Regulatory Requirements of the Graphic Communications Industry

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General Information

- Safety and health issues addressed by Occupational Safety and Health Administration (OSHA) at federal level.
- Environmental issues addressed by Environmental Protection Agency (EPA) at federal level.

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OSHA Regulations



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OSHA Regulations

Background information:

Created by Occupational and Safety Act

Purpose: Develop and enforce laws, rules, standards, and mandates that require employers to provide a work environment free from potential health and safety hazards.

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OSHA Regulations

(Background continued)

States have the option of creating and enforcing their own OSHA-approved program - 23 states have state OSHA programs

 OSHA rules apply to every private employer, except those covered under other federal legislation (i.e., schools).

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OSHA Inspections

- There are six types of inspections:
 - 1. Imminent Danger
 - 2. Catastrophes and fatalities
 - 3. Employee complaints
 - 4. Programmed
 - 5. Drive-by
 - 6. Follow-up

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OSHA Inspections

 If the inspection shows the existence of hazards or violations of the various rules, citations or "notification of violations" (nov's) may be issued.

Violations are classified according to the potential threat of harm to the employees.

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OSHA Inspections

- Violation classifications:
 - 1. Serious
 - 2. Other than serious
 - 3. Regulatory
 - 4. Willful
 - 5. Repeat
 - 6. Failure to abate

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OSHA Rules



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Hazard Communication Standard

- Has five components:
 - 1. Written program
 - 2. Chemical inventory
 - 3. Material Safety Data Sheets (MSDS)
 - 4. Labeling information
 - 5. Employee training

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Lockout Tagout

- Four components:
 - 1. Written program
 - 2. Equipment

hazard analysis

3. Written

procedure

4. Employee training



Personal Protectio Equipment

- Four components:
 - 1. Written program
 - 2. Task review
 - 3. Written

procedures

4. Employee



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Personal Protection

- First Aid: Kits must be compatible with materials present and processes used.
- Eyewash Stations: Must be able to maintain water flow for fifteen minutes.
- Hygienic Practices
- Temperature-related Illnesses

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Fire Hazards



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Fire Hazards

Fire Extinguishers

Classified according to type(s) of materials ignited -- A, B, C, D

Must be identified, mounted at a height of four feet, annual inspections, employee training, identified for type of fire, accessible.

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Fire Hazards

Sources

No Smoking in areas where flammable or combustible materials are present.

Exposed wiring

Flammable materials storage

Dust

Flammable vapors

DI C.-If C---

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Fire Hazards

(Sources continued)

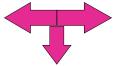
Heat-generating equipment
Transformers/breaker boxes: 4 foot rule

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Emergency Evacuation

 Emergency plan that details evacuation routes, procedures, and employee accountability system.



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Electrical Hazards

- All wiring in good condition -- no taping
- Outlet/switch face plates in place
- Extension cords temporary use only
- Mark "High Voltage" areas
- Do not knot or kink cords
- Do not use multiple outlet adapters

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Hearing Conservation

- Cannot exceed 85 dB over an 8-hr time.
- Hearing protection must be worn
- May need a Hearing Conservation Program

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Paperwork Requirements

- OSHA Form 300 and 300A: Log of Work-Related Injuries & Illnesses, Summary
- Poster 2203:Job Safety & Health Protection



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Hazardous Materials Plan

- Details proper notification and cleanup procedures in case of spill, leak, or release.
- Identifies chemicals and their quantities.





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Bloodborne Pathogen

- Protect first aid providers from fluid transmittable diseases - HIV, Hepatitis B
- Need only if company has a designated first aid provider.



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Ergonomics

- No formal federal standard -- yet!
- Back injuries number one business-related injury.
- Repetitive motion



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Machine Guarding

- Any place where a nip points exists must be guarded.
- Cannot be removed or bypassed.
- Old equipment may require guards be manufactured.



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Environmental Regulations



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General Information

Where do the rules come from? Federal: EPA

State: TCEQ (formerly TNRCC)

Local

 Rules are not mutually exclusive - many crossover to safety and health laws

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Hazardous Waste

• Rule Origins:

EPA: 40 CFR

TCEQ: TAC Chapter 335 Subchapter R

Local: Industrial Wastewater

Ordinance

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Hazardous Waste

Know your waste generator status

Conduct a waste evaluation for sources of waste in all departments including office, prepress, pressroom, bindery.

Status based on amount of hazardous waste generated per calendar month.

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Hazardous Waste

- Three different waste generator categories:
 - 1. CESQG: 100 kg/month (26.5 gals)
 - 2. SQG: 100-1000 kg/month (275 gals)
 - 3. LQG: >1000 kg/month

Each category has its own set of requirements and restrictions.

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Hazardous Waste

- What makes a material hazardous?
 - 1. Listed
 - 2. Characteristic: ignitability, corrosivity, reactivity, or EP toxicity
- Have all product MSDSs available
- Create "Paper Trail"
- Must notify state of any hazardous waste activity

DI C...If C----

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Hazardous Waste

- Use reputable waste transporter and disposal facility.
- "Cradle-to-Grave" responsibility
- Illegal waste disposal carries penalties plus jail time.
 - * Company owners, managers can be held liable.

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Air Issues

 EPA: Clean Air Act
 Set NAAQS (National Ambient Air Quality Standards)

Based on NAAQS, non-attainment areas were created

Houston-Galveston: severe, 25 tpy

Dallas: serious, 50 tpy

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Air Issues

- TCEQ had to develop a State Implementation Plan (SIP) to demonstrate how the state will comply with the federal mandate and get nonattainment areas to meet compliance levels.
- Local: Ordinance 92-180 -- If do not need state permit but emit VOCs, must register with city of Houston.

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Air Issues

 Various limits require certain activities
 10 tpy requires annual EI (Emissions Inventory)

Houston: state operating permit for single piece of equipment at 15 tpy or 25 tpy for facility.

Must have permits before can operate - 6-9 months to obtain permit.

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Air Issues

 Primarily looking at VOC's (Volatile Organic Compounds) found in almost all graphic products

High content products are IPA, b&r washes, color washes, deglazers

Inks are not generally high VOC content products, but use large quantities.

Must calculate VOC emissions annually

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Air Issues

- What can you do to reduce emissions?
 - 1. Try alternative products
 - 2. Management practices



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Storm Water

- Relatively new rules/requirements although has been around for 5+ years.
- Help prevents contaminated storm water runoff from entering waterways.



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Environmental Summary

• What's Next? The demise of shop towels?



 Who can help? Trade association, Small Business Assistance Program, PNEAC



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Environmental Summary

- Reduce, reuse, recycle
- Pollution Prevention (P2): a management system for eliminating or reducing pollution at the source.

*Main objective: reduce the amount of waste generated to begin with.

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And Finally...

JHANKYOU!

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