# Injury and Illness Prevention Program Bloodborne Pathogens Biohazardous Waste Hazardous Waste

October 2018 - Training for the Sheriff Property & Evidence Unit

#### Occupational Health Program(OHP)

#### PURPOSE:

- Help Departments create a healthy & healthy & safe workplace for their employees attributions to safe workplace for their employees
- Supply information
- Consultation
- Identify, evaluate and control on environmental and occupational health hazards

#### OHP

In-line with the County's Employee Wellness and Work Safe Stay Healthy initiatives to provide a holistic approach to overall employee well being



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#### **OHP Services**

- Chemical exposure monitoring
- Chemical safety consulting
- Respiratory protection fit-testing, program management, selection
- Asbestos and lead management
- Indoor air quality investigations
- Lab hoods and medical ventilation evaluations
- Noise evaluations
- Ergonomic consultations
- · Injury and illness Departmental reviews
- Environmental compliance assistance
- Biological hazard control (e.g., tuberculosis, MRSA)
- Employee training

## Injury and Illness Prevention Program (IIPP or I2P2)

- Background
- Summary of requirements
- Resources

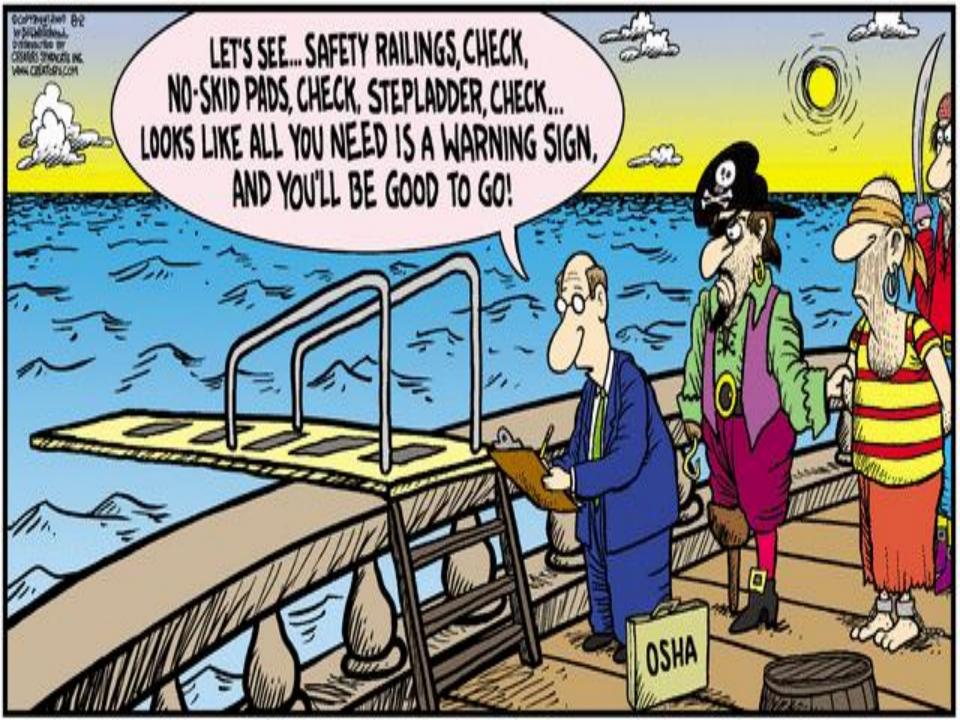












#### **Workplace Hazards-Universal Hazards**

All County employees face universal hazards such as:

- Ergonomics
- Office/Warehouse Safety
- Driving
- Fire





#### **Workplace Hazards-Specialized Hazards**

In addition, some County employees face "specialized" hazards such as:

- Exposure to chemicals
- Exposure to heat
- Exposure to biological agents
- Tools or equipment
- Traffic
- Violence



#### What is an IIPP?

An umbrella program, under which all employee health and safety programs are implemented.



## Why does the County Need an IIPP?

- To comprehensively address employee hazards in an effort to keep employees safe and healthy.
- The County's goal is to return employees home after work in the same condition as when they arrived at work.

- To provide a safe and healthful workplace for employees
- To reduce risk of disease, illness, injury and harmful exposures for County employees
- To improve employee morale and efficiency
- To reduce worker's compensation claims and costs
- To comply with the regulatory mandates (Cal/OSHA requires an IIPP, <u>Title 8 California</u> <u>Code of Regulations Section 3203</u>)

#### **Goals of an Effective IIPP**

Management commitment and assignment of responsibilities.



Whose idea was this?

Management commitment and assignment of responsibilities.

A two way safety communications system between employer and employee.





- Management commitment and assignment of responsibilities.
- A two way safety communications system between employer and employee.
- A system for assuring employee compliance with safe and healthy work practices.



Aren't there ladders in this building?

- Management commitment and assignment of responsibilities.
- A two way safety communications system between employer and employee.
- A system for assuring employee compliance with safe and healthy work practices.
- Scheduled inspections and evaluations of workplace hazards.
- Procedures for correcting unsafe or unhealthy conditions.



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> Accident investigations



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- Accident investigations
- Recordkeeping and documentation
- Health and safety training and instruction



- Injury and Illness Prevention Program (IIPP)
- Back Safety and Lifting (Back & Lifting exercise demo)
- Driving Program
- Emergency Action Plan

- Ergonomics
- Office Safety Program
- Security andWorkplace ViolenceProgram
  - Staying Healthy:
     Minimizing Exposure
     to Colds and Flu

### **Universal Safety Topics**

- Hazard Communication
- First Aid/CPR
- Heat Illness Prevention Program
- Personal Protective Equipment
- Respiratory Protection
- Bloodborne Pathogen Program
- Other Biohazards
- Chemical Hygiene Plan

- Laboratory Hood Operations
- Zoonotic Aerosol
   Transmissible Diseases
- Aerosol Transmissible
   Diseases
- Radioactive Materials and Radiation
- Pesticide Safety
- Asbestos Related Work
- Lead Related Work

### **Specialized Topics**

- Hearing Conservation Program
- Hazardous Waste
   Operations and
   Emergency Response
   Standard
- Scaffolds and Ladders
- Confined Space
- Forklift Operations
- Lockout / Tag out

- Welding and Cutting
- Electrical Safety
- Fire Safety
- Traffic Control
- Trenching and Excavation
- Fall Protection
- Mechanized Equipment

### **Specialized Topics**

- <u>IIPP Template</u> (County of San Diego)
- Guide to Developing Your Workplace Injury and Illness Prevention Program with Checklists for Self-Inspection (Cal/OSHA)
- <u>California Code of Regulations Title 8 Section 3203</u> (Cal/OSHA IIPP regulations)
- Handout for ladders

#### **IIPP Resources**

 Contact Judy Flores and/or Brian Nichols for details on your specific program.

#### SAN DIEGO COUNTY SHERIFF'S PROPERTY AND EVIDENCE UNIT

#### INJURY AND ILLNESS PREVENTION PROGRAM

California Code of Regulations, Title 8, Section 3203

PROPERTY/EVIDENCE MANAGER: JUDY FLORES

SAFETY OFFICER:

NOVEMBER 2012

## Property and Evidence Unit's IIPP

#### **BLOODBORNE PATHOGEN STANDARD**



#### What is a Bloodborne Pathogen?

Microorganisms that are carried in the blood that can cause disease in humans



• specific exposures, protective equipment, and all elements of your Exposure Control Plan.

### **Bloodborne Pathogens**



Inhalation



Ingestion



**Surface Contact** 

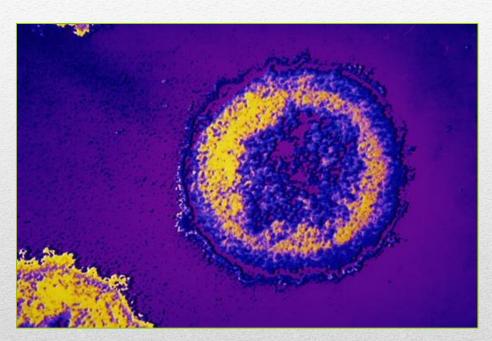


Bloodborne

## Common Means of Disease Transmission

## Cal/OSHA Recognized Bloodborne Pathogen Diseases

- HumanImmunodeficiencyVirus (HIV)
- Hepatitis B(HBV)
- Hepatitis C(HCV)



- Leads to AIDS
- Depletes the immune system
- Does not survive well outside the body
- Number of cases occupationally transmitted
- · No cure, no vaccine

### Human Immunodeficiency Virus (HIV)

### **Hepatitis B (HBV)**

- Symptoms include: jaundice, fatigue, abdominal pain, loss of appetite, intermittent nausea, vomiting
- May lead to chronic liver disease, liver cancer, and DEATH

- Vaccination available since 1982
- HBV can <u>survive for</u>
   at least one week in
   dried blood
- Number of cases occupationally transmitted

- Hepatitis C is the most common chronic bloodborne infection in the United States
- Symptoms include: jaundice, fatigue, abdominal pain, loss of appetite, intermittent nausea, vomiting
- May lead to chronic liver disease and DEATH
- No vaccine

### Hepatitis C (HCV)

## Potentially Infectious Bodily Fluids

- Blood
- Semen, vaginal secretions
- Other body fluids

### Occupational Routes of Entry for HIV, HepB, HepC

Contact with another person's blood or bodily fluid that may contain blood

- Injection (contaminated sharps/needles)
- Mucous membranes: eyes, mouth, nose
- Non-intact skin



# In order to protect employees from exposure to bloodborne pathogens, OSHA passed a standard

- Fed/OSHA's standard effective Dec 6,
   1991
- Cal/OSHA's **original** standard effective shortly after that
- Cal/OSHA revised standard 1999

## CAL/OSHA'S STANDARD

TITLE 8
CALIFORNIA CODE OF REGULATIONS
SECTION 5193

http://www.dir.ca.gov/title8/5193.html

- (a) Scope and Application
- (b) Definitions
- (c) Exposure Response,
   Prevention, and Control
- (d) Methods of Compliance
- (e) HIV, HBV, and HCV Research Laboratories and Production Facilities

#### CONTENTS

- (f) Hepatitis B Vaccination and Post Exposure Evaluation and Follow-Up
- (g) Communication of Hazards to Employees
- (h) Recordkeeping

#### **CONTENTS** (cont'd)

- Exposure Control Plan
- Exposure Determination
- Sharps Injury Log

## (C) EXPOSURE RESPONSE PREVENTION AND CONTROL

#### SAN DIEGO COUNTY SHERIFF'S DEPARTMENT

### BLOODBORNE PATHOGEN EXPOSURE CONTROL PLAN

for

	Property and Evidence	
	(Department / Division / Facility)	
	(Preparer's Name)	
_	November 2012	_
	(Date of Prenaration/Revision)	

### **Exposure Determination**

The following are job classifications in our establishment in which **ALL** employees have occupational exposure to bloodborne pathogens:

Job Title	Department/Location
(example: Phlebotomist)	(example: Clinical Lab)

The following are job classifications in our establishment in which **SOME** employees have occupational exposure to bloodborne pathogens:

Job Title	Department/Locati on	Task/Procedure
(example: Housekeeper)	(Environmental services)	(Handling Regulated Waste)

#### **Sharps Injury Log**

Establishment Name: Year	Establishment Name:	Year
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The Bloodborne Pathogen standard requires that you establish and maintain a Sharps Injury Log to record all sharps injuries in a facility. The purpose of this log is to help you evaluate and identify problem devices or procedures that require attention.

The Sharps Injury Log needs to do all of the following:

- Maintain sharps injuries separately from other injuries and
- Include ALL sharps injuries that occur during a calendar year
- Be retained for 5 years beyond the completion of that calendar year AND
- Preserves the confidentiality of affected employees

Date	Case/ Report No.	Type of Device (examples: syringe, suture needle)	Brand Name of Device	Work Area where injury occurred (examples: Clinic, Lab)	Brief description of how the incident occurred (examples: procedure being done, action being performed [injection, disposal], body part injured).

- Universal Precautions
- Engineering and Work Practice Controls
- Personal Protective Equipment

## (d) Methods of Compliance

## Ways to Minimize Exposure Universal Precautions

 Treat all blood and bodily fluids as if they are contaminated



#### Examples

- Sharps container
- Mechanical tools for clean-up
- Engineered sharps
- Hoods or biological safety cabinets







- Good Housekeeping/disinfection of surfaces
- Minimize manipulation of infectious material
- Talking someone through self care (first aid)
- Hand washing
- Hand washing
- Hand washing



## Ways to Minimize Exposure: Work Practice Controls

#### **HANDWASHING**

#### How to properly wash your hands

remove any rings or other jewelry; use warm water and wet your hands thoroughly.



use a sufficient amount of soap (1-3 ml) and lather very well.

lather soap and scrub hands well, palm to palm



4 Scrub

Use soap

scrub in between and around fingers and back of each hand.

scrub fingertips of each hand and under your nails in opposite palm.



6 Scrub each wrist

scrub each wrist clasped in opposite hand

rinse throughly inder running water.



Grab paper towel

with a paper towel turn off the tap or faucets

dry your hands with a single use towel or air dryer.





protect your hands from touching dirty surfaces while in the washroom and as you leave.

#### Other tips

- Cover cuts with bandages and wear gloves for added protection (cuts are very vulnerable to infections).
- Artificial nails and chipped nail polish have been associated with an increase in the number of bacteria on the fingernails. Be sure to clean the nails properly.
- Keep your hands away from your eyes, nose or mouth.
- Assume that contact with any human body fluids is infectious.
- ✓ Liquid soap in disposable containers is best. If using reusable containers, they should be washed and dried before refilling. If using a bar of soap, be sure to set it on a rack that allows water to drain or use small bars that can be changed frequently.

#### **HAND SANITIZING**

Hand sanitizing does not replace a proper handwashing technique. It should be used sparingly and only when soap and water are unavailable. It will be ineffective if hands are visibly soiled

1.

Place a drop of alcohol-based hand sanitizer, the size of a dime in your palm.



2. Rub hands together, palm to palm



Rub back of each hand with palm and interlaced fingers of the other hand.



4.
Rub around each thumb clasped



5.

Rub fingertips of each hand backward and forward in the opposite hand.



# Ways to Minimize Exposure: Use Personal Protective Equipment (PPE)



Anything that is used to protect a person from exposure

- Gloves
- Goggles, glasses, face shields
- Aprons
- Boot covers
- Respirator or barrier protection

- Always check PPE for defects or tears before using
- If PPE becomes torn or defective, remove it and get new PPE
- Remove PPE before leaving a contaminated area
- Do not reuse disposable equipment

## Ways to Minimize Exposure: PPE Rules to Remember

- Disposability
- Correct Size
- Glove Material



 Latex allergy information (<u>http://www.cdc.gov/niosh/docs/97-135/</u>)

## Ways to Minimize Exposure: Use Gloves

You have just cleaned up a small spill. You are wearing gloves. What is the proper order for taking off your gloves?

http://www.bing.com/videos/search?q=youtube+glove+ use+removal&FORM=VIRE6#view=detail&mid=BA A151C62B140207788DBAA151C62B140207788D

#### **Glove Removal**

1. Before removing disposable gloves, gather any contaminated materials used in providing first aid and/or clean up and hold them in one hand.





2. Strip off the glove containing the contaminated materials from the wrist, turning it inside out so the "clean" side is on the outside.





3. Place that glove in the other hand and strip off the glove on that hand, turning it inside out.







4. Dispose of the gloves/material in a regulated waste container.

5. Wash hands with soap and water



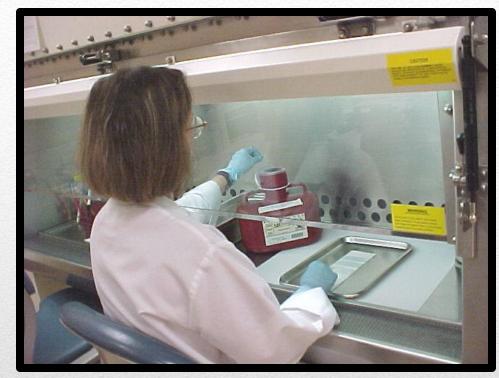
### **Exposure Controls**

#### **Waste Containers**



- Easily accessible
- Labeled or color-coded
- Leak-proof, closeable
- Puncture-resistant for sharps
- Replaced routinely (do no overfill!)





## (e) HIV, HBV, and HCV Research Laboratories and Production Facilities

- A specific incident of contact with potentially infectious bodily fluid
- Report all accidents involving blood or bodily fluids
- Post-exposure medical evaluations are offered

## (f) Exposure Incident

### **Post-exposure Evaluation**

- Confidential medical evaluation
- Document route of exposure
- Identify source individual
- Test source individuals blood (with individual's consent)
- Provide results to exposed employee



### **Hepatitis B Vaccination**



- Strongly endorsed by medical communities
- Offered to potentially exposed employees
- Provided at no cost to employees
- If employee declines, complete declination form
- More information

http://www.cdc.gov/hepatitis/ hbv/vaccadults.htm

- Labels
- Signs



Information and Training

## (g) Communication of Hazards to Employees



### (h) Recordkeeping

#### **Medical records:**

- Hepatitis B vaccination status
- Post-exposure evaluation and follow-up results

#### **Training records:**

- Training dates
- Contents of the training
- Signature of trainer and trainee



**OSHA Standard** 



# MEDICAL WASTE MANAGEMENT

### REGULATIONS GOVERNING MEDICAL WASTE MANAGEMENT

- California Health and Safety Code Section 117600 - 118360 (Medical Waste Management Act)
- San Diego County Code Section 68.1201
   (Title 6 Division 8 Chapter 12)

#### MEDICAL WASTE INCLUDES:

(1) Biohazardous Waste

(2) Medical Solid Waste

- Lab waste (specimens, stocks of infectious agents, etc.)
- Fluid blood and certain body fluids
- Sharps (needles, blades, slides)







#### **BIOHAZARDOUS WASTE**

- Specimens sent to a laboratory
- Contaminated animal carcasses
- Surgical specimens
- Other



## BIOHAZARDOUS WASTE (CONT'D)

- Empty specimen containers
- Bandages, etc. with non-liquid blood
- Gloves
- Decontaminated biohazardous waste
- Other

#### **MEDICAL SOLID WASTE**

## BIOHAZARDOUS WASTE STORAGE CONTAINERS

 Non-sharps (e.g., sputum tubing, items from lab): red bag



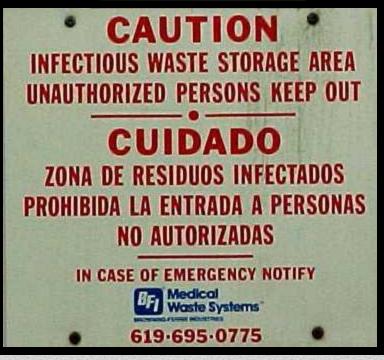
• Sharps: sharps container



#### STORAGE CONTAINERS MUST BE:

- Labeled with producer's name, address, and phone number
- Be disposed of within certain time frames
- Be kept in a secured area with sign





#### • By a registered hauler

• For small quantity facilities (less than 20 pounds per month), can self haul to a County site for consolidation (must be approved by Department of Environmental Health)

#### TRANSPORTATION

### TREATMENT

- Incineration
- Autoclave
- Other approved methods
- Discharge to sewer for SOME liquid waste. Treatment may be required.



- Biomedical waste management plan
- Waste tracking documents
- Autoclave records
- Training records

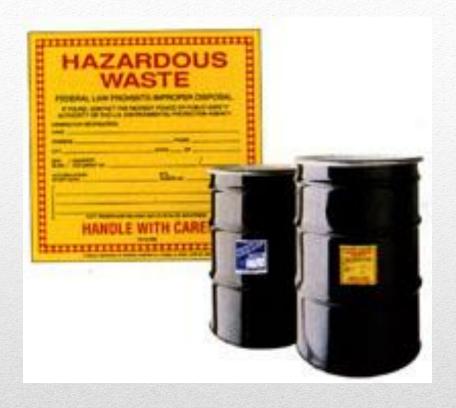


## RECORDKEEPING

## MEDICAL SOLID WASTE

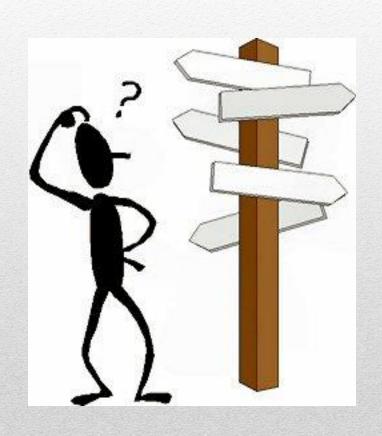
- Store in a secured area
- Locked receptacles/dumpsters





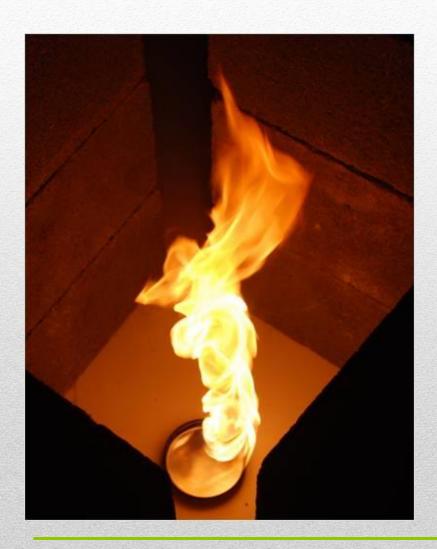
## **Hazardous Waste**

## Overview of Requirements



• The hazardous waste laws can be confusing, as there are many exemptions, exclusions, and specific criteria that must be met

### What is Hazardous Waste?



- Hazardous Waste is identified because of its quantity, concentration, physical or chemical characteristics
- Characteristics include:
  - ignitibility
  - corrosivity
  - reactivity
  - toxicity

- Environmental Protection Agency (EPA)
  - State level (Cal/EPA): Department of Toxic Substances Control (DTSC) Division
  - County level: Hazardous Materials Division
     (HMD), Department of Environmental Health
- Penalties for Mismanagement of Waste
  - Regulatory Fines
  - Civil
  - Criminal

## Who Regulates these Wastes?

# General Hazardous Waste Requirements

- Identify which wastes are hazardous waste
- Get an EPA ID Number

# General Hazardous Waste Requirements

- Store properly
- Transport using a hazardous waste hauler
- Keep records of the transportation off site
- Ensure employees are trained

- Store in a designated location and not with incompatibles
- Store in non leaking DOT approved containers





- Store in a designated location and not with incompatibles
- Store in non leaking
   DOT approved
   containers
- Keep closed



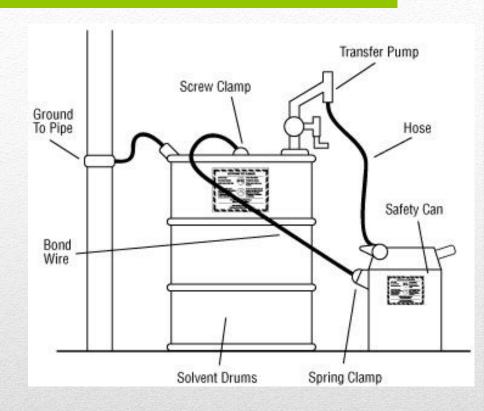


- Store in a designated location and not with incompatibles
- Store in non-leaking
   DOT approved
   containers
- Keep closed
- Label as hazardous waste

#### **HAZARDOUS** WASTE IF FOUND, CONTACT THE NEAREST POLICE OR PUBLIC SAFETY AUTHORITY, OR THE U.S. ENVIRONMENTAL PROTECTION AGENCY /MANIFEST ID NO. / DOCUMENT NO CONTENTS, COMPOSITION PHYSICAL STATE: HAZARDOUS PROPERTIES: FLAMMABLE □ TOXIC SOUD LIQUID □ CORROSIVE □ REACTIVITY □ OTHER

- Store in a designated location and not with incompatibles
- Store in non leaking DOT approved containers
- Keep closed
- Label as hazardous waste
- Store within the storage time frame
  - The Property & Evidence Unit is considered a small quantity generator and can store hazardous waste up to a year on site.

- Store in a designated location and not with incompatibles
- Store in non-leaking DOT approved containers
- Keep closed
- Label as hazardous waste
- Store within the storage time frame
- Ground/bond and 50 feet from property line (if ignitable)



- On a weekly basis all hazardous waste accumulation areas must be inspected for spills and container condition:
  - Leaking?
  - Damage?
  - Rust?
  - Bulging?
  - Dimpling?
  - Oozing?
  - Crystals?



- Compile a list of the type and amount of waste requiring disposal
- Contact a registered hazardous waste hauler
- Ensure waste is in DOT approved containers and is properly labeled
- Prepare (or review) the disposal documentation

# Hazardous Waste Disposal

- A hazardous waste **manifest** is required for most hazardous waste
- All disposal documentation must be kept for 3 years in the binder

## **Disposal Documentation**

- Check for the following:
- Site's EPA ID #/phone number
- Mailing address listed as DGS COC address
- Transported listed with EPA ID #
- Designated facility listed with EPA ID #
- Correct quantity of waste listed
- Generator certification is signed by on site contact person (County staff)

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## Hazardous Waste Manifest



# **Manifest Requirements**

- Examples
  - Fluorescent tubes
  - Batteries
  - Electronic devices
  - Non empty aerosol spray cans
- Must be labeled as universal waste and have accumulation start date
- Keep records of transport off site

## **Universal Waste**