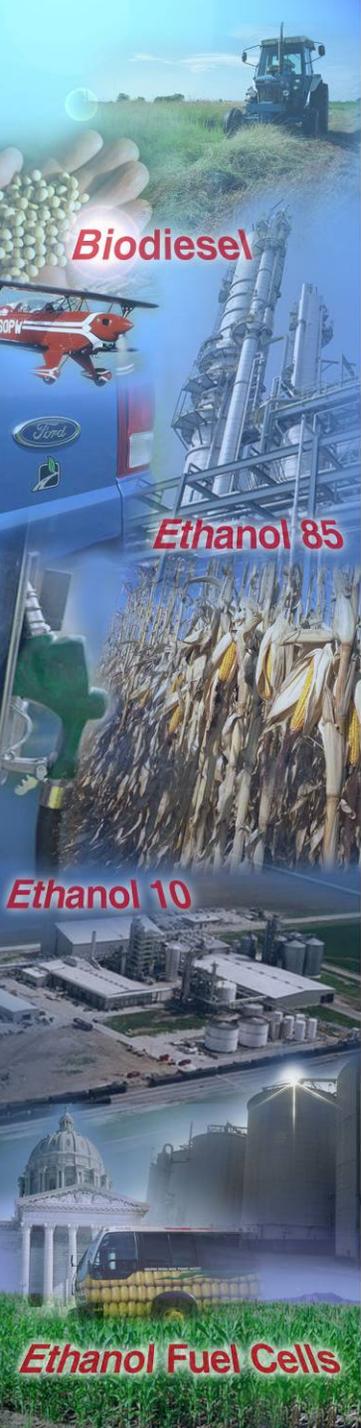


Biodiesel

Ethanol 85

Ethanol 10

Ethanol Fuel Cells



Water Permits

- Storm Water Pollution Prevention Plan
 - Construction
 - Industrial
- Spills
 - Control and Countermeasure (SPCC) Plan
 - Facility Response Plan (FRP)

GENERAL INSPECTION FORM

Ethanol Manufacturing
Iowa

Directions: Please complete as instructed and attach all supplementary inspection forms. Please notify appropriate Ethanol Manufacturing representatives regarding any necessary corrective actions. Upon completion of inspection please return all original forms to SWPPP file for documentation purposes.

This form must be completed at least once every 7 calendar days and within 24 hours of a precipitation event of 0.5 inches or more.

Inspector _____ **Date** _____
Qualifications _____
Days Since Last Rainfall _____ **Amount of last rainfall** _____ **inches**

Disturbed Areas or Storage Areas:
 Was there a path for pollutants to enter a drainage system? Yes _____ No _____
 Describe _____

Erosion and Sediment Controls:
 Are the controls working effectively? Yes _____ No _____
 If not, please describe. _____

Are the controls effective in preventing significant impacts to receiving waters? Yes _____ No _____
 If not, please describe. _____

Location of Vehicles entering/exiting:
 Is there evidence of off-site tracking? Yes _____ No _____
 If yes, please describe. _____

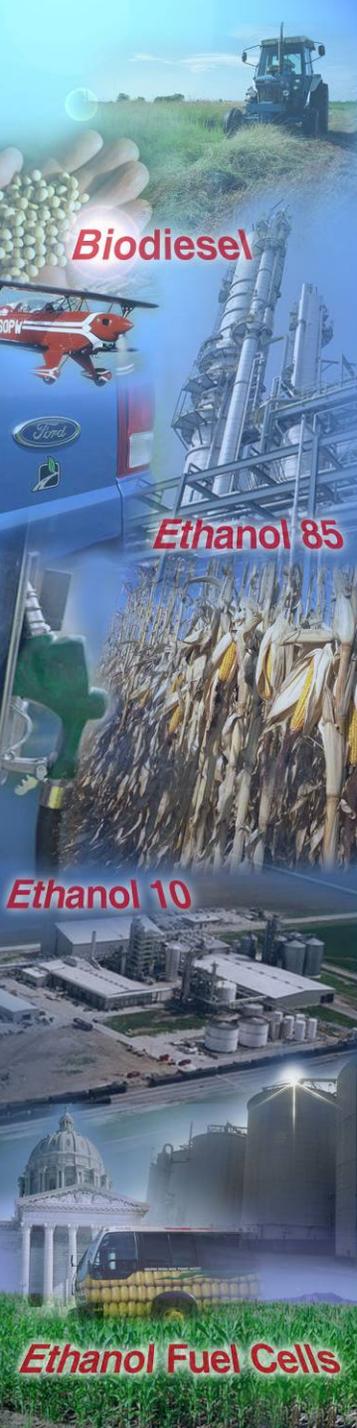
Were pollutant sources found to have entered waterways? Yes _____ No _____
 If yes, please describe the measure(s) being taken to prevent this from occurring again.

Please provide a summary of your Major Observations. _____

Signature of Responsible Official or Authorized Representative *Date*

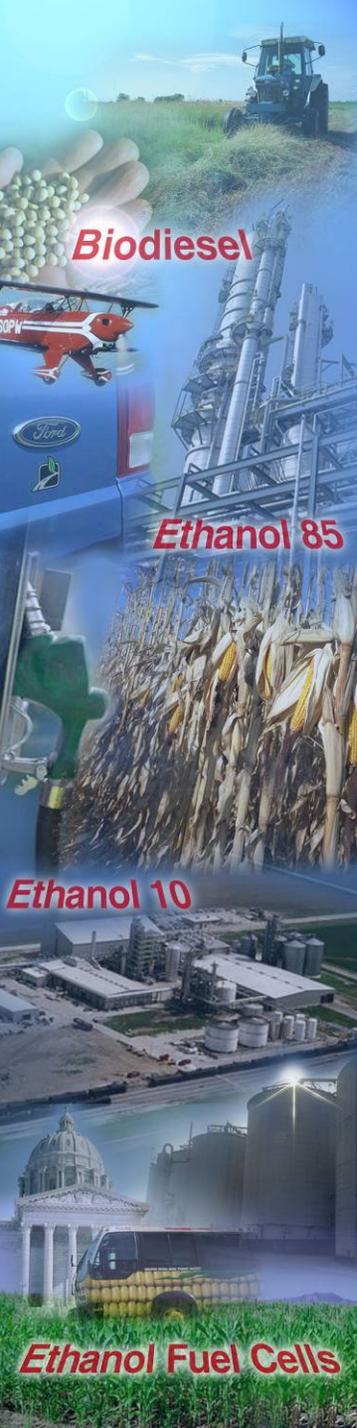
Water Permits

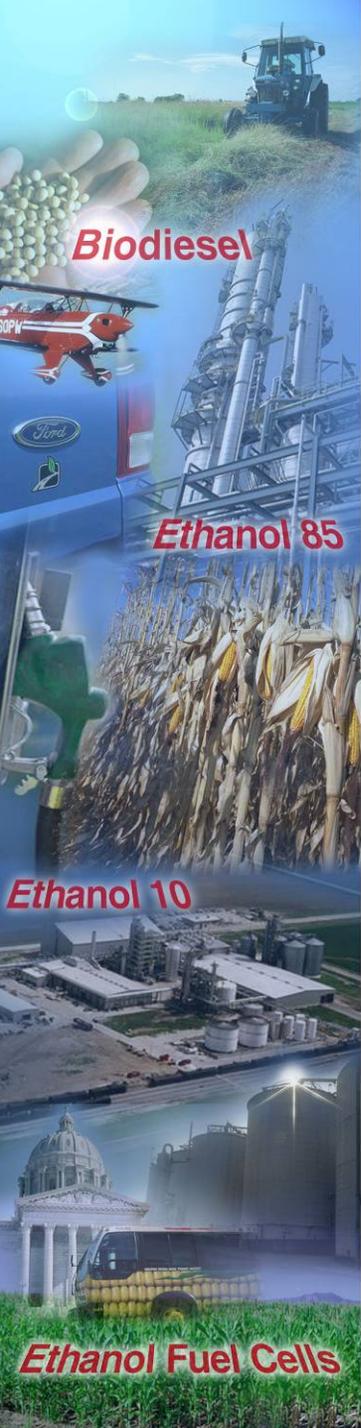
- National Pollution Discharge Elimination System (NPDES)
 - Discharge Monitoring Reports (DMR)
 - Sampling and Reporting
- Production Wells
- Public Water Supply



Chemicals

- Storage Tanks
 - Leak Detection and Repair (LDAR) Program
- Toxic Release Inventory (TRI)
- Chemical Inventory (Tier II/III)
- Hazardous Waster Generation (CESQG, SQG or LQG)





Thank You



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