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**SPILLS HAPPEN**

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**Risk Assessment**

What type of material spilled?

- Check Container Labels
- Material Safety Data Sheet (MSDS)
- Generators Knowledge



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### Risk Assessment

#### Where did the spill originate?

- Check known storage locations
- Shipping Receiving locations
- Fueling stations



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### Personal Protection Equipment

#### Determine the appropriate protective equipment

- Material Safety Data Sheet (MSDS)
- Generators Knowledge

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### Containment

Stop the material from spreading by using the following methods.

- Booms
- Absorbent Pads
- Dirt Dykes
- Absorbent Socks



Protect storm drains and other outlets.

- Seal Drains
- Divert Material away from drains and other outlets



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### Stop the leak at the source

**Safety First!!**  
Training

- Close valves
- Upright over turned containers
- Replace bungs/lids on containers
- Rotate containers that may have been punctured

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### Clean Up Begins

- Determine the amount of spill
- Investigate the areas the spill could have spread to:
  - Storm water drains
  - Storm water drainage ditches
- Determine if an environmental contractor needs to be called
- Or can the facility handle the spill?



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### Dry Method

- Use dry methods to clean up spills, where applicable.
- Absorbent materials should be swept up immediately, then properly disposed of.



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### Mitigation

- Mitigation agents can be used to clean spills
  - Hydrocarbons, Food Grease (check with manufacturer)



- Mitigation agents should be:
  - Properly diluted (3%-6% for standard application),
  - Scrubbed in with a broom, and
  - Runoff should be collected for proper disposal

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### Land Remediation

- Identify chemicals of concern
- Consider human health, ecological concerns, and groundwater protection
- May need to remove and replace soil
  - Proper disposal of contaminated soil
- Or remediate soil on-site depending on contaminants involved and level of contamination
  - See hand out in folder

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### Storm Drains

- Storm drain inlets are receptacles whose sole function is to catch surface water runoff from rainfall, and deliver it to the storm drain system where it is eventually delivered to local creeks and rivers.



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### Storm Drain and Water Ways

- Spills that enter storm drains and water ways must be reported immediately
  - 911
  - 24hr storm water emergencies 990-6833




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### Disposal of Used Material

- Absorbent material takes on the same characteristics as the materials it was used to absorb. Classifying it as a hazardous waste.
- Used material should be disposed of by using:
  - Notify your local landfill to see if they can accept the material
  - Contact a clean up contractor, who is licensed to remove the material
  - Oily rags can be cleaned by an industrial cleaning co.
  - Dispose according to federal, state, and local regulations

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### Report/Document

- Report spills to the proper legal authorities in your community.
- Fill out all necessary reports in accordance with local laws.
  - REPORTABLE QUANTITIES

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### Reportable Quantities

- Who do you report to:
  - Oklahoma Department of Environmental Quality  
1-800-522-0206
  - National Response Center 1-800-424-8802
  - Local Emergency Planning Committee (LEPC)
    - Oklahoma County 405-713-1044
    - Canadian County 405-651-6600
    - Cleveland County 405-321-8600
  - Oklahoma City Storm Water Quality 405-297-1774

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### Reportable Quantities (RQ)

- Releases of a hazardous substance as listed in 40 CFR 302.4
- Fuel Spills – Gasoline, Diesel
  - Any amount into water must be reported
  - Spills onto concrete or asphalt that are completely contained do not need to be reported
  - Spills onto land of 25 gallons or more must be reported

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### Damage of dumping oil...

- Dumping anything, including oil, into the storm drain system is illegal.
- One quart of oil can contaminate 2 million gallons of drinking water.
- Oil can be toxic or damaging to fish, other aquatic life, and to humans.

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### Decontaminate and Restock Materials

- Clean all tools and reusable materials properly before reuse
- Restock spill kits
- Absorbing materials
- Safety Equipment
- Mitigation agents etc...

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### Spill Kits and Absorbents



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### Review Plans and Procedures

- Storm Water Plan
  - Are emergency numbers correct
  - Are BMPs effective
  - Document any Changes
  - Document spill and clean-up procedure
- Spill Prevention Plan

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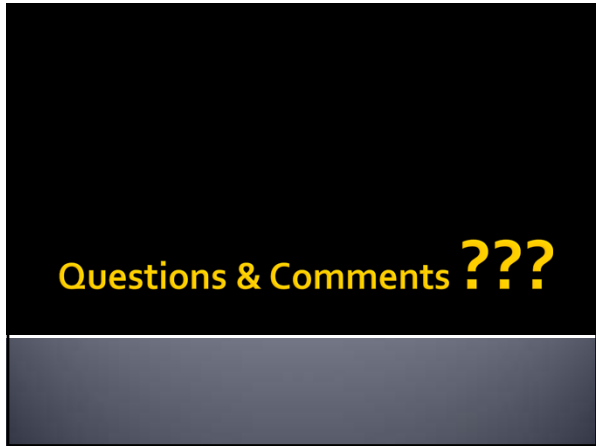
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