

Basic Hazardous Waste Management 40 CFR 262.16(b)(9)(iii) & 22 CCR 66265.16

Prepared & Presented for the 21st Annual CalCUPA Conference

www.NESglobal.net

Presenter

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 - 30+ years of hazardous waste management experience

Course Objectives

This course will provide an overview of federal and state regulations regarding the classification, management, transportation, and disposal of hazardous waste for California hazardous waste generators.

Course Outline



Basic Hazardous Waste Management

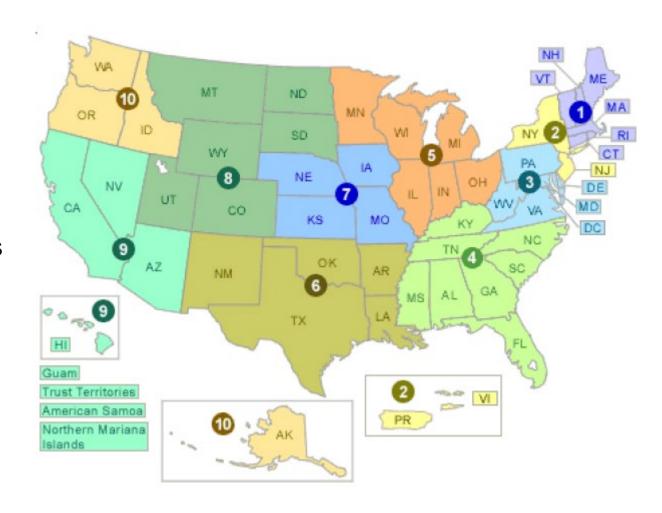
- Regulatory Overview & Recordkeeping Requirements
- Hazardous Waste Determination
- Container & Tank Management
- Shipping Requirements



Regulatory Overview & Recordkeeping Requirements

| Gov't Level | Law | Year Enacted | Regulation | Agency | | | |
|----------------|----------------|--------------|------------------------------|--|--|--|--|
| Federal | RCRA | 1976 | 40 CFR 260-268, 273 | Environmental Protection Agency (EPA) | | | |
| State | HWCL | 1972 | 22 CCR 66260-66268, 66273 | Department of Toxic Substances Control (DTSC) | | | |
| Federal | OSHA | 1970 | Title 29 CFR | Occupational Safety and Health Administration (OSHA) | | | |
| State | Cal/OSHA | 1973 | Title 8 CCR | Division of Occupational Safety and Health (DOSH or Cal/OSHA) | | | |
| Federal | НМТА | 1975 | Title 49 CFR | Department of Transportation (DOT) | | | |
| State | State CVC 1935 | | Title 13 CCR | California Highway Patrol (CHP) / Department of Motor Vehicles (DMV) | | | |

- United States Environmental Protection Agency (U.S. EPA) protects human health and the environment:
 - Writes and enforces environmental regulations
 - Regulations enforced by regional offices



- California Department of Toxic Substances Control (DTSC) protects people and the environment from harmful effects of toxic substances by:
 - Enforcing hazardous waste regulations
 - Inspecting permitted facilities and hazardous waste generators
 - Taking enforcement actions to ensure compliance

- The Certified Unified Program Agency (CUPA)
 consolidates, coordinates, and makes consistent portions
 of the following six existing programs:
 - Hazardous Waste Generators
 - Underground Storage Tanks (USTs)
 - Hazardous Materials Business Plans (HMBPs)
 - California Accidental Release Prevention Program (CalARP)
 - Aboveground Storage Tanks (SPCC Plans)
 - California Fire Code

Unified Program Regulatory Directory:

http://cersapps.calepa.ca.gov/Public/Directory/



Generator or Producer

A generator 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.





Most Common Violations for Generators

- Improperly labeled hazardous waste containers (violation count – 6,199)
- 2. Failure to obtain and/or maintain ID number (violation count 3,243)
- 3. Failure to maintain manifest copies (violation count 2,437)

- 4. Failure to properly close hazardous waste containers when not in use (violation count 1,868)
- 5. Failure to properly label & manage used oil filters (violation count 1,838)

Generator Status

| LQG | ≥ 1,000 kg hazardous waste and/or > 1 kg acutely hazardous waste and/or > 1 kg extremely hazardous waste during any calendar month |
|----------------------------|--|
| SQG | < 1,000 kg hazardous waste and/or ≤ 1 kg acutely hazardous waste and/or extremely hazardous waste during any calendar month |
| VSQG (previously CESQG) | ≤ 100 kg hazardous waste and/or ≤ 1 kg acutely hazardous waste and/or extremely hazardous waste during any calendar month – this is a category defined by EPA and not recognized in California |

Generator Status

- Waste volume based on:
 - RCRA and non-RCRA wastes
 - Amount generated each month, not amount shipped off-site

EPA Identification Numbers

- Each site that generates hazardous waste must have an ID number
 - California ID numbers issued by DTSC (< 220 pounds RCRA hazardous waste in any month)
 - CAL permanent; CAC provisional; CAS permanent for emergency response
 - EPA ID numbers issued by U.S. EPA (> 220 pounds RCRA hazardous waste in any month)
 - CAR current; CA not issued since 1995; CAD not issued since 1993; CAT – preceded CAD; CAP – provisional

EPA Identification Numbers

- Generators must verify their ID numbers (state and federal) annually through DTSC
- If ID numbers are not verified, they will be deactivated







Welcome to the eVQ System

2018 Identification Number Verification Questionnaire

Report Deadline Passed - Report Open for Inactivated EPA ID Users

The electronic Verification Questionnaire (eVQ) cycle ended on Friday, February 01, 2019. If you did not complete your eVQ, your ID number(s) were inactivated.

To reactivate your ID Number(s), you must log into the eVQ system and complete the eVQ. Once you have completed the eVQ and DTSC has received the full payment (if fees are due), your ID Number(s) will automatically be reactivated.

DTSC will not be accepting Form 1358 to reactive numbers that were inactivated because the eVQ was not completed.

The final date to complete the 2017 eVQ will be Thursday, February 28, 2019. After this date, you will no longer be able to log into the eVQ system.

Contingency Plan – LQGs

- Spells out emergency actions involving hazardous waste
 - Fire
 - Explosives
 - Unplanned, sudden releases/spills

Contingency Plan Contents – LQG

- Emergency Coordinator
- Emergency procedures
- Emergency services and arrangements to coordinate response actions
- Emergency equipment
- Evacuation Plan
- Cal OES contact

Emergency Procedures – SQGs

- At all times, there must be at least one employee, either on the premises or on call, 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
 - Fire Department number

EMERGENCY PROCEDURES

Post near telephones and as appropriate

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

Major Emergency

- ⇒ Evacuate the affected areas per the facility Evacuation Plan
- \Rightarrow 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

| | Name | Work Phone | 24 Hour Phone |
|-------------------|------|------------|---|
| Primary EC: | | | |
| 1st Alternate EC: | | | |
| 2nd Alternate EC: | | | |
| | | | *************************************** |
| 3rd Alternate EC: | | | |

Emergency Agencies

| Agency | Phone No. |
|---|----------------|
| Fire Dept., Ambulance, Police | 911 |
| Governor's Office of Emergency Services | (800) 852-7550 |
| | () |

Emergency Equipment

Locations of fire extinguishers, fire alarms (if any), and equipment for controlling chemical spills are shown on the facility site plan posted with this notice.

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

Tank Assessments – LQGs

- Tank assessments required for LQGs who accumulate hazardous waste in tanks:
 - Tank system and components certified by qualified professional engineer (PE)
 - Supported and protected from corrosion
 - Tested for tightness
 - Protected from settlement, expansion, or contraction
 - Must be completed prior to putting tank into service and then once every 5 years for new tanks

Biennial Hazardous Waste Report – LQGs

- Required & certified by <u>RCRA</u> LQGs
- Report covers odd-numbered year
 - Amounts by waste code
 - Identify source & origin of waste
 - Identify disposal method (recycled, incinerated, etc.)
 - Waste minimization efforts
- Due March 1st of following year (even year 2020) for waste generated prior year (odd year – 2019)

Disposal & Recycle Records

- Manifests
- Land disposal restriction forms
- Consolidated manifests
- Maintained for three years from date of shipment

| Plea | ise print o | r type. | | | | | | | | Form | Approved. ON | /IВ No. 2 | 050-0039 |
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| DESIGNATED | 19. Hazard | lous Waste Report Ma | nagement Method (| Codes (i.e., codes for haza | rdous waste treatn | nent, disposal, | and recycling systems | | | | | 1 | 1 |
| ĕ | 1. | - | | 2. | | 3. | | | 4. | | | | |
| ı | | | | | | | | | | | | | |
| | | 20. Designated Facility Owner or Operator. Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Signature Signature Month Day | | | | | | | | Year | | | |
| | | | | | | l I | | | | | | | |
| ED/ | Form 870 | 00-22 (Rev. 12-17) | Previous editions | s are obsolete. | | | D | ESIGNATED | FACILITY | TO EPA' | s e-MANIF | EST S | YSTEN |

Other Records

- Waste analytical test analyses
 - Three years from date was last shipped off-site
- Container and tank inspections
 - Three years from date of inspection
- Emergency equipment inspections
 - Three years from date of inspection (best management practice)
 - BMP for SQGs)

Training Requirements – SQGs

- Employees must be familiar with proper waste handling and emergency response procedures relevant to their responsibilities
- Annual training is a BMP

Training Requirements – LQGs

- Personnel must successfully complete a program of either:
 - Classroom, computer-based, or electronic 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

Training Requirements – LQGs

Personnel involved in shipping hazardous waste must receive DOT Hazmat Employee training. [49 CFR 172.704]

Training Documentation – 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
- [Continued...]

Training Documentation – LQGs

- Description of the type and length of training needed for each position
- Records to document training has been provided and completed
- Records are to be kept until facility closure for current employees
 - 3 years for former employees



- A person who generates a waste shall 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

- Waste is any discarded material of any form (liquid, semisolid, solid, or gaseous) that is not excluded by regulation or statute:
 - Relinquished (disposed of, burned or incinerated, or accumulated, stored, or treated prior to or in lieu of disposal)
 - Recycled (applied to land in a manner constituting disposal, used in products that are applied to land, burned to recover energy, reclaimed, or speculatively accumulated)
 - [Continued...]

- Inherently waste-like materials when recycled (e.g., F020, F021 [with one exception], F022, F023, F026, and F028 all dioxin-precursor waste)
- A material that poses a threat to human health and/or the environment that has been mislabeled or unlabeled for more than 10 days (i.e., 10 days from the day that the labeling deficiency was first discovered)
- A material that poses a threat to human health and/or the environment contained in a deteriorated or damaged packaging for more than 96 hours

- Materials that are not waste:
 - Industrial wastewater discharges
 - Nuclear byproducts
 - Spent sulfuric acid used to produce virgin sulfuric acid
 - Pulping liquors reclaimed in a pulping liquor recovery furnace
 - Secondary materials that are returned to the original process

- Wastes that are not hazardous waste:
 - Infectious wastes consisting only of animal carcasses
 - Materials not classified as a solid waste that do not exhibit a hazardous waste characteristic
 - Used oil re-refining distillation bottoms used as a feedstock for asphalt
 - Used CFC refrigerants that are reclaimed
 - [Continued...]

- Solid waste from the extraction and processing of ores and minerals
- Hazardous wastes generated in a tank or manufacturing process unit
 - Exclusion applies until waste exits unit or remains in non-operational unit for more than 90 days
- Samples
- Controlled substances
- CRT glass

RCRA Hazardous Waste

- Listed
 - Unspent (U & P)
 - Spent (F & K)
- Characteristic
 - Ignitable (D001)
 - Corrosive (D002)
 - Reactive (D003)
 - Toxic (D004 D043)

Non-RCRA Hazardous Waste

- Presumptive lists
 - Common name
 - Chemical constituents
- Characteristic
 - Ignitable
 - Corrosive
 - Reactive
 - Toxic

RCRA Listed Wastes

Spent Waste Codes

- F Listed: Non-specific sources
 - F001 F039
- K Listed: Specific sources
 - K001 K175

Unspent Waste Codes

- P Listed: Acute hazardous waste
 - P001 P205
- U Listed: Toxic hazardous waste (unless noted)
 - U001 U411

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



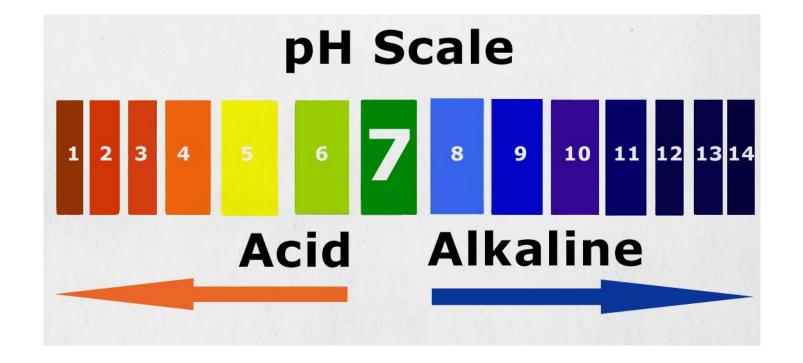






RCRA Corrosive Characteristic – D002

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



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, vapor 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)

RCRA Toxic Characteristic – D004 – D043

- Applies to 8 inorganic elements and 32 organic compounds
- Tested using EPA Toxicity Characteristic Leaching Procedure (TCLP)
- Regulated if > specified threshold



California Presumptive Lists

- Chemical names
- Common names
- Presumed to create a non-RCRA hazardous waste based on hazardous characteristic
 - X: Toxic
 - C: Corrosive
 - I: Ignitable
 - R: Reactive

Non-RCRA Ignitable Characteristic – D001

(Same as Federal)

- 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









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



Non-RCRA Reactive Characteristic – D003

(Same as Federal)

- Unstable and undergoes violent change w/o detonating;
- Reacts violently with water;
- Forms an explosive mixture with water;
- Generates toxic gases, vapor 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)

Non-RCRA Toxic

- Exceeds TTLC or STLC for 20 inorganics (Table II) or 18 organics (Table III)
- Oral LD_{50} < 2,500 mg/kg
- Dermal $LD_{50} < 4{,}300 \text{ mg/kg}$
- Inhalation LC_{50} < 10,000 ppm
- Aquatic 96-hr LC_{50} < 500 mg/L
- Listed carcinogen > 0.001% (10 ppm) by weight

Used Oil

<u>Used oil</u> 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.



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

California Waste Codes

| • | Restricted Wastes | 700-800 |
|---|-------------------|----------|
| | Restricted wastes | 7 00-000 |

| Inorganics | 100-199 |
|--------------------------------|---------|
|--------------------------------|---------|

| • | Organics | 200-300 |
|---|----------|---------|
| | | |

- Sludges 400-499
- Miscellaneous 500-600

Exemptions

- Contaminated containers [22 CCR 66261.7]
- Scrap metal [22 CCR 66261.6(a)(3)(B)]
- Spent lead-acid storage batteries [22 CCR 66266.80 & 66266.81]
- Universal wastes [22 CCR 66273]
- Used oil filters [22 CCR 66266.130]
- Recyclable latex paint [HSC 25217.4]



Container & Tank Management

Container

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





Tank

A <u>tank</u> 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.



Container 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

Container Accumulation Areas

Accumulation Time Limits and Volumes

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

Container Accumulation Areas

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



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



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

Hazardous Waste Labeling



- Words "Hazardous Waste"
- Generator name and address
- 3. Composition (contents)
- Physical state
- Hazardous properties
- 6. Accumulation start date

- 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

Funnels must meet closure requirements.





Aisle space between containers must allow for unimpeded access to containers.



 Incompatible hazardous waste cannot be placed in the same container

| TECHNO | TE: POTENTIALLY I | NCOMPATIBLE | WASTES |
|---|---|---|--|
| Mixing a Group A | A material with a Group B mate | erial may have the follow | ing consequences. |
| Group | 1-A | G | roup 1-B |
| Acetylene sludge Alkaline caustic liquids Alkaline cleaner Alkaline corrosive liquids Alkaline corrosive battery fluid Potenti | Caustic wastewater Lime wastewater Lime and water Spent caustic Lime sludge al consequences: Heat | Acid sludge Spent sulfuric acid Battery acid Chemical cleaners Electrolyte, acid generation; violent re | Acid and water Spent mixed acid Spent acid Etching acid liquid or solvent eaction. |
| Group | 2-A | остория в постория в п С | roup 2-B |
| Aluminum Beryllium Calcium Lithium Other reactive metals and metal hydrogen | · · | Any waste in Group 1 - | |
| | ences: Fire or explosion; | | |
| Group | 3-A | | Group 3-B |
| Alcohols | | Calcium Potassium Other water-reactive waste SO ₂ Cl ₂ , SOCl ₂ , PCl ₃ , CH ₃ SiCl ₃ | Lithium Metal hydrides Any concentrated waste in Group 1-A or 1-B |
| Potential consequences: | Fire, explosion or heat ger | neration; generation | of flammable or toxic gases. |
| Group | 4-A | G | iroup 4-B |
| Alcohols Nitrated hydrocarbons Unsaturated hydrocarbons | Aldehydes Halogenated hydrocarbons Other reactive organic compounds and solvents | Concentrated Group 1 Group 2 wastes | -A or 1-B |
| Potential consequ | ences: Fire or explosion; | generation of flamn | nable or toxic gases. |
| Group | 5-A | G | iroup 5-B |
| Spent cyanide and sulfide solutions | nces: Generation of toxic | Group 1-B wastes | r Hydrogen sulfide gas |
| Group | | | Group 6-B |
| Chlorates Chlorine Chlorites Chronic acid Hypochlorites Nitric acid, fuming | Perchlorates Permaganates Peroxides Nitrates Other strong oxidizers | Acetic acid and other organic acids Group 2-A wastes Group 4-A wastes | Concentrated mineral acids Other flammable and combustible wastes |
| Potenti | al consequences: Fire, e | explosion, or violent | reaction. |

Tank Management

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



Tank Management – SQGs

A log to demonstrate the tank has been emptied within 180 days from hazardous waste first entering the tank must be maintained.

Used Oil

- Containers and tanks used to store 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"





Container Storage Area Inspections

- Weekly:
 - Leaking containers
 - Deterioration of containers
 - LQGs containment systems
- Inspections should be documented

Tank Inspections – SQGs

- Daily (unless tank has secondary containment):
 - Discharge controls
 - Monitoring data
 - Tank level
- Weekly
 - Construction materials of the tank
- Inspections should be documented

Tank Inspections – LQGs

- At least once each operating day:
 - Overfill / spill control equipment
 - Aboveground portions of tank
 - Monitoring & leak detection equipment
 - Area surrounding externally accessible portion of tank system (secondary containment)
- Inspections must be documented
- Inspection records maintained for 3 years

Satellite Accumulation Areas

- Satellite Accumulation Area requirements:
 - At or near where the waste is generated
 - Under the control of operator of the 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...]

Satellite Accumulation Areas

- Limit of 55 gallons per waste stream
- Must meet all container management standards (weekly inspections not required)
- Container can be stored on-site for up to one year

Container must be dated within three days of when it reaches

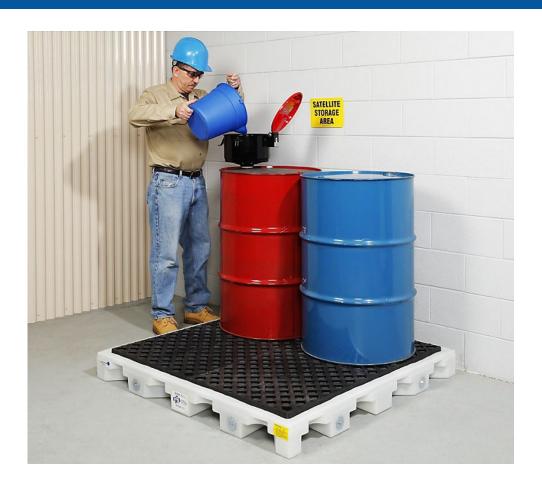
capacity

| Proper D.O.T. Drigging Name | - HAZARDOUS | Workplace Accumulation Start Date: |
|--|--|---|
| A p NA | WASTE | |
| lane | FEDERAL LAW PROHIBITS | |
| Address | IMPROPER DISPOSAL. | Waste Accumulation |
| Day | IF FOUND, CONTACT THE NEAREST POLICE OR PUBLIC SAFETY | Date |
| IDPA / Montest D No. / Tracking No. | AUTHORITY, OR THE U.S. ENVIRONMENTAL PROTECTION AGENCY. | |
| Date Marrhed Tracking No. | HANDLE WITH CARE! | MANÉJESE CON CUIDADO CONTIENE DESPEROIDOS TÓXICO |

General Housekeeping Practices

- Poor housekeeping can result in an increase in the amount of hazardous waste generated
 - Closure protects workers from the waste and the waste from the elements
 - Spillage must be cleaned up in a timely manner
 - Labeling must be legible and visible
 - Inventory do not exceed allowances

Potential Compliance Issue



Hazardous waste containers not labeled

Potential Compliance Issue



Hazardous waste container not closed

Potential Compliance Issue



Facility not operated/maintained to prevent a release

Miscellaneous Requirements

- Contaminated containers
- Spent lead-acid storage batteries
- Used oil filters
- Recyclable latex paint
- Universal wastes







Contaminated Containers

- Containers must be:
 - Empty no continuous stream for liquids
 - Marked "EMPTY" (BMP)
 - Marked with the date they became empty
 - Stored on-site no more than one year (365 days)
 - Recycled
 - Recycle records are to be kept for 3 years



Contaminated Containers

- 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



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 days for more than a ton) and marked with out-of-service date
 - Recycle records are to be kept for 3 years



Drained Used Oil Filters

- Oil filters must be:
 - Drained (no free-flowing liquid)
 - Stored in a rainproof and closed container
 - Labeled "Drained Used Oil Filters" with an accumulation start date
 - Stored on-site no more than one year (365 days – 180 days for more than a ton)
 - Recycle records are to be kept for 3 years



Recyclable Latex Paint

- Recyclable latex paint is any water-based latex paint, still in liquid form, that is transferred for the purposes of being recycled
- Liquid latex paint cannot be disposed of in the land or waters of the state



Recyclable Latex Paint

- Recyclable latex paint can be sent to a facility that manages used paint as long as:
 - Paint is managed in accordance with all applicable latex paint procedures
 - Paint is in liquid form and in its original packaging (or in a closed, labeled container)
 - [Continued...]

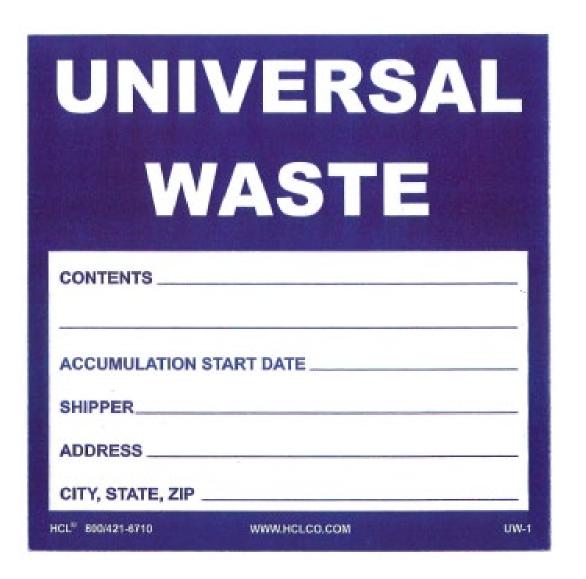
Recyclable Latex Paint

- If the facility accepts latex paint that is not recyclable, the paint is managed as a hazardous waste
- If the paint is not excluded, the disposal of the paint is done so in a way that meets applicable federal requirements

www.paintcare.org

Universal Waste

- Examples of universal waste:
 - Batteries
 - Spent lamps
 - Electronic devices (e-waste)
 - Mercury-containing devices
 - Aerosol cans (non-empty)



Universal Waste

- Universal waste:
 - Must be kept in a closed container that is compatible with the waste
 - Labeled with:
 - "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 3 years



- 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

- 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)
- These shipments do not require a hazardous waste transporter or Uniform Hazardous Waste Manifest

- EPA form 8700-22 is the only manifest form that can be used
- Federal instructions included on the back of the manifest form

| Please print or type. Form Approved. OMB No. 2050-0039 | | | | | | | | | | | | | | | | |
|--|---|---|-------------------------|---------------------------|------------------------|-------------------|--------------------------|----------------|--------------------|----------------------|--------------------|------------------|------------|----------|--|--|
| 1 | W/ | NIFORM HAZARDOUS WASTE MANIFEST 1. Generator ID 2. Page 1 of 3. Emergency Response Phone 4. Manifest Tracking Number 4. Manifest Tracking Number | | | | | | | | | | | | | | |
| | 5. Ger | . Generator's Name and Mailing Address Generator's Site Address (if different than mailing address) | | | | | | | | | | | | | | |
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| | | esterio Diserro | | | | - 1 | | | | | | | | | | |
| | 6. Tra | rator's Phone: Insporter 1 Company Nam | e | | | | | | | U.S. EPA ID | U.S. EPA ID Number | | | | | |
| | | | | | | | | | | | | | | | | |
| | 7. Transporter 2 Company Name | | | | | | | U.S. EPA ID I | U.S. EPA ID Number | | | | | | | |
| | 8. Designated Facility Name and Site Address | | | | | | | U.S. EPA ID I | Number | | | | | | | |
| | o. Designated naturity warne and Site Address U.S. | | | | | | | | 0.5. EFAID I | A. E. A.D. Heined | | | | | | |
| | | | | | | | | | | | | | | | | |
| | Facilit | ty's Phone: | | | | | | | | | | | | | | |
| | 9a. 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, HM and Packing Group (if any)) | | | | | | \vdash | 10. Contair | | 12. Unit Wt./Vol. | 13. W | aste Codes | | | | |
| П | HM | 1. | | - | No. | Type | Quantity | | | | | | | | | |
| GENERATOR | | | | | | | | | | | | | | | | |
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| | 14. Special Handling Instructions and Additional Information | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | 15. (| 15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, | | | | | | | | | | | | | | |
| | n | marked and labeled/placar Exporter, I certify that the c | ded, and are in all re | espects in proper conditi | ion for transport acco | rding to applicat | le internation | al and nation | al governmen | tal regulations. If | export shipm | nent and I am th | e Primary | | | |
| | 1 | certify that the waste mini | mization statement i | | | e quantity genera | ator) or (b) (if I | | quantity gener | | | | | | | |
| | Generator's/Offeror's Printed/Typed Name | | | | | | ature | | | | | Month | Day | Year | | |
| <u>*</u> | 16. Int | ternational Shipments | | | | 7 | | Port of ent | La de cita | | | | | ш | | |
| INT | Trans | porter signature (for expo | lmport to rts only): | 0.8. | | Export from U | .5. | Date leaving | | | | | | | | |
| TER | | ansporter Acknowledgment | | als | | | | | | | | | | | | |
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| | 18a. D | Discrepancy Indication Spa | ce Quar | ntity | Туре | | R | esidue | | Partial Re | jection | | Full Rejec | ction | | |
| | | | | | | | Magifee | ot Dofosor | Number | | | | | | | |
| ₹ | 18b. A | Manifest Reference Number: 18b. Alternate Facility (or Generator) U.S. EPA ID Number | | | | | | | | | | | | | | |
| CIL | | | | | | | | | | | | | | | | |
|) FA | | Facility's Phone: | | | | | | | | | | | | | | |
| Ä | 18c. S | 18c. Signature of Alternate Facility (or Generator) Month Day Year | | | | | | | | | | | | | | |
| DESIGNATED FACILITY | 19. Ha | 19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) | | | | | | | | | | | | | | |
| DES | 1. | | 3 | 2. | | 3. | | , | | 4. | | | | \dashv | | |
| ı | L | | | | | L | | | | | | | | | | |
| | | esignated Facility Owner or | Operator: Certificat | tion of receipt of hazard | ous materials covered | | | oted in Item 1 | 18a | | | Hart | Dour | Vor | | |
| | rmiec | Printed Typed Name | | | | | Signature Month Day Year | | | | | | | rear | | |
| ₩ FP/ | Form | 8700-22 (Rev. 12-17) | Previous edition | c are obcolete | | | | DEC | IONATED | EACH ITV | TO EDA | In a MANU | L C | VOTEN | | |

- California has supplemental manifest instructions that include:
 - Submittal requirements
 - California waste codes
 - Hazardous waste management method codes

California Environmental Protection Agency Department of Toxic Substances Control

09/05/2006

Supplemental California Manifest Instructions

Revised June 2007

Federal and State hazardous waste manifest regulations changed on September 5, 2006.

Detailed manifest instructions are printed on the back of the new federal manifest. These Supplemental California Instructions cover additional California requirements. Please use the instructions printed on the new manifest for item by item directions. Materials are available at www.dtsc.ca.gov (under ID numbers, Manifests & Fees, Hazardous Waste Manifests), including fact sheets and California's manifest regulations, sample manifests, and federal instructions. For load rejections and consolidated manifesting, refer to the regulations and fact sheets

IMPORTANT MANIFEST CHANGES - PLEASE READ AND SAVE AS A REFERENCE

The U.S. Environmental Protection Agency (EPA) revised the Uniform Hazardous Waste Manifest and requires the use of only the new version nationally after September 4, 2006. States are no longer allowed to modify the form or the instructions. Old versions of the California manifest, or manifests from other states, may not be used after September 4, 2006. The new manifest form is no longer color coded, and the new six-part form does not include a copy for generators to submit to their state, although California requires the generator to submit a copy

Additional Information and Instruction Changes

- Adds space for emergency
- Adds Generator's site address:
- · Allows up to six waste codes for each waste stream:
- Adds a box to indicate if waste stream is U.S. DOT regulated:
- · Adds space for import/export information:
- Adds room for destination facilities to note discrepancies or if container residues exceed empty levels:
- Adds a new field for a manifest reference number when waste is rejected or if container residues are shipped on a new manifest:
- Adds a separate field for alternative facility information and signatures;
- Uses HW Report Management Codes to replace handling codes;
- Prohibits the use of fractions or decimal points in waste quantities in Item 10; and
- Discourages use of large quantity units in Item 11 (e.g. tons or cubic vards) when other units, i.e. pounds, are more accurate.

Where Do I Get Manifests?

California does not sell the new manifest forms. Forms are available only from private printers approved by EPA. EPA posts approved printers at

www.epa.gov/epaoswer/hazwaste/gener/manifest/registry/index.htm

Generators Must Submit Manifest Copies!

California requires generators and permitted transfer, treatment, storage, and disposal Facilities (Facilities) to submit manifests. The federal manifest form does not include a Generator-to-State submittal page, like the old manifest did (the blue page). Within 30 days of shipping the waste, generators must submit a copy of each manifest to DTSC. This copy can either be a legible photocopy or the "Generator Retains" copy, if the generators receive a signed facility copy back within 30 days. Generators may submit a copy of the "Generator Retains" copy (page 6), the top page (the most legible one - page 1), or any other page, as long as it is legible.

What About Submitting Manifests for Rejected Loads?

Generators should send copies of manifests they sign when receiving rejected waste or container residues to the Department of Toxic Substances Control's (DTSC) Facility Manifests at P.O. Box 3000. Facilities signing new manifests for rejected loads should submit the generator copy to DTSC Generator Manifests at P.O. Box 400. See the rejected load fact sheet on DTSC's web site.

How Are California Manifest Requirements Different from Federal?

- · California requires conditionally exempt small quantity generators to use manifests and regulates more
- . DTSC uses the submitted generator and facility manifest copies for cradle-to-grave tracking of waste
- California's definition of an "empty" container is more stringent. Non-empty containers must be manifested, including bulk containers, whether the waste is federal RCRA or non-RCRA
- Facilities in other states are required to submit copies to DTSC when waste generated in California is received out of state. Out-of-state generators sending waste to California facilities, or that will be exported through California, are encouraged to submit manifest copies.

Where Do I Mail Manifests? Same P.O. Boxes - No Change

GENERATORS SEND TO:

DTSC Generator Manifests P.O. Box 400

Sacramento, CA 95812-0400

TSDFs/DESIGNATED FACILITIES SEND TO:

DTSC Facility Manifests

P.O. Box 3000 Sacramento, CA 95812-3000

Where Do I Find California Waste Codes?

The new manifest has six blank boxes for waste codes for each waste stream. If the waste is RCRA regulated, at least one box must include a RCRA waste code. For waste generated in or shipped to California, a CA state waste code is also required. The additional boxes are for other states' codes when the waste is sent out of state to a state with codes, or for extra RCRA codes. California Waste Codes are printed on the reverse side of these instructions only, not on the instructions printed on the manifest. They are also found in Title 22, California Code of Regulations, Appendix XII to Chapter 11 of

What are Hazardous Waste Report Management Method Codes (HWRMM

Previously, California's manifest instructions required Designated Facilities to use one of 10 handling codes to report how the waste was handled at that facility. The new manifest uses 28 Management Method Codes. These are the same codes used in Biennial Reports. One of the HWRMM codes shown on the other side must be added on the manifest by the Facilities only. Generators and transporters do not add these codes.

Contact Information:

First, visit the DTSC web page at www.dtsc.ca.gov/IDManifest for training information and review the basic instructions printed on the manifest. This document includes Supplemental Instructions only for use in California. For more information, contact your transporter or facility, or call DTSC's Regulatory Assistance Officer at 800-72-TOXIC.

- 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)

| Ple | ase p | orint or type. | | | | | | | | Approved. ON | B No. 20 | 150-0039 |
|-----------------------|-------------------------------|--|--|---|--|---|------------------------------|----------------------------------|----------------------|--------------|-------------|-----------|
| 1 | | NIFORM HAZARDOUS WASTE MANIFEST | Generator ID Number | | 2. Page 1 o | f 3. Emergeno | y Response Phone | 4. Manifes | t Tracking Nur | mber | | |
| $\ $ | 5. (| Generator's Name and Mailin | g Address | | • | Generator's S | ite Address (if differ | ent than mailing addr | ess) | | | |
| H | | | | | | | | | | | | |
| \parallel | | nerator's Phone: | | | | | | U.S. EPA ID | Number | | | |
| $\parallel \parallel$ | 6. Transporter 1 Company Name | | | | | | U.S. EPAIL | Number | | | | |
| \parallel | 7. Transporter 2 Company Name | | | | | | U.S. EPA ID | Number | | | | |
| П | 8. [| Designated Facility Name and | d Site Address | | | | | U.S. EPA ID | Number | | | |
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| | 9a HM | | | Shipping Name, Hazard Class, | ID Number, | | 10. Containers No. Ty | 11. Total pe Quantity | 12. Unit Wt./Vol. | 13. Was | te Codes | |
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| \parallel | 15. | GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary | | | | | | | | | | |
| $\parallel \parallel$ | | Exporter, I certify that the or I certify that the waste mini | ontents of this cons mization statement | ignment conform to the terms of identified in 40 CFR 262.27(a) (| the attached EPA Acknow f I am a large quantity gen | ledgment of Con erator) or (b) (if I | sent. am a small quantity | generator) is true. | | | | |
| \parallel | Ger | nerator's/Offeror's Printed/Typ | | | | ignature | | | | Month | Day | Year |
| <u>↓</u> | 16. | International Shipments | | | | | Port of entry/exit: | | | | | |
| INT | | nsporter signature (for expor | | | Export from | U.S. | Date leaving U.S. | | | | | |
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| Ł | 18b | . Alternate Facility (or Genera | itor) | | | | | U.S. EPAID | Number | | | |
| DESIGNATED FACILITY | Fac | ility's Phone: | | | | | | - 1 | | | | |
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| DESI | 19. | nazardous waste Keport Ma | nagement Method | Codes (i.e., codes for hazardou 2. | s wasie treatment, disposa 3. | i, and recycling | systems) | 4. | | | | |
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| | | Designated Facility Owner or ted/Typed Name | Operator: Certifica | tion of receipt of hazardous mat | | fest except as no ignature | oted in Item 18a | | | Month | Day | Year |
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| EP/ | A For | rm 8700-22 (Rev. 12-17) | Previous edition | s are obsolete. | | | DESIGNA | TED FACILITY | TO EPA' | s e-MANIF | EST S | STEN |

- Manifest consists of 5 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)

| Plea | | print or type. | loo dalos o o | | proved. OMB No. 2050-003 | | | | | | |
|---------------------|--|--|---|--------------------------------------|--------------------------|--|--|--|--|--|--|
| 1 | l | INIFORM HAZARDOUS WASTE MANIFEST 1. Generator ID Number | Page 1 of 3. Emergency Response Phone | 4. Manifest Tracking Numb | er | | | | | | |
| | 5. Generator's Name and Mailing Address Generator's Site Address (if different than mailing address) | | | | | | | | | | |
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| | | enerator's Phone: Transporter 1 Company Name | | U.S. EPA ID Number | | | | | | | |
| | 7. | Transporter 2 Company Name | | U.S. EPA ID Number | | | | | | | |
| | 8 | Designated Facility Name and Site Address | | U.S. EPAID Number | | | | | | | |
| | U.S. LFA III Mallaci | | | | | | | | | | |
| | Fa | acility's Phone: | | | | | | | | | |
| | | 9a. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any)) | 10. Containers No. Type | 11. Total 12. Unit Quantity Wt./Vol. | 13. Waste Codes | | | | | | |
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| | 14. Special Handling Instructions and Additional Information | | | | | | | | | | |
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| | 15. GENERATOR'SOFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled placareds, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Advisor/Segment of Consent. | | | | | | | | | | |
| | Ge | I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large enerator's/Offeror's Printed/Typed Name | e quantity generator) or (b) (if I am a small quantity gen Signature | erator) is true. | Month Day Year | | | | | | |
| ļ | | | | | | | | | | | |
| NT. | 1 | 6. International Shipments Import to U.S. ransporter signature (for exports only): | Export from U.S. Port of entry/exit: Date leaving U.S.: | | | | | | | | |
| TER | 17 | 7. Transporter Acknowledgment of Receipt of Materials | | | Month Day Year | | | | | | |
| SPOR | Ire | ansporter 1 Printed/Typed Name | Signature | | Month Day Year | | | | | | |
| TR ANSPORTER | Tra | ransporter 2 Printed/Typed Name | Signature | | Month Day Year | | | | | | |
| <u>+</u> | _ | 3. Discrepancy | | | | | | | | | |
| | 18 | Ba. Discrepancy Indication Space Quantity Type | Residue | Partial Rejection | Full Rejection | | | | | | |
| ≻ | 40 | Dh. Alternato, Cacility (or Concustor) | Manifest Reference Number: | II C EDAID Mumbos | | | | | | | |
| CILIT | 10 | 18b. Alternate Facility (or Generator) U.S. EPAID Number | | | | | | | | | |
| D FA | Fa 18 | acility's Phone: 8c. Signature of Alternate Facility (or Generator) | | | Month Day Year | | | | | | |
| NATE | | | | | | | | | | | |
| DESIGNATED FACILITY | 19 1. | Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatn 2. | ment, disposal, and recycling systems) [3.] | 4. | | | | | | | |
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| | | Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered rinted/Typed Name | d by the manifest except as noted in Item 18a Signature | | Month Day Year | | | | | | |
| ļ | | | | | | | | | | | |
| EP/ | A Fo | orm 8700-22 (Rev. 12-17) Previous editions are obsolete. | DESIGNATE | D FACILITY TO EPA's | e-MANIFEST SYSTEM | | | | | | |

The generator must submit a legible manifest copy to DTSC within 30 days from the date of shipment to:

DTSC Generator Manifests P.O. Box 400 Sacramento, CA 95812-0400

The TSDF must submit a manifest to EPA's e-Manifest system

• Fees:

| Year 1 Marginal Cost | Manifest Estimated Fee: (2017\$) | s by Manifest Type | |
|---|----------------------------------|--------------------|--|
| Manifest Subr | Year 1 Fee (Estimated) | | |
| | Mailed Paper | \$20.00 | |
| Paper Manifest Types | Image Uploads | \$13.00 | |
| | Data File Uploads | \$7.00 | |
| Electronic Manifests (includes hybrid) | Electronic | \$4.00 | |

- Generators must receive a signed copy of the manifest from the TSDF within 35 days from the date of shipment
- The generator is responsible to contact transporter and TSDF if copy is not received by the 35th day

- If the signed manifest copy is not received, the generator must submit an exception report to DTSC within:
 - 45 days for LQGs
 - 60 days for SQGs

- Exception report must include a legible copy of the manifest and efforts generator made to locate hazardous waste
- Exception reports sent to:

DTSC Report Repository
Generator Information Services Section
P.O. Box 806
Sacramento, CA 95812-0806

- 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 3 years from date of shipment

- Used oil
- Contents of an oil/water separator
- Solids contaminated with used oil
- Brake fluid
- Antifreeze
- Antifreeze sludge
- Parts-cleaning solvents
- Asbestos and asbestos-containing materials
- Inks from the printing industry
- Chemicals and laboratory packs collected from K-12 school

- Filters from dispensing pumps for diesel and gasoline fuels
- Hydroxide sludge (contaminated solely with metal from a 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

Thank You

Questions? Contact us at:

NES, Inc. 1141 Sibley Street Folsom, CA 95630



NESglobal.net 916-353-2360 800-637-2384