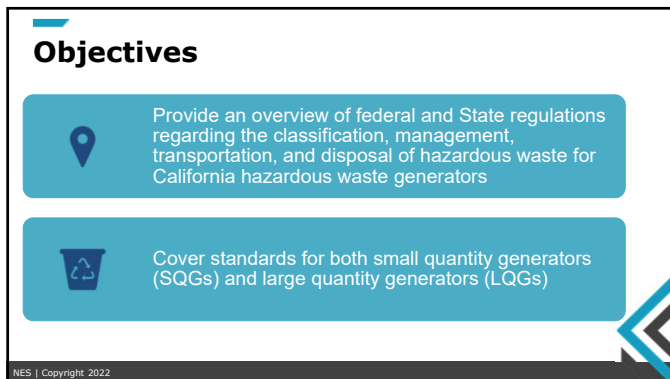




2



3



6

Course Outline

- Regulatory Overview & Recordkeeping Requirements
- Hazardous Waste Determination
- Container & Tank Management
- Shipping Requirements



7

Regulatory Overview & Recordkeeping Requirements



8

Regulatory Overview & Recordkeeping Requirements

Hazardous Waste Regulations

Resource Conservation and Recovery Act (RCRA): 40 CFR 260 – 268, 273 (universal waste)

California Statutes: HSC Division 20, Chapter 6.5

California Regulations: 22 CCR 66260 – 66268, 66273 (universal waste)

9

Regulatory Overview & Recordkeeping Requirements

Hazardous Waste Regulations

CUPA will inspect hazardous waste generators

Facilities that have an HMBP will be inspected at least once every three years


CUPA directory:
<https://cersapps.calepa.ca.gov/PublicDirectory/>

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10

Generator or Producer

A generator or producer is any person, by site, whose act or process produces hazardous waste or whose act first causes a waste to become subject to regulation as a hazardous waste.



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11

Regulatory Overview & Recordkeeping Requirements

Hazardous waste management requirements dictated by generator category

Large quantity generator (LQG)

Small quantity generator (SQG)

Very small quantity generator (VSQG)
This is federal category, which is not recognized in California

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Regulatory Overview & Recordkeeping Requirements

Hazardous waste generator category is determined by amount and type of hazardous waste generated in a calendar month

RCRA: acute or non-acute

Non-RCRA: extremely or non-extremely

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Generator Category

Generator Status	Acute / Extremely Haz Waste	Non-Acute / Non-Extremely Haz Waste	Spill Cleanup of Acute / Extremely Haz Waste
Large quantity generator (LQG)	≥ 1 kg	≥ 1,000 kg	≥ 100 kg
Small quantity generator (SQG)	≤ 1 kg	> 100 kg and < 1,000 kg	≤ 100 kg
Very small quantity generator (VSQG)	≤ 1 kg	≤ 100 kg	≤ 100 kg

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15

EPA Identification Numbers

- Each site that generates hazardous waste must have an ID number
 - California ID numbers issued by DTSC
 - CAL – permanent
 - CAC – temporary
 - EPA ID numbers issued by U.S. EPA
 - CAR, CAD, CA, or CAT – permanent
 - CAP – temporary

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16

Contingency Plans – LQGs

- Spell out emergency actions involving hazardous waste
 - Fire
 - Explosions
 - Unplanned, sudden releases/spills

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Contingency Plans – LQGs

- Contents:
 - Emergency Coordinator
 - Emergency procedures
 - Emergency services and arrangements to coordinate response actions
 - Emergency equipment
 - Evacuation Plan
 - Cal OES contact
 - Copy maintained on-site
- Reviewed and updated when:
 - Regulations change;
 - Plan fails;
 - Facility changes design or response operations;
 - Emergency Coordinator changes; OR
 - Emergency equipment changes

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18

Emergency Procedures – SQGs

- At all times, at least one employee must be available to respond to an emergency
- Information must be posted next to telephones OR in areas directly involved in the generation and accumulation of hazardous waste
 - Name & number of Emergency Coordinator
 - Location of fire extinguishers, spill control equipment, and fire alarm
 - Fire Department number

EMERGENCY PROCEDURES
For environmental operations

In case of a fire, spill, or other emergency involving hazardous chemicals or wastes, do the following:

Major Emergency

- ☐ Evacuate the affected area per the Facility Evacuation Plan
- ☐ Call 911 and report the emergency
- ☐ Report the emergency to the Facility Emergency Coordinator

Minor Emergency

- ☐ Try to control the emergency if you are trained to do so and can do it safely
- ☐ Report the emergency to the Facility Emergency Coordinator

Facility Emergency Coordinators

Priority (1)	Name	Work Phone	24 Hour Phone
1st alternate (1)	_____	_____	_____
2nd alternate (1)	_____	_____	_____
3rd alternate (1)	_____	_____	_____

Emergency Agencies

Agency	Phone No.
Cal OES - Air Quality Section	916
Cal OES - Air Quality Section	(916) 337-3338
_____	_____

Emergency Equipment

Location of the extinguishers, the dikes (if any), and equipment for controlling chemical spills are shown on the facility site plan posted on this wall.

This document is only a summary of emergency procedures. Refer to this facility's written emergency response plan for detailed procedures.

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19

Hazardous Waste Tank Assessments

- LQGs who accumulate hazardous waste in tanks must have a tank assessment that is certified by a PE
 - Assessment must be completed prior to putting tank into service
- New tank systems must be reassessed every five years

Flowchart details: A purple box labeled 'New Tank System Assessment' has two arrows pointing to orange boxes: 'After July 14, 1986' and 'After July 1, 1991'. The first arrow points to a blue box 'RCRA HazWaste', and the second points to a blue box 'Non-RCRA HazWaste'. Both blue boxes have arrows pointing to a red box 'Reassess Every 5 Years by PE'.

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Hazardous Waste Tank Assessments

Assessment of the tank must include:

- Tank configuration, material of construction, and capacity
- Design standard
- Description of tank system piping
- Description of any internal and external pumps
- Sketch or drawing of tank including dimensions
- Documented age of the tank system
- Evaluation of leak detection, spill prevention equipment, and containment
- Evaluation of corrosion protection
- Characteristics of the waste accumulated in tank
- Remaining service life of tank

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3. Not being a U.S. Government information system includes systems operated on behalf of the U.S. Government.

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Biennial Report

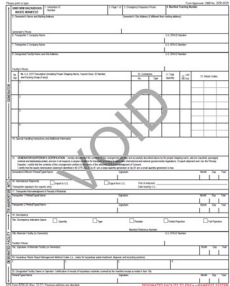
- Required & certified by **RCRA** LQGs
- Report covers odd-numbered year (2023)
 - Contains amounts by waste code
 - Identifies source and origin of waste
 - Identifies disposal method (recycled, incinerated, etc.)
 - Describes waste minimization efforts
- Due March 1st of even-numbered year (2024)
- Copy kept on-site for three years

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Disposal & Recycle Records



- Uniform Hazardous Waste Manifests
- Consolidated manifests
 - Maintained for three years from date of shipment
- Land Disposal Restriction (LDR) forms
 - Maintained for three years from date waste last shipped off-site

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23

Record Retention

- Waste analytical test analyses
 - Three years from date waste was last shipped off-site
- Container and tank inspections
 - Best management practice (BMP) three years from date of inspection
- Tank inspections
 - Three years from date of inspection
- Emergency equipment inspections
 - Three years from date of inspection

LQGs: Required to keep tank & emergency equipment inspection records for three years

SQGs: Not required to keep inspection records but recommended as a BMP

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Training Requirements – SQGs

-  Employees must be familiar with proper waste handling and emergency response procedures relevant to their responsibilities
-  Annual training is not required for SQG under hazardous waste law
If an SQG has a Hazardous Materials Business Plan (HMBP), then annual training on the elements of the HMGP, including handling and spill response, is required
-  Annual training is a best management practice (BMP)

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Training Requirements – LQGs

Personnel must successfully complete a program of either:

- Classroom or electronic (computer-based, etc.) instruction; OR
- On-the-job (OTJ) training

Training must cover hazardous waste management procedures and emergency response training

Training must be provided within 180 days of hire / job placement

Annual training required

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Training Requirements – LQGs

Personnel involved in shipping hazardous waste must receive [DOT Hazmat Employee](#) training.



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Training Requirements – LQGs

Documentation

- Description for each position related to hazardous waste management including the requisite skills, education, or other qualifications and duties of employees assigned to each position
- Job title for each position related to hazardous waste management and the name of the employee filling each job
- Description of the type and length of training needed for each position
- Records to document that training has been provided and completed
- Records are to be kept until facility closure for current employees
 - Three years for former employees

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Hazardous Waste Determination

A person who generates a waste must determine if it is hazardous by determining if the waste:

- Is excluded from regulation
- Is listed
- Exhibits any hazardous waste characteristics

Determinations can be made by:

- Testing the waste
- Generator's knowledge

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Hazardous Waste Determination

RCRA Hazardous Waste	Non-RCRA Hazardous Waste
<ul style="list-style-type: none">• Listed<ul style="list-style-type: none">• Unspent (U & P)• Spent (F & K)• Characteristic<ul style="list-style-type: none">• Ignitable (D001)• Corrosive (D002)• Reactive (D003)• Toxic (D004 - D043)	<ul style="list-style-type: none">• Presumptive lists<ul style="list-style-type: none">• Common name• Chemical constituents• M-listed waste• Characteristic<ul style="list-style-type: none">• Ignitable• Corrosive• Reactive• Toxic

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F-Listed Wastes

- Spent waste from non-specific sources:
 - Spent solvent wastes (F001 – F005)
 - Electroplating & metal-finishing wastes (F006 – F012 & F019)
 - Dioxin-containing wastes (F020 – F023 & F026 – F028)
 - Chlorinated aliphatic hydrocarbons production wastes (F024 & F025)
 - Wood-preserving wastes (F032, F034 & F035)
 - Petroleum refinery wastewater treatment sludges (F037 & F038)
 - Multi-source leachate (F039)

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K-Listed Wastes

Spent Waste from Specific Sources

- | | |
|-----------------------|------------------------------|
| • Wood preservation | • Iron & steel |
| • Inorganic pigments | • Primary aluminum |
| • Organic chemicals | • Secondary lead |
| • Inorganic chemicals | • Veterinary pharmaceuticals |
| • Pesticides | • Ink formulation |
| • Explosives | • Coking |
| • Petroleum refining | |

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Unspent Listed Wastes

- Pure or commercial grade formulations of **unused** chemicals
 - Pure grade – 100%
 - Technical grade – All commercial grades of a chemical, which may be marketed in various stages of purity
 - Sole active ingredient – The only chemically active component for the function of the product
- Any chemical used for its intended purpose does not meet a P or U listing

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Unspent Listed Wastes

- P-listed wastes
 - Acute hazardous, include:
 - Contaminated containers
 - Spill cleanup
- U-listed wastes
 - Toxic (unless otherwise noted)


EPA HAZARDOUS WASTE NO.	SUBSTANCE	EPA HAZARDOUS WASTE NO.	SUBSTANCE
P001	Acrylonitrile, (Sto.)	U001	Acetone (Sto.)
P002	Acrylonitrile, (Sto.)	U002	Acrylonitrile, (Sto.)
P003	Acrylonitrile, (Sto.)	U003	Acrylonitrile, (Sto.)
P004	Acrylonitrile, (Sto.)	U004	Acrylonitrile, (Sto.)
P005	Acrylonitrile, (Sto.)	U005	Acrylonitrile, (Sto.)
P006	Acrylonitrile, (Sto.)	U006	Acrylonitrile, (Sto.)
P007	Acrylonitrile, (Sto.)	U007	Acrylonitrile, (Sto.)
P008	Acrylonitrile, (Sto.)	U008	Acrylonitrile, (Sto.)
P009	Acrylonitrile, (Sto.)	U009	Acrylonitrile, (Sto.)
P010	Acrylonitrile, (Sto.)	U010	Acrylonitrile, (Sto.)
P011	Acrylonitrile, (Sto.)	U011	Acrylonitrile, (Sto.)
P012	Acrylonitrile, (Sto.)	U012	Acrylonitrile, (Sto.)

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RCRA Ignitable Characteristic – D001

- Liquid (other than < 24% alcohol by volume) with a flash point < 140°F (60°C)
- A solid that can cause fire through friction, absorption of moisture, or spontaneous chemical changes and, when ignited, burns vigorously and persistently
- Is an ignitable compressed gas
- Is an oxidizer

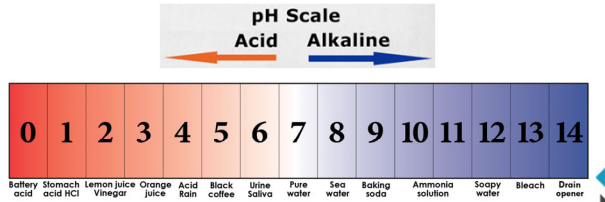


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RCRA Corrosive Characteristic – D002

- Aqueous with pH ≤ 2.0 or ≥ 12.5; OR
- Liquid that corrodes steel at ¼ inch (6.35 mm) per year



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RCRA Reactive Characteristic – D003


Unstable and undergoes violent change w/o detonating;
Reacts violently with water;
Forms an explosive mixture with water;
Generates toxic gases, vapors, or fumes with water;
Cyanide- or sulfide-bearing waste producing toxic gases, vapors, or fumes @ pH 2 – 12.5;
Capable of detonation or an explosive reaction; OR
Forbidden explosive (49 CFR 173.51)

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RCRA Toxic Characteristic – D004 – D043

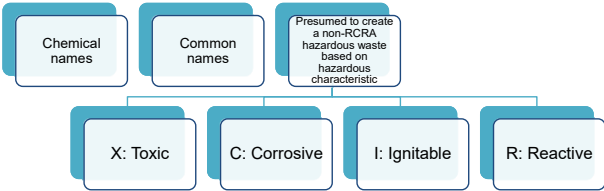
- Applies to eight inorganic elements and 32 organic compounds
- Tested using EPA Toxicity Characteristic Leaching Procedure (TCLP)
- Regulated if > specified threshold



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40

California Presumptive Lists




```
graph TD; A[Chemical names] --- B[X: Toxic]; A --- C[C: Corrosive]; A --- D[I: Ignitable]; A --- E[R: Reactive]; B --- C; C --- D; D --- E;
```

NES | Copyright 2022 22_CCR, Div. 4.5, Chap. 11, Article 5, Appendix X

41

Non-RCRA Ignitable Characteristic
(Same as RCRA)

- Liquid (other than < 24% alcohol by volume) with a flash point < 140°F (60°C)
- A solid that can cause fire through friction, absorption of moisture, or spontaneous chemical changes and, when ignited, burns vigorously and persistently
- Is an ignitable compressed gas
- Is an oxidizer




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Non-RCRA Corrosive Characteristic

- Aqueous with pH ≤ 2.0 or ≥ 12.5
- Liquid that corrodes steel at ¼ inch (6.35 mm) per year
- Non-aqueous wastes that yield pH ≤ 2.0 or ≥ 12.5 when mixed with an equivalent weight of water
- Non-liquids that corrode steel at ¼ inch (6.35 mm) per year when mixed with an equivalent weight of water



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Non-RCRA Reactive Characteristic
(Same as RCRA)

Unstable and undergoes violent change w/o detonating;

Reacts violently with water;

Forms an explosive mixture with water;

Generates toxic gases, vapors, or fumes with water;

Cyanide- or sulfide-bearing waste producing toxic gases, vapors, or fumes @ pH 2 – 12.5;

Capable of detonation or an explosive reaction; OR

Forbidden explosive (49 CFR 173.51)

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Non-RCRA Toxic

- Exceeds WET thresholds (TTLC or STLC for 20 inorganics [Table II] or 18 organics [Table III] – State’s test to depict municipal landfill conditions);
- Oral LD₅₀ < 2,500 mg/kg;
- Dermal LD₅₀ < 4,300 mg/kg;
- Inhalation LC₅₀ < 10,000 ppm;
- Aquatic 96-hour LC₅₀ < 500 mg/L; OR
- Contains a listed carcinogen (16) ≥ 0.001% by weight

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22.CCR.66261.24(a)(2-7)

45

Used Oil

Used oil is defined as oil that has been refined from crude oil or any synthetic oil that has been used and, as a result of use or as a consequence of extended storage or spillage, has been contaminated with physical or chemical impurities.



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HSC 25250.1

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Used Oil

Used Oil

- Crankcase oil
- Gear oil
- Vegetable or animal oil used as a lubricant
- Hydraulic oil
- Transformer oil
- Transmission fluid

Not Used Oil

- Antifreeze
- Brake fluid
- Fuels
- Other automotive wastes
- Solvents
- Oil with a flash point < 100°F
- Oil with ≥ 5 ppm PCBs
- Oil with > 1,000 ppm halogens

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HSC 25250.1

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California Waste Codes

- Restricted Wastes 700-800
- Inorganics 100-199
- Organics 200-300
- Sludges 400-499
- Miscellaneous 500-600

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Exemptions

Contaminated containers [22 CCR 66261.7]

Spent lead-acid storage batteries [22 CCR 66266.80-81]

Universal wastes [22 CCR 66273]

Used oil filters & fuel filters [22 CCR 66266.130; HSC 25250.22]

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Container & Tank Management



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Container

A container is a device that is open or closed, and portable, in which material can be stored, handled, treated, transported, recycled, or disposed of.



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22_CCR_66260.10

55

Tank

A tank is a *stationary* device designed to contain an accumulation of hazardous waste constructed primarily of non-earthen materials (e.g., wood, concrete, steel, plastic) that provide structural support.



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22_CCR_66260.10

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Central Accumulation Areas

- Generators must have a designated Central Accumulation Area (CAA)
 - Generators can have multiple CAAs
- LQGs – CAA must be > 50 ft from property line if ignitable (D001) or reactive (D003) waste present
- Facility must be maintained & operated to minimize possibility of a fire, explosion, or release



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22_CCR_66265.176 & 66265.31

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Container Accumulation Areas

Accumulation Time Limits & Volumes

LQG	90 days; no limit for hazardous waste stored on-site
SQG	180 days (270 days if shipped \geq 200 miles); maximum 6,000 kg hazardous waste stored on-site
VSQG (previously CESQG)	No time limit until 100 kg of non-acute or non-extremely hazardous waste (180 days) or 1 kg of acute or extremely hazardous waste is reached (then 90 days)

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Container Accumulation Areas – Security LQGs

- Located in secure area with access controlled
- Post warning sign: "Danger Hazardous Waste Accumulation Area – Unauthorized Personnel Keep Out"




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Central Accumulation Areas

- Emergency equipment:
 - Internal communication devices
 - Fire extinguishers
 - Spill control equipment
- Equipment must be tested and maintained
- LQGs – inspection schedule must be implemented, records maintained




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60

Container Management


- Hazardous waste containers must be marked with the following:
 - The words "Hazardous Waste"
 - Generator's name and address
 - Contents
 - Physical state
 - Accumulation start date
 - Hazardous properties
- Labels must be legible and visible!



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Container Management




- Hazardous waste containers must be:
 - In good condition (no signs of rust, damage, or leakage)
 - Compatible with the waste
 - Closed (except when adding or removing waste)
 - Managed in a manner so they are not ruptured or caused to leak

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Container Management



- Aisle space between containers must allow for unimpeded access to containers
- Incompatible hazardous wastes cannot be placed in the same container

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Tank Management

- Hazardous waste tanks must be labeled with the following:
 - "Hazardous Waste"
 - Accumulation start date
 - Hazardous property(ies) of the waste



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40 CFR 262.16(b)(6)(ii); 22 CCR 66262.34(f)(18.3)

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Tank Management – LQGs



- Hazardous waste tanks must have secondary containment:
 - Designed to prevent releases from impacting soil or water
 - Capable of detecting and collecting releases and accumulated liquids

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22 CCR 66265.192

65

Used Oil

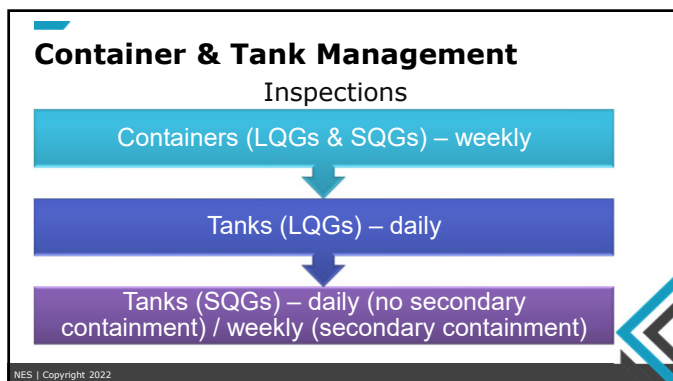
- Containers and tanks used to accumulate used oil must be marked with "Used Oil" (in addition to hazardous waste markings)
- **Do not** mark used oil containers and tanks with "Waste Oil"



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22 CCR 66279.1(b)

66



67

Satellite Accumulation Areas

- Satellite Accumulation Area requirements:
 - At or near any point of generation
 - Under the control of operator of process generating waste
 - Only containers can be used
 - One container per waste stream
 - Unless generator determines using one container is not practical or safe (subject to DTSC review and approval)
 - [Continued...]

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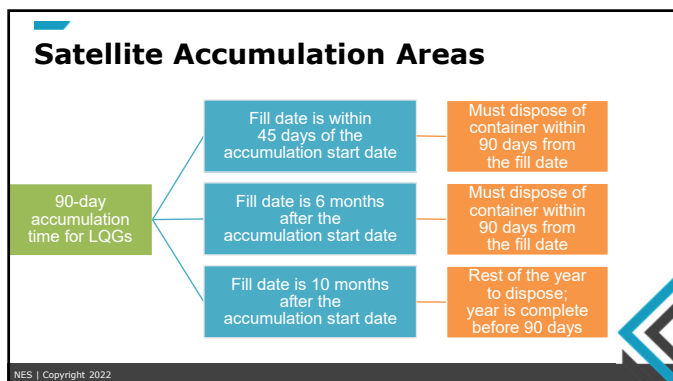
68

Satellite Accumulation Areas

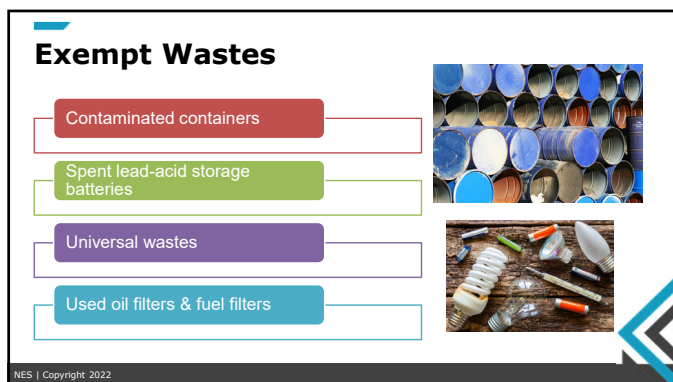
- Limit of 55 gallons (1 qt for acute or extremely hazardous waste) per waste stream
- Must meet all container management standards (weekly inspections not required)
- Container can be stored on-site for no more than one year
- Container must be dated within three days of when it reaches capacity

NES | Copyright 2022 22_CCR_66262.34(e)

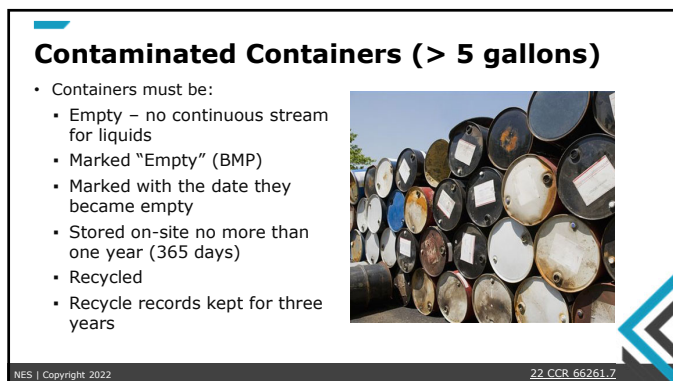
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70



71



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Contaminated Containers (≤ 5 gallons)



- Containers that are 5 gallons or less **and** empty can be managed as municipal waste (trash)
- **Do not** dry containers; this may be considered treatment

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Spent Lead-Acid Storage Batteries



- Management of batteries:
 - Stored upright on a pallet on a sealed surface
 - Stored to prevent the terminals from short circuiting
 - Stored on-site no more than one year (365 days - 180 for more than a ton) and marked with out-of-service date
 - Recycle records kept for three years

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22 CCR 66266.00-01

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Universal Waste

- Examples of universal waste:
 - Spent batteries
 - Spent lamps
 - Electronic devices (e-waste)
 - Mercury-containing devices
 - Aerosol cans (non-empty)
 - End-of-life solar panels



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Universal Waste

Must be kept in a closed container that is compatible with the waste

Containers must be labeled: "Universal Waste" / type of waste (e.g., "Waste Lamps", "Used Batteries", "Waste Aerosols") / accumulation start date

Stored on-site for no more than one year (365 days)

Tracking records maintained for three years

NES | Copyright 2022 22_CCR_66273

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Drained Used Oil Filters & Fuel Filters

- Filters must be:
 - Drained (no free-flowing liquid)
 - Stored in a rainproof and closed container
 - Labeled "Drained Used Oil Filters" or "Drained Fuel Filters" with an accumulation start date
 - Stored on-site no more than one year (365 days - 180 for more than a ton)
 - Recycle records kept for three years

**DRAINED
USED OIL
FILTERS**

Accumulation Start Date _____

NES | Copyright 2022 22_CCR_66266_130 | HSC_25250_22

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Shipping Requirements




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Shipping Requirements

 Hazardous waste must be profiled for disposal and transported:

- By a registered hazardous waste transporter
- Using a Uniform Hazardous Waste Manifest
- To a permitted facility

 RCRA hazardous wastes are subject to DOT regulations

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Shipping Requirements

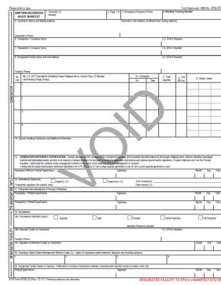
Exceptions

- VSQGs can self-transport hazardous waste to permitted HHW facility
- Used oil transported to recycling facility (55-gallon limit)
- Used oil generated during maintenance activities (55-gallon limit)

NES | Copyright 2022 HSC 25218.4 & 25250.11-12

80

Shipping Requirements



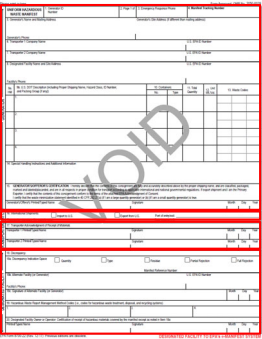
- e-Manifest system implemented on June 30, 2018
- Generators can still use paper manifest
- EPA form 8700-22 is the only manifest form that can be used

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Shipping Requirements

- Generator is responsible for information in boxes 1 – 15
- Box 16 is for international shipments
- Box 17 is for transporter's acknowledgement of receipt
- Boxes 18 – 20 are to be completed by designated facility (TSDF)

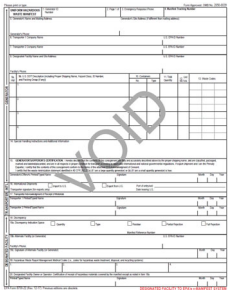


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Shipping Requirements

- Manifest consists of five parts:
 - Page 1 – TSDF to EPA's e-Manifest system
 - Page 2 – TSDF to generator
 - Page 3 – TSDF copy
 - Page 4 – Transporter copy
 - Page 5 – Generator initial copy (legible copy must be mailed to DTSC within 30 days of shipment)

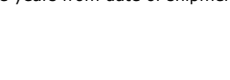


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Shipping Requirements

- Consolidated shipments:
 - Authorized hazardous waste streams consolidated into a single shipment from multiple generators
 - Transported by a consolidated transporter
 - Generator and transporter section of manifest completed by transporter
 - Generator provided a receipt (signed by transporter and generator) for shipment
 - Receipt retained by generated for three years from date of shipment



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Consolidated Manifest – Authorized Waste Streams

- Used oil
- Contents of an oil/water separator
- Solids contaminated with used oil
- Brake fluid
- Antifreeze
- Antifreeze sludge
- Parts-cleaning solvents
- Asbestos & asbestos-containing materials
- Inks from the printing industry
- Chemicals and laboratory packs collected from K-12 schools
- Filters from dispensing pumps for diesel and gasoline fuels
- Hydroxide sludge (contaminated solely with metal from wastewater treatment process)
- Paint-related wastes, including paints, thinners, filters, and sludge
- Spent photographic solution
- Dry cleaning solvents including perchloroethylene, naphtha, and silicone-based solvents
- Filters, lint, and sludge contaminated with dry cleaning solvent
- Retail hazardous waste collected from retailers
- Absorbents contaminated with wastes on this list

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THANK YOU!

Must complete the survey to receive certificate!!



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