

<u>SUBJECT</u>		<u>DATE</u>
1253. Used Oil Filter Regulation – The Feds vs. Washington State	ENCORE	NOV 16, 2017
1254. PCB Radioactive Wastes and Exception Reporting	ENCORE	NOV 21, 2017
1255. Satellite Accumulation Requirements and Container Inspections	ENCORE	NOV 30, 2017
1256. Disposing of PCB Ballasts with PCB Potting Material	ENCORE	DEC 7, 2017
1257. Fluorescent Light Ballasts and PCB Annual Reporting		DEC 14, 2017
1258. 'Twas the Night Before Christmas – The Twenty-Fifth Annual Edition		DEC 21, 2017
1259. The Purpose of Keeping Containers Closed Except When Adding or Removing Wastes	ENCORE	DEC 28, 2017
1260. Satellite Accumulation and Product Vessel Cleanouts	ENCORE	JAN 4, 2018
1261. Conservative Declaration that Material is a Hazardous Waste	ENCORE	JAN 11, 2018
1262. Defining Criteria for Household Waste Exclusion	ENCORE	JAN 18, 2018
1263. The Household Waste Exclusion and Renovation Debris	ENCORE	JAN 25, 2018
1264. The Household Waste Exclusion and Renovation Debris – Part II	ENCORE	FEB 1, 2018
1265. The Mixtures Rule – Washington State vs. The Feds	ENCORE	FEB 8, 2018
1266. Spent Lead-Acid Batteries and Secondary Containment	ENCORE	FEB 15, 2018
1267. Spent Lead-Acid Batteries and Accumulation Time Limits	ENCORE	FEB 23, 2018
1268. CERCLA Hazardous Substances – A Brief Definition	ENCORE	MAR 1, 2018
1269. Radioactively Contaminated Lead-Acid Batteries and Hazardous Debris	ENCORE	MAR 8, 2018
1270. RCRA Treatment and the Two-Part Definition	ENCORE	MAR 15, 2018
1271. Who Wants to be a Generator!!!	ENCORE	MAR 22, 2018
1272. Who Wants to be a Generator Part 2!!!	ENCORE	MAR 29, 2018
1273. “No Smoking” Signs and Tobacco-Free Facilities		APR 5, 2018
1274. Aqueous Solutions and the Characteristic of Corrosivity	ENCORE	APR 12, 2018
1275. Aqueous Solutions and the Characteristic of Ignitability	ENCORE	APR 19, 2018
1276. PCB Bulk Product Wastes and the One Year Disposal Requirement	ENCORE	APR 26, 2018
1277. PCB Radioactive Wastes and Exception Reporting	ENCORE	MAY 3, 2018
1278. TSCA/PCB Determinations for Fluorescent Light Ballasts via the Manufacture Date	ENCORE	MAY 10, 2018
1279. RCRA Liquids, Free Liquids, and Releasable Liquids	ENCORE	MAY 17, 2018
1280. Satellite Accumulation Areas and the Three-Day Time Limit for Excess Accumulation		MAY 24, 2018
1281. Satellite Accumulation of Aerosol Cans and Determining the 55-Gallon Limit	ENCORE	MAY 31, 2018
1282. Universal Waste and Basis for the One Year Accumulation Time Limit	ENCORE	JUN 7, 2018
1283. F001 Degreaser versus F002 Solvent	ENCORE	JUN 14, 2018
1284. Hazardous Waste Determinations and Phase Separation	ENCORE	JUN 20, 2018
1285. PCB Certificates of Disposal and Manifesting Between Related Facilities		JUN 28, 2018
1286. PCB Concentrations and 10,000 PPM	ENCORE	JUL 5, 2018
1287. PCB Concentrations and 1,000 PPM	ENCORE	JUL 12, 2018
1288. Satellite Accumulation Containers and the Date of Accumulation Marking		JUL 19, 2018
1289. Satellite Accumulation Requirements in Washington State	ENCORE	JUL 26, 2018
1290. Satellite Accumulation Areas and Under the Control of the Operator		AUG 2, 2018
1291. Exceptions to Free Liquids in Landfills Prohibition	ENCORE	AUG 9, 2018
1292. Ampules and the Exception to Free Liquid in Landfills Prohibition		AUG 16, 2018
1293. Overpacks vs. Salvage Drums	ENCORE	AUG 23, 2018
1294. Universal Wastes - Recycling versus Disposal	ENCORE	AUG 30, 2018
1295. Universal Waste One Year Accumulation and Multiple Handlers	ENCORE	SEP 6, 2018
1296. Universal Waste and Multiple Handlers at One Facility		SEP 13, 2018
1297. Universal Waste, Satellite Accumulation and Centralized Collection Areas		SEP 20, 2018
1298. Available Regulatory Relief from Underlying Hazardous Constituent (UHC) Requirements	ENCORE	SEP 27, 2018
1299. Satellite Accumulation and the One Year LDR Prohibitions on Storage	ENCORE	OCT 4, 2018
1300. Purpose of the ≤90-day Hazardous Waste Accumulation Conditional Exclusion	ENCORE	OCT 11, 2018
1301. Regulatory Status of Used Oil Mixed with Diesel Fuel		OCT 18, 2019
1302. Recyclable Chemicals and Zombie Destruction	ENCORE	OCT 25, 2018
1303. Empty Containers and the “Empty” Label		NOV 1, 2018
1304. Manifest Exception Report Submittal Timeframes – RCRA vs. TSCA		NOV 8, 2018
1305. Smoke Detector Disposal and the NRC	ENCORE	NOV 15, 2018
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1307. Characteristic Ignitable, Corrosive or Reactive Debris and Macroencapsulation	ENCORE	NOV 29, 2018
1308. Disposal Requirements for Hazardous Waste Treated to LDR Standards	ENCORE	DEC 6, 2018
1309. Disposal Relief for Listed Hazardous Debris Treated to LDR Standards	ENCORE	DEC 13, 2018
1310. 'Twas the Night Before Christmas - The Twenty-Sixth Annual Edition	ENCORE	DEC 20, 2018
1311. Product Storage Tank Residues and Hazardous Waste Regulations	ENCORE	DEC 27, 2018

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TWO MINUTE TRAINING

TO: CH2M HILL PLATEAU REMEDIATION COMPANY

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

SUBJECT: PRODUCT STORAGE TANK RESIDUES AND HAZARDOUS WASTE REGULATIONS

DATE: DECEMBER 27, 2018

<u>CHPRC Projects</u>	<u>CH PRC - Env. Protection</u>	<u>MSA</u>	<u>Hanford Laboratories</u>	<u>Other Hanford Contractors</u>	<u>Other Hanford Contractors</u>
Richard Austin Tania Bates Rene Catlow Richard Clinton Larry Cole John Dent Lorna Dittmer Eric Erpenbeck Stuart Hildreth Mike Jennings Stephanie Johansen Sasa Kosjerina Melvin Lakes Richard Lipinski Jim McGrogan Stuart Mortensen Dave Richards Phil Sheely Connie Simiele Jennie Stults Jeff Westcott Jeff Widney	Bob Bullock Bill Cox Laura Cusack Jim Leary Anthony Nagel Linda Petersen Fred Ruck Ray Swenson Wayne Toebe Daniel Turlington Dave Watson	Brett Barnes Jerry Cammann Jeff Ehlis Garin Erickson Panfilo Gonzalez Jr. Dashia Huff Mark Kamberg Jon McKibben Saul Martinez Jon Perry Christina Robison Lana Strickling Lou Upton	(TBD) <u>DOE RL, ORP, WIPP</u> Mary Beth Burandt Duane Carter Cliff Clark Tony McKarns	Bill Bachmann Dean Baker Scott Baker Lucinda Borneman Paul Crane Tina Crane Ron Del Mar John Dorian Mark Ellefson Tom Gilmore Rob Gregory James Hamilton Andy Hobbs Ryan Johnson Megan Lerchen Charles (Mike) Lowery Michael Madison Terri Mars Cary Martin Grant McCalmant Steve Metzger Tony Miskho Matt Mills Tom Moon Chuck Mulkey Kirk Peterson	Jean Quigley Dan Saueressig Merrie Schilperoort Joelle Moss Glen Triner Greg Varljen Julie Waddoups Jay Warwick Ted Wooley

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TWO MINUTE TRAINING

SUBJECT: Product Storage Tank Residues and Hazardous Waste Designations

Q: A customer has a toluene product tank shut down for cleaning. The cleaning contractor has estimated 80 to 100 days to complete the cleanout. How long can the residues remain in this inactive product tank before the residues in the tank become subject to hazardous/dangerous waste regulation?

A: WAC 173-303-071(3)(n) [40 CFR 261.4(c)] basically states that dangerous wastes generated in a product or raw material storage tank are excluded from dangerous waste regulations until the waste exits the tank in which it was generated - unless the dangerous waste remains in the product tank for more than ninety days after the tank ceases to be operated for manufacturing or storage of the product.

As further clarification, an EPA memo dated December 19, 1986, states:

"...if you are able to clean out your process tank within 90 days after production or product storage is stopped, that process tank would not be considered a waste accumulation tank and, therefore, would not be subject to secondary containment standards. The waste removed, however, is subject to the hazardous waste control system if it is determined to be a hazardous waste."

Another EPA memo dated April 20, 1995, states that a generator's ≤ 90 -day accumulation time limit would begin when the waste exits the tank or when the waste has remained in the tank for more than 90 days, i.e., the ≤ 90 -day clock would start on the 91st day if the waste remained in the tank.

Therefore, the customer should ensure that the residues are removed from the product tank within 90 days after tank operations cease - whether temporarily or permanently. The residues would be subject to dangerous waste regulation upon exiting the tank or, if the residues remain in the tank, 90 days after ceasing tank operations. If the dangerous waste residues remain in the tank 90 days after ceasing tank operations, the tank becomes a dangerous waste accumulation tank and subject to the generator or permit standards for dangerous waste tanks as appropriate.

SUMMARY:

- Dangerous waste generated in a product tank is not subject to regulation until exiting the tank, unless the waste remains in the tank for more than 90 days.
- The ≤ 90 -day accumulation time limit for a generator begins when the waste exits the product tank or when the waste has remained in the tank for more than 90 days.
- If waste remains in the tank on the 91st day, the product tank becomes an accumulation tank subject to generator or permitted dangerous waste tank standards.

WAC 173-303-071(3)(n), the December 19, 1986, and the April 20, 1995, EPA memos are attached to the e-mail. If you have any questions, contact me at [Paul W Martin@rl.gov](mailto:Paul_W_Martin@rl.gov) or at (509) 376-6620.

FROM: Paul W. Martin

DATE: 12/27/18

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TWO MINUTE TRAINING – ATTACHMENT

SUBJECT: Product Storage Tank Residues and Hazardous Waste Regulations

WAC 173-303-071 Excluded categories of waste.

- (1) Purpose. Certain categories of waste have been excluded from the requirements of chapter 173-303 WAC, except for WAC 173-303-050, because they generally are not dangerous waste, are regulated under other state and federal programs, or are recycled in ways, which do not threaten public health or the environment. WAC 173-303-071 describes these excluded categories of waste.
- (2) Excluding wastes. Any persons who generate a common class of wastes and who seek to categorically exclude such class of wastes from the requirements of this chapter must comply with the applicable requirements of WAC 173-303-072. No waste class will be excluded if any of the wastes in the class are regulated as hazardous waste under 40 CFR Part 261.
- (3) Exclusions. The following categories of waste are excluded from the requirements of chapter 173-303 WAC, except for WAC 173-303-050, 173-303-145, and 173-303-960, and as otherwise specified:
 - (n) Dangerous waste generated in a product or raw material storage tank, a product or raw material transport vehicle or vessel, a product or raw material pipeline, or in a manufacturing process unit or an associated nonwaste-treatment-manufacturing unit until it exits the unit in which it was generated. This exclusion does not apply to surface impoundments, nor does it apply if the dangerous waste remains in the unit more than ninety days after the unit ceases to be operated for manufacturing, or for storage or transportation of product or raw materials;

40 CFR 261.4 Exclusions.

- (c) Hazardous wastes which are exempted from certain regulations.

A hazardous waste which is generated in a product or raw material storage tank, a product or raw material transport vehicle or vessel, a product or raw material pipeline, or in a manufacturing process unit or an associated non-waste-treatment-manufacturing unit, is not subject to regulation under parts 262 through 265, 268, 270, 271 and 124 of this chapter or to the notification requirements of section 3010 of RCRA until it exits the unit in which it was generated, unless the unit is a surface impoundment, or unless the hazardous waste remains in the unit more than 90 days after the unit ceases to be operated for manufacturing, or for storage or transportation of product or raw materials.

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DATE: 12/27/18

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TWO MINUTE TRAINING – ATTACHMENT

SUBJECT: Product Storage Tank Residues and Hazardous Waste Regulations

Faxback 13790

9483.1986(11)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

DEC 19 1986

Mr. Hadley Bedbury
Senior Environmental Engineer
Diamond Shamrock Chemicals Company
1149 Ellsworth Drive
Pasadena, Texas 77501

Dear Mr. Bedbury:

Thank you for your letter of August 8, 1986, in which you raised several questions related to the final hazardous waste tank systems rules (51 FR 25422).

Your first question concerned the applicability of the secondary containment requirements to production tanks during periodic cleanouts. 40 CFR 261.4(c) states that "a hazardous waste which is generated in a product or raw material storage tank, a product or raw material transport vehicle or vessel, a product or raw material pipeline, or in a manufacturing process unit or an associated non-waste-treatment-manufacturing unit is not subject to" the containment regulations "until it exits the unit in which it was generated, . . . , or unless the hazardous waste remains in the unit more than 90 days after the unit ceases to be operated for manufacturing, or for storage or transportation of product or raw materials." Thus, if you are able to clean out your process tank within 90 days after production or product storage is stopped, that process tank would not be considered a waste accumulation tank and, therefore, would not be subject to secondary containment standards. The waste removed, however, is subject to the hazardous waste control system if it is determined to be a hazardous waste.

A related question concerns the applicability of the hazardous waste tank system standards to process transfer equipment normally used for production purposes, but also used to transfer hazardous waste residue to either a NPDES wastewater treatment system or an onsite RCRA treatment/storage facility. Assuming it is removed within 90 days after production or product storage is stopped, the hazardous waste generated within product/raw material process tanks does not become subject to the hazardous waste tank system standards until it exits the unit in which it was generated. The tank system standards apply to ancillary equipment used to handle the hazardous waste during transfer from its point of origin to a hazardous waste storage/treatment tank. We consider the point of exit from the process tank to be the introductory point for the hazardous waste into a hazardous waste tank system. Therefore, any process transfer equipment, even if normally used for production purposes, that is also used to transfer hazardous waste residue during equipment washout/cleanout procedures to a hazardous waste storage/treatment tank, would be considered part of a hazardous waste tank system and thus subject to the standards for such. If the hazardous waste residue is

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TWO MINUTE TRAINING – ATTACHMENT

SUBJECT: Product Storage Tank Residues and Hazardous Waste Regulations

transferred to a wastewater treatment tank that is exempted from the regulations under 264.1(g)(6), the hazardous waste tank regulations now appear to apply to the ancillary equipment. The Agency is considering whether to address this issue in the near future.

Another related question concerns hose lines that are normally used in connection with product storage but are also used as loading/unloading equipment for hazardous waste. During any hazardous waste transfer operation, EPA intends that appropriate controls and practice be provided to prevent the release of hazardous waste to ground water, surface water, or soil should a leak, spill, or other incident occur during the loading/unloading process. Prior to returning hose lines that were used for this purpose to their normal use in product storage, good practice would be to clean the hoses so that all hazardous waste residues are removed or decontaminated.

Another question addresses the applicability of the closed loop recycling exclusion under 40 CFR 261.4 to tanks that are used in the reuse of materials. Given your description of the process, these reused materials that result from the incomplete conversion of raw materials to final products, would not be defined as solid wastes and thus would not be hazardous wastes (see 40 CFR 261.2(e)(1)(iii)). Thus, such reused material would not be regulated under RCRA Subtitle C.

Finally, you questioned what effect future interpretation or guidance manuals would have on the acceptability of a certification made by an independent professional engineer prior to the availability of such guidance materials. EPA is developing a technical guidance manual to assist both permit applicants and permit writers in more fully understanding the revised tank system regulations. A notice of the availability of this guidance manual will be published, in the near future, in the Federal Register. A certifying engineer, in making an assessment of a tank system, must take into account all the factors listed in Sections 264.191 and 265.191 (for existing tank systems) and Sections 264.192 and 265.192 (for new tank systems). If a tank system is judged by an independent, qualified, register professional engineer to be appropriate for the storage or treatment of hazardous waste, in accordance with the regulations, that certification should not be affected by guidance materials made available subsequent to the assessment.

If you need further clarification of these responses, or if you have any additional questions, please call William Kline at (202) 382-7917.

Sincerely,

Joseph E. Carra
Acting Director
Waste Management Division

FROM: Paul W. Martin

DATE: 12/27/18

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SUBJECT: Product Storage Tank Residues and Hazardous Waste Regulations

FAXBACK 11903

9441.1995(15)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

April 20, 1995

Mr. W. J. Sweeney
Manager, Environment Department
Alyeska Pipeline
1835 South Bragaw Street
Anchorage, Alaska 99512

Dear Mr. Sweeney:

I am writing in response to your letter of December 23, 1994 and the earlier May 9, 1994 letter from Jordan E. Johnson which, on behalf of Alyeska Pipeline, request an interpretation of a regulatory exemption provided at 40 CFR 261.4(c) for tanks, vehicles, vessels, process or manufacturing units, or pipelines if these units have been shut down for ninety days. The letters also request definition of when a material comes within the listing description for K050 listed hazardous waste.

Regulations at 40 CFR 261.4(c) state: "A hazardous waste which is generated in a raw material storage tank, a product or raw material transport vehicle or vessel, a product or raw material pipeline, or in a manufacturing process unit or an associated non-waste-treatment-manufacturing unit, is not subject to regulation under parts 262 through 265, 268, 270, 271, and 124 of this chapter or to the notification requirements of section 3010 of RCRA until it exits the unit in which it was generated, unless the unit is a surface impoundment, or unless the hazardous waste remains in the unit more than 90 days after the unit ceases to be operated for manufacturing, or for storage or transportation of product or raw materials."

EPA provided further clarification on this provision in the October 30, 1980 preamble to this rulemaking: "The 90-day accumulation period (262.34) starts when the hazardous waste is removed from the tank, vessel, or unit, except when in the case where a tank vessel or unit ceases to be operated for its primary purpose in which case the period starts when operation ceases." 45 FR 72024 (emphasis added.) Thus, the preamble implies that for the owner/operator the accumulation period begins the day the manufacturing process unit is shut down.

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SUBJECT: Product Storage Tank Residues and Hazardous Waste Regulations

It was not the Agency's intent to regulate wastes in these units unless the waste exits the unit or remains in the unit for more than 90 days after the unit is no longer in operation. Therefore, the accumulation period for a tank, vessel, or unit that ceases to be operated for its primary purpose would begin either when the waste exits the unit, or if the waste remains in the unit for more than 90 days, the accumulation period would begin on day 91. Because the regulations delay application of Part 262 until 90 days after operation ceases, the Agency believes that the availability of the 90-day accumulation period in 262.34 is more hazardous waste which is generated in a product or raw material storage tank, a product or raw material transport vehicle or vessel, a product or raw material pipeline, or in a manufacturing process unit or associated non-waste-treatment-manufacturing unit, may remain in the unit for up to ninety days after the unit has been shut down, and may then be stored for an additional ninety days in a tank, container, drip pad, or containment building in the compliance with the requirements of 40 CFR 262.34, without a RCRA storage permit.

Please note that under section 3006 of RCRA, individual states can be authorized to administer and enforce their own hazardous waste programs in lieu of the Federal program. In addition, section 3009 of RCRA allows states to promulgate regulatory requirements that are more stringent than the Federal program. Therefore, you should contact the appropriate state environmental agency in your state for applicable laws and regulations that may exist.

Thank you for your interest in safe and effective management of hazardous waste.

Sincerely,

Michael Shapiro, Director
Office of Solid Waste

FROM: Paul W. Martin

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