

| <u>SUBJECT</u>  |              | <u>DATE</u>  |
|---|--------------|--------------|
| 1394. RCRA Empty vs. DOT Empty  | ENCORE       | JUL 30, 2020 |
| 1395. RCRA Empty vs. DOT Empty II   | ENCORE       | AUG 6, 2020  |
| 1396. Empty Containers and the "Empty" Label  | ENCORE       | AUG 13, 2020 |
| 1397. Exceptions to Free Liquids in Landfills Prohibition                                   | ENCORE       | AUG 20, 2020 |
| 1398. Dust Suppression in Landfills with Nonhazardous Liquids                               | ENCORE       | AUG 27, 2020 |
| 1399. Treated Hazardous Wastes Used as Dust Suppressant                                     | ENCORE       | SEP 3, 2020  |
| 1400. Regulatory Status of Used Oil Mixed with Diesel Fuel                                  | ENCORE       | SEP 10, 2020 |
| 1401. RCRA Liquids, Free Liquids, and Releasable Liquids                                    | ENCORE       | SEP 17, 2020 |
| 1402. Available Regulatory Relief from Underlying Hazardous Constituent (UHC) Requirements  | ENCORE       | SEP 24, 2020 |
| 1403. Smoke Detector Disposal and the NRC   | ENCORE       | OCT 1, 2020  |
| 1404. DOT Shipping of Damaged, Defective, or Recalled Lithium Batteries                     | ENCORE       | OCT 8, 2020  |
| 1405. Conservative Declaration that Material is a Hazardous Waste                           | ENCORE       | OCT 15, 2020 |
| 1406. Manifest Exception Report Submittal Timeframes – RCRA vs. TSCA                        | ENCORE       | OCT 22, 2020 |
| 1407. Characteristic Ignitable, Corrosive or Reactive Debris and Macroencapsulation         | ENCORE       | OCT 29, 2020 |
| 1408. RCRA Satellite Accumulation Areas and Applicability of Personnel Training             |              | NOV 5, 2020  |
| 1409. The Hazardous Waste Generator Improvements Rule and Designation of Nonhazardous Waste |              | NOV 12, 2020 |
| 1410. RCRA Aisle Space Requirements and Washington State vs., EPA                           |              | NOV 19, 2020 |
| 1411. The Definition of Good Housekeeping   | ENCORE       | NOV 24, 2020 |
| 1412. Absorbent Additions and Treatment   | ENCORE       | DEC 3, 2020  |
| 1413. LDR Notifications and F001-F005 Constituents of Concern                               | ENCORE       | DEC 10, 2020 |
| 1414. LDR Notifications and F001-F005 Constituents of Concern – Again!                      | ENCORE       | DEC 17, 2020 |
| 1415. 'Twas the Night before Christmas – The Twenty-Seventh Edition                         |              | DEC 24, 2020 |
| 1416. LDR Notifications and F001-F005 Constituents of Concern - One Last Time!              | ENCORE       | DEC 31, 2020 |
| 1417. RCRA Empty Containers and Removing as Much Waste as Possible                          | ENCORE       | JAN 7, 2021  |
| 1418. Universal Waste, Incandescent Bulbs and Nonhazardous Bulbs                            | ENCORE       | JAN 14, 2021 |
| 1419. Listed Waste Codes and Pre-RCRA Wastes  | ENCORE       | JAN 21, 2021 |
| 1420. Commercial Chemical Products and Unused Batteries                                     | ENCORE       | JAN 28, 2021 |
| 1421. Recycling of Non-Listed Commercial Chemical Products                                  | ENCORE       | FEB 4, 2021  |
| 1422. RCRA Personnel Training and Classroom Training vs. Online Training                    | ENCORE       | FEB 11, 2021 |
| 1423. EPA Definition of "Annual" Refresher Training   | ENCORE       | FEB 18, 2021 |
| 1424. Satellite Accumulation of Aerosol Cans and Determining the 55-Gallon Limit            | ENCORE       | FEB 25, 2021 |
| 1425. PCB Wastes and RCRA Hazardous Waste Characteristics D018 through D043                 | ENCORE       | MAR 4, 2021  |
| 1426. PCB Containers and Empty Requirements   | ENCORE       | MAR 11, 2021 |
| 1427. PCB Containers and Empty Requirements II  | ENCORE       | MAR 18, 2021 |
| 1428. PCB Containers and Decontamination Requirements                                       | ENCORE       | MAR 25, 2021 |
| 1429. F002, Methylene Chloride and Coffee Decaffeination                                    | APRIL FOOL'S | APR 1, 2021  |
| 1430. Central Accumulation Area – Location and Total Number                                 |              | APR 8, 2021  |
| 1431. Satellite Accumulation Area Container and Temporary Central Accumulation              |              | APR 15, 2021 |
| 1432. Satellite Accumulation and "At or Near"   | ENCORE       | APR 22, 2021 |
| 1433. Generators and Waste Analysis Plans   |              | APR 29, 2021 |
| 1434. RCRA TSDFs Operating Record Requirements  | ENCORE       | MAY 6, 2021  |
| 1435. Operating Records Not Referenced in the "Operating Record" Regulations                | ENCORE       | MAY 13, 2021 |
| 1436. RCRA Generators Operating Record Requirements   |              | MAY 20, 2021 |
| 1437. Operating Record vs. Operating Log  |              | MAY 27, 2021 |
| 1438. RCRA Hazard Labeling – A Random Scenario  | ENCORE       | JUN 3, 2021  |
| 1439. RCRA Treatment and the Two-Part Definition  | ENCORE       | JUN 10, 2021 |

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## TWO MINUTE TRAINING

**TO:** CENTRAL PLATEAU CLEANUP COMPANY

**FROM:** PAUL W. MARTIN, RCRA Subject Matter Expert  
CPCCo Environmental Protection, Hanford, WA

**SUBJECT:** RCRA TREATMENT AND THE TWO-PART DEFINITION

**DATE:** JUNE 10, 2021

| <u>CPCCo Projects</u>   | <u>CPCCo Functionals</u>  | <u>HMIS</u>  | <u>Hanford Laboratories</u>   | <u>Other Hanford Contractors</u>   | <u>Other Hanford Contractors</u>   |
|---|---|--|---|--|--|
| Richard Austin<br>Tania Bates<br>Rene Catlow<br>Richard Clinton<br>Stuart Hildreth<br>Sasa Kosjerina<br>Richard Lipinski<br>Stuart Mortensen<br>Dave Richards<br>Sean Sexton<br>Dave Shea<br>Phil Sheely<br>Jeff Westcott | Jeff Bramson<br>Bob Bullock<br>Frank Carleo<br>Danielle Collins<br>Jennifer Copeland<br>Jeanne Elkins<br>Ryan Fisher<br>Jonathan Fullmer<br>Leah Hare<br>Steve Heninger<br>John Hultman<br>Julie Johanson<br>Barry Lawrence<br>Diane Leist<br>Mitch Marrott<br>Stewart McMahand<br>Brian Mitcheltree<br>Anthony Nagel<br>Chris Plager<br>Linda Petersen<br>Brent Porter<br>Dale Snyder<br>Kat Thompson<br>Wayne Toebe<br>Daniel Turlington<br>Britt Wilkins | Brett Barnes<br>Michael Carlson<br>Mike Demiter<br>Kip George<br>Jerry Cammann<br>Garin Erickson<br>Panfilo Gonzalez Jr.<br>Dashia Huff<br>Mark Kamberg<br>Jon McKibben<br>Saul Martinez<br>Matt Mills<br>Carly Nelson<br>Michelle Oates<br>Eric Pennala<br>Jon Perry<br>Christina Robison<br>Christian Seavoy<br>David Shaw<br>John Skoglie<br>Lana Strickling<br>Greg Sullivan | (TBD)<br><br><u>DOE RL, ORP, WIPP</u><br><br>Duane Carter<br>Al Farabee<br>Tony McKarns | Bill Bachmann<br>Dean Baker<br>Scott Baker<br>Paul Crane<br>Tina Crane<br>Ron Del Mar<br>John Dorian<br>Mark Ellefson<br>Darrin Faulk<br>Rob Gregory<br>James Hamilton<br>Andy Hobbs<br>Stephanie Johansen<br>Ryan Johnson<br>Megan Lerchen<br>Mike Lowery<br>Michael Madison<br>Terri Mars<br>Cary Martin<br>Grant McCalmant<br>Steve Metzger<br>Tony Miskho<br>Tom Moon<br>Chuck Mulkey<br>Kirk Peterson | Dan Saueressig<br>Joelle Moss<br>Glen Triner<br>Greg Varljen<br>Robin Varljen<br>Julie Waddoups<br>Jay Warwick<br>Ted Wooley |

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## TWO MINUTE TRAINING

**SUBJECT:** RCRA Treatment and the Two-Part Definition

**Q:** A customer has hazardous debris in the form of a large piece of equipment. To secure the bulky equipment in the shipping container, the customer wants to pour a shallow layer of grout in the bottom of the waste container to ensure that the waste equipment does not shift during transportation, i.e., it is not a form of macroencapsulation. Since the RCRA definition of treatment includes wording about making waste “safer to transport”, is this grouting activity considered RCRA treatment?

**A:** [WAC 173-303-040](#), “Definitions” [[40 CFR 260.10](#)] defines “treatment” as:

*“The physical, chemical, or biological processing of dangerous waste to make such wastes nondangerous or less dangerous, safer for transport, amenable for energy or material resource recovery, amenable for storage, or reduced in volume, with the exception of compacting, repackaging, and sorting as allowed under [WAC 173-303-400\(2\)](#) and [WAC 173-303-600\(3\)](#).”*

As clarified in an Office of Solid Waste and Emergency Response (OSWER) Directive [[9432.05\(84\)](#)], dated November 6, 1984, EPA stated that the definition of treatment is made up of two parts:

1. The change in the waste’s character affected by treatment, and;
2. The purpose of the change. Purposes include: to neutralize, to recover energy or material resources, to render such waste non-hazardous, safer to transport, store or dispose; amenable for recovery, amenable for storage, or reduced in volume.

Since the definition of treatment includes two parts, the customer’s grouting activity would have to change the physical, chemical or biological character of the waste and make the waste safer to transport. The grout will make the equipment safer to transport but will not change the physical, chemical, or biological character of the waste, i.e., the hazardous debris is just as hazardous before and after the grouting so no change in waste character has occurred; therefore, no RCRA treatment has occurred.

As an example, an EPA guidance letter dated November 26, 1984 ([RO 12335](#)) clarified that if a generator dissolved plastic bags containing cyanide waste, treatment had not occurred. The purpose of dissolving the bags was to facilitate disposal and this did change the physical character of the waste from bagged waste to loose, powder waste. However, dissolving the plastic bags did not make the wastes nonhazardous, less hazardous, or safer to transport or safer dispose, etc., so both parts of the definition of treatment were not met and hence treatment did not occur.

Therefore, the customer could grout the hazardous debris equipment to secure the waste container and no RCRA treatment would occur. The two parts of RCRA treatment would not be met since the waste’s character would not be changed, even though the waste will be safer to transport.

### SUMMARY:

- The RCRA definition of treatment includes two parts: a change in the waste character and the purpose of the change.
- If both parts of the definition are met, then RCRA treatment has occurred.
- If one or both parts of the definition are not met, RCRA treatment has not occurred.

The EPA guidance letters dated November 6, 1984, and November 26, 1984, are attached to the e-mail. If you have any questions, please contact me at [Paul W Martin@rl.gov](mailto:Paul_W_Martin@rl.gov) or at (509) 376-6620.

**FROM:** Paul W. Martin

**DATE:** 6/10/2021

**FILE:** 2MT\2021\061021.rtf

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**TWO MINUTE TRAINING – ATTACHMENT**

**SUBJECT:** RCRA Treatment and the Two-Part Definition

Part 260 Subpart B – Definitions

DOC: 9432.05(84)

Key Words: Treatment

Regulations: 40 CFR 260.10

Subject: Definition of Treatment as Defined in 40 CFR 260.10 Subpart B – Definitions

Addressee: James Scarbrough, Chief, Residuals Management Branch, Region IV

Originator: John H. Skinner, Director, Office of Solid Waste

Source Doc: #9432.05(84)

Date: 11-6-84

**Summary:**

The definition of treatment is made up of two parts:

- 1) The change in the waste's characters affected by treatment.
- 2) The purpose of the change. Purposes include: to neutralize, to recover energy or material resources, to render such waste non-hazardous, safer to transport, store or dispose; amenable for recovery, amenable for storage, or reduced in volume.

To be considered treatment, facility processes must serve one of the purposes listed in No. 2 above when changing the waste's character.

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TREATMENT AS DEFINED IN 40 CFR 260.10 SUBPART B

PPC 9432.1984(05)

MEMORANDUM

NOV 26 1984

**SUBJECT:** Definition of Treatment; Application to Great Lakes Carbon Corp.

**FROM:** John H. Skinner, Director  
Office of Solid Waste (WH-562)

**TO:** James Scarbrough, Chief  
Residuals Management Branch  
EPA Region IV

We have reviewed and interpreted the definition of treatment as defined in 40 CFR 260.10, Subpart B - Definitions. The definition is made up of two parts: the change in the waste's character effected by treatment and the purpose of the change. Based on this definition, the process proposed by Great Lakes Carbon Corporation (GLCC) does not constitute treatment. GLCC's plan to add water to the cyanide contained in dissolvable plastic bags will change the physical character of the cyanide waste. However, the purpose of this change is to facilitate disposal. The change will not make the waste safer to dispose. None of those purposes listed in the definition, that is to neutralize; to recover energy or material resources; to render such waste non-hazardous or less hazardous safer to transport, store, or dispose; or amenable for recovery, amenable for storage, or reduced in volume, apply to the process proposed by GLCC.

If you have any questions, please contact Mr. Thomas Baugh of the Waste Treatment Branch at FTS 382-2550.

**FROM:** Paul W. Martin

**DATE:** 6/10/2021

**FILE:** 2MT\2021\061021.rtf

**PG:** 2

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