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Satellite Waste Management Presented by:





Introduction

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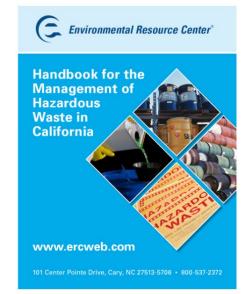
asmith@ercweb.com

>Answerline™ for one year

> Regs of the Day™

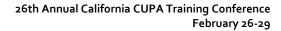
- >Tips of the Week™
- >Book Updates





Objectives

- "Define" what a satellite area is
- >Identify rules for managing satellite waste
- > Understand definitions versus interpretations
- > Identify the HWGIR that must/may be adopted



In the Beginning.....

> Satellite rules didn't exist

- Only 90-day and CESQG rules prior to 1984
- EPA presumed waste was stored in "one or two discrete locations"



In the Beginning.....

The regulated community pointed out that there may be dozens of places where hazardous wastes are initially generated and collected during daily operations

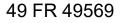


49 FR 49569

In the Beginning.....

> Original regulations made no distinction between initial point of generation ("satellite") and the central storage area where wastes are consolidated for on-site management or transportation off site



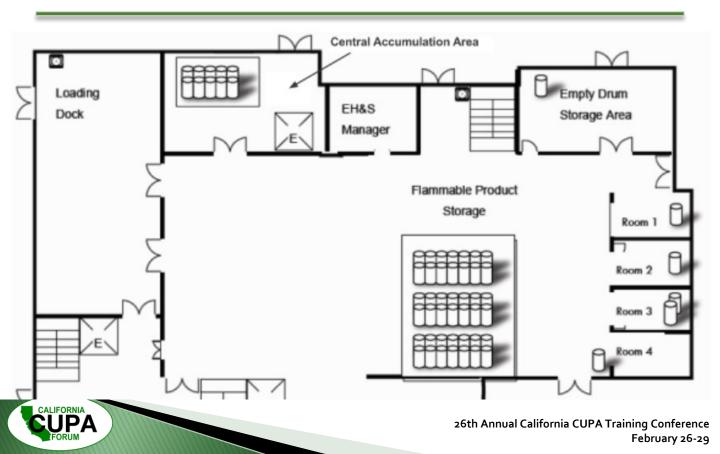


The Satellite Area

- > "Those places where wastes are generated in the industrial process or the laboratory and where those wastes must initially accumulate prior to removal to a central area."
- No limit on the number of satellite areas on site



Satellite vs. Central Accumulation



The Satellite Area

- > At or near any point of generation
- > Where waste initially accumulates
- > Under control of operator



22 CCR 66262.34(e)(1)



"At or Near," "Where Waste Initially Accumulates"

- Not defined
- >So how near is "near?"



Moving Satellite Waste

- Satellite waste may not be moved to another satellite area
 - No longer at or near point of generation or initial accumulation
 - Consolidation is permissible within a satellite area

Under the Control of the Operator



» "EPA has not defined this term in the regulations, has not discussed it in preamble and discussed it only minimally in guidance letters."

"The Agency deliberately did not propose any regulatory text to define the term 'under the control of the operator.""

Intention of the Rule

> "The goal is that this temporary accumulation is performed responsibly and safely, with adequate oversight and control."



81 FR 85767

Under the Control of the Operator



- Controlled access to an area, building, room, or cabinet
 - Access via key, lock box, access card





Let's Consider.....



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Pop Quiz

Does waste in the satellite area count towards generator status? Yes



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Satellite Accumulation



- > Quantity limits
 - 55 gallons non-acute
 - o 1 quart acute/extreme
 - ∘ 1 kilogram
- No limit on amount or type of containers



22 CCR 66262.34(e)(1)



Why 55 Gallons?

- > Does not pose a significant threat
- > Easy to control and clean up
- > Widespread use of 55-gallon containers



49 FR 49569

Pop Quiz

- > What does the 55-gallon limit apply to?
 - Process or group of processes
 - Waste stream
 - Room/area
 - Site





The 55-Gallon (or 1 qt/kg) Limit

- A process or group of processes, unless.....
 Incompatible
 - Impractical (e.g., prevents recycling or requires unreasonable procedures)
 - Unsafe (from an environmental or worker/public health standpoint)
- >Subject to review and approval

The Three "Cs" for Satellite Containers

- > Containers must be
 - Condition
 - Compatible
 - Closed

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22 CCR 66262.34(e)(1)(D)

Condition

- If a container is not in good condition
 - Transfer to good container
 - Manage under more stringent rules (e.g., 90day rules)





22 CCR 66265.171

Compatible

Container made of, or lined with, materials that will not react with, and are otherwise compatible with, the hazardous waste





22 CCR 66265.172

Compatible



>New Federal additions for compatibles

- Do not place in same container
- Do not place in unwashed container



40 CFR 262.15(a)(3)

Compatible



- Containerized waste that is incompatible with any waste or other material accumulated nearby
 - Separated
 - Protected

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Closed

Closed except when necessary

- $^{\circ}$ Add
- Remove

> "Tip test?"

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22 CCR 66265.173(a)





- > Closed except when necessary
 - Consolidate
 - Vent
 - 1. Proper operation of equipment or
 - 2. Prevent dangerous situations



40 CFR 262.15(a)(4)

Satellite Markings

- "Hazardous Waste"
- >Accumulation start date
- Composition and physical state
- >Indication of the hazards
- Generator's name and address



22 CCR 66262.34(e)(1)(E)

Markings

> "The date is clearly marked and visible for inspection"

POSAL FETY NCY OR
NCY OR
10000

22 CCR 66262.34(e)(1)(C) and (E)



CA Version

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Reaching Quantity Limits

> Upon reaching quantity limits

- Mark the date
 - Second date

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22 CCR 66262.34(e)(3)

What Does That Mean?

> Date indicates

- Beginning of the 90/180 days
- Three days to comply with
 - 90-day (LQG) rules
 - 18o-day (SQG) rules
 - Ship off site

22 CCR 66262.34(e)(3)

Pop Quiz

> Is it 3 days or 72 hours?



Three Days - Federal



- 3 days Not 72 hours
- Originally proposed 72 hours, but.....
- ".....The EPA is changigng the time requirement from 72 hours to three days. The added precision of both date and time of day is unnecessary and this change lessens the additional burden imposed by the labeling requirement"



Pop Quiz

> What does 'day' actually mean?

- Working days
- Calendar days
- Business days
- Only days I show up to work?



Federal

	FEBRUARY					
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	reach 55 gallons	16	17
18	19 Presidents day 26	20	21	gano 22	23	24
25	26 26	27	28			
						© BlankCalendarPages.c



Federal

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	reach 55 gallons	16	17
Move	e presidents day	20	21	ga110 22	23	24
1t! 25	, 991 5e	27	28			



Three Days - California

» "Periods of time are calculated by excluding the first day and including the last. Except, if the last day is a Saturday, Sunday or other holiday specified in Government Code section 6700 it is also excluded."

22 CCR 66260.10

California

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	reach 55 gallons	16	17
18	Presidents day	20	21	22	23	24
25	26	27	28			



California

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	reach 55 gallons	16	17
18	president day	Move	21	22	23	24
25	26	27	28			



Accumulation Time Limits

Generators may not hold waste on site for more than 1 year, or 90/180 days, whichever occurs first



22 CCR 66262.34(e)(1)(B)

Pop Quiz <u>90-Day Generator</u>

Satellite start date

01/01/24

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Reach 55-gallon date

Ship off site date





Pop Quiz <u>90-Day Generator</u>

Satellite start date



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Reach 55-gallon date

Ship off site date





Pop Quiz <u>90-Day Generator</u>

Satellite start date



Reach 55-gallon date

Ship off site date







Pop Quiz <u>90-Day Generator</u>

Satellite start date



Reach 55-gallon date

Ship off site date







Pop Quiz <u>90-Day Generator</u>

Satellite start date

Ship off site date



Pop Quiz <u>90-Day Generator</u>

Satellite start date

Ship off site date



February 26-29

Training?

"EPA believes, however, that since only one waste will normally be accumulated at each satellite area, and since only limited quantities are allowed to accumulate..... training plans are not necessary."

 Passed concurrently with OSHA training standards



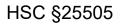
49 FR 49569

Training?

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> Business plan training

- Emergency response and safety
- All new employees
- Annual training



Inspections?

>Not required

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> EPA believed "under the control of an operator" and the container rules would, in essence, be equivalent



Secondary Containment?

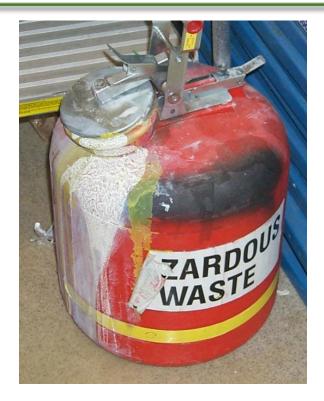
Not required

> Reasons you may voluntarily have it

- CWA
- SPCC
- Good management practice
- Corporate insurance
- Local codes

















Emergency Preparedness and Prevention



> Historically, satellite areas excluded

- > HWGIR added requirements for emergency preparedness, prevention and procedures
- » "Anywhere hazardous waste is either generated or accumulated"



40 CFR 262.15(a)(7) and (8)

Emergency Preparedness and Prevention



- > Satellite areas are now subject to
 - Required equipment
 - Testing and maintenance of equipment
 - Access to communications
 - Required aisle space
 - Arrangements with authorities
 - Emergency procedures

40 CFR 262.16(a)(7) and (8)

HWGIR Changes to Satellite

- ***** 1. Special requirements for incompatibles
 - 2. Flexibility for "closed"
- ★ 3. "Consecutive calendar days"
 - 4. Added kilogram for acute
 - 5. Clarified what happens upon reaching 55 gallons
 - 6. Changed marking requirements

* = More Stringent



HWGIR Changes to Satellite

- * 7. Added preparedness and prevention requirements
- * 8. Added "immediately" regarding moving container if it is leaking or damaged
 - 9. Cleaned up regulatory language (e.g. generators may use satellite, what regulations do not apply)

* = More Stringent



Thank You

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