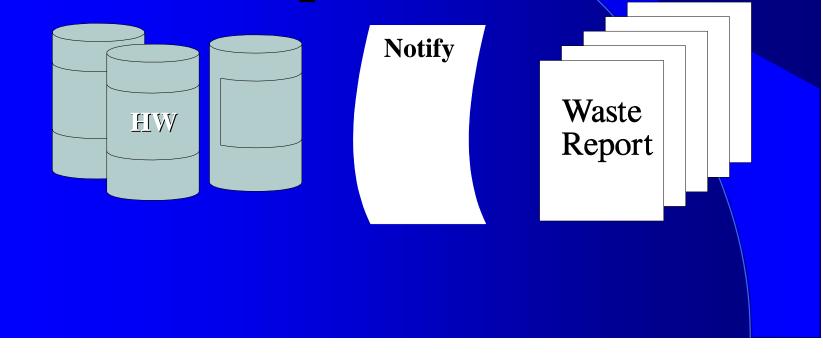
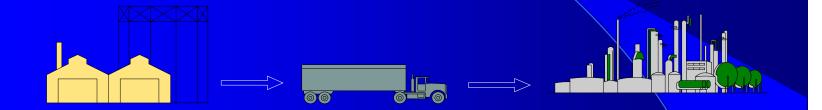
Generator Categories and Requirements



"Cradle-to-Grave" Management



Generator



- Introduction of categories of hazardous waste generators
- Outline of generator administrative requirements
- Outline of generator on-site waste accumulation requirements

What Is A Generator?

Under 40 CFR 260.10, a generator is "any person, by site, whose act or process produces hazardous waste identified or listed in part 261 of this chapter or whose act first causes a hazardous waste to become subject to regulation."

Generator Categories

- Conditionally exempt small quantity generators (CESQG) generate < 100 kg/month and < 1 kg of acute hazardous waste/month
- Small quantity generators (SQG) generate 100 to 1000 kg/month
- Large quantity generators (LQG) generate 1000 kg/month or more or > 1 kg of acute hazardous waste/month

What Administrative Requirements Apply to Waste Generators?



Generator Requirements (40 CFR 262)



- **Determine whether solid waste is hazardous**
- **Obtain an EPA identification number**
- Have waste transported, treated, stored, and disposed of only by authorized persons
- Comply with manifest requirements
- Submit reports and retain records of hazardous waste activities

Notification: General

- Requirements apply to SQGs and LQGs but not to CESQGs
- Hazardous waste generators must notify EPA/state of their hazardous waste generation, transportation, and TSD activities
- EPA/state issues an identification number that must be used on all documents

Manifest: A Key Element in Accountability

- Manifests must accompany wastes on public roads
- Generator and authorized TSD facility must be identified
- Wastes must be packaged and marked to comply with DOT regulations
- Failure to receive completed manifest requires filing an exception report within 45 days
- Generators must certify that they have a waste minimization program in place

What Substantive Management Requirements Affect Waste Generation?



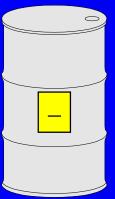
RCRA Storage Options

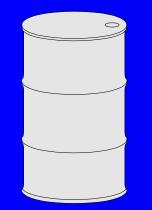
- Accumulation at point of generation
- Short-term accumulation from several generation points
- Greater than 90-day storage in permitted units

Impact of Generator Status on On-site Accumulation

CESQGs do not have to comply
SQGs get longer storage time
LQGs must comply with all

Satellite Accumulation Area Requirements





Satellite Accumulation 40 CFR 262.34(c)

 Storage limited to 55 gallons of hazardous waste in one satellite area

 Storage "at or near point of generation"

 Storage under control of the process operator Satellite Accumulation (Continued)

Chemical compatibility
Container condition
Containers must be closed

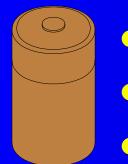


Satellite Accumulation (Cont'd)

Hazardous Waste

Label must state "hazardous waste" or describe contents of container What About Small Items Such As Batteries, Which Many Facility Personnel Discard in Small Quantities?

The universal waste rule is the answer for:



- **Batteries**
- Mercury thermostats and
- Recalled pesticides

Universal Waste Managers Include:

- Small quantity universal waste handlers
- Large quantity universal waste handlers
- Universal waste transporters
- Universal waste destination facilities

Universal Waste Managers Include:

- Small quantity universal waste handlers
- Large quantity universal waste handlers
- Universal waste transporters
- Universal waste destination facilities

Universal Waste Management

- Cannot dispose of, treat, or dilute universal waste
- Must prevent and respond to releases
- Must properly dispose of residues from universal waste management
- Must store no longer than 1 year

Universal Waste Management What's The Benefit?

May accumulate universal wastes:

- At a central location away from the point of generation
- Not under the control of the process operator
- Without meeting satellite accumulation requirements

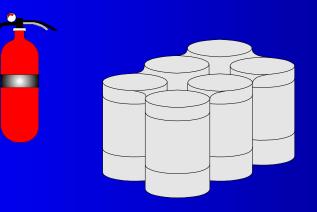
Mercury-Containing and Rechargeable Battery Management Act

Extends universal waste rule benefits to collection, storage, or transportation of used rechargeable batteries, whether or not a state has adopted the universal waste rule What If You Must Meet Satellite Area Requirements and Exceed 55 Gallons? Where's the 90-

day point?

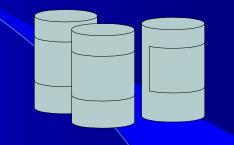
- Mark date excess accumulation begins
- Transfer waste to a 90-day point or permitted facility

90-day Accumulation Area Requirements



90-day Accumulation Areas Include

- Container storage areas
- Tanks
- Drip pads
- Containment buildings



Requirements For All 90-day Accumulation

- Closure of units meets standards in 40 CFR 265.111 and 265.114
- Waste labeled with the words "hazardous waste"
- Generator marks accumulation start date

Requirements For All 90-day Accumulation (Cont'd)

- Comply with certain standards for owners and operators of interimstatus TSD facilities:
 - Emergency preparedness and prevention
 - Contingency planning
 - **–** Training

Container Storage



- Comply with 40 CFR 265 Subpart I
- Requirements include:
 - Condition of container
 - Compatibility with container
 - Management of containers
 - Inspections
 - Standards for reactive/ignitable wastes
 - Standards for incompatible wastes
 - Air emission standards

Tanks

Comply with 40 CFR 265 Subpart J

• **Requirements include:**

- Assessment of tank systems' integrity
- Design and installation standards for new tank systems
- Release detection and containment
- Operation to minimize spills, overfills and adequately respond if spills/leaks occur
- Inspection
- Standards for ignitable, reactive, and incompatible wastes
- Air emission standards

What Kind Of Air Emissions Standards?

- Standards effective October 6, 1996 for 90-day points
- Process vents and leaks (Subpart AA)
- Equipment leaks (Subpart BB)
- Tanks and containers (Subpart CC)

Treating In 90-day Accumulation Areas

- Based on permitting exemption for "a generator accumulating waste onsite in compliance with 40 CFR 262.34...."
- EPA states accumulation must comply with 90-day standards.
- For land disposal restricted waste, must have waste analysis plan.

Applicability of Generator Standards to Recycling

Applicability To Recycling

- RCRA storage requirements apply to hazardous wastes that are recycled
- Such wastes might include waste:
 - applied to the land
 - burned for energy recovery
 - processed to obtain a usable product
 - speculatively accumulated

What If Storage Exceeds the Time Limit?

If the storage exceeds the 90-day limit, the storage must be authorized by a RCRA permit or storage extension.

Generators in Summary

- Generator standards depend on hazardous waste generation rates
- Large quantity generators have two storage options, other than permitting their facilities
- Specific requirements are imposed for storage that is exempt from permitting
- Deficiencies in meeting these on-site storage requirements are a common source of federal facility enforcement actions