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Sequence Number:

Notice ID(s):

File Date:

Notice of Rulemaking Hearing

Hearings will be conducted in the manner prescribed by the Uniform Administrative Procedures Act, T.C.A. § 4-5-204. For questions and copies of the notice, contact the person listed below.

Agency/Board/Commission:	Underground Storage Tanks and Solid Waste Disposal Control Board	
Division: Solid Waste Management		
Contact Person:	Jackie Okoreeh-Baah	
William R. Snodgrass TN Tower 312 Rosa L. Parks Avenue, 14th Floor		
Address:	Nashville, Tennessee 37243	
Phone:	(615) 532-0825	
Email:	Jackie.Okoreeh-Baah@tn.gov	

Any Individuals with disabilities who wish to participate in these proceedings (to review these filings) and may require aid to facilitate such participation should contact the following at least 10 days prior to the hearing:

ADA Contact:	ADA Coordinator	
	William R. Snodgrass TN Tower	
	312 Rosa L. Parks Avenue, 22nd Floor	
Address:	Nashville, Tennessee 37243	
	1-866-253-5827 (toll free) or (615) 532-0200	
Phone:	Hearing impaired callers may use the TN Relay Service at 1-800-848-0298.	
Email:	Jennifer.Katzenmiller@tn.gov	

Hearing Location(s) (for additional locations, copy and paste table)

Address 1:	The Nashville Room, 3 rd Floor		
Address 2:	William R. Snodgrass Tennessee Tower		
	312 Rosa L. Parks Avenue		
City:	Nashville, Tennessee		
Zip:	37243		
Hearing Date :			
Hearing Time:	X_CST/CDTEST/EDT		

Additional Hearing Information:

If it is hard for you to read, speak, or understand English, TDEC may be able to provide translation or interpretation services free of charge. Please contact Mary F. Evans at (615-532-0798) for more information.

The primary purpose of this rulemaking is to incorporate the five federal rulemakings published November 28, 2016 (Hazardous Waste Generator Improvements Rule), November 28, 2016 (Hazardous Waste Export-Import Revisions), December 26, 2017 (Confidentiality Determinations for Hazardous Waste Export and Import Documents), January 3, 2018 (Hazardous Waste Management System; User Fees for the Electronic Hazardous Waste Manifest System and Amendments to Manifest Regulations), and November 30, 2018 (Safe Management of Recalled Airbags). Of these five federal rulemakings, all but the hazardous waste generator improvements rule are incorporated into Chapter 0400-12-01 essentially as written and are summarized as follows:

- As published on November 30, 2018, EPA amended federal regulations to exempt the collection
 of airbag waste from hazardous waste requirements if certain conditions are met so that removal
 of defective airbag inflators by dealerships, salvage yards, and other locations for safe and
 environmentally sound disposal is expedited.
- As published on November 28, 2016, the Environmental Protection Agency (EPA) amended the federal regulations regarding the export and import of hazardous wastes from and into the United States. The amendments provide greater protection to human health and the environment by making existing export and import related requirements more consistent with the current import-export requirements for shipments between members of the Organization for Economic Cooperation and Development (OECD); enable electronic submittal to EPA of all export and import-related documents (e.g., export notices, export annual reports); and enable electronic validation of consent in the Automated Export System (AES) for export shipments subject to RCRA export consent requirements prior to exit. The AES resides in the U.S. Customs and Border Protection's Automated Commercial Environment (ACE). EPA does not authorize states to administer these regulations. However, state programs are still required to adopt the provisions in this rule to maintain their equivalency with the federal program.
- As published on December 26, 2017, the federal regulations have also been amended to disallow claims of business confidentiality by any person with respect to export documentation of cathode ray tubes. Because of the federal government's special role in matters of foreign policy, EPA does not authorize states to administer federal import/export functions. However, state programs are still required to adopt the provisions in this rule to maintain their equivalency with the federal program.
- As published on January 3, 2018, EPA amended the federal regulations to establish the methodology the agency will use to determine and revise the user fees applicable to the electronic and paper manifest system (e-Manifest system) that EPA is developing under the Hazardous Waste Electronic Manifest Establishment Act. EPA will administer the e-Manifest system and will not allow state implementation of these requirements. However, state programs are still required to adopt the provisions in this rule to maintain their equivalency with the federal program.

The federal hazardous waste generator improvements rule as published November 28, 2016:

- Reorganizes the hazardous waste generator regulations to make them more user-friendly;
- Increases understanding of the hazardous waste generator requirements;
- Addresses gaps in the existing regulations;
- Provides greater flexibility for hazardous waste generators to manage their hazardous waste in a costeffective and protective manner;
- Makes technical corrections and conforming changes to address inadvertent errors.

Specifically, the federal changes include:

- Requiring small quantity generators ("SQGs"), large quantity generators ("LQGs"), and hazardous waste transporter transfer facilities to better define the risks of hazardous wastes accumulated in tanks, containers, and containment buildings, as well as when hazardous waste is accumulated in satellite accumulation areas and make it more easily visible to employees, visitors, emergency responders, waste handlers, or other persons on site;
- Requiring LQGs to notify when they plan to close their facilities;
- Requiring LQGs in their biennial reports to report on all of the hazardous wastes generated in the calendar year, not just for the months the facility was an LQG;
- Requiring LQGs updating their contingency plans to prepare a quick reference guide for their contingency plans to assist responders in an emergency;
- Requiring facilities that recycle hazardous waste without storing the waste to prepare and submit a biennial report;
- Allowing very small quantity generators ("VSQGs") to voluntarily send hazardous waste to LQGs under the control of the same person;
- Allowing LQGs to apply for a waiver from their local fire department to accumulate ignitable and reactive wastes within the 50 foot facility boundary;
- Allowing VSQGs and SQGs to voluntarily maintain their existing regulatory status if they have an episodic event that generates additional amounts of hazardous waste which would have resulted in them moving into a higher generator category for a short period of time, so long as they comply with specified conditions;
- Defining a central accumulation area and the generator categories;

- Clarifying how mixtures of hazardous waste and non-hazardous wastes are to be regulated; •
- Prohibiting generators from sending hazardous waste liquids to landfills; and
- Technical corrections and conforming changes to various parts of the regulations.

Incorporating the federal hazardous waste generator improvements rule modifications into Chapter 0400-12-01 it is necessary or desirable to make modifications because of either existing state law or long standing policies of the Underground Storage Tanks and Solid Waste Disposal Control Board ("Board") as follows:

- Tennessee Code Annotated section 68-212-118 requires the Board and the Commissioner to annually submit a written report prior to January 7 to the Speaker of the Senate and the Speaker of the House of Representatives that includes: a list of hazardous waste generators and the amount of hazardous waste, by type, generated, transported, treated, stored, and disposed of in Tennessee, including the amount shipped into Tennessee from other states and the amounts shipped from Tennessee to other states.
 - To satisfy this statutory requirement, Rule 0400-12-01-.03 requires annual reports from both 0 small quantity and large quantity generators (compared to EPA's biennial reports from large quantity generators) and requires generators to maintain up-to-date notification files.
 - 0 From the hazardous waste program's inception, the Board has required a much more detailed notification than the EPA. In addition to environmental benefits, this requirement benefits generators because it enables the Department to report generator status to EPA on behalf of the generators.
- It has been the Board's policy dating back to March 2, 1981, to require hazardous waste generators to keep records of the inspections that the rules require generators to conduct, although records of inspections are not currently required by the federal regulations. The proposed rules retain the state requirement.
- Tennessee Code Annotated section 68-212-110 requires the Board, among other things, to establish a schedule of fees for hazardous waste generators, and Tennessee Code Annotated section 68-203-103 requires the Department to charge fees for the various services and functions it performs. Hazardous waste generator fees have no counterpart in the federal regulations. The federal revisions to how generator status is determined make the State's continued use of "generator status" as a method of determining annual generator fee payment no longer tenable. Under the Department's proposed rules generator fees will no longer be "status-based" but "quantity-based." This modification is not intended to raise fee revenue, but to maintain fee revenue. Without this revision, the hazardous wastes generated during episodic events would not be subject to generator fees or reported. For the purpose of calculating the annual generator fee under the proposed rule, a generator will determine the quantity it generated each calendar month in the same manner as a generator determines generator status under subparagraph (1)(d) of Rule 0400-12-01-.03, except the quantities generated during episodic event(s) and managed on-site in accordance with paragraph (11) of Rule 0400-12-01-.03 will not be subtracted out of the calendar month generation rate calculations for the purpose of paying the generator fee.

This rulemaking includes revisions that are necessary to update the hazardous waste rules to include:

- Adding a reference to Chapter 0400-01-40 when documents are submitted electronically, so that electronic reporting will be compliant with EPA electronic reporting requirements regarding document integrity.
- Revising the evaluation criteria for excluding waste from being hazardous waste because chromium is present but it is present only in its trivalent state. The criteria is revised to be identical to the federal criteria and to clarify that the list of specific wastes that meet this criteria must be amended through the rulemaking process before the trivalent chromium waste can be excluded. The current list of specific wastes is being amended to add two additional waste sources that meet the trivalent chromium exclusion criteria. These revisions are more protective of human health and the environment and provide clarity to regulated businesses.
- Making various technical corrections and conforming changes to various parts of the rules.

An initial set of draft rules has been prepared for public review and comment. Copies of these initial draft rules are available for review at the Tennessee Department of Environment and Conservation's (TDEC's) Environmental Field Offices located as follows:

Memphis Environmental Field Office 8383 Wolfe Lake Drive Bartlett, TN 38133 (901) 371-3000/ (901) 371-3170	Cookeville Environmental Field Office 1221 South Willow Avenue Cookeville, TN 38506 (931) 432-4015/ 1-888-891-8332	
Jackson Environmental Field Office	Chattanooga Environmental Field Office	
SS-7037 (July 2014)	3	RDA 1693

1625 Hollywood Drive Jackson, TN 38305 (731) 512-1300/1-888-891-8332

Columbia Environmental Field Office 1421 Hampshire Pike Columbia, TN 38401 (931) 380-3371/ 1-888-891-8332

Nashville Environmental Field Office 711 R. S. Gass Blvd. Nashville, TN 37243-1550 (615) 687-7000/1-888-891-8332 1301 Riverfront Parkway Suite 206 Chattanooga, TN 37402 (423) 634-5745/1-888-891-8332

Knoxville Environmental Field Office 3711 Middlebrook Pike Knoxville, TN 37921-5602 (865) 594-6035/1-888-891-8332

Johnson City Environmental Field Office 2305 Silverdale Road Johnson City, TN 37601-2162 (423) 854-5400/1-888-891-8332

The "DRAFT" rules may also be accessed for review using at <u>http://tn.gov/environment/topic/ppo-waste</u>.

Draft copies are also available for review at the Nashville Central Office (see address below).

Tennessee Department of Environment and Conservation Division of Solid Waste Management William R. Snodgrass TN Tower 312 Rosa L. Parks Avenue, 14th Floor Nashville, Tennessee 37243 (615) 532-0780

Office hours are from 8:00 AM to 4:30 PM, Monday through Friday (excluding holidays).

Oral or written comments are invited at the hearing. In addition, written comments may be submitted prior to or after the public hearing to: Tennessee Department of Environment and Conservation, Division of Solid Waste Management; Attention: Jackie Okoreeh-Baah, William R. Snodgrass TN Tower, 312 Rosa L. Parks Avenue, 14th Floor, Nashville, Tennessee 37243; telephone 615-532-0825 or fax 615-532-0886. However, such written comments must be received by 4:30 PM CST, _______, in order to assure consideration. For further information, please contact Jackie Okoreeh-Baah at the above address or telephone number or by e-mail at Jackie.Okoreeh-Baah@tn.gov.

Revision Type (check all that apply):

- X Amendment
- New

Repeal

Rule(s) (ALL chapters and rules contained in filing must be listed. If needed, copy and paste additional tables to accommodate more than one chapter. Please enter only **ONE** Rule Number/Rule Title per row.)

Chapter Number	Chapter Title		
0400-12-01	Hazardous Waste Management		
Rule Number	Rule Title		
0400-12-0101	Hazardous Waste Management System: General		
0400-12-0102	Identification and Listing of Hazardous Waste		
0400-12-0103	Notification Requirements and Standards Applicable to Generators of Hazardous Waste		
0400-12-0104	Requirements Applicable to Transfer Facilities and Permit Requirements and Standards		
	Applicable to Transporters of Hazardous Waste		
0400-12-0105	Interim Status Standards for Owners and Operators of Existing Hazardous Waste		
	Treatment, Storage, and Disposal Facilities		
0400-12-0106	-12-0106 Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and		
	Disposal Facilities		
0400-12-0107	Permitting of Hazardous Waste Treatment, Storage, and Disposal Facilities		
0400-12-0108 Fee System for Transporters, Storers, Treaters, Disposers, and Certain Generators of			
	Hazardous Waste and for Certain Used Oil Facilities or Transporters		
0400-12-0109	Standards for the Management of Specific Hazardous Wastes and Specific Types of		
	Hazardous Waste Management Facilities		
0400-12-0110	Land Disposal Restrictions		
0400-12-0111	Standards for the Management of Used Oil		
0400-12-0112	Standards for Universal Waste Management		

(Place substance of rules and other info here. Statutory authority must be given for each rule change. For information on formatting rules go to http://state.tn.us/sos/rules/1360/1360.htm)

Chapter 0400-12-01 Hazardous Waste Management

Amendments

Paragraph (1) of Rule 0400-12-01-.01 Hazardous Waste Management System: General is amended by adding four new subparagraphs following subparagraph (c) so the new subparagraphs (d) through (g) shall read as follows:

- (d) Manifest copy submission requirements for certain interstate waste shipments.
 - 1. In any case in which the state in which waste is generated, or the state in which waste will be transported to a designated facility, requires that the waste be regulated as a hazardous waste or otherwise be tracked through a hazardous waste manifest, the designated facility that receives the waste shall, regardless of the state in which the facility is located:
 - (i) Complete the facility portion of the applicable manifest;
 - (ii) Sign and date the facility certification;
 - (iii) Submit to the e-Manifest system a final copy of the manifest for data processing purposes; and
 - (iv) Pay the appropriate per manifest fee to EPA for each manifest submitted to the e-Manifest system, subject to the fee determination methodology, payment methods, dispute procedures, sanctions, and other fee requirements specified in subpart FF of 40 CFR part 264.
 - 2. Reserved.
- (e) Applicability of electronic manifest system and user fee requirements to facilities receiving stateonly regulated waste shipments.
 - 1. For purposes of this subparagraph, "state-only regulated waste" means:
 - (i) A non-RCRA waste that a state regulates more broadly under its state regulatory program, or
 - (ii) A RCRA hazardous waste that is federally exempt from manifest requirements, but not exempt from manifest requirements under state law.
 - 2. In any case in which a state requires a RCRA manifest to be used under state law to track the shipment and transportation of a state-only regulated waste to a receiving facility, the facility receiving such a waste shipment for management shall:
 - (i) Comply with the provisions of subparagraph (5)(b) of Rule 0400-12-01-.06 (use of the manifest) and subparagraph (5)(c) of Rule 0400-12-01-.06 (manifest discrepancies); and
 - (ii) Pay the appropriate per manifest fee to EPA for each manifest submitted to the e-Manifest system, subject to the fee determination methodology, payment methods, dispute procedures, sanctions, and other fee requirements specified subpart FF of 40 CFR part 264.
- (f) Electronic Reporting

This chapter requires the submission of forms developed by the Commissioner in order for a

person to comply with certain requirements, including, but not limited to, notifying of hazardous waste generation, making reports, submitting monitoring results, and applying for permits. The Commissioner may make these forms available electronically and, if submitted electronically, then that electronic submission shall comply with the requirements of Chapter 0400-01-40.

(g) Additional Information

The Commissioner may require the submission information as deemed necessary to determine compliance with the Act or these rules. The information required by the Commissioner shall be submitted by the date specified by the Commissioner and in accordance with the instructions accompanying the request.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Subparagraph (a) of paragraph (2) of Rule 0400-12-01-.01 Hazardous Waste Management System: General is amended by modifying the definitions for "Hazardous waste code", "Installation identification number", "Small quantity generator", "Treatability Study", "Universal Waste", Universal Waste Handler", "Universal Waste Transfer Facility", and "Universal Waste Transporter" to read as follows while remaining in alphabetical order:

"Hazardous waste code" or "Hazardous waste number" or "EPA hazardous waste number" means the code assigned by the Department or EPA to each hazardous waste listed in paragraph (4) of Rule 0400-12-01-.02 and to each characteristic identified in paragraph (3) of Rule 0400-12-01-.02, and any derivation of such codes or number which may be assigned by the Department or EPA to an individual waste or class of wastes.

"Installation identification number" or "EPA identification number" means the number assigned to each generator, transporter, and treatment, storage, or disposal facility by the Department or EPA. For generators and facilities in this state, and for transporters who pick up hazardous waste from, or deliver hazardous waste to, locations in this state, references in these rules to their installation identification number or EPA identification number shall mean the number assigned by the Department. For other generators, transporters, and facilities, such references shall mean the number assigned by EPA or an authorized state program.

"Small Quantity Generator" is a generator who generates the following amounts in a calendar month:

- 1. Greater than 100 kilograms (220 lbs) but less than 1,000 kilograms (2200 lbs) of nonacute hazardous waste; and
- Less than or equal to 1 kilogram (2.2 lbs) of acute hazardous waste listed in subparagraph (4)(b) of Rule 0400-12-01-.02 with the assigned hazard code of (H) or listed in part (4)(d)5 of Rule 0400-12-01-.02; and
- 3. Less than or equal to 100 kilograms (220 lbs) of any residue or contaminated soil, water, or other debris resulting from the cleanup of a spill, into or on any land or water, of any acute hazardous waste listed in subparagraph (4)(b) of Rule 0400-12-01-.02 with the assigned hazard code of (H) or listed in part (4)(d)5 of Rule 0400-12-01-.02.

"Treatability study" means a study in which a hazardous waste is subjected to a treatment process to determine: (1) Whether the waste is amenable to the treatment process, (2) what pretreatment (if any) is required, (3) the optimal process conditions needed to achieve the desired treatment, (4) the efficiency of a treatment process for a specific waste or wastes, or (5) the characteristics and volumes of residuals from a particular treatment process. Also included in this definition for the purpose of parts (1)(d)5 and 6 of Rule 0400-12-01-.02 exemptions are liner compatibility, corrosion, and other material compatibility studies and toxicological and health effects studies. A "treatability study" is not a means to commercially treat or dispose of hazardous waste.

"Universal waste" means any of the hazardous wastes listed in subparagraph (1)(a) of Rule 0400-12-01-.12 that are managed under the universal waste requirements of Rule 0400-12-01-.12. "Universal waste handler":

- 1. Means:
 - (i) A generator (as defined in this subparagraph) of universal waste; or
 - (ii) The owner or operator of a facility, including all contiguous property, that receives universal waste from other universal waste handlers, accumulates universal waste, and sends universal waste to another universal waste handler, to a destination facility, or to a foreign destination.
- 2. Does not mean:
 - A person who treats (except under the provisions of part (2)(d)1 or 3 of Rule 0400-12-01-.12, or part (3)(d)1 or 3 of Rule 0400-12-01-.12), disposes of, or recycles universal waste; or
 - (ii) A person engaged in the off-site transportation of universal waste by air, rail, highway, or water, including a universal waste transfer facility.

"Universal waste transfer facility" means any transportation-related facility including loading docks, parking areas, storage areas and other similar areas where shipments of universal waste are held during the normal course of transportation for 10 days or less.

"Universal waste transporter" means a person engaged in the off-site transportation of universal waste by air, rail, highway, or water.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Subparagraph (a) of paragraph (2) of Rule 0400-12-01-.01 Hazardous Waste Management System: General is further amended by adding following definitions in alphabetical order to read as follows:

"Acute hazardous waste" means hazardous wastes that meet the listing criteria in subpart (2)(b)1(ii) of Rule 0400-12-01-.02 and therefore are either listed in subparagraph (4)(b) of Rule 0400-12-01-.02 with the assigned hazard code of (H) or are listed in part (4)(d)5 of Rule 0400-12-01-.02.

"AES filing compliance date" means the date that EPA announces in the Federal Register, on or after which exporters of hazardous waste and exporters of cathode ray tubes for recycling are required to file EPA information in the Automated Export System or its successor system, under the International Trade Data System (ITDS) platform.

"Airbag waste" means any hazardous waste airbag modules or hazardous waste airbag inflators.

"Airbag waste collection facility" means any facility that receives airbag waste from airbag handlers subject to regulation under part (1)(d)10 of Rule 0400-12-01-.02 and accumulates the waste for more than ten days.

"Airbag waste handler" means any person, by site, who generates airbag waste that is subject to regulation under this chapter.

"Central accumulation area" means any on-site hazardous waste accumulation area with hazardous waste accumulating in units subject to either subparagraph (1)(g) of Rule 0400-12-01-.03 (for small quantity generators) or subparagraph (1)(h) of Rule 0400-12-01-.03 (for large quantity generators). A central accumulation area at an eligible academic entity that chooses to operate under paragraph (10) of Rule 0400-12-01-.03 is also subject to subparagraph (10)(l) of Rule 0400-12-01-.03 when accumulating unwanted material and/or hazardous waste.

"Conditionally exempt small quantity generator" or "CESQG" means very small quantity generator as defined in this subparagraph.

"Electronic import-export reporting compliance date" means the date that EPA announces in the Federal Register, on or after which exporters, importers, and receiving facilities are required to submit certain export and import related documents to EPA using EPA's Waste Import Export Tracking System, or its successor system.

"Large quantity generator" is a generator who generates any of the following amounts in a calendar month:

- 1. Greater than or equal to 1,000 kilograms (2200 lbs) of non-acute hazardous waste; or
- 2. Greater than 1 kilogram (2.2 lbs) of acute hazardous waste listed in subparagraph (4)(b) of Rule 0400-12-01-.02 with the assigned hazard code of (H) or listed in part (4)(d)5 of Rule 0400-12-01-.02; or
- 3. Greater than 100 kilograms (220 lbs) of any residue or contaminated soil, water, or other debris resulting from the cleanup of a spill, into or on any land or water, of any acute hazardous waste listed in subparagraph (4)(b) of Rule 0400-12-01-.02 with the assigned hazard code of (H) or listed in part (4)(d)5 of Rule 0400-12-01-.02.

"Non-acute hazardous waste" means all hazardous wastes that are not acute hazardous waste, as defined in this subparagraph.

"Recognized trader" means a person domiciled in the United States, by site of business, who acts to arrange and facilitate transboundary movements of wastes destined for recovery or disposal operations, either by purchasing from and subsequently selling to United States and foreign facilities, or by acting under arrangements with a United States waste facility to arrange for the export or import of the wastes.

"Very small quantity generator" is a generator who generates less than or equal to the following amounts in a calendar month:

- 1. 100 kilograms (220 lbs) of non-acute hazardous waste; and
- 1 kilogram (2.2 lbs) of acute hazardous waste listed in subparagraph (4)(b) of Rule 0400-12-01-.02 with the assigned hazard code of (H) or listed in part (4)(d)5 of Rule 0400-12-01-.02; and
- 3. 100 kilograms (220 lbs) of any residue or contaminated soil, water, or other debris resulting from the cleanup of a spill, into or on any land or water, of any acute hazardous waste listed in subparagraph (4)(b) of Rule 0400-12-01-.02 with the assigned hazard code of (H) or listed in part (4)(d)5 of Rule 0400-12-01-.02.

"Weekly" means at least once every seven calendar days.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Subparagraph (b) of paragraph (2) of Rule 0400-12-01-.01 Hazardous Waste Management System: General is amended by deleting it in its entirety and substituting instead the following:

- (b) References [40 CFR 260.11 and 40 CFR 270.6]
 - 1. Here is a list of publications/materials referred to in these rules and where they may be obtained as set forth by EPA in 40 CFR 260.11 and 40 CFR 270.6.
 - 2. These materials are listed as they exist on the effective date of these regulations.

(Note: 40 CFR 260.11 provides that:

(a) When used in parts 260 through 268 and 278 of this chapter, the following publications are incorporated by reference. These incorporations by reference were approved by the Director of the Federal Register pursuant to 5 U.S.C.

552(a) and 1 CFR part 51. These materials are incorporated as they exist on the date of approval and a notice of any change in these materials will be published in the Federal Register. Copies may be inspected at the Library, U.S. Environmental Protection Agency, 1200 Pennsylvania Ave., NW. (3403T), Washington, DC 20460, libraryhq@epa.gov; or at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202–741–6030, or go to: http://www.archives.gov/federal_register/code_of_federal_regulations/ibr_locations.html.

- (b) The following materials are available for purchase from the American Society for Testing and Materials, 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken, PA 19428–2959.
 - (1) ASTM D–93–79 or D–93–80, "Standard Test Methods for Flash Point by Pensky-Martens Closed Cup Tester," IBR approved for §261.21.
 - (2) ASTM D–1946–82, "Standard Method for Analysis of Reformed Gas by Gas Chromatography," IBR approved for §§264.1033, 265.1033.
 - (3) ASTM D 2267–88, "Standard Test Method for Aromatics in Light Naphthas and Aviation Gasolines by Gas Chromatography," IBR approved for §264.1063.
 - (4) ASTM D 2382–83, "Standard Test Method for Heat of Combustion of Hydrocarbon Fuels by Bomb Calorimeter (High-Precision Method)," IBR approved for §§264.1033, 265.1033.
 - (5) ASTM D 2879–92, "Standard Test Method for Vapor Pressure— Temperature Relationship and Initial Decomposition Temperature of Liquids by Isoteniscope," IBR approved for §265.1084.
 - (6) ASTM D–3278–78, "Standard Test Methods for Flash Point for Liquids by Setaflash Closed Tester," IBR approved for §261.21(a).
 - (7) ASTM E 168–88, "Standard Practices for General Techniques of Infrared Quantitative Analysis," IBR approved for §264.1063.
 - (8) ASTM E 169–87, "Standard Practices for General Techniques of Ultraviolet-Visible Quantitative Analysis," IBR approved for §264.1063.
 - (9) ASTM E 260–85, "Standard Practice for Packed Column Gas Chromatography," IBR approved for §264.1063.
 - (10) ASTM E 926–88, "Standard Test Methods for Preparing Refuse-Derived Fuel (RDF) Samples for Analyses of Metals," Test Method C—Bomb, Acid Digestion Method.
- (c) The following materials are available for purchase from the National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161; or for purchase from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402, (202) 512–1800.
 - (1) "APTI Course 415: Control of Gaseous Emissions," EPA Publication EPA-450/2-81-005, December 1981, IBR approved for §§264.1035 and 265.1035.'
 - (2) Method 1664, n-Hexane Extractable Material (HEM; Oil and Grease) and Silica Gel Treated n-Hexane Extractable Material SGT–HEM; Non-polar Material) by Extraction and Gravimetry:

- (i) Revision A, EPA-821-R-98-002, February 1999, IBR approved for Part 261, appendix IX.
- (ii) Revision B, EPA-821-R-10-001, February 2010, IBR approved for Part 261, appendix IX.
- (3) The following methods as published in the test methods compendium known as "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Publication SW–846, Third Edition. A suffix of "A" in the method number indicates revision one (the method has been revised once). A suffix of "B" in the method number indicates revision two (the method has been revised twice). A suffix of "C" in the method number indicates revision three (the method has been revised three times). A suffix of "D" in the method number indicates revision four (the method has been revised four times).
 - (i) Method 0010, dated September 1986 and in the Basic Manual, IBR approved for part 261, appendix IX.
 - (ii) Method 0020, dated September 1986 and in the Basic Manual, IBR approved for part 261, appendix IX.
 - (iii) Method 0030, dated September 1986 and in the Basic Manual, IBR approved for part 261, appendix IX.
 - (iv) Method 1320, dated September 1986 and in the Basic Manual, IBR approved for part 261, appendix IX.
 - (v) Method 1311, dated September 1992 and in Update I, IBR approved for part 261, appendix IX, and §§261.24, 268.7, 268.40.
 - (vi) Method 1330A, dated September 1992 and in Update I, IBR approved for part 261, appendix IX.
 - (vii) Method 1312 dated September 1994 and in Update III, IBR approved for part 261, appendix IX and § 278.3(b)(1).
 - (viii) Method 0011, dated December 1996 and in Update III, IBR approved for part 261, appendix IX, and part 266, appendix IX.
 - (ix) Method 0023A, dated December 1996 and in Update III, IBR approved for part 261, appendix IX, part 266, appendix IX, and §266.104.
 - (x) Method 0031, dated December 1996 and in Update III, IBR approved for part 261, appendix IX.
 - (xi) Method 0040, dated December 1996 and in Update III, IBR approved for part 261, appendix IX.
 - (xii) Method 0050, dated December 1996 and in Update III, IBR approved for part 261, appendix IX, part 266, appendix IX, and §266.107.
 - (xiii) Method 0051, dated December 1996 and in Update III, IBR approved for part 261, appendix IX, part 266, appendix IX, and §266.107.

- (xiv) Method 0060, dated December 1996 and in Update III, IBR approved for part 261, appendix IX, §266.106, and part 266, appendix IX.
- (xv) Method 0061, dated December 1996 and in Update III, IBR approved for part 261, appendix IX, §266.106, and part 266, appendix IX.
- (xvi) Method 9071B, dated April 1998 and in Update IIIA, IBR approved for part 261, appendix IX.
- (xvii) Method 1010A, dated November 2004 and in Update IIIB, IBR approved for part 261, appendix IX.
- (xviii) Method 1020B, dated November 2004 and in Update IIIB, IBR approved for part 261, appendix IX.
- (xix) Method 1110A, dated November 2004 and in Update IIIB, IBR approved for §261.22 and part 261, appendix IX.
- (xx) Method 1310B, dated November 2004 and in Update IIIB, IBR approved for part 261, appendix IX.
- (xxi) Method 9010C, dated November 2004 and in Update IIIB, IBR approved for part 261, appendix IX and §§268.40, 268.44, 268.48.
- (xxii) Method 9012B, dated November 2004 and in Update IIIB, IBR approved for part 261, appendix IX and §§268.40, 268.44, 268.48.
- (xxiii) Method 9040C, dated November 2004 and in Update IIIB, IBR approved for part 261, appendix IX and §261.22.
- (xxiv) Method 9045D, dated November 2004 and in Update IIIB, IBR approved for part 261, appendix IX.
- (xxv) Method 9060A, dated November 2004 and in Update IIIB, IBR approved for part 261, appendix IX, and §§264.1034, 264.1063, 265.1034, 265.1063.
- (xxvi) Method 9070A, dated November 2004 and in Update IIIB, IBR approved for part 261, appendix IX.
- (xxvii) Method 9095B, dated November 2004 and in Update IIIB, IBR approved, part 261, appendix IX, and §§264.190, 264.314, 265.190, 265.314, 265.1081, 267.190(a), 268.32.
- (d) The following materials are available for purchase from the National Fire Protection Association, 1 Batterymarch Park, P.O. Box 9101, Quincy, MA 02269–9101.
 - (1) "Flammable and Combustible Liquids Code" (NFPA 30), 1977 or 1981, IBR approved for §§ 262.16(b), 264.198(b), 265.198(b), 267.202(b).
 - (2) [Reserved]
- (e) The following materials are available for purchase from the American Petroleum Institute, 1220 L Street, Northwest, Washington, DC 20005.

- (1) API Publication 2517, Third Edition, February 1989, "Evaporative Loss from External Floating-Roof Tanks," IBR approved for §265.1084.
- (2) [Reserved]
- (f) The following materials are available for purchase from the Environmental Protection Agency, Research Triangle Park, NC.
 - "Screening Procedures for Estimating the Air Quality Impact of Stationary Sources, Revised", October 1992, EPA Publication No. EPA-450/R-92-019, IBR approved for part 266, appendix IX.
 - (2) [Reserved]
- (g) The following materials are available for purchase from the Organization for Economic Cooperation and Development (OECD), Environment Directorate, 2 rue André Pascal, 75775 Paris Cedex 16, France.
 - (1) Guidance Manual for the Control of Transboundary Movements of Recoverable Wastes, copyright 2009, Annex B: OECD Consolidated List of Wastes Subject to the Green Control Procedure and Annex C: OECD Consolidated List of Wastes Subject to the Amber Control Procedure, IBR approved for §§ 262.82(a), 262.83(b),(d), and (g), and 262.84(b) and (d) of this chapter.
 - (2) [Reserved])

(Note: 40 CFR 270.6 provides that:

(a) When used in part 270 of this chapter, the following publications are incorporated by reference. These incorporations by reference were approved by the Director of the Federal Register pursuant to 5 U.S.C. 552(a) and 1 CFR part 51. These materials are incorporated as they exist on the date of approval and a notice of any change in these materials will be published in the Federal Register. Copies may be inspected at the Library, U.S. Environmental Protection Agency, 1200 Pennsylvania Ave., NW., (3403T), Washington, DC 20460, libraryhq@epa.gov; or at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202–741–6030, or go to:

http://www.archives.gov/federal_register/code_of_federal_regulations/ibr_locations.html.

- (b) The following materials are available for purchase from the National Technical Information Service (NTIS), 5285 Port Royal Road, Springfield, VA 22161, (703) 605–6000 or (800) 553–6847; or for purchase from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402, (202) 512–1800:
 - (1) "APTI Course 415: Control of Gaseous Emissions," EPA Publication EPA-450/2-81-005, December 1981, IBR approved for §§270.24 and 270.25.
 - (2) [Reserved])

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Part 1 of subparagraph (a) of paragraph (7) of Rule 0400-12-01-.01 Hazardous Waste Management System: General is amended by deleting it in its entirety and substituting instead the following:

1. Purpose, Scope, and Applicability

Except as provided under subparts (i) and (ii) of this part, any information which is supplied to the Department by persons who are subject to these rules and which is designated as proprietary information (as defined in subpart 2(viii) of this subparagraph) shall be handled by the Department as specified in this paragraph to assure that its confidentiality is maintained. Unless it is claimed or designated as proprietary, any information supplied to the Department under or relating to these rules shall be available for public review at any time during the State's normal business hours.

- (i) (I) After the effective date of these rules, no claim of proprietary information or business confidentiality may be asserted by any person with respect to information entered on a Hazardous Waste Manifest (EPA Form 8700-22), a Hazardous Waste Manifest Continuation Sheet (EPA Form 8700-22A), or an electronic manifest format that may be prepared and used in accordance with subpart (3)(a)1(iii) of Rule 0400-12-01-.03.
 - (II) The Department will make any electronic manifest that is prepared and used in accordance with subpart (3)(a)1(iii) of Rule 0400-12-01-.03, or any paper manifest that is submitted to the system under item (5)(b)1(ii)(V) of Rule 0400-12-01-.05 or item (5)(b)1(ii)(V) of Rule 0400-12-01-.06 available to the public under this paragraph when the electronic or paper manifest is a complete and final document. Electronic manifests and paper manifests submitted to the system are considered by the Department to be complete and final documents and publicly available information after 90 days have passed since the delivery to the designated facility of the hazardous waste shipment identified in the manifest.
- (ii) (I) After the effective date of these rules, no claim of proprietary information or business confidentiality may be asserted by any person with respect to information contained in cathode ray tube export documents prepared, used and submitted under subpart (5)(b)1(v) of Rule 0400-12-01-.02 and part (5)(d)1 of Rule 0400-12-01-.02, and with respect to information contained in hazardous waste export, import, and transit documents prepared, used and submitted under subparagraphs (9)(c), (d), and (e) of Rule 0400-12-01-.03, subparagraph (3)(a) of Rule 0400-12-01-.04, subparagraphs (2)(c) and (5)(b) of Rule 0400-12-01-.05, and subparagraphs (2)(c) and (5)(b) of Rule 0400-12-01-.06, whether submitted electronically into EPA's Waste Import Export Tracking System or in paper format.
 - (II) EPA will make any cathode ray tube export documents prepared, used and submitted under subpart (5)(b)1(v) of Rule 0400-12-01-.02 and part (5)(d)1 of Rule 0400-12-01-.02, and any hazardous waste export, import, and transit documents prepared, used and submitted under subparagraphs (9)(c), (d), and (e) of Rule 0400-12-01-.03, subparagraph (3)(a) of Rule 0400-12-01-.04, subparagraphs (2)(c) and (5)(b) of Rule 0400-12-01-.05, and subparagraphs (2)(c) and (5)(b) of Rule 0400-12-01-.06 available to the public under this paragraph when these electronic or paper documents are considered by EPA to be final documents. These submitted electronic and paper documents related to hazardous waste exports, imports and transits and cathode ray tube exports are considered by EPA to be final documents on March 1 of the calendar year after the related cathode ray tube exports or hazardous waste exports, imports, or transits occur.

(Note: See 40 CFR 260.2(b) for additional requirements.)

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Part 1 of subparagraph (a) of paragraph (1) of Rule 0400-12-01-.02 Identification and Listing of Hazardous Waste is amended by deleting it in its entirety and substituting instead the following:

- 1. This rule identifies those solid wastes which are subject to regulation as hazardous wastes under Rules 0400-12-01-.03 through 0400-12-01-.07 and 0400-12-01-.10. In this rule:
 - (i) Paragraph (1) defines the terms "solid waste" and "hazardous waste", identifies those wastes which are excluded from regulation under Rules 0400-12-01-.03 through 0400-12-01-.07, 0400-12-01-.09 and 0400-12-01-.10 and establishes special management requirements for hazardous waste produced by very small quantity generators and hazardous waste which is recycled.
 - (ii) Paragraph (2) sets forth the criteria used by the Board to identify characteristics of hazardous waste and to list particular hazardous wastes.
 - (iii) Paragraph (3) identifies characteristics of hazardous waste.
 - (iv) Paragraph (4) lists particular hazardous wastes.

Item (II) of subpart (i) of part 5 of subparagraph (b) of paragraph (1) of Rule 0400-12-01-.02 Identification and Listing of Hazardous Waste is amended by deleting it in its entirety and substituting instead the following:

(II) Used or reused as effective substitutes for commercial products; or

(Note: This item only addresses hazardous secondary materials that are used or reused as effective substitutes for commercial products without first being reclaimed. Item (c)3(ii)(I) of this paragraph addresses when a hazardous secondary material that has been reclaimed and is used beneficially is no longer a waste; or generators of hazardous secondary materials that are reclaimed and then reused within the original production process in which they were generated may petition the Commissioner in accordance with part (4)(b)1 of Rule 0400-12-01-.01.)

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Subpart (vii) of part 1 of subparagraph (d) of paragraph (1) of Rule 0400-12-01-.02 Identification and Listing of Hazardous Waste is amended by deleting it in its entirety and substituting instead the following:

(vii) Spent sulfuric acid used to produce virgin sulfuric acid, provided it is not accumulated speculatively as defined in subpart (a)3(viii) of this paragraph.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Subitem V of item (III) of subpart (ix) of part 1 of subparagraph (d) of paragraph (1) of Rule 0400-12-01-.02 Identification and Listing of Hazardous Waste is amended by deleting it in its entirety and substituting instead the following:

V. Prior to operating pursuant to this exclusion, the plant owner or operator prepares and submits to the Commissioner a one-time notification stating that the plant intends to claim the exclusion, giving the date on which the plant intends to begin operating under the exclusion, and containing the following language: "I have read the applicable regulation establishing an exclusion for wood preserving wastewaters and spent wood preserving solutions and understand it requires me to comply at all times with the conditions set out in the regulation." The plant must maintain a copy of that document in its on-site records until closure of the facility. The exclusion applies only so long as the plant meets all of the conditions. If the plant goes out of compliance with any condition, it may apply to the Commissioner

for reinstatement. The Commissioner may reinstate the exclusion upon finding that the plant has returned to compliance with all conditions and that violations are not likely to recur.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Subpart (vi) of part 2 of subparagraph (d) of paragraph (1) of Rule 0400-12-01-.02 Identification and Listing of Hazardous Waste is amended by deleting it in its entirety and substituting instead the following:

- (vi) (I) Wastes which fail the test for the Toxicity Characteristic because chromium is present or are listed in paragraph (4) of this rule due to the presence of chromium, which do not fail the test for the Toxicity Characteristic for any other constituent or are not listed due to the presence of any other constituent, and which do not fail the test for any other characteristic, if it is shown by a waste generator or by waste generators by petitioning the Commissioner for a regulatory exclusion in accordance with parts (3)(a)1 through 3 of Rule 0400-12-01-.01 that:
 - I. The chromium in the waste is exclusively (or nearly exclusively) trivalent chromium; and
 - II. The waste is generated from an industrial process which uses trivalent chromium exclusively (or nearly exclusively), and the process does not generate hexavalent chromium; and
 - III. The waste is typically and frequently managed in non-oxidizing environments.
 - (II) Specific wastes which meet the standard in subitems (I)I through III of this subpart (so long as they do not fail the test for the toxicity characteristic for any other constituent, and do not exhibit any other characteristic) are:
 - I. Chrome (blue) trimmings generated by the following subcategories of the leather tanning and finishing industry: Hair pulp/chrome tan/retan/wet finish; hair save/chrome tan/retan/wet finish; retan/wet finish; no beamhouse; through-the-blue; and shearling.
 - II. Chrome (blue) shavings generated by the following subcategories of the leather tanning and finishing industry: Hair pulp/chrome tan/retan/wet finish; hair save/chrome tan/retan/wet finish; retan/wet finish; no beamhouse; through-the-blue; shearling.
 - III. Buffing dust generated by the following subcategories of the leather tanning and finishing industry: Hair pulp/chrome tan/retan/wet finish; hair save/chrome tan/retan/wet finish; retan/wet finish; no beamhouse; through-the-blue.
 - IV. Sewer screenings generated by the following subcategories of the leather tanning and finishing industry: Hair pulp/chrome tan/retan/wet finish; hair save/chrome tan/retan/wet finish; retan/wet finish; no beamhouse; through-the-blue; and shearling.
 - V. Wastewater treatment sludges generated by the following subcategories of the leather tanning and finishing industry: Hair pulp/chrome tan/retan/wet finish; hair save/chrome tan/retan/wet finish; retan/wet finish; no beamhouse; through-the-blue; and shearling.

- VI. Wastewater treatment sludges generated by the following subcategories of the leather tanning and finishing industry: Hair pulp/chrome tan/retan/wet finish; hair save/chrome tan/retan/wet finish; and through-the-blue.
- VII. Waste scrap leather from the leather tanning industry, the shoe manufacturing industry, and other leather product manufacturing industries.
- VIII. Wastewater treatment sludges from the production of TiO₂ pigment using chromium-bearing ores by the chloride process.
- IX. Spent leather personal protective equipment for example, used foot wear, gloves and aprons manufactured by the leather tanning industry, the shoe manufacturing industry, and other leather product manufacturing industries, provided these spent materials do not contain or are mixed with a waste that meets a listing description in paragraph (4) of this rule.
- X. Off-Gas residues, ventilation system pre-filters, enclosure prefilters, ceramic filters, and HEPA filter enclosures generated at Nuclear Fuel Services, Inc., located in Erwin, Tennessee, from Highly Enriched Uranium (HEU) processing operations regulated by the Nuclear Regulatory Commission (NRC) that are contaminated with chromium that is exclusively (or nearly exclusively) trivalent chromium, which is not hazardous waste for any other characteristic, and provided the generator:
 - I. Disposes of the waste at a properly authorized radiological disposal facility;
 - II. Annually recertifies the accuracy of the information in a letter to the Commissioner that there has been no change in the waste streams or the process generating the wastes since the effective date of this exemption;
 - III. Submits all re-certifications as required by subitem II of this item by March 1 of each succeeding year following the effective date of this exemption; and
 - IV. Submits a new petition and fee to the Commissioner for review within 30 days of a change in the waste stream(s) or the process generating the waste(s) which may impact the waste(s) continuing to meet the criteria of item (i) of this subpart.
- (III) A waste generator or waste generators submitting a petition in accordance with item (I) of this subpart must pay the fee required by paragraph (11) of Rule 0400-12-01-.08.

Parts 4 and 5 of subparagraph (d) of paragraph (1) of Rule 0400-12-01-.02 Identification and Listing of Hazardous Waste is amended by deleting it in its entirety and substituting instead the following:

- 4. Samples
 - Except as provided in subparts (ii) and (iv) of this part, a sample of solid waste or a sample of water, soil, or air, which is collected for the sole purpose of testing to determine its characteristics or composition, is not subject to any requirements of these rules when:

- (I) The sample is being transported to a laboratory for the purpose of testing; or
- (II) The sample is being transported back to the sample collector after testing; or
- (III) The sample is being stored by the sample collector before transport to a laboratory for testing; or
- (IV) The sample is being stored in a laboratory before testing; or
- (V) The sample is being stored in a laboratory after testing but before it is returned to the sample collector; or
- (VI) The sample is being stored temporarily in the laboratory after testing for a specific purpose (for example, until the conclusion of a court case or enforcement action where further testing of the sample may be necessary).
- (ii) In order to qualify for the exemption in items (i)(I) and (II) of this part a sample collector shipping samples to a laboratory and a laboratory returning samples to a sample collector must:
 - (I) Comply with U.S. Department of Transportation (DOT), U.S. Postal Service (USPS), or any other applicable shipping requirements; or
 - (II) Comply with the following requirements if the sample collector determines that DOT, USPS, or other shipping requirements do not apply to the shipment of the sample:
 - I. Assure that the following information accompanies the sample:
 - A. The sample collector's name, mailing address, and telephone number;
 - B. The laboratory's name, mailing address, and telephone number;
 - C. The quantity of the sample;
 - D. The date of shipment; and
 - E. A description of the sample.
 - II. Package the sample so that it does not leak, spill, or vaporize from its packaging.
- (iii) This exemption does not apply if the laboratory determines that the waste is hazardous but the laboratory is no longer meeting any of the conditions stated in subpart (i) of this part.
- (iv) In order to qualify for the exemption in items (i)(I) and (II) of the part, the mass of a sample that will be exported to a foreign laboratory or that will be imported to a U.S. laboratory from a foreign source must additionally not exceed 25 kg (55.12 lbs.).
- 5. Treatability Study Samples
 - (i) Except as provided in subparts (ii) and (iv) of this part, persons who generate or collect samples for the purpose of conducting treatability studies as defined in

subparagraph (2)(a) of Rule 0400-12-01-.01 are not subject to any requirement of Rules 0400-12-01-.02, 0400-12-01-.03, and 0400-12-01-.04, or to the notification requirement of paragraph (2) of Rule 0400-12-01-.03, nor are such samples included in the quantity determinations of subparagraph (1)(d) of Rule 0400-12-01-.03 when:

- (I) The sample is being collected and prepared for transportation by the generator or sample collector; or
- (II) The sample is being accumulated or stored by the generator or sample collector prior to transportation to a laboratory or testing facility; or
- (III) The sample is being transported to the laboratory or testing facility for the purpose of conducting a treatability study.
- (ii) The exemption in subpart (i) of this part is applicable to samples of hazardous waste being collected and shipped for the purpose of conducting treatability studies provided that:
 - (I) The generator or sample collector uses (in "treatability studies") no more than 10,000 kg of media contaminated with non-acute hazardous waste, 1000 kg of non-acute hazardous waste other than contaminated media, 1 kg of acute hazardous waste, 2500 kg of media contaminated with acute hazardous waste for each process being evaluated for each generated waste stream; and
 - (II) The mass of each sample shipment does not exceed 10,000 kg; the 10,000 kg quantity may be all media contaminated with non-acute hazardous waste, or may include 2500 kg of media contaminated with acute hazardous waste, 1000 kg of hazardous waste, and 1 kg of acute hazardous waste; and
 - (III) The sample must be packaged so that it will not leak, spill, or vaporize from its packaging during shipment and the requirements of subitem I or II of this part are met.
 - I. The transportation of each sample shipment complies with U.S. Department of Transportation (DOT), U.S. Postal Service (USPS), or any other applicable shipping requirements; or
 - II. If the DOT, USPS, or other shipping requirements do not apply to the shipment of the sample, the following information must accompany the sample:
 - A. The name, mailing address, and telephone number of the originator of the sample;
 - B. The name, address, and telephone number of the facility that will perform the treatability study;
 - C. The quantity of the sample;
 - D. The date of shipment; and
 - E. A description of the sample, including its Hazardous Waste Code.
 - (IV) The sample is shipped to a laboratory or testing facility which is exempt under part 6 of this subparagraph or has an appropriate permit or interim status.

- (V) The generator or sample collector maintains the following records for a period ending three years after completion of the treatability study:
 - I. Copies of the shipping documents;
 - II. A copy of the contract with the facility conducting the treatability study;
 - III. Documentation showing:
 - A. The amount of waste shipped under this exemption;
 - B. The name, address, and Installation Identification Number of the laboratory or testing facility that received the waste;
 - C. The date the shipment was made; and
 - D. Whether or not unused samples and residues were returned to the generator.
- (VI) The generator reports the information required under subitem (V)III of this subpart in its annual report.
- (iii) The Commissioner may grant requests on a case-by-case basis for up to an additional two years for treatability studies involving bioremediation. The Commissioner may grant requests on a case-by-case basis for quantity limits in excess of those specified in items (ii)(I) and (II) of this part and subpart 6(iv) of this subparagraph, for up to an additional 5000 kg of media contaminated with non-acute hazardous waste, 500 kg of non-acute hazardous waste, 2500 kg of media contaminated with acute hazardous waste and 1 kg of acute hazardous waste:
 - (I) In response to requests for authorization to ship, store and conduct treatability studies on additional quantities in advance of commencing treatability studies. Factors to be considered in reviewing such requests include the nature of the technology, the type of process (e.g., batch versus continuous), size of the unit undergoing testing (particularly in relation to scale-up considerations), the time/quantity of material required to reach steady state operating conditions, or test design considerations such as mass balance calculations.
 - (II) In response to requests for authorization to ship, store and conduct treatability studies on additional quantities after initiation or completion of initial treatability studies, when: There has been an equipment or mechanical failure during the conduct of a treatability study; there is a need to verify the results of a previously conducted treatability study; there is a need to study and analyze alternative techniques within a previously evaluated treatment process; or there is a need to do further evaluation of an ongoing treatability study to determine final specifications for treatment.
 - (III) The additional quantities and timeframes allowed in items (I) and (II) of this subpart are subject to all the provisions in subpart (i) and items (III) through (VI) of subpart (ii) of this part. The generator or sample collector must apply to the Commissioner and provide in writing the following information:
 - I. The reason why the generator or sample collector requires additional time or quantity of sample for treatability study evaluation and the additional time or quantity needed;

- II. Documentation accounting for all samples of hazardous waste from the waste stream which have been sent for or undergone treatability studies including the date each previous sample from the waste stream was shipped, the quantity of each previous shipment, the laboratory or testing facility to which it was shipped, what treatability study processes were conducted on each sample shipped, and the available results on each treatability study;
- III. A description of the technical modifications or change in specifications which will be evaluated and the expected results;
- IV. If such further study is being required due to equipment or mechanical failure, the applicant must include information regarding the reason for the failure or breakdown and also include what procedures or equipment improvements have been made to protect against further breakdowns; and
- V. Such other information that the Commissioner considers necessary.
- (iv) In order to qualify for the exemption in item (i)(I) of this part, the mass of a sample that will be exported to a foreign laboratory or testing facility, or that will be imported to a U.S. laboratory or testing facility from a foreign source, must additionally not exceed 25 kg (55.12 lbs.).

Subparagraph (d) of paragraph (1) of Rule 0400-12-01-.02 Identification and Listing of Hazardous Waste is amended by adding two new parts immediately following part 8 to read as follows:

- 9. Reserved.
- 10. Airbag waste.
 - (i) Airbag waste at the airbag waste handler or during transport to an airbag waste collection facility or designated facility is not subject to regulation under Rules 0400-12-01-.03, including notification, 0400-12-01-.04, 0400-12-01-.05, 0400-12-01-.06, 0400-12-01-.07, and 0400-12-01-.09 provided that:
 - (I) The airbag waste is accumulated in a quantity of no more than 250 airbag modules or airbag inflators, for no longer than 180 days;
 - (II) The airbag waste is packaged in a container designed to address the risk posed by the airbag waste and labeled "Airbag Waste-Do Not Reuse";
 - (III) The airbag waste is sent directly to either:
 - I. An airbag waste collection facility in the United States under the control of a vehicle manufacturer or their authorized representative, or under the control of an authorized party administering a remedy program in response to a recall under the National Highway Traffic Safety Administration, or
 - II. A designated facility as defined in subparagraph (2)(a) of Rule 0400-12-01-.01;
 - (IV) The transport of the airbag waste complies with all applicable U.S. Department of Transportation regulations in 49 CFR part 171 through 180 during transit;

- (V) The airbag waste handler maintains at the handler facility for no less than three years records of all off-site shipments of airbag waste and all confirmations of receipt from the receiving facility. For each shipment, these records must, at a minimum, contain the name of the transporter and date of the shipment; name and address of receiving facility; and the type and quantity of airbag waste (i.e., airbag modules or airbag inflators) in the shipment. Confirmations of receipt must include the name and address of the receiving facility; the type and quantity of the airbag waste (i.e., airbag modules and airbag inflators) received; and the date which it was received. Shipping records and confirmations of receipt must be made available for inspection and may be satisfied by routine business records (e.g., electronic or paper financial records, bills of lading, copies of DOT shipping papers, or electronic confirmations of receipt).
- (ii) Once the airbag waste arrives at an airbag waste collection facility or designated facility, it becomes subject to all applicable hazardous waste regulations, and the facility receiving airbag waste is considered the hazardous waste generator for the purposes of the hazardous waste regulations and must comply with the requirements of Rule 0400-12-01-.03.
- (iii) Reuse in vehicles of defective airbag modules or defective airbag inflators subject to a recall under the National Highway Traffic Safety Administration is considered sham recycling and prohibited under part (1)(b)7 of Rule 0400-12-01-.02.

Subparagraph (e) of paragraph (1) of Rule 0400-12-01-.02 Identification and Listing of Hazardous Waste is amended by deleting it in its entirety and substituting instead the following:

(e) [Reserved]

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Subpart (ii) of part 1 of subparagraph (f) of paragraph (1) of Rule 0400-12-01-.02 Identification and Listing of Hazardous Waste is amended by deleting it in its entirety and substituting instead the following:

- (ii) The following recyclable materials are not subject to the requirements of this subparagraph but are regulated under paragraphs (3), (6), (7), (8), (13) and (14) of Rule 0400-12-01-.09 and all applicable provisions in Rules 0400-12-01-.07 and 0400-12-01-.10:
 - (I) Recyclable materials used in a manner constituting disposal (See paragraph (3) of Rule 0400-12-01-.09;
 - (II) Hazardous wastes burned (as defined in part (8)(a)1 of Rule 0400-12-01-.09) in boilers and industrial furnaces that are not regulated under paragraph (15) of Rule 0400-12-01-.05 or paragraph (15) of Rule 0400-12-01-.06 (See paragraph (8) of Rule 0400-12-01-.09);
 - (III) Recyclable materials from which precious metals are reclaimed (See paragraph (6) of Rule 0400-12-01-.09); and
 - (IV) Spent lead-acid batteries that are being reclaimed (See paragraph (7) of Rule 0400-12-01-.09.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Item (I) of subpart (iii) of part 1 of subparagraph (f) of paragraph (1) of Rule 0400-12-01-.02 Identification and Listing of Hazardous Waste is amended by deleting it in its entirety and substituting instead the following:

- Industrial ethyl alcohol that is reclaimed, except that exports and imports of such recyclable materials must comply with the requirements of paragraph (9) of Rule 0400-12-01-.03:
 - I. A person initiating a shipment for reclamation in a foreign country, and any intermediary arranging for the shipment, must comply with the requirements applicable to a primary exporter in subparagraph (6)(d), subparts (6)(g)1(i) through (iv) and (vi), part (6)(g)2 and subparagraph (6)(h) of Rule 0400-12-01-.03, export such materials only upon consent of the receiving country and in conformance with the EPA Acknowledgment of Consent as defined in paragraph (6) of Rule 0400-12-01-.03, and provide a copy of the EPA Acknowledgment of Consent to the shipment to the transporter transporting the shipment for export;
 - II. Transporters transporting a shipment for export may not accept a shipment if he knows the shipment does not conform to the EPA Acknowledgment of Consent, must ensure that a copy of the EPA Acknowledgment of Consent accompanies the shipment and must ensure that it is delivered to the facility designated by the person initiating the shipment.

Subpart (iv) of part 1 of subparagraph (f) of paragraph (1) of Rule 0400-12-01-.02 Identification and Listing of Hazardous Waste is amended by deleting it in its entirety and substituting instead the following:

(iv) Except as subpart (2)(a)2(iii) of Rule 0400-12-01-.11 provides otherwise, used oil that is recycled and is also a hazardous waste solely because it exhibits a hazardous characteristic is not subject to the requirements of Rule 0400-12-01-.01 through 0400-12-01-.07, 0400-12-01-.09, and 0400-12-01-.10, but is regulated under Rule 0400-12-01-.11. Used oil that is recycled includes any used oil which is reused, following its original use, for any purpose (including the purpose for which the oil was originally used). Such term includes, but is not limited to, oil which is re-refined, reclaimed, burned for energy recovery, or reprocessed.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Subpart (v) of part 1 of subparagraph (f) of paragraph (1) of Rule 0400-12-01-.02 Identification and Listing of Hazardous Waste is amended by deleting it in its entirety and substituting instead the following:

(v) Hazardous waste that is exported or imported for purpose of recovery is subject to the requirements of paragraph (9) of Rule 0400-12-01-.03.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Part 3 of subparagraph (f) of paragraph (1) of Rule 0400-12-01-.02 Identification and Listing of Hazardous Waste is amended by deleting it in its entirety and substituting instead the following:

- 3. (i) Owners and operators of facilities that store recyclable materials before they are recycled are regulated under all applicable provisions of paragraphs (1) through (12), (27), (28), and (29) of Rule 0400-12-01-.05 and paragraphs (1) through (12), (30), (31), and (32) of Rule 0400-12-01-.06, and under Rules 0400-12-01-.07, 0400-12-01-.09, and 0400-12-01-.10, and the notification requirements under subparagraphs (2)(b) and (d) of Rule 0400-12-01-.07, except as provided in part 1 of this subparagraph. (The recycling process itself is exempt from regulation except as provided in part 4 of this subparagraph.)
 - (ii) Owners or operators of facilities that recycle recyclable materials without storing

them before they are recycled are subject to the following requirements, except as provided in part 1 of this subparagraph:

- Such owners or operators must notify the Commissioner of their activities using forms provided by the Commissioner and completed per accompanying instructions;
- Such owners or operators must comply with subparagraph (5)(b) and (c) of Rule 0400-12-01-.05 (dealing with the use of the manifest and manifest discrepancies);
- (III) Part 4 of this subparagraph; and
- (IV) Subparagraph (5)(f) of Rule 0400-12-01-.05 (annual reporting requirements).

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Subpart (iii) of part 1 of subparagraph (b) of paragraph (2) of Rule 0400-12-01-.02 Identification and Listing of Hazardous is amended by deleting it in its entirety and substituting instead the following:

- (iii) It contains any of the toxic constituents listed in paragraph (30) Appendix VIII of this rule and, after considering the following factors, the Commissioner concludes that the waste is capable of posing a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported or disposed of, or otherwise managed:
 - (I) The nature of the toxicity presented by the constituent;
 - (II) The concentration of the constituent in the waste;
 - (III) The potential of the constituent or any toxic degradation product of the constituent to migrate from the waste into the environment under the types of improper management considered in item (VII) of this subpart;
 - (IV) The persistence of the constituent or any toxic degradation product of the constituent;
 - (V) The potential for the constituent or any toxic degradation product of the constituent to degrade into non-harmful constituents and the rate of degradation;
 - (VI) The degree to which the constituent or any degradation product of the constituent bioaccumulates in ecosystems;
 - (VII) The plausible types of improper management to which the waste could be subjected;
 - (VIII) The quantities of the waste generated at individual generation sites or on a regional or national basis;
 - (IX) The nature and severity of the human health and environmental damage that has occurred as a result of the improper management of wastes containing the constituent;
 - (X) Action taken by other governmental agencies or regulatory programs based on the health or environmental hazard posed by the waste or waste constituent; and
 - (XI) Such other factors as may be appropriate.

(Note: Substances will be listed in paragraph (30) Appendix VIII of this rule only if they have been shown in scientific studies to have toxic, carcinogenic, mutagenic or teratogenic effects on humans or other life forms.)

(Note: Wastes listed in accordance with these criteria will be designated Toxic wastes.)

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Part 3 of subparagraph (a) of paragraph (3) of Rule 0400-12-01-.02 Identification and Listing of Hazardous is amended by deleting it in its entirety and substituting instead the following:

3. For purposes of this paragraph, the Commissioner will consider a sample obtained using any of the applicable sampling methods specified in paragraph (30) Appendix I of this rule to be a representative sample within the meaning of Rule 0400-12-01-.01.

(Comment: Since the paragraph (30) Appendix I of this rule sampling methods are not being formally adopted by the Board, a person who desires to employ an alternative sampling method is not required to demonstrate the equivalency of his method under the procedures set forth in paragraph (3) of Rule 0400-12-01-.01.)

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Part 2 of subparagraph (a) of paragraph (4) of Rule 0400-12-01-.02 Identification and Listing of Hazardous is amended by deleting it in its entirety and substituting instead the following:

2. The Board will indicate its basis for listing the classes or types of wastes listed in this paragraph by employing one or more of the following Hazard Codes:

Ignitable Waste (I)

Corrosive Waste (C)

Reactive Waste (R)

Toxicity Characteristic Waste (E)

Acute Hazardous Waste (H)

Toxic Waste (T)

Paragraph (30) Appendix VII of this rule identifies the constituent which caused the Board to list the waste as a Toxicity Characteristic Waste (E) or Toxic Waste (T) in subparagraphs (b) and (c) of this paragraph.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Part 1 of subparagraph (b) of paragraph (4) of Rule 0400-12-01-.02 Identification and Listing of Hazardous Waste is amended by deleting it in its entirety and substituting instead the following:

1. The following solid wastes are listed hazardous wastes from non-specific sources unless they are excluded under subparagraphs (3)(a) and (c) of Rule 0400-12-01-.01 and listed in Appendix IX to 40 CFR part 261.

Industry and Hazardous Waste Code	Hazardous		
Generic:			
F001	The following spent halogenated solvents used in degreasing: Tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, and	(T)	
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	chlorinated fluorocarbons; all spent solvent mixtures/blends used in degreasing containing, before use, a total of ten percent or more (by volume) of one or more of the above halogenated solvents or those solvents listed in F002, F004, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.	
F002	The following spent halogenated solvents: Tetrachloroethylene, methylene chloride, trichloroethylene, 1,1,1-trichloroethane, chlorobenzene, 1,1,2-trichloro-1,2,2-trifluoroethane, ortho-dichlorobenzene, trichlorofluoromethane, and 1,1,2-trichloroethane; all spent solvent mixtures/blends containing, before use, a total of ten percent or more (by volume) of one or more of the above halogenated solvents or those listed in F001, F004, or F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.	(T)
F003	The following spent non-halogenated solvents: Xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, and methanol; all spent solvent mixtures/blends containing, before use, only the above spent non-halogenated solvents; and all spent solvent mixtures/blends containing, before use, one or more of the above non-halogenated solvents, and, a total of ten percent or more (by volume) of one or more of those solvents listed in F001, F002, F004, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.	(I)*
F004	The following spent non-halogenated solvents: Cresols and cresylic acid, and nitrobenzene; all spent solvent mixtures/blends containing, before use, a total of ten percent or more (by volume) of one or more of the above non-halogenated solvents or those solvents listed in F001, F002, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.	(T)
F005	The following spent non-halogenated solvents: Toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, benzene, 2-ethoxyethanol, and 2-nitropropane; all spent solvent mixtures/blends containing, before use, a total of ten percent or more (by volume) of one or more of the above non-halogenated solvents or those solvents listed in F001, F002, or F004; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.	(I,T)
F006	Wastewater treatment sludges from electroplating operations except from the following processes: (1) Sulfuric acid anodizing of aluminum; (2) tin plating on carbon steel; (3) zinc plating (segregated basis) on carbon steel; (4) aluminum or zinc-aluminum plating on carbon steel; (5) cleaning/stripping associated with tin, zinc and aluminum plating on carbon steel; and (6) chemical etching and milling of aluminum.	(T)
F007	Spent cyanide plating bath solutions from electroplating operations.	(R, T)
F008	Plating bath residues from the bottom of plating baths from electroplating operations where cyanides are used in the process.	(R, T)
F009	Spent stripping and cleaning bath solutions from electroplating operations where cyanides are used in the process.	(R, T)
F010	Quenching bath residues from oil baths from metal heat treating operations where cyanides are used in the process.	(R, T)
F011	Spent cyanide solutions from salt bath pot cleaning from metal heat treating operations.	(R, T)
F012	Quenching waste water treatment sludges from metal heat treating operations where cyanides are used in the process.	(T)
F019	Wastewater treatment sludges from the chemical conversion coating of aluminum except from zirconium phosphating in aluminum can washing when such phosphating is an exclusive conversion coating process. Wastewater treatment sludges from the manufacturing of motor vehicles using a zinc phosphating process will not be subject to this listing at the point of generation if the wastes are not placed outside on the land prior to shipment to a landfill for disposal and are either: disposed in a Subtitle D municipal or industrial landfill unit that is equipped with a single clay liner and is permitted, licensed or otherwise authorized by the state; or disposed in a landfill unit subject to, or otherwise meeting, the landfill requirements in 40 CFR 258.40 or the state equivalent, Rule 1200-01-1106(14)(b) or Rule 1200-01-1105(14)(b). For the purposes of this listing, motor vehicle manufacturing is defined in item 2(iv)(I) of this subparagraph and item 2(iv)(II) of this subparagraph describes the recordkeeping requirements for motor vehicle manufacturing facilities.	(T)
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F020	Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production or manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of tri- or tetrachlorophenol, or of intermediates used to produce their pesticide derivatives. (This listing does not include wastes from the production of Hexachlorophene from highly purified 2,4,5-trichlorophenol.).	(H)
F021	Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production or manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of pentachlorophenol, or of intermediates used to produce its derivatives.	(H)
F022	Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of tetra-, penta-, or hexachlorobenzenes under alkaline conditions.	(H)
F023	Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production of materials on equipment previously used for the production or manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of tri- and tetrachlorophenols. (This listing does not include wastes from equipment used only for the production or use of Hexachlorophene from highly purified 2,4,5-trichlorophenol.).	(H)
F024	Process wastes, including but not limited to, distillation residues, heavy ends, tars, and reactor clean-out wastes, from the production of certain chlorinated aliphatic hydrocarbons by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one to and including five, with varying amounts and positions of chlorine substitution. (This listing does not include wastewaters, wastewater treatment sludges, spent catalysts, and wastes listed in subparagraph (b) or (c) of this paragraph.).	(T)
F025	Condensed light ends, spent filters and filter aids, and spent desiccant wastes from the production of certain chlorinated aliphatic hydrocarbons, by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one to and including five, with varying amounts and positions of chlorine substitution.	(T)
F026	Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production of materials on equipment previously used for the manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of tetra-, penta-, or hexachlorobenzene under alkaline conditions.	(H)
F027	Discarded unused formulations containing tri-, tetra-, or pentachlorophenol or discarded unused formulations containing compounds derived from these chlorophenols. (This listing does not include formulations containing Hexachlorophene synthesized from prepurified 2,4,5-trichlorophenol as the sole component.).	(H)
F028	Residues resulting from the incineration or thermal treatment of soil contaminated with Hazardous Waste Codes F020, F021, F022, F023, F026, and F027.	(T)
F032	Wastewaters (except those that have not come into contact with process contaminants), process residuals, preservative drippage, and spent formulations from wood preserving processes generated at plants that currently use or have previously used chlorophenolic formulations (except potentially cross-contaminated wastes that have had the F032 waste code deleted in accordance with subparagraph (f) of this paragraph or potentially cross-contaminated wastes that are otherwise currently regulated as hazardous wastes (i.e., F034 or F035), and where the generator does not resume or initiate use of chlorophenolic formulations). This listing does not include K001 bottom sediment sludge from the treatment of wastewater from wood preserving processes that use creosote and/or pentachlorophenol	(T)
F034	Wastewaters (except those that have not come into contact with process contaminants), process residuals, preservative drippage, and spent formulations from wood preserving processes generated at plants that use creosote formulations. This listing does not include K001 bottom sediment sludge from the treatment of wastewater from wood preserving processes that use creosote and/or pentachlorophenol	(T)
F035	Wastewaters (except those that have not come into contact with process contaminants), process residuals, preservative drippage, and spent formulations from wood preserving	(T)

 F037 Petroleum refinery primary oil/water/solids separation sludge-Any sludge generated from the gravitational separation of oil/water/solids during the storage or treatment of process wastewaters and oily cooling wastewaters from petroleum refineries. Such sludges include, but are not limited to, those generated in oil/water/solids separators; tanks and impoundments; ditches and other conveyances; sumps; and stormwater units receiving dry weather flow. Sludge generated in subwater, sludges generated in aggressive biological treatment nor other process or oily cooling waters, sludges generated in aggressive biological treatment units as defined in subpart 2(ii) of this subparagraph (including sludges generated in on or or more additional units after wastewaters have been treated in aggressive biological treatment units) and K051 wastes are not included in this listing. This listing does include residuals generated from processing or recycling oil-bearing hazardous secondary materials excluded under item (1)(d)1(xii)(t) of this rule, if those residuals are to be disposed of. F038 Petroleum refinery secondary (emulsified) oil/water/solids separation of oil/water/solids in process wastewaters and oily cooling wastewaters from petroleum refinerees. Such wastes include, but are not limited to, all sludges and floats generated in non-contact once-through cooling waters segregated for treatment from onber process or oily cooling waters segregated for treatment from on-contact once-through cooling waters segregated for treatment form on-contact once-through cooling waters segregated in aggressive biological treatment units and floats generated in aggressive biological treatment units) and F037, K048, and K051 wastes are not included in this listing. This listing does include residuals generated from processing or recycling oil-bearing hazardous secondary materials excluded under item (1)(d)1(xii)(t) of this rule, if those residuals are to be disposed of. F039 Leachate (iquids that		processes generated at plants that use inorganic preservatives containing arsenic or chromium. This listing does not include K001 bottom sediment sludge from the treatment of wastewater from wood preserving processes that use creosote and/or pentachlorophenol	
 and/or float generated from the physical and/or chemical separation of oil/water/solids in process wastewaters and oily cooling wastewaters from petroleum refineries. Such wastes include, but are not limited to, all sludges and floats generated in: induced air flotation (IAF) units, tanks and impoundments, and all sludges generated in DAF units. Sludges generated in stormwater units that do not receive dry weather flow, sludges generated from non-contact once-through cooling waters segregated for treatment from other process or oily cooling waters, sludges and floats generated in aggressive biological treatment units as defined in subpart 2(ii) of this paragraph (including sludges and floats generated in one or more additional units after wastewaters have been treated in aggressive biological treatment units) and F037, K048, and K051 wastes are not included in this listing. This listing does include residuals generated from processing or recycling oil-bearing hazardous secondary materials excluded under item (1)(d)1(xii)(l) of this rule, if those residuals are to be disposed of. F039 Leachate (liquids that have percolated through land disposed wastes) resulting from the disposal of more than one restricted waste classified as hazardous under this paragraph. (Leachate resulting from the disposal of one or more of the following Hazardous Wastes and 	F037	gravitational separation of oil/water/solids during the storage or treatment of process wastewaters and oily cooling wastewaters from petroleum refineries. Such sludges include, but are not limited to, those generated in oil/water/solids separators; tanks and impoundments; ditches and other conveyances; sumps; and stormwater units receiving dry weather flow. Sludge generated in stormwater units that do not receive dry weather flow, sludges generated from non-contact once-through cooling waters segregated for treatment from other process or oily cooling waters, sludges generated in aggressive biological treatment units as defined in subpart 2(ii) of this subparagraph (including sludges generated in one or more additional units after wastewaters have been treated in aggressive biological treatment units) and K051 wastes are not included in this listing. This listing does include residuals generated from processing or recycling oil-bearing hazardous secondary materials	(T)
disposal of more than one restricted waste classified as hazardous under this paragraph. (Leachate resulting from the disposal of one or more of the following Hazardous Wastes and	F038	and/or float generated from the physical and/or chemical separation of oil/water/solids in process wastewaters and oily cooling wastewaters from petroleum refineries. Such wastes include, but are not limited to, all sludges and floats generated in: induced air flotation (IAF) units, tanks and impoundments, and all sludges generated in DAF units. Sludges generated in stormwater units that do not receive dry weather flow, sludges generated from non-contact once-through cooling waters segregated for treatment from other process or oily cooling waters, sludges and floats generated in aggressive biological treatment units as defined in subpart 2(ii) of this paragraph (including sludges and floats generated in one or more additional units after wastewaters have been treated in aggressive biological treatment units) and F037, K048, and K051 wastes are not included in this listing. This listing does include residuals generated from processing or recycling oil-bearing hazardous secondary materials	(T)
F027, and/or F028.).	F039	disposal of more than one restricted waste classified as hazardous under this paragraph. (Leachate resulting from the disposal of one or more of the following Hazardous Wastes and no other Hazardous Wastes retains its Hazardous Waste Code(s): F020, F021, F022, F026,	(T)

* (I, T,) should be used to specify mixtures that are ignitable and contain toxic constituents.

(R, T) should be used to specify mixtures that are reactive and contain toxic constituents.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

The first sentence (introductory text) of part 1 of subparagraph (c) of paragraph (4) of Rule 0400-12-01-.02 Identification and Listing of Hazardous Waste is amended by deleting it in its entirety and substituting instead the following, without changing the remainder of the part:

1. The following solid wastes are listed hazardous wastes from specific sources unless they are excluded under subparagraphs (3)(a) and (c) of Rule 0400-12-01-.01 and listed in Appendix IX of 40 CFR part 261.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

The introductory text of part 5 of subparagraph (d) of paragraph (4) of Rule 0400-12-01-.02 Identification and Listing of Hazardous Waste is amended by deleting the phrase "and are subject to the small quantity exclusion defined in part (1)(e)5 and 6 of this rule" at the end of the sentence, without changing the remainder of the part, so that, as amended, the introductory text shall read:

5. The commercial chemical products, manufacturing chemical intermediates, or offspecification commercial chemical products or manufacturing chemical intermediates referred to in parts 1 through 4 of this subparagraph, are identified as acute hazardous wastes (H).

The introductory text of part 6 of subparagraph (d) of paragraph (4) of Rule 0400-12-01-.02 Identification and Listing of Hazardous Waste is amended by deleting the phrase "and are subject to the small quantity exclusion defined in parts (1)(e) 1 and 7 of this rule" at the end of the sentence, without changing the remainder of the part, so that, as amended, the introductory text shall read:

6. The commercial chemical products, manufacturing chemical intermediates, or offspecification commercial chemical products referred to in parts 1 through 4 of this subparagraph, are identified as toxic wastes (T), unless otherwise designated.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Item (II) of subpart (v) of part 1 of subparagraph (b) of paragraph (5) of Rule 0400-12-01-.02 Identification and Listing of Hazardous Waste is amended by deleting it in its entirety and substituting instead the following:

(II) Notifications must be submitted electronically using EPA's Waste Import Export Tracking System (WIETS), or its successor system.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Items (IV), (V) and (VI) of subpart (v) of part 1 of subparagraph (b) of paragraph (5) of Rule 0400-12-01-.02 Identification and Listing of Hazardous Waste are amended by deleting them in their entirety and substituting instead the following:

- (IV) EPA will provide a complete notification to the receiving country and any transit countries. A notification is complete when EPA receives a notification which EPA determines satisfies the requirements of item (I) of this subpart.
- (V) The export of CRTs is prohibited unless all of the following occur:
 - I. The receiving country consents to the intended export. When the receiving country consents in writing to the receipt of the CRTs, EPA will forward an Acknowledgment of Consent to Export CRTs to the exporter. Where the receiving country objects to receipt of the CRTs or withdraws a prior consent, EPA will notify the exporter in writing. EPA will also notify the exporter of any responses from transit countries.
 - II. On or after the AES filing compliance date, the exporter or a U.S. authorized agent must:
 - A. Submit Electronic Export Information (EEI) for each shipment to the Automated Export System (AES) or its successor system, under the International Trade Data System (ITDS) platform, in accordance with 15 CFR 30.4(b).
 - B. Include the following items in the EEI, along with the other information required under 15 CFR 30.6:
 - (A) EPA license code;
 - (B) Commodity classification code per 15 CFR 30.6(a)(12);
 - (C) EPA consent number;

- (D) Country of ultimate destination per 15 CFR 30.6(a)(5);
- (E) Date of export per 15 CFR 30.6(a)(2);
- (F) Quantity of waste in shipment and units for reported quantity, if required reporting units established by value for the reported commodity classification number are in units of weight or volume per 15 CFR 30.6(a)(15); or
- (G) EPA net quantity reported in units of kilograms, if required reporting units established by value for the reported commodity classification number are not in units of weight or volume.
- (VI) When the conditions specified on the original notification change, the exporter must provide EPA with a written renotification of the change using the allowable methods listed in item (II) of this subpart, except for changes to the telephone number in subitem (I)I of this subpart and decreases in the quantity indicated pursuant to subitem (I)III of this subpart. The shipment cannot take place until consent of the receiving country to the changes has been obtained (except for changes to information about points of entry and departure and transit countries pursuant to subitems (I)IV and VIII of this subpart) and the exporter of CRTs receives from EPA a copy of the Acknowledgment of Consent to Export CRTs reflecting the receiving country's consent to the changes.

Item (IX) of subpart (v) of part 1 of subparagraph (b) of paragraph (5) of Rule 0400-12-01-.02 Identification and Listing of Hazardous Waste is amended by deleting it in its entirety and substituting instead the following:

(IX) Exporters must keep copies of notifications and Acknowledgments of Consent to Export CRTs for a period of three years following receipt of the Acknowledgment. Exporters may satisfy this recordkeeping requirement by retaining electronically submitted notifications or electronically generated Acknowledgements in the CRT exporter's account on EPA's Waste Import Export Tracking System (WIETS), or its successor system, provided that such copies are readily available for viewing and production if requested by any EPA or authorized state inspector. No CRT exporter may be held liable for the inability to produce a notification or Acknowledgement for inspection under this section if the CRT exporter can demonstrate that the inability to produce such copies is due exclusively to technical difficulty with EPA's Waste Import Export Tracking System (WIETS), or its successor system for which the CRT exporter bears no responsibility.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Item (XI) of subpart (v) of part 1 of subparagraph (b) of paragraph (5) of Rule 0400-12-01-.02 Identification and Listing of Hazardous Waste is amended by deleting it in its entirety and substituting instead the following:

(XI) Prior to one year after the AES filing compliance date, annual reports must be sent to the following mailing address: Office of Enforcement and Compliance Assurance, Office of Federal Activities, International Compliance Assurance Division, (Mail Code 2254A), Environmental Protection Agency, 1200 Pennsylvania Ave. NW., Washington, DC 20460. Hand-delivered annual reports on used CRTs exported during

2016 should be sent to: Office of Enforcement and Compliance Assurance, Office of Federal Activities, International Compliance Assurance Division, (Mail Code 2254A), Environmental Protection Agency, Ariel Rios Bldg., Room 6144, 1200 Pennsylvania Ave. NW., Washington, DC. Subsequently, annual reports must be submitted to the office listed using the allowable methods specified in item (II) of this subpart. Exporters must keep copies of each annual report for a period of at least three years from the due date of the report. Exporters may satisfy this recordkeeping requirement by retaining electronically submitted annual reports in the CRT exporter's account on EPA's Waste Import Export Tracking System (WIETS), or its successor system, provided that a copy is readily available for viewing and production if requested by any EPA or authorized state inspector. No CRT exporter may be held liable for the inability to produce an annual report for inspection under this subpart if the CRT exporter can demonstrate that the inability to produce the annual report is due exclusively to technical difficulty with EPA's Waste Import Export Tracking System (WIETS), or its successor system for which the CRT exporter bears no responsibility.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Subparagraph (d) of paragraph (13) of Rule 0400-12-01-.02 Identification and Listing of Hazardous Waste is amended by adding part 7 so that the new part shall read as follows:

7. Personnel training. All employees must be thoroughly familiar with proper waste handling and emergency procedures relevant to their responsibilities during normal facility operations and emergencies.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Rule 0400-12-01-.03 Notification Requirements and Standards Applicable to Generators of Hazardous Waste is amended by deleting it in its entirety and substituting instead the following:

- (1) General [40 CFR 262 Subpart A]
 - (a) 1. Terms used in this rule. [40 CFR 262.1]

As used in this rule:

- (i) "Condition for exemption" means any requirement in subparagraphs (e), (f), (g), and (h) of this paragraph, subpart 2(vi) of this subparagraph, paragraph (10) of this rule, or paragraph (11) of this rule that states an event, action, or standard that must occur or be met in order to obtain an exemption from any applicable requirement in Rules 0400-12-01-.05 through 0400-12-01-.07, 0400-12-01-.09, and 0400-12-01-.10, or from any requirement for notification under paragraph (2) of this rule.
- (ii) "Independent requirement" means a requirement of this rule that states an event, action, or standard that must occur or be met; and that applies without relation to, or irrespective of, the purpose of obtaining a conditional exemption from a storage facility permit, interim status, and operating requirements under subparagraphs (e), (f), (g), and (h) of this paragraph, paragraph (10) of this rule, or paragraph (11) of this rule.
- 2. Purpose, Scope, and Applicability [40 CFR 262.10 and 262.70]
 - (i) The regulations in this rule establish standards for generators of hazardous waste as defined by subparagraph (2)(a) of Rule 0400-12-01-.01.

- A person who generates a hazardous waste as defined by subparagraph (2)(a) of Rule 0400-12-01-.01 is subject to all the applicable independent requirements listed below:
 - I. Independent requirements of a very small quantity generator.
 - A. Parts (b)1 through 4 of this paragraph (hazardous waste determination and recordkeeping); and
 - B. Subparagraph (d) of this paragraph (generator category determination).
 - II. Independent requirements of a small quantity generator.
 - A. Subparagraph (b) of this paragraph (hazardous waste determination and recordkeeping);
 - B. Subparagraph (d) of this paragraph (generator category determination);
 - C. Subparagraph (i) of this paragraph (EPA identification numbers) and paragraph (2) of this rule (notification requirements);
 - D. Paragraph (3) of this rule (manifest requirements applicable to small and large quantity generators);
 - E. Paragraph (4) of this rule (pre-transport requirements applicable to small and large quantity generators);
 - F. Subparagraph (5)(a) of this rule (recordkeeping);
 - G. Subparagraph (5)(e) of this rule (recordkeeping for small quantity generators);
 - H. Paragraph (6) of this rule (hazardous waste reduction plan); and
 - I. Paragraph (9) of this rule (transboundary movements of hazardous waste for recovery or disposal).
 - III. Independent requirements of a large quantity generator.
 - A. Subparagraph (b) of this paragraph (hazardous waste determination and recordkeeping);
 - B. Subparagraph (d) of this paragraph (generator category determination);
 - C. Subparagraph (i) of this paragraph (EPA identification numbers) and paragraph (2) of this rule (notification requirements);
 - D. Paragraph (3) of this rule (manifest requirements applicable to small and large quantity generators);
 - E. Paragraph (4) of this rule (pre-transport requirements applicable to small and large quantity generators);

- F. Paragraph (5) of this rule (recordkeeping and reporting applicable to small and large quantity generators), except subparagraph (5)(e) of this rule;
- G. Paragraph (6) of this rule (hazardous waste reduction plan); and
- H. Paragraph (9) of this rule (transboundary movements of hazardous waste for recovery or disposal).
- (II) A generator that accumulates hazardous waste on site is a person that stores hazardous waste; such generator is subject to the applicable requirements of Rules 0400-12-01-.05 through 0400-12-01-.09 and paragraph (2) of this rule, unless it is one of the following:
 - I. A very small quantity generator that meets the conditions for exemption in subparagraph (e) of this paragraph;
 - II. A small quantity generator that meets the conditions for exemption in subparagraphs (f) and (g) of this paragraph; or
 - III. A large quantity generator that meets the conditions for exemption in subparagraphs (f) and (h) of this paragraph.
- (III) A generator shall not transport, offer its hazardous waste for transport, or otherwise cause its hazardous waste to be sent to a facility that is not a designated facility, as defined in subparagraph (2)(a) of Rule 0400-12-01-.01, or not otherwise authorized to receive the generator's hazardous waste.
- (ii) Determining generator category. A generator must use subparagraph (d) of this paragraph to determine which provisions of this rule are applicable to the generator based on the quantity of hazardous waste generated per calendar month.
- (iii) [Reserved]
- (iv) Any person who exports or imports hazardous wastes must comply with subparagraph (i) of this paragraph and paragraph (9) of this rule.
- (v) Any person who imports hazardous waste into the state from a foreign country must comply with the standards applicable to generators established in this rule.
- (vi) A farmer who generates waste pesticides which are hazardous wastes and who complies with all of the requirements of item (1)(d)2(ii)(II) of Rule 0400-12-01-.02 is not required to comply with other standards in this rule or Rules 0400-12-01-.05 through 0400-12-01-.07 or 0400-12-01-.10 with respect to such pesticides.
- (vii) (I) A generator's violation of an independent requirement is subject to penalty and injunctive relief under T.C.A. §§ 68-212-114 and 68-212-115 of the Act.
 - (II) A generator's noncompliance with a condition for exemption in this rule is not subject to penalty or injunctive relief under T.C.A. §§ 68-212-114 and 68-212-115 of the Act as a violation of a Rule 0400-12-01-.03 condition for exemption. Noncompliance by any generator with an applicable condition for exemption from storage permit and operations requirements means that the facility is a storage facility operating without an exemption from the permit, interim status, and operations requirements in Rules 0400-12-01-.05 through 0400-12-01-.09. Without an exemption, any

violations of such storage requirements are subject to penalty and injunctive relief under T.C.A. §§ 68-212-114 and 68-212-115 of the Act.

- (viii) An owner or operator who initiates a shipment of hazardous waste from a treatment, storage, or disposal facility must comply with the generator standards established in this rule.
- (ix) Persons responding to an explosives or munitions emergency in accordance with subitem (1)(b)2(vii)(I)IV or item (1)(b)2(vii)(IV) of Rule 0400-12-01-.05 or subitem (1)(b)2(vii)(I)IV or item (1)(b)2(vii)(IV) of Rule 0400-12-01-.06 and item (1)(b)5(i)(IV) or subpart (1)(b)5(iii) of Rule 0400-12-01-.07 are not required to comply with the standards of this rule.
- (x) Reserved.
- (xi) The laboratories owned by an eligible academic entity that chooses to be subject to the requirements of paragraph (10) of this rule are not subject to (for purposes of this subpart, the terms "laboratory" and "eligible academic entity" shall have the meaning as defined in paragraph (10) of this rule):
 - (I) The independent requirements of subparagraph (b) of this paragraph or the regulations in subparagraph (f) of this paragraph for large quantity generators and small quantity generators, except as provided in paragraph (10) of this rule; and
 - (II) The conditions of subparagraph (e) of this paragraph, for very small quantity generators, except as provided in paragraph (10) of this rule.
- (b) Hazardous Waste Determination and recordkeeping [40 CFR 262.11]

A person who generates a solid waste, as defined in subparagraph (1)(b) of Rule 0400-12-01-.02, must make an accurate determination as to whether that waste is a hazardous waste in order to ensure wastes are properly managed according to applicable hazardous waste management regulations. A hazardous waste determination is made using the following steps:

- 1. The hazardous waste determination for each solid waste must be made at the point of waste generation, before any dilution, mixing, or other alteration of the waste occurs, and at any time in the course of its management that it has, or may have, changed its properties as a result of exposure to the environment or other factors that may change the properties of the waste such that the hazardous waste management regulatory classification of the waste may change.
- 2. A person must determine whether the solid waste is excluded from regulation under subparagraph (1)(d) of Rule 0400-12-01-.02.
- 3. If the waste is not excluded under subparagraph (1)(d) of Rule 0400-12-01-.02, the person must then use knowledge of the waste to determine if whether the waste meets any of the listing descriptions under paragraph (4) of Rule 0400-12-01-.02(4). Acceptable knowledge that may be used in making an accurate determination as to whether the waste is listed may include waste origin, composition, the process producing the waste, feedstock, and other reliable and relevant information. If the waste is listed, the person may file a delisting petition under 40 CFR 260.20 and 260.22 to demonstrate to the EPA Administrator that the waste from this particular site or operation is not a hazardous waste.
- 4. The person then must determine whether the waste exhibits one or more hazardous characteristics as identified in paragraph (3) of Rule 0400-12-01-.02 by following the procedures in subpart (i) or (ii) of this part, or a combination of both.
 - (i) The person must apply knowledge of the hazard characteristic of the waste in light of the materials or the processes used to generate the waste. Acceptable

knowledge may include process knowledge (e.g., information about chemical feedstocks and other inputs to the production process); knowledge of products, by-products, and intermediates produced by the manufacturing process; chemical or physical characterization of wastes; information on the chemical and physical properties of the chemicals used or produced by the process or otherwise contained in the waste; testing that illustrates the properties of the waste; or other reliable and relevant information about the properties of the waste or its constituents. A test other than a test method set forth in paragraph (3) of Rule 0400-12-01-.02, or an equivalent test method approved by the EPA Administrator under 40 CFR 260.21, may be used as part of a person's knowledge to determine whether a solid waste exhibits a characteristic of hazardous waste. However, such tests do not, by themselves, provide definitive results. Persons testing their waste must obtain a representative sample of the waste for the testing, as defined at subparagraph (2)(a) of Rule 0400-12-01-.01.

- (ii) When available knowledge is inadequate to make an accurate determination, the person must test the waste according to the applicable methods set forth in paragraph (3) of Rule 0400-12-01-.02 or according to an equivalent method approved by the EPA Administrator under 40 CFR 260.21 and in accordance with the following:
 - (I) Persons testing their waste must obtain a representative sample of the waste for the testing, as defined at subparagraph (2)(a) of Rule 0400-12-01-.01.
 - (II) Where a test method is specified in paragraph (3) of Rule 0400-12-01-.02, the results of the regulatory test, when properly performed, are definitive for determining the regulatory status of the waste.
- 5. If the waste is determined to be hazardous, the generator must refer to Rules 0400-12-01-.02, 0400-12-01-.05, 0400-12-01-.06, 0400-12-01-.09, 0400-12-01-.10, and 0400-12-01-.12 for possible exclusions or restrictions pertaining to management of the specific waste.
- Recordkeeping for small and large quantity generators. A small or large quantity 6. generator must maintain records supporting its hazardous waste determinations, including records that identify whether a solid waste is a hazardous waste, as defined by subparagraph (1)(c) of Rule 0400-12-01-.02. Records must be maintained for at least three years from the date that the waste was last sent to on-site or off-site treatment, storage, or disposal. These records must comprise the generator's knowledge of the waste and support the generator's determination, as described in parts 3 and 4 of this subparagraph. The records must include, but are not limited to, the following types of information: The results of any tests, sampling, waste analyses, or other determinations made in accordance with this subparagraph; records documenting the tests, sampling. and analytical methods used to demonstrate the validity and relevance of such tests; records consulted in order to determine the process by which the waste was generated, the composition of the waste, and the properties of the waste; and records which explain the knowledge basis for the generator's determination, as described at subpart (4)(i) of this subparagraph. The periods of record retention referred to in this part are extended automatically during the course of any unresolved enforcement action regarding the regulated activity or as requested by the Commissioner.
- 7. Identifying hazardous waste numbers for small and large quantity generators. If the waste is determined to be hazardous, small quantity generators and large quantity generators must identify all applicable hazardous waste numbers (EPA hazardous waste codes) in paragraphs (3) and (4) of Rule 0400-12-01-.02. Prior to shipping the waste off site, the generator also must mark its containers with all applicable hazardous waste numbers (EPA hazardous waste numbers (EPA hazardous waste numbers (EPA hazardous waste codes) according to subparagraph (4)(c) of this rule.
- (c) [Reserved] [40 CFR 262.12]

(d) Generator category determination. [40 CFR 262.13]

A generator must determine its generator category. A generator's category is based on the amount of hazardous waste generated each month and may change from month to month. This subparagraph sets forth procedures to determine whether a generator is a very small quantity generator, a small quantity generator, or a large quantity generator for a particular month, as defined in subparagraph (2)(a) of Rule 0400-12-01-.01.

- 1. Generators of either acute hazardous waste or non-acute hazardous waste. A generator who either generates acute hazardous waste or non-acute hazardous waste in a calendar month shall determine its generator category for that month by doing the following:
 - (i) Counting the total amount of hazardous waste generated in the calendar month;
 - (ii) Subtracting from the total any amounts of waste exempt from counting as described in parts 3 and 4 of this subparagraph; and
 - (iii) Determining the resulting generator category for the hazardous waste generated using Table 1 of part 2 of this subparagraph.
- 2. Generators of both acute and non-acute hazardous wastes. A generator who generates both acute hazardous waste and non-acute hazardous waste in the same calendar month shall determine its generator category for that month by doing the following:
 - (i) Counting separately the total amount of acute hazardous waste and the total amount of non-acute hazardous waste generated in the calendar month;
 - (ii) Subtracting from each total any amounts of waste exempt from counting as described in parts 3 and 4 of this subparagraph;
 - (iii) Determining separately the resulting generator categories for the quantities of acute and non-acute hazardous waste generated using Table 1 of this part; and
 - (iv) Comparing the resulting generator categories from subpart (iii) of this part and applying the more stringent generator category to the accumulation and management of both non-acute hazardous waste and acute hazardous waste generated for that month.

Table 1 Generator Categories Based on Quantity of Waste Generated in a Calendar Month				
			n a Calendar Month	
Quantity of acute	Quantity of non-acute	Quantity of residues		
hazardous waste	hazardous waste generated	from a cleanup of	Generator category	
generated in a	in a calendar month	acute hazardous		
calendar month		waste generated in a		
		calendar month		
> 1 kg	Any amount	Any amount	Large quantity generator	
Any amount	≥ 1,000 kg	Any amount	Large quantity generator	
Any amount	Any amount	> 100 kg	Large quantity generator	
≤ 1 kg	> 100 kg and < 1,000 kg	≤ 100 kg	Small quantity generator	
≤ 1 kg	≤ 100 kg	≤ 100 kg	Very Small quantity generator	

- 3. When making the monthly quantity-based determinations required by this rule, the generator must include all hazardous waste that it generates, except hazardous waste that:
 - (i) Is exempt from regulation under parts (1)(d)3 through 6 of Rule 0400-12-01-.02, subpart (1)(f)1(iii) of Rule 0400-12-01-.02, subpart (1)(g)1(i) of Rule 0400-12-01-.02, or subparagraph (1)(h) of Rule 0400-12-01-.02;
- (ii) Is managed immediately upon generation only in on-site elementary neutralization units, wastewater treatment units, or totally enclosed treatment facilities as defined in subparagraph (2)(a) of Rule 0400-12-01-.01;
- (iii) Is recycled, without prior storage or accumulation, only in an on-site process subject to regulation under subpart (1)(f)3(ii) of Rule 0400-12-01-.02;
- (iv) Except as subpart (2)(a)2(iii) of Rule 0400-12-01-.11 provides otherwise, is used oil managed under the requirements of subpart (1)(f)1(iv) of Rule 0400-12-01-.02 and Rule 0400-12-01-.11;
- (v) Is spent lead-acid batteries managed under the requirements of paragraph (7) of Rule 0400-12-01-.09;
- (vi) Is universal waste managed under subparagraph (1)(j) of Rule 0400-12-01-.02 and Rule 0400-12-01-.12;
- (vii) Is a hazardous waste that is an unused commercial chemical product (listed in paragraph (4) of Rule 0400-12-01-.02 or exhibiting one or more characteristics in paragraph (3) of Rule 0400-12-01-.02) that is generated solely as a result of a laboratory clean-out conducted at an eligible academic entity pursuant to subparagraph (10)(n) of this rule. For purposes of this provision, the term eligible academic entity shall have the meaning as defined in subparagraph (10)(a) of this rule;
- (viii) Is managed as part of an episodic event in compliance with the conditions of paragraph (11) of this rule; or
- (ix) Is managed immediately upon generation in a collection system (sewer system) where the wastewaters will mix with sanitary wastes at any point before reaching a publically owned treatment works (POTW).
- 4. In determining the quantity of hazardous waste generated in a calendar month, a generator need not include:
 - (i) Hazardous waste when it is removed from on-site accumulation, so long as the hazardous waste was previously counted once;
 - (ii) Hazardous waste generated by on-site treatment (including reclamation) of the generator's hazardous waste, so long as the hazardous waste that is treated was previously counted once; and
 - (iii) Hazardous waste spent materials that are generated, reclaimed, and subsequently reused on site, so long as such spent materials have been previously counted once.
- 5. Based on the generator category as determined under this subparagraph, the generator must meet the applicable independent requirements listed in part (a)1 of this paragraph. A generator's category also determines which of the provisions of subparagraphs (e), (f), (g), or (h) of this paragraph must be met to obtain an exemption from the storage facility permit, interim status, and operating requirements when accumulating hazardous waste.
- 6. Mixing hazardous wastes with solid wastes
 - (i) Very small quantity generator wastes.
 - (I) Hazardous wastes generated by a very small quantity generator may be mixed with solid wastes. Very small quantity generators may mix a portion or all of its hazardous waste with solid waste and remain subject to subparagraph (e) of this paragraph even though the resultant mixture exceeds the quantity limits identified in the definition of very small

quantity generator at subparagraph (2)(a) of Rule 0400-12-01-.01, unless the mixture exhibits one or more of the characteristics of hazardous waste identified in paragraph (3) of Rule 0400-12-01-.02.

- (II) If the resulting mixture exhibits a characteristic of hazardous waste, this resultant mixture is a newly-generated hazardous waste. The very small quantity generator must count both the resultant mixture amount plus the other hazardous waste generated in the calendar month to determine whether the total quantity exceeds the very small quantity generator calendar month quantity limits identified in the definition of generator categories found in subparagraph (2)(a) of Rule 0400-12-01-.01. If so, to remain exempt from the permitting, interim status, and operating standards, the very small quantity generator must meet the conditions for exemption applicable to either a small quantity generator or a large quantity generator. The very small quantity generator must also comply with the applicable independent requirements for either a small quantity generator or a large quantity generator.
- (III) If a very small quantity generator's wastes are mixed with used oil, the mixture is subject to Rule 0400-12-01-.11. Any material produced from such a mixture by processing, blending, or other treatment is also regulated under Rule 0400-12-01-.11.
- (ii) Small quantity generator and large quantity generator wastes.
 - (I) Hazardous wastes generated by a small quantity generator or large quantity generator may be mixed with solid waste. These mixtures are subject to the following: the mixture rule in item (1)(c)1(ii)(IV) of Rule 0400-12-01-.02, subparts (1)(c)2(ii) and (iii) of Rule 0400-12-01-.02, and item (1)(c)7(ii)(I) of Rule 0400-12-01-.02; the prohibition of dilution rule at part (1)(c)1 of Rule 0400-12-01-.10; the land disposal restriction requirements of subparagraph (3)(a) of Rule 0400-12-01-.10 if a characteristic hazardous waste is mixed with a solid waste so that it no longer exhibits the hazardous characteristic; and the hazardous waste determination requirement at subparagraph (b) of this paragraph.
 - (II) If the resulting mixture is found to be a hazardous waste, this resultant mixture is a newly-generated hazardous waste. A small quantity generator must count both the resultant mixture amount plus the other hazardous waste generated in the calendar month to determine whether the total quantity exceeds the small quantity generator calendar monthly quantity limits identified in the definition of generator categories found in subparagraph (2)(a) of Rule 0400-12-01-.01. If so, to remain exempt from the permitting, interim status, and operating standards, the small quantity generator must meet the conditions for exemption applicable to a large quantity generator. The small quantity generator must also comply with the applicable independent requirements for a large quantity generator.
- (e) Conditions for exemption for a very small quantity generator. [40 CFR 262.14]
 - 1. Provided that the very small quantity generator meets all the conditions for exemption listed in this subparagraph, hazardous waste generated by the very small quantity generator is not subject to the requirements of Rules 0400-12-01-.03 (except for subparagraphs (a) through (e) of this paragraph, part (5)(b)6, subparagraph (5)(d), and paragraph (11), if applicable) through 0400-12-01-.07, 0400-12-01-.09, and 0400-12-01-.10, and the notification requirements of paragraph (2) of this rule, and the very small quantity generator may accumulate hazardous waste on site without complying with such requirements. The conditions for exemption are as follows:

- In a calendar month the very small quantity generator generates less than or equal to the amounts specified in the definition of "very small quantity generator" in subparagraph (2)(a) of Rule 0400-12-01-.01;
- (ii) The very small quantity generator complies with parts (b)1 through 4 of this paragraph;
- (iii) If the very small quantity generator accumulates at any time greater than 1 kilogram (2.2 lbs) of acute hazardous waste or 100 kilograms (220 lbs) of any residue or contaminated soil, water, or other debris resulting from the cleanup of a spill, into or on any land or water, of any acute hazardous waste listed in subparagraph (4)(b) or part (4)(d)5 of Rule 0400-12-01-.02, all quantities of that acute hazardous waste are subject to the following additional conditions for exemption:
 - Such waste is held on site for no more than 90 days beginning on the date when the accumulated wastes exceed the amounts provided in this subpart; and
 - (II) The conditions for exemption in parts (h)1 through 7 of this paragraph.
- (iv) If the very small quantity generator accumulates at any time 1,000 kilograms (2,200 lbs) or greater of non-acute hazardous waste, all quantities of that hazardous waste are subject to the following additional conditions for exemption:
 - Such waste is held on site for no more than 180 days, or 270 days if applicable, beginning on the date when the accumulated waste exceed the amounts provided in this subpart;
 - (II) The quantity of waste accumulated on site never exceeds 6,000 kilograms (13,200 lbs); and
 - (III) The conditions for exemption in subparts (g)2(ii) of this paragraph.
- (v) A very small quantity generator that accumulates hazardous waste in amounts less than or equal to the limits in subparts (iii) and (iv) of this part must either treat or dispose of its hazardous waste in an on-site facility or ensure delivery to an off-site treatment, storage, or disposal facility, either of which, if located in the U.S., is:
 - (I) Permitted under Rule 0400-12-01-.07;
 - (II) In interim status under Rules 0400-12-01-.05 and 0400-12-01-.07;
 - (III) Authorized to manage hazardous waste by a state with a hazardous waste management program approved under part 271 of this chapter;
 - (IV) Permitted, licensed, or registered by a state to manage municipal solid waste and, if managed in a municipal solid waste landfill is subject to 40 CFR Part 258;
 - (V) Permitted, licensed, or registered by a state to manage non-municipal non-hazardous waste and, if managed in a non-municipal non-hazardous waste disposal unit, is subject to the requirements in 40 CFR Parts 257.5 through 257.30;
 - (VI) A facility which:
 - I. Beneficially uses or reuses, or legitimately recycles or reclaims its waste; or

- II. Treats its waste prior to beneficial use or reuse, or legitimate recycling or reclamation;
- (VII) For universal waste managed under Rule 0400-12-01-.12, a universal waste handler or destination facility subject to the requirements of Rule 0400-12-01-.12;
- (VIII) A large quantity generator under the control of the same person as the very small quantity generator provided the following conditions are met:
 - I. The very small quantity generator and the large quantity generator are under the control of the same person as defined in subparagraph (2)(a) of Rule 0400-12-01-.01. "Control," for the purposes of this item, means the power to direct the policies of the generator, whether by the ownership of stock, voting rights, or otherwise, except that contractors who operate generator facilities on behalf of a different person as defined in subparagraph (2)(a) of Rule 0400-12-01-.01 shall not be deemed to "control" such generators.
 - II. The very small quantity generator marks its container(s) of hazardous waste with:
 - A. The words "Hazardous Waste" and
 - B. An indication of the hazards of the contents (examples include, but are not limited to, the applicable hazardous waste characteristic(s) (i.e., ignitable, corrosive, reactive, toxic); hazard communication consistent with the Department of Transportation requirements at 49 CFR part 172 subpart E (labeling) or subpart F (placarding); a hazard statement or pictogram consistent with the Occupational Safety and Health Administration Hazard Communication Standard at 29 CFR 1910.1200; or a chemical hazard label consistent with the National Fire Protection Association code 704).
- (IX) Reserved.
- (X) Reserved.
- (XI) For airbag waste, an airbag waste collection facility or a designated facility subject to the requirements of part (1)(d)10 of Rule 0400-12-01-.02.
- 2. The placement of bulk or non-containerized liquid hazardous waste or hazardous waste containing free liquids (whether or not sorbents have been added) in any landfill is prohibited.
- 3. A very small quantity generator experiencing an episodic event may generate and accumulate hazardous waste in accordance with paragraph (11) of this rule in lieu of subparagraphs (f), (g), and (h) of this paragraph.
- (f) Satellite accumulation area regulations for small and large quantity generators. [40 CFR 262.15]
 - A generator may accumulate as much as 55 gallons of non-acute hazardous waste or either (i) one quart of liquid acute hazardous waste listed in subparagraph (4)(b) or part (4)(d)5 of Rule 0400-12-01-.02 or (ii) 1 kg (2.2 lbs) of solid acute hazardous waste listed in subparagraph (4)(b) or part (4)(d)5 of Rule 0400-12-01-.02 in containers at or near any point of generation where wastes initially accumulate which is under the control of the operator of the process generating the waste, without a permit or interim status and

without complying with the requirements of Rules 0400-12-01-.05 through 0400-12-01-.07 and 0400-12-01-.09, provided that all of the conditions for exemption in this subparagraph are met. A generator may comply with the conditions for exemption in this subparagraph instead of complying with the conditions for exemption in part (g)2 or (h)1 of this paragraph, except as required in subparts (vii) and (viii) of this part. The conditions for exemption for satellite accumulation are:

- (i) If a container holding hazardous waste is not in good condition, or if it begins to leak, the generator must immediately transfer the hazardous waste from this container to a container that is in good condition and does not leak, or immediately transfer and manage the waste in a central accumulation area operated in compliance with part (g)2 or (h)1 of this paragraph.
- (ii) The generator must use a container made of or lined with materials that will not react with, and are otherwise compatible with, the hazardous waste to be accumulated, so that the ability of the container to contain the waste is not impaired.
- (iii) Special standards for incompatible wastes.
 - (I) Incompatible wastes, or incompatible wastes and materials, (see appendix V in paragraph (53) of Rule 0400-12-01-.05 for examples) must not be placed in the same container, unless part (h)2 of this paragraph is complied with.
 - (II) Hazardous waste must not be placed in an unwashed container that previously held an incompatible waste or material (see appendix V in paragraph (53) of Rule 0400-12-01-.05 for examples), unless part (h)2 of this paragraph is complied with.
 - (III) A container holding a hazardous waste that is incompatible with any waste or other materials accumulated nearby in other containers must be separated from the other materials or protected from them by any practical means.
- (iv) A container holding hazardous waste must be closed at all times during accumulation, except:
 - (I) When adding, removing, or consolidating waste; or
 - (II) When temporary venting of a container is necessary
 - I. For the proper operation of equipment, or
 - II. To prevent dangerous situations, such as build-up of extreme pressure.
- (v) A generator must mark or label its container with the following:
 - (I) The words "Hazardous Waste" and
 - (II) An indication of the hazards of the contents (examples include, but are not limited to, the applicable hazardous waste characteristic(s) (i.e., ignitable, corrosive, reactive, toxic); hazard communication consistent with the Department of Transportation requirements at 49 CFR part 172 subpart E (labeling) or subpart F (placarding); a hazard statement or pictogram consistent with the Occupational Safety and Health Administration Hazard Communication Standard at 29 CFR 1910.1200; or a chemical hazard label consistent with the National Fire Protection Association code 704).

- (vi) A generator who accumulates either acute hazardous waste listed in subparagraph (4)(b) or part (4)(d)5 of Rule 0400-12-01-.02 or non-acute hazardous waste in excess of the amounts listed in this part at or near any point of generation must do the following:
 - Comply within three consecutive calendar days with the applicable central accumulation area regulations in part (g)2 or (h)1 of this paragraph, or
 - (II) Remove the excess from the satellite accumulation area within three consecutive calendar days to either:
 - I. A central accumulation area operated in accordance with the applicable regulations in part (g)2 or (h)1 of this paragraph;
 - II. An on-site interim status or permitted treatment, storage, or disposal facility, or
 - III. An off-site designated facility; and
 - (III) During the three-consecutive-calendar-day period the generator must continue to comply with subparts (i) through (v) of this part. The generator must mark or label the container(s) holding the excess accumulation of hazardous waste with the date the excess amount began accumulating.
- (vii) All satellite accumulation areas operated by a small quantity generator must meet the preparedness and prevention regulations of subpart (g)2(viii) of this paragraph and the emergency procedures of subpart (g)2(ix) of this paragraph.
- (viii) All satellite accumulation areas operated by a large quantity generator must meet the Preparedness, Prevention, and Emergency Procedures in paragraph (12) of this rule.

(Note: The term operator, as used in this part, refers to an individual or individuals responsible for the equipment or processes generating the hazardous waste and does not refer to a company or entity as a whole.)

- 2. [Reserved]
- (g) Conditions for exemption for a small quantity generator that accumulates hazardous waste. [40 CFR 262.16]

A small quantity generator may accumulate hazardous waste on site without a permit or interim status, and without complying with the requirements of Rules 0400-12-01-.05 through 0400-12-01-.07, and 0400-12-01-.09, provided that all the conditions for exemption listed in this subparagraph are met:

- 1. Generation. The generator generates in a calendar month no more than the amounts specified in the definition of "small quantity generator" in subparagraph (2)(a) of Rule 0400-12-01-.01.
- 2. Accumulation. The generator accumulates hazardous waste on site for no more than 180 days, unless in compliance with the conditions for exemption for longer accumulation in subparts (iv) and (v) of this part. The following accumulation conditions also apply:
 - (i) Accumulation limit. The quantity of hazardous waste accumulated on site never exceeds 6,000 kilograms (13,200 pounds);
 - (ii) Accumulation of hazardous waste in containers

- (I) Condition of containers. If a container holding hazardous waste is not in good condition, or if it begins to leak, the small quantity generator must immediately transfer the hazardous waste from this container to a container that is in good condition, or immediately manage the waste in some other way that complies with the conditions for exemption of this subparagraph.
- (II) Compatibility of waste with container. The small quantity generator must use a container made of or lined with materials that will not react with, and are otherwise compatible with, the hazardous waste to be accumulated, so that the ability of the container to contain the waste is not impaired.
- (III) Management of containers.
 - I. A container holding hazardous waste must always be closed during accumulation, except when it is necessary to add or remove waste.
 - II. A container holding hazardous waste must not be opened, handled, or accumulated in a manner that may rupture the container or cause it to leak.
- (IV) Inspections.
 - I. At least weekly, the small quantity generator must inspect central accumulation areas. The small quantity generator must look for leaking containers and for deterioration of containers caused by corrosion or other factors. See item (I) of this subpart for remedial action required if deterioration or leaks are detected.
 - II. The small quantity generator must record inspections required by subitem I of this item in an inspection log or summary. The small quantity generator must keep these records for at least three years from the date of inspection. At a minimum, these records must include the date and time of the inspection, the name of the inspector, a notation of the observations made, and the date and nature of any repairs or other remedial actions.
- (V) Special conditions for accumulation of incompatible wastes.
 - I. Incompatible wastes, or incompatible wastes and materials, (see appendix V of paragraph (53) of Rule 0400-12-01-.05 for examples) must not be placed in the same container, unless part (2)(h)2 of Rule 0400-12-01-.05 is complied with.
 - II. Hazardous waste must not be placed in an unwashed container that previously held an incompatible waste or material (see appendix V of paragraph (53) of Rule 0400-12-01-.05 for examples), unless part (2)(h)2 of Rule 0400-12-01-.05 is complied with.
 - III. A container accumulating hazardous waste that is incompatible with any waste or other materials accumulated or stored nearby in other containers, piles, open tanks, or surface impoundments must be separated from the other materials or protected from them by means of a dike, berm, wall, or other device.
- (iii) Accumulation of hazardous waste in tanks.
 - (I) [Reserved]

- (II) A small quantity generator of hazardous waste must comply with the following general operating conditions:
 - I. Treatment or accumulation of hazardous waste in tanks must comply with part (2)(h)2 of Rule 0400-12-01-.05.
 - II. Hazardous wastes or treatment reagents must not be placed in a tank if they could cause the tank or its inner liner to rupture, leak, corrode, or otherwise fail before the end of its intended life.
 - III. Uncovered tanks must be operated to ensure at least 60 centimeters (2 feet) of freeboard, unless the tank is equipped with a containment structure (e.g., dike or trench), a drainage control system, or a diversion structure (e.g., standby tank) with a capacity that equals or exceeds the volume of the top 60 centimeters (2 feet) of the tank.
 - IV. Where hazardous waste is continuously fed into a tank, the tank must be equipped with a means to stop this inflow (e.g., waste feed cutoff system or by-pass system to a stand-by tank).
- (III) I. Except as noted in item (IV) of this subpart, a small quantity generator that accumulates hazardous waste in tanks must inspect, where present:
 - A. Discharge control equipment (e.g., waste feed cutoff systems, by-pass systems, and drainage systems) at least once each operating day, to ensure that it is in good working order;
 - B. Data gathered from monitoring equipment (e.g., pressure and temperature gauges) at least once each operating day to ensure that the tank is being operated according to its design;
 - C. The level of waste in the tank at least once each operating day to ensure compliance with subitem (II)III of this subpart;
 - D. The construction materials of the tank at least weekly to detect corrosion or leaking of fixtures or seams; and
 - E. The construction materials of, and the area immediately surrounding, discharge confinement structures (e.g., dikes) at least weekly to detect erosion or obvious signs of leakage (e.g., wet spots or dead vegetation). The generator must remedy any deterioration or malfunction of equipment or structures which the inspection reveals on a schedule that ensures that the problem does not lead to an environmental or human health hazard. Where a hazard is imminent or has already occurred, remedial action must be taken immediately.
 - II. The small quantity generator must record inspections required by subitem I of this item in an inspection log or summary. The small quantity generator must keep these records for at least three years from the date of inspection. At a minimum, these records must include the date and time of the inspection, the name of the inspector, a notation of the observations made, and the date and nature of any repairs or other remedial actions.

- (IV) I. A small quantity generator accumulating hazardous waste in tanks or tank systems that have full secondary containment and that either use leak detection equipment to alert personnel to leaks, or implement established workplace practices to ensure leaks are promptly identified, must inspect at least weekly, where applicable, the areas identified in subitems (III)I A through E of this subpart. Use of the alternate inspection schedule must be documented in the generator's operating record. This documentation must include a description of the established workplace practices at the generator.
 - II. The small quantity generator must record inspections required by subitem I of this item in an inspection log or summary. The small quantity generator must keep these records for at least three years from the date of inspection. At a minimum, these records must include the date and time of the inspection, the name of the inspector, a notation of the observations made, and the date and nature of any repairs or other remedial actions.
- (V) [Reserved]
- (VI) A small quantity generator accumulating hazardous waste in tanks must, upon closure of the facility, remove all hazardous waste from tanks, discharge control equipment, and discharge confinement structures. At closure, as throughout the operating period, unless the small quantity generator can demonstrate, in accordance with part (1)(c)3 or 4 of Rule 0400-12-01-.02, that any solid waste removed from its tank is not a hazardous waste, then it must manage such waste in accordance with all applicable provisions of this rule and Rules 0400-12-01-.04, 0400-12-01-.05, and 0400-12-01-.10.
- (VII) A small quantity generator must comply with the following special conditions for accumulation of ignitable or reactive waste:
 - I. Ignitable or reactive waste must not be placed in a tank, unless:
 - A. The waste is treated, rendered, or mixed before or immediately after placement in a tank so that the resulting waste, mixture, or dissolution of material no longer meets the definition of ignitable or reactive waste under subparagraph (3)(b) or (d) of Rule 0400-12-01-.02 and part (2)(h)2 of Rule 0400-12-01-.05 is complied with; or
 - B. The waste is accumulated or treated in such a way that it is protected from any material or conditions that may cause the waste to ignite or react; or
 - C. The tank is used solely for emergencies.
 - II. A small quantity generator which treats or accumulates ignitable or reactive waste in covered tanks must comply with the buffer zone requirements for tanks contained in Tables 2-1 through 2-6 of the National Fire Protection Association's "Flammable and Combustible Liquids Code" (1977 or 1981) (incorporated by reference, see subparagraph (2)(b) of Rule 0400-12-01-.01).
 - III. A small quantity generator must comply with the following special conditions for incompatible wastes:

- A. Incompatible wastes, or incompatible wastes and materials, (see appendix V of paragraph (53) of Rule 0400-12-01-.05 for examples) must not be placed in the same tank, unless part (2)(h)2 of Rule 0400-12-01-.05 is complied with.
- B. Hazardous waste must not be placed in an unwashed tank that previously held an incompatible waste or material, unless part (2)(h)2 of Rule 0400-12-01-.05 is complied with.
- (iv) Accumulation of hazardous waste on drip pads. If the waste is placed on drip pads, the small quantity generator must comply with the following:
 - (I) Paragraph (23) of Rule 0400-12-01-.05 (except part (23)(f)3 of Rule 0400-12-01-.05);
 - (II) The small quantity generator must remove all wastes from the drip pad at least once every 90 days. Any hazardous wastes that are removed from the drip pad at least once every 90 days are then subject to the 180-day accumulation limit in this part and subparagraph (f) of this paragraph if hazardous wastes are being managed in satellite accumulation areas prior to being moved to the central accumulation area; and
 - (III) The small quantity generator must maintain on site at the facility the following records readily available for inspection:
 - I. A written description of procedures that are followed to ensure that all wastes are removed from the drip pad and associated collection system at least once every 90 days;
 - II. Documentation of each waste removal, including the quantity of waste removed from the drip pad and the sump or collection system and the date and time of removal; and
 - III. The records of inspections required by part (23)(e)2 of Rule 0400-12-01-.05, as incorporated by reference by item (I) of this subpart, in an inspection log or summary. The small quantity generator must keep these records for at least three years from the date of inspection. At a minimum, these records must include the date and time of the inspection, the name of the inspector, a notation of the observations made, and the date and nature of any repairs or other remedial actions.
- (v) Accumulation of hazardous waste in containment buildings. If the waste is placed in containment buildings, the small quantity generator must comply with paragraph (30) of Rule 0400-12-01-.05. The generator must label its containment buildings with the words "Hazardous Waste" in a conspicuous place easily visible to employees, visitors, emergency responders, waste handlers, or other persons on site and also in a conspicuous place provide an indication of the hazards of the contents (examples include, but are not limited to, the applicable hazardous waste characteristic(s) (i.e., ignitable, corrosive, reactive, toxic); hazard communication consistent with the Department of Transportation requirements at 49 CFR part 172 subpart E (labeling) or subpart F (placarding); a hazard statement or pictogram consistent with the Occupational Safety and Health Administration Hazard Communication Standard at 29 CFR 1910.1200; or a chemical hazard label consistent with the National Fire Protection Association code 704).The generator must also maintain:
 - (I) The professional engineer certification that the building complies with the design standards specified in subparagraph (30)(b) of Rule 0400-12-01-

.05. This certification must be in the generator's files prior to operation of the unit; and

- (II) The following records by use of inventory logs, monitoring equipment, or any other effective means:
 - I. A written description of procedures to ensure that each waste volume remains in the unit for no more than 90 days, a written description of the waste generation and management practices for the facility showing that the generator is consistent with maintaining the 90 day limit, and documentation that the procedures are complied with; or
 - II. Documentation that the unit is emptied at least once every 90 days.
- (III) Inventory logs or records with the information required by subitems (II)I and II of this subpart and required by subpart (30)(b)3(iv) of Rule 0400-12-01-.05, as incorporated by reference by this subpart, must be maintained on site and readily available for inspection.
- (vi) Labeling and marking of containers and tanks.
 - (I) Containers. A small quantity generator must mark or label its containers with the following:
 - I. The words "Hazardous Waste";
 - II. An indication of the hazards of the contents (examples include, but are not limited to, the applicable hazardous waste characteristic(s) (i.e., ignitable, corrosive, reactive, toxic); hazard communication consistent with the Department of Transportation requirements at 49 CFR part 172 subpart E (labeling) or subpart F (placarding); a hazard statement or pictogram consistent with the Occupational Safety and Health Administration Hazard Communication Standard at 29 CFR 1910.1200; or a chemical hazard label consistent with the National Fire Protection Association code 704); and
 - III. The date upon which each period of accumulation begins clearly visible for inspection on each container.
 - (II) Tanks. A small quantity generator accumulating hazardous waste in tanks must do the following:
 - I. Mark or label its tanks with the words "Hazardous Waste";
 - II. Mark or label its tanks with an indication of the hazards of the contents (examples include, but are not limited to, the applicable hazardous waste characteristic(s) (i.e., ignitable, corrosive, reactive, toxic); hazard communication consistent with the Department of Transportation requirements at 49 CFR part 172 subpart E (labeling) or subpart F (placarding); a hazard statement or pictogram consistent with the Occupational Safety and Health Administration Hazard Communication Standard at 29 CFR 1910.1200; or a chemical hazard label consistent with the National Fire Protection Association code 704);
 - III. Use inventory logs, monitoring equipment, or other records to demonstrate that hazardous waste has been emptied within 180 days of first entering the tank if using a batch process, or in the

case of a tank with a continuous flow process, demonstrate that estimated volumes of hazardous waste entering the tank daily exit the tank within 180 days of first entering; and

- IV. Keep inventory logs or records with the information required by subitem III of this item on site and readily available for inspection.
- (vii) Land disposal restrictions. A small quantity generator must comply with all the applicable requirements under Rule 0400-12-01-.10.
- (viii) Preparedness and prevention.
 - (I) Maintenance and operation of facility. A small quantity generator must maintain and operate its facility to minimize the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water which could threaten human health or the environment.
 - (II) Required equipment. All areas where hazardous waste is either generated or accumulated must be equipped with the things in subitems I through IV of this item (unless none of the hazards posed by waste handled at the facility could require a particular kind of equipment specified below or the actual waste generation or accumulation area does not lend itself for safety reasons to have a particular kind of equipment specified below). A small quantity generator may determine the most appropriate locations to locate equipment necessary to prepare for and respond to emergencies.
 - I. An internal communications or alarm system capable of providing immediate emergency instruction (voice or signal) to facility personnel;
 - II. A device, such as a telephone (immediately available at the scene of operations) or a hand-held two-way radio, capable of summoning emergency assistance from local police departments, fire departments, or State or local emergency response teams;
 - III. Portable fire extinguishers, fire control equipment (including special extinguishing equipment, such as that using foam, inert gas, or dry chemicals), spill control equipment, and decontamination equipment; and
 - IV. Water at adequate volume and pressure to supply water hose streams, foam producing equipment, automatic sprinklers, or water spray systems.
 - (III) Testing and maintenance of equipment. All communications or alarm systems, fire protection equipment, spill control equipment, and decontamination equipment, where required, must be tested and maintained as necessary to assure its proper operation in time of emergency.
 - (IV) Access to communications or alarm system.
 - I. Whenever hazardous waste is being poured, mixed, spread, or otherwise handled, all personnel involved in the operation must have immediate access (e.g., direct or unimpeded access) to an internal alarm or emergency communication device, either directly or through visual or voice contact with another employee,

unless such a device is not required under item (II) of this subpart.

- II. In the event there is just one employee on the premises while the facility is operating, the employee must have immediate access (e.g., direct or unimpeded access) to a device, such as a telephone (immediately available at the scene of operation) or a hand-held two-way radio, capable of summoning external emergency assistance, unless such a device is not required under item (II) of this subpart.
- (V) Required aisle space. The small quantity generator must maintain aisle space to allow the unobstructed movement of personnel, fire protection equipment, spill control equipment, and decontamination equipment to any area of facility operation in an emergency, unless aisle space is not needed for any of these purposes.
- (VI) Arrangements with local authorities.
 - I. The small quantity generator must attempt to make arrangements with the local police department, fire department, other emergency response teams, emergency response contractors, equipment suppliers, and local hospitals, taking into account the types and quantities of hazardous wastes handled at the facility. Arrangements may be made with the Local Emergency Planning Committee if it is determined to be the appropriate organization with which to make arrangements.
 - A. A small quantity generator attempting to make arrangements with its local fire department must determine the potential need for the services of the local police department, other emergency response teams, emergency response contractors, equipment suppliers, and local hospitals.
 - B. As part of this coordination, the small quantity generator shall attempt to make arrangements, as necessary, to familiarize the organizations identified in this subitem with the layout of the facility, the properties of hazardous waste handled at the facility and associated hazards, places where facility personnel would normally be working, entrances to roads inside the facility, and possible evacuation routes as well as the types of injuries or illnesses that could result from fires, explosions, or releases at the facility.
 - C. Where more than one police or fire department might respond to an emergency, the small quantity generator shall attempt to make arrangements designating primary emergency authority to a specific fire or police department and arrangements with any others to provide support to the primary emergency authority.
 - II. A small quantity generator shall maintain records documenting the arrangements with the local fire department as well as any other organization necessary to respond to an emergency. This documentation must include documentation in the operating record that either confirms such arrangements actively exist or, in cases where no arrangements exist, confirms that attempts to make such arrangements were made.

- III. A facility possessing 24-hour response capabilities may seek a waiver from the authority having jurisdiction (AHJ) over the fire code within the facility's state or locality as far as needing to make arrangements with the local fire department as well as any other organization necessary to respond to an emergency, provided that the waiver is documented in the operating record.
- (ix) Emergency procedures. The small quantity generator must comply with the following conditions for those areas of the generator facility where hazardous waste is generated and accumulated:
 - (I) At all times there must be at least one employee either on the premises or on call (i.e., available to respond to an emergency by reaching the facility within a short period of time) with the responsibility for coordinating all emergency response measures specified in item (IV) of this subpart. This employee is the emergency coordinator.
 - (II) The small quantity generator must post the following information next to telephones or in areas directly involved in the generation and accumulation of hazardous waste:
 - I. The name and emergency telephone number of the emergency coordinator;
 - II. Location of fire extinguishers and spill control material, and, if present, fire alarm; and
 - III. The telephone number of the fire department, unless the facility has a direct alarm.
 - (III) The small quantity generator must ensure that all employees are thoroughly familiar with proper waste handling and emergency procedures relevant to their responsibilities during normal facility operations and emergencies;
 - (IV) The emergency coordinator or his designee must respond to any emergencies that arise. The applicable responses are as follows:
 - I. In the event of a fire, call the fire department or attempt to extinguish it using a fire extinguisher;
 - II. In the event of a spill, the small quantity generator is responsible for containing the flow of hazardous waste to the extent possible and, as soon as is practicable, cleaning up the hazardous waste and any contaminated materials or soil. Such containment and cleanup can be conducted either by the small quantity generator or by a contractor on behalf of the small quantity generator;
 - III. In the event of a fire, explosion, or other release that could threaten human health outside the facility, or when the small quantity generator has knowledge that a spill has reached surface water, the small quantity generator must immediately notify the National Response Center (using their 24-hour toll free number 800/424-8802). The report must include the following information:
 - A. The name, address, and U.S. EPA identification number of the small quantity generator;
 - B. Date, time, and type of incident (e.g., spill or fire);

- C. Quantity and type of hazardous waste involved in the incident;
- D. Extent of injuries, if any; and
- E. Estimated quantity and disposition of recovered materials, if any.
- 3. Transporting over 200 miles. A small quantity generator who must transport its waste, or offer its waste for transportation, over a distance of 200 miles or more for off-site treatment, storage, or disposal may accumulate hazardous waste on site for 270 days or less without a permit or without having interim status provided that the generator complies with the conditions of part 2 of this subparagraph.
- 4. Accumulation time limit extension. A small quantity generator who accumulates hazardous waste for more than 180 days (or for more than 270 days if it must transport its waste, or offer its waste for transportation, over a distance of 200 miles or more) is subject to the requirements of Rules 0400-12-01-.05 through 0400-12-01-.08 and 0400-12-01-.10 unless it has been granted an extension to the 180-day (or 270-day if applicable) period. Such extension may be granted by the Commissioner if hazardous wastes must remain on site for longer than 180 days (or 270 days if applicable) due to unforeseen, temporary, and uncontrollable circumstances. An extension of up to 30 days may be granted at the discretion of the Commissioner on a case-by-case basis.
- 5. Rejected load. A small quantity generator who sends a shipment of hazardous waste to a designated facility with the understanding that the designated facility can accept and manage the waste and later receives that shipment back as a rejected load or residue in accordance with the manifest discrepancy provisions of subparagraph (5)(c) of Rule 0400-12-01-.05 or subparagraph (5)(c) of Rule 0400-12-01-.06 may accumulate the returned waste on site in accordance with parts 1 through 4 of this subparagraph. Upon receipt of the returned shipment, the generator must:
 - (i) Sign Item 18c of the manifest, if the transporter returned the shipment using the original manifest; or
 - (ii) Sign Item 20 of the manifest, if the transporter returned the shipment using a new manifest.
- 6. A small quantity generator experiencing an episodic event may accumulate hazardous waste in accordance with paragraph (11) of this rule in lieu of subparagraph (h) of this paragraph.
- (h) Conditions for exemption for a large quantity generator that accumulates hazardous waste. [40 CFR 262.17]

A large quantity generator may accumulate hazardous waste on site without a permit or interim status, and without complying with the requirements of Rules 0400-12-01-.05 through 0400-12-01-.07, and 0400-12-01-.09, provided that all of the following conditions for exemption are met:

- 1. Accumulation. A large quantity generator accumulates hazardous waste on site for no more than 90 days, unless in compliance with the accumulation time limit extension or F006 accumulation conditions for exemption in parts 2 through 5 of this subparagraph. The following accumulation conditions also apply:
 - (i) Accumulation of hazardous waste in containers. If the hazardous waste is placed in containers, the large quantity generator must comply with the following:
 - (I) Air emission standards. The applicable requirements of paragraphs (27), (28), and (29) of Rule 0400-12-01-.05;

- (II) Condition of containers. If a container holding hazardous waste is not in good condition, or if it begins to leak, the large quantity generator must immediately transfer the hazardous waste from this container to a container that is in good condition, or immediately manage the waste in some other way that complies with the conditions for exemption of this part;
- (III) Compatibility of waste with container. The large quantity generator must use a container made of or lined with materials that will not react with, and are otherwise compatible with, the hazardous waste to be stored, so that the ability of the container to contain the waste is not impaired;
- (IV) Management of containers.
 - I. A container holding hazardous waste must always be closed during accumulation, except when it is necessary to add or remove waste.
 - II. A container holding hazardous waste must not be opened, handled, or stored in a manner that may rupture the container or cause it to leak.
- (V) Inspections.
 - I. At least weekly, the large quantity generator must inspect central accumulation areas. The large quantity generator must look for leaking containers and for deterioration of containers caused by corrosion or other factors. See item (II) of this subpart for remedial action required if deterioration or leaks are detected.
 - II. The large quantity generator must record inspections required by subitem I of this item in an inspection log or summary. The large quantity generator must keep these records for at least three years from the date of inspection. At a minimum, these records must include the date and time of the inspection, the name of the inspector, a notation of the observations made, and the date and nature of any repairs or other remedial actions.
- (VI) Special conditions for accumulation of ignitable and reactive wastes.
 - I. Containers holding ignitable or reactive waste must be located at least 15 meters (50 feet) from the facility's property line unless a written approval is obtained from the authority having jurisdiction over the local fire code allowing hazardous waste accumulation to occur within this restricted area. A record of the written approval must be maintained as long as ignitable or reactive hazardous waste is accumulated in this area.
 - II. The large quantity generator must take precautions to prevent accidental ignition or reaction of ignitable or reactive waste. This waste must be separated and protected from sources of ignition or reaction including but not limited to the following: Open flames, smoking, cutting and welding, hot surfaces, frictional heat, sparks (static, electrical, or mechanical), spontaneous ignition (e.g., from heat-producing chemical reactions), and radiant heat. While ignitable or reactive waste is being handled, the large quantity generator must confine smoking and open flame to specially designated locations. "No Smoking" signs must be conspicuously placed wherever there is a hazard from ignitable or reactive waste.

- (VII) Special conditions for accumulation of incompatible wastes.
 - I. Incompatible wastes, or incompatible wastes and materials, (see appendix V of paragraph (53) of Rule 0400-12-01-.05 for examples) must not be placed in the same container, unless part (2)(h)2 of Rule 0400-12-01-.05 is complied with.
 - II. Hazardous waste must not be placed in an unwashed container that previously held an incompatible waste or material (see appendix V of paragraph (53) of Rule 0400-12-01-.05 for examples), unless part (2)(h)2 of Rule 0400-12-01-.05 is complied with.
 - III. A container holding a hazardous waste that is incompatible with any waste or other materials accumulated or stored nearby in other containers, piles, open tanks, or surface impoundments must be separated from the other materials or protected from them by means of a dike, berm, wall, or other device.
- (ii) Accumulation of hazardous waste in tanks.
 - If the waste is placed in tanks, the large quantity generator must comply with the applicable requirements of paragraph (10) of Rule 0400-12-01-.05, except part (10)(h)3 of Rule 0400-12-01-.05 (closure and post-closure care) and subparagraph (10)(k) of Rule 0400-12-01-.05 (waste analysis and trial tests), as well as the applicable requirements of paragraph (27), (28), and (29) of Rule 0400-12-01-.05.
 - (II) The large quantity generator must record inspections required by item (I) of this subpart which required compliance with subparagraph (10)(f) of Rule 0400-12-01-.05 in an inspection log or summary. The large quantity generator must keep these records for at least three years from the date of inspection. At a minimum, these records must include the date and time of the inspection, the name of the inspector, a notation of the observations made, and the date and nature of any repairs or other remedial actions.
- (iii) Accumulation of hazardous waste on drip pads. If the hazardous waste is placed on drip pads, the large quantity generator must comply with the following:
 - (I) Paragraph (23) of Rule 0400-12-01-.05;
 - (II) The large quantity generator must remove all wastes from the drip pad at least once every 90 days. Any hazardous wastes that are removed from the drip pad are then subject to the 90-day accumulation limit in this part and subparagraph (f) of this paragraph, if the hazardous wastes are being managed in satellite accumulation areas prior to being moved to a central accumulation area; and
 - (III) The large quantity generator must maintain on site at the facility the following records readily available for inspection:
 - I. A written description of procedures that are followed to ensure that all wastes are removed from the drip pad and associated collection system at least once every 90 days;
 - II. Documentation of each waste removal, including the quantity of waste removed from the drip pad and the sump or collection system and the date and time of removal; and

- III. The records of inspections required by part (23)(e)2 of Rule 0400-12-01-.05, as incorporated by reference by item (I) of this subpart, in an inspection log or summary. The large quantity generator must keep these records for at least three years from the date of inspection. At a minimum, these records must include the date and time of the inspection, the name of the inspector, a notation of the observations made, and the date and nature of any repairs or other remedial actions.
- (iv) Accumulation of hazardous waste in containment buildings. If the waste is placed in containment buildings, the large quantity generator must comply with paragraph (30) of Rule 0400-12-01-.05. The generator must label its containment building with the words "Hazardous Waste" in a conspicuous place easily visible to employees, visitors, emergency responders, waste handlers, or other persons on site, and also in a conspicuous place provide an indication of the hazards of the contents (examples include, but are not limited to, the applicable hazardous waste characteristic(s) (i.e., ignitable, corrosive, reactive, toxic); hazard communication consistent with the Department of Transportation requirements at 49 CFR part 172 subpart E (labeling) or subpart F (placarding); a hazard statement or pictogram consistent with the Occupational Safety and Health Administration Hazard Communication Standard at 29 CFR 1910.1200; or a chemical hazard label consistent with the National Fire Protection Association code 704). The generator must also maintain:
 - The professional engineer certification that the building complies with the design standards specified in subparagraph (30)(b) of Rule 0400-12-01-.05. This certification must be in the generator's files prior to operation of the unit; and
 - (II) The following records by use of inventory logs, monitoring equipment, or any other effective means:
 - I. A written description of procedures to ensure that each waste volume remains in the unit for no more than 90 days, a written description of the waste generation and management practices for the facility showing that the generator is consistent with respecting the 90-day limit, and documentation that the procedures are complied with; or
 - II. Documentation that the unit is emptied at least once every 90 days.
 - (III) Inventory logs or records with the information required by subitems (II)I and (II)II of this subpart and required by subpart (30)(b)3(iv) of Rule 0400-12-01-.05, as incorporated by reference by this subpart, must be maintained on site and readily available for inspection.
- (v) Labeling and marking of containers and tanks
 - (I) Containers. A large quantity generator must mark or label its containers with the following:
 - I. The words "Hazardous Waste";
 - II. An indication of the hazards of the contents (examples include, but are not limited to, the applicable hazardous waste characteristic(s) (i.e., ignitable, corrosive, reactive, toxic); hazard communication consistent with the Department of Transportation requirements at 49 CFR part 172 subpart E (labeling) or subpart F (placarding); a hazard statement or pictogram consistent with the Occupational Safety and Health Administration Hazard

Communication Standard at 29 CFR 1910.1200; or a chemical hazard label consistent with the National Fire Protection Association code 704); and

- III. The date upon which each period of accumulation begins clearly visible for inspection on each container.
- (II) Tanks. A large quantity generator accumulating hazardous waste in tanks must do the following:
 - I. Mark or label its tanks with the words "Hazardous Waste";
 - II. Mark or label its tanks with an indication of the hazards of the contents (examples include, but are not limited to, the applicable hazardous waste characteristic(s) (i.e., ignitable, corrosive, reactive, toxic); hazard communication consistent with the Department of Transportation requirements at 49 CFR part 172 subpart E (labeling) or subpart F (placarding); a hazard statement or pictogram consistent with the Occupational Safety and Health Administration Hazard Communication Standard at 29 CFR 1910.1200; or a chemical hazard label consistent with the National Fire Protection Association code 704);
 - III. Use inventory logs, monitoring equipment, or other records to demonstrate that hazardous waste has been emptied within 90 days of first entering the tank if using a batch process, or in the case of a tank with a continuous flow process, demonstrate that estimated volumes of hazardous waste entering the tank daily exit the tank within 90 days of first entering; and
 - IV. Keep inventory logs or records with the information required by subitem III of this item on site and readily available for inspection.
- (vi) Emergency procedures. The large quantity generator complies with the standards in paragraph (12) of this rule, Preparedness, Prevention and Emergency Procedures for Large Quantity Generators.
- (vii) Personnel training.
 - (I) I. Facility personnel must successfully complete a program of classroom instruction, online training (e.g., computer-based or electronic), or on-the-job training that teaches them to perform their duties in a way that ensures compliance with this part. The large quantity generator must ensure that this program includes all the elements described in the document required under item (IV) of this subpart.
 - II. This program must be directed by a person trained in hazardous waste management procedures and must include instruction which teaches facility personnel hazardous waste management procedures (including contingency plan implementation) relevant to the positions in which they are employed.
 - III. At a minimum, the training program must be designed to ensure that facility personnel are able to respond effectively to emergencies by familiarizing them with emergency procedures, emergency equipment, and emergency systems, including where applicable:

- A. Procedures for using, inspecting, repairing, and replacing facility emergency and monitoring equipment;
- B. Key parameters for automatic waste feed cut-off systems;
- C. Communications or alarm systems;
- D. Response to fires or explosions;
- E. Response to ground-water contamination incidents; and
- F. Shutdown of operations.
- IV. For facility employees that receive emergency response training pursuant to Occupational Safety and Health Administration regulations 29 CFR 1910.120(p)(8) and 1910.120(q), the large quantity generator is not required to provide separate emergency response training pursuant to this subpart, provided that the overall facility training meets all the conditions of exemption in this subpart.
- (II) Facility personnel must successfully complete the program required in item (I) of this subpart within six months after the date of their employment or assignment to the facility, or to a new position at the facility, whichever is later. Employees must not work in unsupervised positions until they have completed the training standards of item (I) of this subpart.
- (III) Facility personnel must take part in an annual review of the initial training required in item (I) of this subpart.
- (IV) The large quantity generator must maintain the following documents and records at the facility:
 - I. The job title for each position at the facility related to hazardous waste management, and the name of the employee filling each job;
 - II. A written job description for each position listed under subitem I of this item. This description may be consistent in its degree of specificity with descriptions for other similar positions in the same company location or bargaining unit, but must include the requisite skill, education, or other qualifications, and duties of facility personnel assigned to each position;
 - III. A written description of the type and amount of both introductory and continuing training that will be given to each person filling a position listed under subitem I of this item;
 - IV. Records that document that the training or job experience, required under items (I), (II), and (III) of this subpart, has been given to, and completed by, facility personnel.
- (V) Training records on current personnel must be kept until closure of the facility. Training records on former employees must be kept for at least three years from the date the employee last worked at the facility. Personnel training records may accompany personnel transferred within the same company.

- (viii) Closure. A large quantity generator accumulating hazardous wastes in containers, tanks, drip pads, and containment buildings, prior to closing a unit at the facility, or prior to closing the facility, must meet the following conditions:
 - (I) Notification for closure of a waste accumulation unit. A large quantity generator must perform one of the following when closing a waste accumulation unit:
 - I. Place a notice in the operating record within 30 days after closure identifying the location of the unit within the facility; or
 - II. Meet the closure performance standards of item (III) of this subpart for container, tank, and containment building waste accumulation units or item (IV) of this subpart for drip pads and notify the Commissioner following the procedures in subitem (II)II of this subpart for the waste accumulation unit.

If the waste accumulation unit is subsequently reopened, the generator may remove the notice from the operating record.

- (II) Notification for closure of the facility.
 - I. Notify the Commissioner using a form provided by the Commissioner no later than 30 days prior to closing the facility. The form must be completed according to the instructions accompanying it.
 - II. Notify the Commissioner using a form provided by the Commissioner and completed according to the instructions accompanying it within 90 days after closing the facility that it has complied with the closure performance standards of items (III) or (IV) of this subpart. If the facility cannot meet the closure performance standards of items (III) or (IV) of this subpart, notify the Commissioner using a form provided by the Commissioner and completed according to the instructions accompanying it that it will close as a landfill under subparagraph (14)(k) of Rule 0400-12-01-.05 in the case of a container, tank, or containment building unit(s), or for a facility with drip pads, notify using a form provided by the Commissioner and completed according to the instructions accompanying it that it will close under the standards of part (23)(f)2 of Rule 0400-12-01-.05.
 - III. A large quantity generator may request additional time to clean close, but it must notify Commissioner using a form provided by the Commissioner and completed according to the instructions accompanying it within 75 days after the date provided in subitem I of this item to request an extension and provide an explanation as to why the additional time is required.

(Note: For the purpose of this subpart, to clean close means complying with the closure performance standards of item (III) of this subpart for container, tank, and containment building waste accumulation units or item (IV) of this subpart for drip pads.)

- (III) Closure performance standards for container, tank systems, and containment building waste accumulation units.
 - I. At closure, the generator must close the waste accumulation unit or facility in a manner that:

- A. Minimizes the need for further maintenance by controlling, minimizing, or eliminating, to the extent necessary to protect human health and the environment, the post-closure escape of hazardous waste, hazardous constituents, leachate, contaminated run-off, or hazardous waste decomposition products to the ground, surface waters, or to the atmosphere,
- B. Removes or decontaminates all contaminated equipment, structures, and soil and any remaining hazardous waste residues from waste accumulation units including containment system components (pads, liners, etc.), contaminated soils and subsoils, bases, and structures and equipment contaminated with waste, unless part (1)(c)4 of Rule 0400-12-01-.02 applies.
- II. Any hazardous waste generated in the process of closing either the generator's facility or unit(s) accumulating hazardous waste must be managed in accordance with all applicable standards of this rule and Rules 0400-12-01-.04, 0400-12-01-.05, and 0400-12-01-.10, including removing any hazardous waste contained in these units within 90 days of generating it and managing these wastes in a RCRA Subtitle C or equivalent hazardous waste permitted treatment, storage, and disposal facility or interim status facility.
- III. If the generator demonstrates that any contaminated soils and wastes cannot be practicably removed or decontaminated as required in section B of this subitem, then the waste accumulation unit is considered to be a landfill, and the generator must close the waste accumulation unit and perform post-closure care in accordance with the closure and postclosure care requirements that apply to landfills (subparagraph (14)(k) of Rule 0400-12-01-.05). In addition, for the purposes of closure, post-closure, and financial responsibility, such a waste accumulation unit is then considered to be a landfill, and the generator must meet all of the requirements for landfills specified in paragraphs (7) and (8) of Rule 0400-12-01-.05.
- (IV) Closure performance standards for drip pad waste accumulation units. At closure, the generator must comply with the closure requirements of item (II) of this subpart, sections (III)I A and C of this subpart, and parts (23)(k)1 and 2 of Rule 0400-12-01-.05.
- (V) The closure requirements of this subpart do not apply to satellite accumulation areas.
- (ix) Land disposal restrictions. The large quantity generator must comply with all applicable requirements under Rule 0400-12-01-.10.
- 2. Accumulation time limit extension. A large quantity generator who accumulates hazardous waste for more than 90 days is subject to the requirements of Rules 0400-12-01-.05 through 0400-12-01-.10, unless it has been granted an extension to the 90-day period. Such extension may be granted by the Commissioner if hazardous wastes must remain on site for longer than 90 days due to unforeseen, temporary, and uncontrollable circumstances. An extension of up to 30 days may be granted at the discretion of the Commissioner on a case-by-case basis.
- 3. Accumulation of F006. A large quantity generator who also generates wastewater treatment sludges from electroplating operations that meet the listing description for the EPA hazardous waste number $F006_{\tau}$ may accumulate F006 waste on site for more than

90 days, but not more than 180 days, without being subject to Rules 0400-12-01-.05 through 0400-12-01-07 and 0400-12-01-.09, provided that it complies with all of the following additional conditions for exemption:

- (i) The large quantity generator has implemented pollution prevention practices that reduce the amount of any hazardous substances, pollutants, or contaminants entering F006 or otherwise released to the environment prior to its recycling;
- (ii) The F006 waste is legitimately recycled through metals recovery;
- (iii) No more than 20,000 kilograms of F006 waste is accumulated on site at any one time; and
- (iv) The F006 waste is managed in accordance with the following:
 - (I) I. If the F006 waste is placed in containers, the large quantity generator must comply with the applicable conditions for exemption in subpart 1(i) of this subparagraph; and/or
 - II. If the F006 is placed in tanks, the large quantity generator must comply with the applicable conditions for exemption of subpart 1(ii) of this subparagraph; and/or
 - III. If the F006 is placed in containment buildings, the large quantity generator must comply with paragraph (30) of Rule 0400-12-01-.05 and must have placed its professional engineer certification that the building complies with the design standards specified in subparagraph (30)(b) of Rule 0400-12-01-.05 in the facility's files prior to operation of the unit. The large quantity generator must maintain the following records:
 - A. A written description of procedures to ensure that the F006 waste remains in the unit for no more than 180 days, a written description of the waste generation and management practices for the facility showing that they are consistent with the 180-day limit, and documentation that the large quantity generator is complying with the procedures; or
 - B. Documentation that the unit is emptied at least once every 180 days.
 - (II) The large quantity generator is exempt from all the requirements in paragraphs (7) and (8) of Rule 0400-12-01-.05, except for those referenced in subpart 1(viii) of this subparagraph.
 - (III) The date upon which each period of accumulation begins is clearly marked and must be clearly visible for inspection on each container;
 - (IV) While being accumulated on site, each container and tank is labeled or marked clearly with:
 - I. The words "Hazardous Waste"; and
 - II. An indication of the hazards of the contents (examples include, but are not limited to, the applicable hazardous waste characteristic(s) (i.e., ignitable, corrosive, reactive, toxic); hazard communication consistent with the Department of Transportation requirements at 49 CFR part 172 subpart E (labeling) or subpart F (placarding); a hazard statement or pictogram consistent with the Occupational Safety and Health Administration Hazard

Communication Standard at 29 CFR 1910.1200; or a chemical hazard label consistent with the National Fire Protection Association code 704).

- (V) The large quantity generator complies with the requirements in subparts 1(vi) and (vii) of this subparagraph.
- 4. F006 transported over 200 miles. A large quantity generator who also generates wastewater treatment sludges from electroplating operations that meet the listing description for the EPA hazardous waste number F006, and who must transport this waste, or offer this waste for transportation, over a distance of 200 miles or more for off-site metals recovery, may accumulate F006 waste on site for more than 90 days, but not more than 270 days, without being subject to Rules 0400-12-01-.05 through 0400-12-01-.07 and 0400-12-01-.09, if the large quantity generator complies with all of the conditions for exemption of subparts 3(i) through (iv) of this subparagraph.
- 5. F006 accumulation time extension. A large quantity generator accumulating F006 in accordance with parts 3 and 4 of this subparagraph who accumulates F006 waste on site for more than 180 days (or for more than 270 days if the generator must transport this waste, or offer this waste for transportation, over a distance of 200 miles or more), or who accumulates more than 20,000 kilograms of F006 waste on site is an operator of a storage facility and is subject to the requirements of Rules 0400-12-01-.05 through 0400-12-01-.08, unless the generator has been granted an extension to the 180-day (or 270-day if applicable) period or an exception to the 20,000 kilogram accumulation limit. Such extensions and exceptions may be granted by the Commissioner if F006 waste must remain on site for longer than 180 days (or 270 days if applicable) or if more than 20,000 kilograms of F006 waste must remain on site for longer than 180 days (or 270 days if applicable) or if more than 20,000 kilograms of F006 waste must remain on site for longer than 180 days (or 270 days if applicable) or if more than 20,000 kilograms of F006 waste must remain on site due to unforeseen, temporary, and uncontrollable circumstances. An extension of up to 30 days or an exception to the accumulation limit may be granted at the discretion of the Commissioner on a case-by-case basis.
- 6. Consolidation of hazardous waste received from very small quantity generators. Large quantity generators may accumulate on site hazardous waste received from very small quantity generators under control of the same person (as defined in subparagraph (2)(a) of Rule 0400-12-01-.01) without a storage permit or interim status and without complying with the requirements of Rules 0400-12-01-.05 through 0400-12-01-.07, 0400-12-01-.09, and 0400-12-01-.10, provided that they comply with the following conditions. "Control," for the purposes of this part, means the power to direct the policies of the generator, whether by the ownership of stock, voting rights, or otherwise, except that contractors who operate generator facilities on behalf of a different person shall not be deemed to "control" such generators.
 - The large quantity generator notifies the Commissioner at least 30 days prior to receiving the first shipment from a very small quantity generator(s) using a form provided by the Commissioner and completed according to the instructions accompanying it; and
 - Identifies on the form the name(s) and site address(es) for the very small quantity generator(s) as well as the name and business telephone number for a contact person for the very small quantity generator(s); and
 - (II) Submits an updated notification form provided by the Commissioner within 30 days after a change in the name or site address for the very small quantity generator.
 - (ii) The large quantity generator maintains records of shipments for three years from the date the hazardous waste was received from the very small quantity generator. These records must identify the name, site address, and contact information for the very small quantity generator and include a description of the hazardous waste received, including the quantity and the date the waste was received.

(iii) The large quantity generator complies with the independent requirements identified in subitem (a)2(i)(I)III of this paragraph and the conditions for exemption in this part for all hazardous waste received from a very small quantity generator. For purposes of the labeling and marking regulations in subpart 1(v) of this subparagraph, the large quantity generator must label the container or unit with the date accumulation started (i.e., the date the hazardous waste was received from the very small quantity generator). If the large quantity generator with either its own hazardous waste or with hazardous waste from other very small quantity generators, the large quantity generator must label each container or unit with the earliest date any hazardous waste in the container was accumulated on site.

- 7. Rejected load. A large quantity generator who sends a shipment of hazardous waste to a designated facility with the understanding that the designated facility can accept and manage the waste and later receives that shipment back as a rejected load or residue in accordance with the manifest discrepancy provisions of subparagraph (5)(c) of Rule 0400-12-01-.05 or subparagraph (5)(c) of Rule 0400-12-01-.06 may accumulate the returned waste on site in accordance with parts 1 and 2 of this subparagraph. Upon receipt of the returned shipment, the generator must:
 - (i) Sign Item 18c of the manifest, if the transporter returned the shipment using the original manifest; or
 - (ii) Sign Item 20 of the manifest, if the transporter returned the shipment using a new manifest.
- (i) EPA identification numbers for small quantity generators and large quantity generators. [40 CFR 262.18]
 - 1. A generator must not treat, store, dispose of, transport, or offer for transportation, hazardous waste without having received an EPA identification number from the Commissioner.
 - 2. A generator who has not received an EPA identification number may obtain one by applying to the Commissioner pursuant to paragraph (2) of this rule. Upon receiving the request, the Commissioner will assign an EPA identification number to the generator.
 - 3. A generator must not offer its hazardous waste to transporters who do not have a valid hazardous waste permit from the Department to transport hazardous waste in Tennessee (see paragraph (2) of Rule 0400-12-01-.04), or to treatment, storage, or disposal facilities that have not received an EPA identification number.
 - 4. A recognized trader must not arrange for import or export of hazardous waste without having received an EPA identification number from the Administrator.

(2) Notification

- (a) Applicability
 - 1. Each person who meets the definition, in subparagraph (2)(a) of Rule 0400-12-01-.01, of large quantity generator or small quantity generator must notify the Commissioner, describing the hazardous wastes and the generator's activities regarding them according to subparagraphs (b) through (e) of this paragraph, except as parts 2 and 3 of this subparagraph, parts (1)(d)1, 2, 4, 5, 7, and 8 of Rule 0400-12-01-.02, and subparagraph (1)(g) of Rule 0400-12-01-.02 provide otherwise.
 - 2. A person shall not be required to notify with regard to each individual hazardous waste stream generated which is piped along with other wastes to an on-site wastewater treatment facility or piped to a publicly owned treatment works (POTW) for treatment.

However, if the conglomerate waste stream delivered by the collection system to the onsite wastewater treatment facility or to the POTW is a hazardous waste as defined in subparagraph (1)(c) of Rule 0400-12-01-.02, then the generator must notify with regard to that waste stream and file an annual report in accordance with subparagraph (5)(b) of this rule.

3. A generator shall not be required to notify with regard to those hazardous wastes generated by analytical laboratory operations which are properly (i.e., in accordance with safe disposal procedures and local sewer use ordinances) discharged to the collection sewer system of a publicly-owned treatment works.

(Comment: This exclusion from notification requirements is not intended to encourage the discharge of hazardous waste to a sewer nor does it exclude the laboratory from having to comply with federal, state, or local pretreatment or sewer use requirements.)

(b) Existing Generators

Except as subparagraph (a) of this paragraph provides otherwise, a person who is a generator of a waste on the effective date of the regulations established under Rule 0400-12-01-.02 which identify that waste as a hazardous waste subject to the requirements of this paragraph, must notify the Commissioner within 90 days of that date. Such notification must be submitted on generator notification forms provided by the Commissioner. The form must be completed according to the instructions accompanying it.

(c) New Generators

Except as subparagraphs (a) and (e) of this paragraph provide otherwise, a person who becomes a generator of a waste after the effective date of regulations established under Rule 0400-12-01-.02 which identify that waste as a hazardous waste subject to the requirements of this paragraph, must notify the Commissioner within 90 days after the date of initial generation. Such notification must be submitted on generator notification forms provided by the Commissioner. The form must be completed according to the instructions accompanying it.

- (d) Changes in Generator Data
 - 1. Small and large quantity generators shall be responsible for maintaining an up-to-date notification file by:
 - Re-notifying the the Commissioner of the following changes in the information submitted within 30 days after such changes by revising or submitting the appropriate notification forms, completed according to the instructions for completing the form:
 - (I) Change in ownership of the person generating the hazardous waste;

(Note: See part (5)(b)2 of this rule for additional requirements for the submission of an annual report due to a change of ownership.)

(II) Change in mailing address, but not the site location;

(Note: A change in site location makes the generator subject to subparagraph (c) of this paragraph.)

- (III) Change in the mailing point of contact; and
- (IV) Generating a new hazardous waste stream; and

(Note: The Department shall, upon request, grant up to 60 days additional time in cases where retesting of the waste is deemed necessary.)

- (ii) Reviewing the most current notification information on file with the Commissioner, as made available by the Commissioner with the annual report, correcting inaccurate data or supplying all the information needed to ensure the Commissioner is maintaining an accurate notification file. The updated or corrected information shall be returned to the Commissioner by March 1st following the receipt of the notification information on file or as instructed otherwise by the Commissioner.
- 2. A generator planning to cease operating and close the facility, or to cease operating at one site and move to another site, shall notify the Commissioner 30 days prior to ceasing to operate, submit a final annual report in accordance with part (5)(b)2 of this rule, and pay any applicable fees.
- 3. If ceasing to operate and close the facility, or ceasing to operate at one site to move to another site was not foreseen, the generator shall notify the Commissioner within 30 days of ceasing to operate, submit a final annual report in accordance with part (5)(b)2 of this rule, and pay any applicable fees.
- (e) Special Cases

Except as subparagraph (a) of this paragraph provides otherwise:

- 1. Persons who generate hazardous wastes at more than one location in Tennessee shall file notification for each such generating location.
- 2. A group of generating installations located at a single site under the ownership or operation of one person may file a single notification.
- (3) Manifest Requirements Applicable to Small and Large Quantity Generators [40 CFR 262 Subpart B]
 - (a) General Requirements [40 CFR 262.20]
 - 1. (i) A generator who transports, or offers for transport, a hazardous waste for offsite treatment, storage or disposal or a treatment, storage, and disposal facility that offers for transport a rejected hazardous waste load, must prepare a Manifest (OMB Control Number 2050-0039) on EPA Form 8700-22, and, if necessary, EPA Form 8700-22A.
 - (ii) The revised Manifest form and procedures in subparagraph (2)(a) of Rule 0400-12-01-.01, subparagraph (1)(g) of Rule 0400-12-01-.02, subparagraphs (3)(a), (3)(b), (3)(h), (4)(c), (4)(e), (6)(e), and (7)(a) of this rule shall become effective September 5, 2006.
 - (iii) Electronic manifest.

In lieu of using the manifest form specified in subpart (i) of this part, a person required to prepare a manifest under subpart (i) of this part may prepare and use an electronic manifest, provided that the person:

- (I) Complies with the requirements in subparagraph (e) of this paragraph for use of electronic manifests, and
- (II) Complies with the requirements of 40 CFR 3.10 for the reporting of electronic documents to EPA.
- 2. A generator must designate on the Manifest one facility which is permitted to handle the waste described on the Manifest.
- 3. A generator may also designate on the Manifest one alternate facility which is permitted to handle his waste in the event an emergency prevents delivery of the waste to the primary designated facility.

- 4. If the transporter is unable to deliver the hazardous waste to the designated facility or the alternate facility, the generator must either designate another facility or instruct the transporter to return the waste.
- 5. The requirements of this paragraph do not apply to hazardous waste produced by generators of greater than 100 kg but less than 1000 kg in a calendar month where:
 - (i) The waste is reclaimed under a contractual agreement pursuant to which:
 - (I) The type of waste and frequency of shipments are specified in the agreement;
 - (II) The vehicle used to transport the waste to the recycling facility and to deliver regenerated material back to the generator is owned and operated by the reclaimer of the waste; and
 - (ii) The generator maintains a copy of the reclamation agreement in his files for a period of at least three years after termination or expiration of the agreement.
- 6. The requirements of this paragraph and part (4)(c)2 of this rule do not apply to the transport of hazardous wastes on a public or private right-of-way within or along the border of contiguous property under the control of the same person, even if such contiguous property is divided by a public or private right-of-way. Notwithstanding part (1)(a)1 of Rule 0400-12-01-.04, the generator or transporter must comply with the requirements for transporters set forth in subparagraphs (4)(a) and (b) of Rule 0400-12-01-.04 in the event of a discharge of hazardous waste on a public or private right-of-way.
- (b) Manifest Tracking Numbers, Manifest Printing, and Obtaining Manifests [40 CFR 262.21]
 - 1. The Manifest to be used must be issued by EPA or approved by the EPA Director of the Office of Solid Waste as set forth in 40 CFR 262.21.

(Note: 40 CFR 262.21 provides that:

- (a) (1) A registrant may not print, or have printed, the manifest for use or distribution unless it has received approval from the EPA Director of the Office of Solid Waste to do so under paragraphs (c) and (e) of this section.
 - (2) The approved registrant is responsible for ensuring that the organizations identified in its application are in compliance with the procedures of its approved application and the requirements of this section. The registrant is responsible for assigning manifest tracking numbers to its manifests.
- (b) A registrant must submit an initial application to the EPA Director of the Office of Solid Waste that contains the following information:
 - (1) Name and mailing address of registrant;
 - (2) Name, telephone number and email address of contact person;
 - (3) Brief description of registrant's government or business activity;
 - (4) EPA identification number of the registrant, if applicable;
 - (5) Description of the scope of the operations that the registrant plans to undertake in printing, distributing, and using its manifests, including:

- (i) A description of the printing operation. The description should include an explanation of whether the registrant intends to print its manifests in-house (i.e., using its own printing establishments) or through a separate (i.e., unaffiliated) printing company. If the registrant intends to use a separate printing company to print the manifest on its behalf, the application must identify this printing company and discuss how the registrant will oversee the company. If this includes the use of intermediaries (e.g., prime and subcontractor relationships), the role of each must be discussed. The application must provide the name and mailing address of each company. It also must provide the name and telephone number of the contact person at each company.
- (ii) A description of how the registrant will ensure that its organization and unaffiliated companies, if any, comply with the requirements of this section. The application must discuss how the registrant will ensure that a unique manifest tracking number will be pre-printed on each manifest. The application must describe the internal control procedures to be followed by the registrant and unaffiliated companies to ensure that numbers are tightly controlled and remain unique. In particular, the application must describe how the registrant will assign manifest tracking numbers to its manifests. If computer systems or other infrastructure will be used to maintain, track, or assign numbers, these should be indicated. The application must also indicate how the printer will pre-print a unique number on each form (e.g., crash or press numbering). The application also must explain the other quality procedures to be followed by each establishment and printing company to ensure that all required print specifications are consistently achieved and that printing violations are identified and corrected at the earliest practicable time.
- (iii) An indication of whether the registrant intends to use the manifests for its own business operations or to distribute the manifests to a separate company or to the general public (e.g., for purchase).
- (6) A brief description of the qualifications of the company that will print the manifest. The registrant may use readily available information to do so (e.g., corporate brochures, product samples, customer references, documentation of ISO certification), so long as such information pertains to the establishments or company being proposed to print the manifest.
- (7) Proposed unique three-letter manifest tracking number suffix. If the registrant is approved to print the manifest, the registrant must use this suffix to pre-print a unique manifest tracking number on each manifest.
- (8) A signed certification by a duly authorized employee of the registrant that the organizations and companies in its application will comply with the procedures of its approved application and the requirements of this Section and that it will notify the EPA Director of the Office of Solid Waste of any duplicated manifest tracking numbers on manifests that have been used or distributed to other parties as soon as this becomes known.
- (c) EPA will review the application submitted under paragraph (b) of this section and either approve it or request additional information or modification before approving it.

- (d) (1) Upon EPA approval of the application under paragraph (c) of this section, EPA will provide the registrant an electronic file of the manifest, continuation sheet, and manifest instructions and ask the registrant to submit three fully assembled manifests and continuation sheet samples, except as noted in paragraph (d)(3) of this section. The registrant's samples must meet all of the specifications in paragraph (f) of this section and be printed by the company that will print the manifest as identified in the application approved under paragraph (c) of this section.
 - (2) The registrant must submit a description of the manifest samples as follows:
 - (i) Paper type (i.e., manufacturer and grade of the manifest paper);
 - (ii) Paper weight of each copy;
 - (iii) Ink color of the manifest's instructions. If screening of the ink was used, the registrant must indicate the extent of the screening; and
 - (iv) Method of binding the copies.
 - (3) The registrant need not submit samples of the continuation sheet if it will print its continuation sheet using the same paper type, paper weight of each copy, ink color of the instructions, and binding method as its manifest form samples.
- (e) EPA will evaluate the forms and either approve the registrant to print them as proposed or request additional information or modification to them before approval. EPA will notify the registrant of its decision by mail. The registrant cannot use or distribute its forms until EPA approves them. An approved registrant must print the manifest and continuation sheet according to its application approved under paragraph (c) of this section and the manifest specifications in paragraph (f) of this section. It also must print the forms according to the paper type, paper weight, ink color of the manifest instructions and binding method of its approved forms.
- (f) Paper manifests and continuation sheets must be printed according to the following specifications:
 - (1) The manifest and continuation sheet must be printed with the exact format and appearance as EPA Forms 8700–22 and 8700–22A, respectively. However, information required to complete the manifest may be pre-printed on the manifest form.
 - (2) A unique manifest tracking number assigned in accordance with a numbering system approved by EPA must be pre-printed in Item 4 of the manifest. The tracking number must consist of a unique three-letter suffix following nine digits.
 - (3) The manifest and continuation sheet must be printed on 8 1/2 x 11-inch white paper, excluding common stubs (e.g., top- or side-bound stubs). The paper must be durable enough to withstand normal use.
 - (4) The manifest and continuation sheet must be printed in black ink that can be legibly photocopied, scanned, and faxed, except that the marginal words indicating copy distribution must be printed with a distinct ink color or with another method (e.g., white text against black background in text box, or, black text against grey background in text box) that clearly distinguishes the copy distribution notations from the other text and data entries on the form.

- (5) The manifest and continuation sheet must be printed as five-copy forms. Copy-to-copy registration must be exact within 1/32nd of an inch. Handwritten and typed impressions on the form must be legible on all five copies. Copies must be bound together by one or more common stubs that reasonably ensure that they will not become detached inadvertently during normal use.
- (6) Each copy of the manifest and continuation sheet must indicate how the copy must be distributed, as follows:
 - (i) Page 1 (top copy): "Designated facility to EPA's e-Manifest system.
 - (ii) Page 2: "Designated facility to generator".
 - (iii) Page 3: "Designated facility copy".
 - (iv) Page 4: "Transporter copy".
 - (v) Page 5: (bottom copy): "Generator's initial copy".
- (7) The instructions for the manifest form (EPA Form 8700-22) and the manifest continuation sheet (EPA Form 8700-22A) shall be printed in accordance with the content that is currently approved under OMB Control Number 2050-0039 and published to the e-Manifest program's website. The instructions must appear legibly on the back of the copies of the manifest and continuation sheet as provided in this paragraph (f). The instructions must not be visible through the front of the copies when photocopied or faxed.
 - (i) Manifest Form 8700–22.
 - (A) The "Instructions for Generators" on Copy 5;
 - (B) The "Instructions for International Shipment Block" and "Instructions for Transporters" on Copy 4; and
 - (C) The "Instructions for Treatment, Storage, and Disposal Facilities" on Copy 3.
 - (ii) Manifest Form 8700–22A.
 - (A) The "Instructions for Generators" on Copy 5;
 - (B) The "Instructions for Transporters" on Copy 4; and
 - (C) The "Instructions for Treatment, Storage, and Disposal Facilities" on Copy 3.
- (8) The designated facility copy of each manifest and continuation sheet must include in the bottom margin the following warning in prominent font: "If you received this manifest, you have responsibilities under the e-Manifest Act. See instructions on reverse side."
- (g) (1) A generator may use manifests printed by any source so long as the source of the printed form has received approval from EPA to print the manifest under paragraphs (c) and (e) of this section. A registered source may be a:
 - (i) State agency;

- (ii) Commercial printer;
- (iii) Hazardous waste generator, transporter or TSDF; or
- (iv) Hazardous waste broker or other preparer who prepares or arranges shipments of hazardous waste for transportation.
- (2) A generator must determine whether the generator state or the consignment state for a shipment regulates any additional wastes (beyond those regulated Federally) as hazardous wastes under these states' authorized programs. Generators also must determine whether the consignment state or generator state requires the generator to submit any copies of the manifest to these states. In cases where the generator must supply copies to either the generator's state or the consignment state, the generator is responsible for supplying legible photocopies of the manifest to these states.
- (h) (1) If an approved registrant would like to update any of the information provided in its application approved under paragraph (c) of this section (e.g., to update a company phone number or name of contact person), the registrant must revise the application and submit it to the EPA Director of the Office of Solid Waste, along with an indication or explanation of the update, as soon as practicable after the change occurs. The Agency either will approve or deny the revision. If the Agency denies the revision, it will explain the reasons for the denial, and it will contact the registrant and request further modification before approval.
 - (2) If the registrant would like a new tracking number suffix, the registrant must submit a proposed suffix to the EPA Director of the Office of Solid Waste, along with the reason for requesting it. The Agency will either approve the suffix or deny the suffix and provide an explanation why it is not acceptable.
 - (3) If a registrant would like to change the paper type, paper weight, ink color of the manifest instructions, or binding method of its manifest or continuation sheet subsequent to approval under paragraph (e) of this section, then the registrant must submit three samples of the revised form for EPA review and approval. If the approved registrant would like to use a new printer, the registrant must submit three manifest samples printed by the new printer, along with a brief description of the printer's qualifications to print the manifest. EPA will evaluate the manifests and either approve the registrant to print the forms as proposed or request additional information or modification to them before approval. EPA will notify the registrant of its decision by mail. The registrant cannot use or distribute its revised forms until EPA approves them.
- (i) If, subsequent to its approval under paragraph (e) of this section, a registrant typesets its manifest or continuation sheet instead of using the electronic file of the forms provided by EPA, it must submit three samples of the manifest or continuation sheet to the registry for approval. EPA will evaluate the manifests or continuation sheets and either approve the registrant to print them as proposed or request additional information or modification to them before approval. EPA will notify the registrant of its decision by mail. The registrant cannot use or distribute its typeset forms until EPA approves them.
- (j) EPA may exempt a registrant from the requirement to submit form samples under paragraph (d) or (h)(3) of this section if the Agency is persuaded that a separate review of the registrant's forms would serve little purpose in informing an approval decision (e.g., a registrant certifies that it will print the manifest using

the same paper type, paper weight, ink color of the instructions and binding method of the form samples approved for some other registrant). A registrant may request an exemption from EPA by indicating why an exemption is warranted.

- (k) An approved registrant must notify EPA by phone or email as soon as it becomes aware that it has duplicated tracking numbers on any manifests that have been used or distributed to other parties.
- (I) If, subsequent to approval of a registrant under paragraph (e) of this section, EPA becomes aware that the approved paper type, paper weight, ink color of the instructions, or binding method of the registrant's form is unsatisfactory, EPA will contact the registrant and require modifications to the form.
- (m) (1) EPA may suspend and, if necessary, revoke printing privileges if we find that the registrant:
 - Has used or distributed forms that deviate from its approved form samples in regard to paper weight, paper type, ink color of the instructions, or binding method; or
 - (ii) Exhibits a continuing pattern of behavior in using or distributing manifests that contain duplicate Manifest Tracking Numbers.
 - (2) EPA will send a warning letter to the registrant that specifies the date by which it must come into compliance with the requirements. If the registrant does not come in compliance by the specified date, EPA will send a second letter notifying the registrant that EPA has suspended or revoked its printing privileges. An approved registrant must provide information on its printing activities to EPA if requested.)
- (c) Number of Copies [40 CFR 262.22]

The manifest consists of at least the number of copies which will provide the generator, each transporter, and the owner or operator of the designated facility with one copy each for their records and another copy to be returned to the generator.

- (d) Use of the Manifest [40 CFR 262.23]
 - 1. The generator shall:
 - (i) Sign the manifest certification by hand;
 - (ii) Obtain the handwritten signature of the initial transporter (Transporter 1) and date of acceptance on the manifest; and
 - (iii) Retain one copy, in accordance with part (5)(a)1 of this rule.
 - 2. The generator must give the transporter the remaining copies of the manifest.
 - 3. For shipments of hazardous waste within the United States solely by water (bulk shipments only), the generator must send three copies of the manifest dated and signed in accordance with this subparagraph to the owner or operator of the designated facility or the last water (bulk shipment) transporter to handle the waste in the United States if exported by water. Copies of the manifest are not required for each transporter.
 - 4. For rail shipments of hazardous waste within the United States which originate at the site of generation, the generator must send at least three copies of the manifest dated and signed in accordance with this subparagraph to:
 - (i) The next non-rail transporter, if any; or

- (ii) The designated facility if transported solely by rail; or
- (iii) The last rail transporter to handle the waste in the United States if exported by rail.
- 5. For shipments of hazardous waste to a designated facility in an authorized State which has not yet obtained authorization to regulate that particular waste as hazardous, the generator must assure that the designated facility agrees to sign and return the manifest to the generator, and that any out-of-state transporter signs and forwards the manifest to the designated facility.
- 6. For rejected shipments of hazardous waste or container residues contained in non-empty containers that are returned to the generator by the designated facility (following the procedures of part (5)(c)6 of Rule 0400-12-01-.05 or part (5)(c)6 of Rule 0400-12-01-.06), the generator must:
 - (i) Sign either:
 - (I) Item 20 of the new manifest if a new manifest is used for the returned shipment; or
 - (II) Item 18c of the original manifest if the original manifest is used for the returned shipment;
 - (ii) Provide the transporter a copy of the manifest;
 - (iii) Within 30 days of delivery of the rejected shipment or container residues contained in non-empty containers, send a copy of the manifest to the designated facility that returned the shipment to the generator; and
 - (iv) Retain at the generator's site a copy of each manifest for at least three years from the date of delivery.

(Note: See parts (3)(a)5 and 6 of Rule 0400-12-01-.04 for special provisions for rail or water (bulk shipment) transporters.)

- (e) Use of the electronic manifest [40 CFR 262.24]
 - 1. Legal equivalence to paper manifests. Electronic manifests that are obtained, completed, and transmitted in accordance with subpart (a)1(iii) of this paragraph, and used in accordance with this subparagraph in lieu of EPA Forms 8700-22 and 8700-22A are the legal equivalent of paper manifest forms bearing handwritten signatures, and satisfy for all purposes any requirement in these regulations to obtain, complete, sign, provide, use, or retain a manifest.
 - (i) Any requirement in these regulations to sign a manifest or manifest certification by hand, or to obtain a handwritten signature, is satisfied by signing with or obtaining a valid and enforceable electronic signature within the meaning of 40 CFR 262.25(a).
 - (ii) Any requirement in these regulations to give, provide, send, forward, or return to another person a copy of the manifest is satisfied when an electronic manifest is transmitted to the other person by submission to the system.
 - (iii) Any requirement in these regulations for a generator to keep or retain a copy of each manifest is satisfied by retention of a signed electronic manifest in the generator's account on the national e-Manifest system, provided that such copies are readily available for viewing and production if requested by any EPA inspector or the Commissioner.

- (iv) No generator may be held liable for the inability to produce an electronic manifest for inspection under this subparagraph if the generator can demonstrate that the inability to produce the electronic manifest is due exclusively to a technical difficulty with the electronic manifest system for which the generator bears no responsibility.
- 2. A generator may participate in the electronic manifest system either by accessing the electronic manifest system from its own electronic equipment, or by accessing the electronic manifest system from portable equipment brought to the generator's site by the transporter who accepts the hazardous waste shipment from the generator for off-site transportation.
- 3. Restriction on use of electronic manifests. A generator may use an electronic manifest for the tracking of hazardous waste shipments involving any RCRA hazardous waste only if it is known at the time the manifest is originated that all waste handlers named on the manifest participate in the use of the electronic manifest, except that:
 - (i) A generator must sign by hand and retain a paper copy of the manifest signed by hand by the initial transporter, in lieu of executing the generator copy electronically, thereby enabling the transporter and subsequent was handlers to execute the remainder of the manifest copies electronically.
 - (ii) Reserved.
- 4. Requirement for one printed copy. To the extent the Hazardous Materials regulation on shipping papers for carriage by public highway requires shippers of hazardous materials to supply a paper document for compliance with 49 CFR 177.817, a generator originating an electronic manifest must also provide the initial transporter with one printed copy of the electronic manifest.
- 5. Special procedures when electronic manifest is unavailable. If a generator has prepared an electronic manifest for a hazardous waste shipment, but the electronic manifest system becomes unavailable for any reason prior to the time that the initial transporter has signed electronically to acknowledge the receipt of the hazardous waste from the generator, then the generator must obtain and complete a paper manifest and if necessary, a continuation sheet (EPA Forms 8700-22 and 8700-22A) in accordance with the manifest instructions, and use these paper forms from this point forward in accordance with the requirements of subparagraph (d) of this paragraph.
- 6. Special procedures for electronic signature methods undergoing tests. If a generator has prepared an electronic manifest for a hazardous waste shipment, and signs this manifest electronically using an electronic signature method which is undergoing pilot or demonstration tests aimed at demonstrating the practicality or legal dependability of the signature method, then the generator shall also sign with an ink signature the generator/offeror certification on the printed copy of the manifest provided under part 4 of this subparagraph.
- 7. Reserved.
- 8. Post-receipt manifest data corrections. After facilities have certified to the receipt of hazardous wastes by signing Item 20 of the manifest, any post-receipt data corrections may be submitted at any time by any interested person (e.g., waste handler) named on the manifest. Generators may participate electronically in the post-receipt data corrections process by following the process described in part (5)(b)12 of Rule 0400-12-01-.06, which applies to corrections made to either paper or electronic manifest records.
- (f) Electronic manifest signatures [40 CFR 262.25]

Electronic signature methods for the e-Manifest system shall:

- 1. Be a legally valid and enforceable signature under applicable EPA and other Federal requirements pertaining to electronic signatures; and
- 2. Be a method that is designed and implemented in a manner that EPA considers to be as cost-effective and practical as possible for the users of the manifest.
- (g) [Reserved] [40 CFR 262.26]
- (h) Waste Minimization Certification [40 CFR 262.27]

A generator who initiates a shipment of hazardous waste must certify to one of the following statements in Item 15 of the Uniform Hazardous Waste Manifest:

- 1. "I am a large quantity generator. I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment;" or
- 2. "I am a small quantity generator. I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford."
- (4) Pre-transport Requirements Applicable to Small and Large Quantity Generators [40 CFR 262 Subpart C]
 - (a) Packaging [40 CFR 262.30]

Before transporting hazardous waste or offering hazardous waste for transportation off-site, a generator must package the waste in accordance with the applicable DOT regulations on packaging under 49 CFR Parts 173, 178, and 179.

(b) Labeling [40 CFR 262.31]

Before transporting or offering hazardous waste for transportation off-site, a generator must label each package in accordance with the applicable DOT regulations on hazardous materials under 49 CFR Part 172.

- (c) Marking [40 CFR 262.32]
 - 1. Before transporting or offering hazardous waste for transportation off-site, a generator must mark each package of hazardous waste in accordance with the applicable DOT regulations on hazardous materials under 49 CFR Part 172.
 - 2. Before transporting hazardous waste or offering hazardous waste for transportation offsite, a generator must mark each container of 119 gallons or less used in such transportation with the following words and information in accordance with the requirements of 49 CFR 172.304:
 - (i) HAZARDOUS WASTE—Federal Law Prohibits Improper Disposal. If found, contact the nearest police or public safety authority or the U. S. Environmental Protection Agency.
 - (ii) Generator's Name and Address _____
 - (iii) Generator's EPA Identification Number _____
 - (iv) Manifest Tracking Number _____
 - (v) EPA Hazardous Waste Number(s) ______
- 3. A generator may use a nationally recognized electronic system, such as bar coding, to identify the EPA Hazardous Waste Number(s), except as required by subpart 2(v) of this subparagraph or part 4 of this subparagraph.
- 4. Lab packs that will be incinerated in compliance with part (3)(c)3 of Rule 0400-12-01-.10 are not required to be marked with EPA Hazardous Waste Number(s), except D004, D005, D006, D007, D008, D010, and D011, where applicable.
- (d) Placarding [40 CFR 262.33]

Before transporting hazardous waste or offering hazardous waste for transportation off-site, a generator must placard or offer the initial transporter the appropriate placards according to Department of Transportation regulations for hazardous materials under 49 CFR 172 Subpart F.

- (e) [Reserved] [40 CFR 262.34]
- (f) Liquids in landfills prohibition

The placement of bulk or non-containerized liquid hazardous waste or hazardous waste containing free liquids (whether or not sorbents have been added) in any landfill is prohibited. Prior to disposal in a hazardous waste landfill, liquids must meet additional requirements as specified in subparagraphs (14)(o) of Rule 0400-12-01-.05 and (14)(o) of Rule 0400-12-01-.06.

- (5) Recordkeeping and Reporting
 - (a) Recordkeeping applicable to small and large quantity generators [40 CFR 262.40]
 - 1. A generator must keep a copy of each manifest signed in accordance with part (3)(d)1 of this rule for three years or until he receives a signed copy from the designated facility which received the waste. This signed copy must be retained as a record for at least three years from the date the waste was accepted by the initial transporter.
 - 2. A generator must keep a copy of each Annual Report and Exception Report for a period of at least three years from the due date of the report (March 1).
 - 3. See part (1)(b)6 of this rule for recordkeeping requirements for documenting hazardous waste determinations.
 - 4. The periods of retention referred to in this subparagraph are extended automatically during the course of any unresolved enforcement action regarding the regulated activity or as requested by the Commissioner or Board.
 - (b) Annual Reporting [40 CFR 262.41]
 - 1. A generator who is a large or small quantity generator for at least one month of the calendar year who ships any hazardous waste off-site to treatment, storage, or disposal facility within the United States must complete and submit an annual report to the Commissioner by March 1 for the preceding calendar year. Such report must be submitted on forms provided by the Commissioner, and the form must be completed according to the instructions accompanying it. The report must include, but shall not necessarily be limited to, the following information:
 - (i) The year covered by the report.
 - (ii) The name, address, telephone number, and EPA identification number of the generator.
 - (iii) For each hazardous waste stream (i.e., each separate waste but not necessarily each batch or shipment of such waste) generated by the generator during the reporting year, except for those wastes identified in part 4 of this subparagraph, the following information:

- A descriptive name of the waste and the appropriate waste code(s) from Rule 0400-12-01-.02;
- (II) The methods by which the waste was managed on-site by the generator during the reporting year and the total quantities managed by each method; and
- (III) For those wastes managed off-site during the reporting year:
 - I. The EPA identification number of each treatment, storage, or disposal facility, or the name and address of other places, to which the waste was sent;
 - II. The total quantity of the waste sent to each place and the method(s) by which it was to be managed; and
 - III. The EPA identification number(s) of those transporters whose services were used during the reporting year.
- (iv) A summary of the efforts undertaken during the year to reduce volume and toxicity as required on the Tennessee annual report forms.
- (v) A summary of the changes in volume and toxicity of waste actually achieved during the year as required on the Tennessee annual report forms.
- (vi) The certification signed by the generator or authorized representative.
- 2. A generator must also submit the annual report established in part 1 of this subparagraph prior to those events, such as change of ownership or cessation of business, which would make him no longer subject to the annual reporting requirement. In such case, the report would cover the period of time that has elapsed since December 31 of the preceding calendar year.
- 3. Any generator who is a large or small quantity generator for at least one month of the calendar year who treats, stores, or disposes of hazardous waste on-site must complete and submit an annual report to the Commissioner by March 1 of each year covering those wastes in accordance with the provisions of Rules 0400-12-01-.05, 0400-12-01-.06, 0400-12-01-.07 and 0400-12-01-.09. Such report must be submitted on forms provided by the Commissioner, and the forms must be completed according to the instructions accompanying it. Reporting for exports of hazardous waste is not required on the annual report form.
- 4. Exports of hazardous waste to foreign countries are not required to be reported on the annual report form. A separate annual report requirement is set forth at part (9)(d)7 of this rule.
- 5. A generator shall not be required to annually report on those hazardous wastes generated by analytical laboratory operations which are properly (i.e., in accordance with safe disposal practices and local sewer use ordinances) discharged to the collection sewer system of a publicly-owned treatment works.

(Comment: This exclusion from annual reporting requirements is not intended to encourage the discharge of hazardous waste to a sewer nor does it exclude the laboratory from having to comply with federal, state, or local pretreatment or sewer use requirements.)

6. A very small quantity generator of an episodic event(s) in compliance with paragraph (11) of this rule shall submit an annual report to the Commissioner by March 1 for the episodic event(s) occurring the preceding calendar year. Such report must be submitted on forms provided by the Commissioner, and the form must be completed according to the

instructions accompanying it. The report must include, but shall not necessarily be limited to, the following information:

- (i) The year covered by the report.
- (ii) The name, address, telephone number, and EPA identification number of the very small quantity generator.
- (iii) For each hazardous waste stream (i.e., each separate waste but not necessarily each batch or shipment of such waste) generated by the generator during the reporting year, except for those wastes identified in part 4 of this subparagraph, the following information:
 - A descriptive name of the waste and the appropriate waste code(s) from Rule 0400-12-01-.02;
 - (II) The methods by which the waste was managed on-site by the generator during the reporting year and the total quantities managed by each method; and
 - (III) For those wastes managed off-site during the reporting year:
 - I. The EPA identification number of each treatment, storage, or disposal facility, or the name and address of other places, to which the waste was sent;
 - II. The total quantity of the waste sent to each place and the method(s) by which it was to be managed; and
 - III. The EPA identification number(s) of those transporters whose services were used during the reporting year.
- (iv) The certification signed by the very small generator or authorized representative.
- (c) Exception Reporting [40 CFR 262.42]
 - 1. (i) A large quantity generator of hazardous waste who does not receive a copy of the manifest with the handwritten signature of the owner or operator of the designated facility within 35 days of the date the waste was accepted by the initial transporter must contact the transporter and/or the owner or operator of the designated facility to determine the status of the hazardous waste.
 - (ii) A large quantity generator of hazardous waste must submit an Exception Report to the Commissioner if he has not received a copy of the manifest with the handwritten signature of the owner or operator of the designed facility within 45 days of the date the waste was accepted by the initial transporter. The Exception Report must include:
 - (I) A legible copy of the manifest for which the generator does not have confirmation of delivery.
 - (II) A cover letter signed by the generator or his authorized representative explaining the efforts taken to locate the hazardous waste and the results of those efforts.
 - (iii) The Exception Report required by subpart (ii) of this part must be submitted to the Commissioner within five days after the 45-day period expires.
 - 2. A small quantity generator of hazardous waste who does not receive a copy of the manifest with the handwritten signature of the owner or operator of the designated facility within 60 days of the date the waste was accepted by the initial transporter must submit a

legible copy of the manifest, with some indication that the generator has not received confirmation of delivery, to the Commissioner.

(Note: The submission need only be a handwritten or typed note on the manifest itself, or on an attached sheet of paper, stating that the return copy was not received.)

- 3. For rejected shipments of hazardous waste or container residues contained in non-empty containers that are forwarded to an alternate facility by a designated facility using a new manifest (following the procedure of subparts (5)(c)5(i) through (vi) Rule 0400-12-01-.05 or subparts (5)(c)5(i) through (vi) of Rule 0400-12-01-.06, the generator must comply with the requirements of part 1 or 2 of this subparagraph, as applicable, for the shipment forwarding the material from the designated facility to the alternate facility instead of for the shipment from the generator to the designated facility. For purposes of part 1 or 2 of this subparagraph for a shipment forwarding such waste to an alternate facility by a designated facility:
 - (i) The copy of the manifest received by the generator must have the handwritten signature of the owner or operator of the alternate facility in place of the signature of the owner or operator of the designated facility; and
 - (ii) The 35/45/60-day time frames begin the date the waste was accepted by the initial transporter forwarding the hazardous waste shipment from the designated facility to the alternate facility.
- (d) Additional Reporting [40 CFR 262.43]

The Commissioner, as deemed necessary under T.C.A. § 68-212-105(4), T.C.A § 68-212-106, and T.C.A. § 68-212-107 of the Hazardous Waste Management Act, may require generators to furnish additional reports concerning the quantities and disposition of wastes identified or listed in Rule 0400-12-01-.02.

(e) Recordkeeping for small quantity generators [40 CFR 262.44]

A small quantity generator is exempt from the requirement under part (a)2 of this paragraph to maintain copies of Exception Reports and the requirements of part (c)1 of this paragraph.

- (6) Hazardous Waste Reduction Plan
 - (a) Applicability
 - 1. Except for very small quantity generators who remain very small quantity generators for all 12 months of the calendar year, all generators shall complete a hazardous waste reduction plan in accordance with the requirements of subparagraph (b) of this paragraph. After completion of a plan, the generator shall maintain a current copy of the plan at the generating facility. The plan and the annual progress reports under subparagraph (c) of this paragraph shall be made available, upon request, to a representative of the department at any reasonable time. The department may make use of the information as it deems necessary to carry out its duties under this rule.
 - 2. For the purposes of this paragraph, a generator shall permit the commissioner to inspect the hazardous waste reduction plan. The generator shall permit any officer, employee or representative of the department at all reasonable times to have access to the plan. The generator shall furnish a copy of the plan upon request to the commissioner.
 - 3. Large and small quantity generators shall have three years from the date they first became a large or small quantity generator, to complete their waste reduction plan. Only large and small quantity hazardous waste generators are required to have a hazardous waste reduction plan.

- 4. Hazardous waste streams resulting from one-time generation events, such as accidental spills, equipment modification, plant closure, etc., are not subject to the requirements of this paragraph.
- (b) Contents of Plan
 - 1. A hazardous waste reduction plan shall include, at a minimum, the following:
 - (i) A dated and signed written policy articulating management support for the generator's hazardous waste reduction plan;
 - (ii) The scope and objectives of the plan, including the evaluation of technologies, procedures and personnel training programs to ensure that unnecessary waste is not generated and to encourage hazardous waste reduction. Specific goals shall be set for hazardous waste reduction, as described in subparagraphs (b) through (d) of the paragraph;
 - (iii) A description of technically and economically practical hazardous waste reduction options to be implemented and planned schedule for implementation. These options shall be based on an internal analysis of hazardous waste streams conducted to review individual processes or facilities and other activities where waste may be generated and identify opportunities to reduce or eliminate waste generation. Such analyses shall evaluate data on the types, amount and hazardous constituents of waste generated, where and why that waste was generated within the production process or other operations, and potential hazardous waste reduction and recycling techniques applicable to those wastes;
 - (iv) A description of the hazardous waste accounting systems that identify waste management costs and factor in liability, compliance and oversight costs to the extent feasible;
 - A description of the employee awareness and training programs designed to involve employees to the maximum extent feasible in hazardous waste reduction planning and implementation; and
 - (vi) A description of how the plan has been or will be incorporated into management practices and procedures so as to ensure an ongoing effort.
 - 2. As part of each plan developed under this subparagraph, a generator shall establish specific performance goals for the source reduction of each hazardous waste stream.
 - 3. The specific performance goals established under this subparagraph shall be quantitative goals, expressed in numeric terms. Whenever possible, the units of measurement should be in pounds (or tons) of waste generated per standard unit of production, as defined by the generator. If the establishment of numeric performance goals is not practical, the performance goals shall include a clearly stated list of actions designed to lead to the establishment of numeric goals as soon as practical.
 - 4. As part of each plan developed under this subparagraph, each generator shall explain the rationale for each performance goal. Acts of God or other unforeseeable events beyond the control of the generator do not have to be considered in setting goals. The rationale for a particular performance goal shall address any impediments to hazardous waste reduction, including, but not limited to, the following:
 - (i) The availability of technically practical hazardous waste reduction methods, including any anticipated changes in the future;
 - (ii) Previously implemented reductions of hazardous waste;
 - (iii) The economic practicability of available hazardous waste reduction methods, including any anticipated changes in the future. Examples of situations where

hazardous waste reduction may not be economically practical include, but are not limited to:

- (I) For valid reasons of prioritization, a particular company has chosen first to address other more serious hazardous waste reduction concerns;
- (II) Necessary steps to reduce hazardous waste are likely to have significant adverse impacts on product quality; or
- (III) Legal or contractual obligations interfere with the necessary steps that would lead to hazardous waste reduction.
- 5. A generator required to complete a hazardous waste reduction plan under subparagraph (a) of this paragraph may include as a preface to its initial plan:
 - (i) An explanation and documentation regarding hazardous waste reduction efforts completed or in progress before the first reporting date; and
 - (ii) An explanation and documentation regarding impediments to hazardous waste reduction specific to the individual facility.
- (c) Annual Progress Report
 - 1. All generators shall annually review their waste reduction plan and complete a hazardous waste reduction progress report which shall:
 - (i) Analyze and quantify progress made, if any, in hazardous waste reduction, relative to each performance goal established under subparagraph (b) of this paragraph.
 - (ii) Set forth amendments, if needed, to the hazardous waste reduction plan and explain the need for the amendments.
 - 2. Except for the information reported to the department under paragraph (5)(b) of this rule, Annual Reporting, the annual progress report shall be retained at the facility and shall not be considered a public record. However, the generator shall permit any officer, employee or representative of the department at all reasonable times to have access to the annual progress report.
- (d) Review of Plan
 - 1. The Commissioner may review a plan or an annual progress report to determine whether the plan or progress report reasonably contains the elements specified under subparagraph (b) of this paragraph. If a generator fails to complete a plan containing these elements or an annual progress report reasonably containing the elements required, the department shall notify the generator of the specific deficiencies. The department also may specify a reasonable time frame, of not more than 120 days, within which the generator shall modify the plan or progress report correcting the specified deficiencies.
 - 2. If the Commissioner determines that a plan or progress report has not been modified to address the deficiencies identified, the Commissioner may issue an order for correction to the responsible person, and this order shall be complied with within the time limit specified in the order. Such order shall be served by personal service or shall be sent by certified mail, return receipt requested. Investigations made in accordance with this paragraph may be made on the initiative of the commissioner or board. Prior to the issuance of any order or the execution of any other enforcement action, the commissioner or director may request the presence of the alleged violator of this paragraph at a meeting to show cause why enforcement action ought not to be taken by the department.

(e) Confidentiality

A plan or annual progress report developed pursuant to this paragraph and maintained at the generating facility shall not be considered a public record. Information supplied to the department, as provided by this rule and defined as proprietary by regulation, shall not be revealed to any person without the consent of the person supplying such information. However, the summary information on waste reduction activities submitted to the department may be utilized by the commissioner, the board, the department, the United States Environmental Protection Agency, or any authorized representative of the commissioner or the board in connection with the responsibilities of the department or board pursuant to this paragraph or as necessary to comply with federal law. Copies of the any Form R's provided to the State and Environmental Protection Agency (EPA), can be requested from the Tennessee Emergency Management Agency (TEMA).

- (7) [Reserved] [40 CFR 262 Subpart E]
- (8) [Reserved] [40 CFR 262 Subpart F]
- (9) Transboundary Movements of Hazardous Waste for Recovery within the OECD [40 CFR 262 Subpart H]

(Note: The implementation of this paragraph remains the responsibility of EPA.)

- (a) Applicability. [40 CFR 262.80]
 - 1. The requirements of this paragraph apply to transboundary movements of hazardous wastes.
 - 2. Any person (including exporter, importer, disposal facility operator, or recovery facility operator) who mixes two or more wastes (including hazardous and non-hazardous wastes) or otherwise subjects two or more wastes (including hazardous and non-hazardous wastes) to physical or chemical transformation operations, and thereby creates a new hazardous waste, becomes a generator and assumes all subsequent generator duties under RCRA and any exporter duties, if applicable, under this paragraph.
- (b) Definitions [40 CFR 262.81]

In addition to the definitions set forth at subparagraph (2)(a) of Rule 0400-12-01-.01, the following definitions apply to this paragraph.

"Competent authority" means the regulatory authority or authorities of concerned countries having jurisdiction over transboundary movements of wastes.

"Countries concerned" means the countries of export or import and any countries of transit.

"Country of export" means any country from which a transboundary movement of hazardous wastes is planned to be initiated or is initiated.

"Country of import" means any country to which a transboundary movement of hazardous wastes is planned or takes place for the purpose of submitting the wastes to recovery or disposal operations therein.

"Country of transit" means any country other than the country of export or country of import across which a transboundary movement of hazardous wastes is planned or takes place.

"Disposal operations" means activities which do not lead to the possibility of resource recovery, recycling, reclamation, direct re-use or alternate uses, which include:

1. D1 Release or Deposit into or onto land, other than by any of operations D2 through D5 or D12.

- 2. D2 Land treatment, such as biodegradation of liquids or sludges in soils.
- 3. D3 Deep injection, such as injection into wells, salt domes, or naturally occurring repositories.
- 4. D4 Surface impoundment, such as placing of liquids or sludges into pits, ponds, or lagoons.
- 5. D5 Specially engineered landfill, such as placement into lined discrete cells which are capped and isolated from one another and the environment.
- 6. D6 Release into a water body other than a sea or ocean, and other than by operation D4.
- 7. D7 Release into a sea or ocean, including sea-bed insertion, other than by operation D4.
- 8. D8 Biological treatment not specified elsewhere in operations D1 through D12, which results in final compounds or mixtures which are discarded by means of any of operations D1 through D12.
- 9. D9 Physical or chemical treatment not specified elsewhere in operations D1 through D12, such as evaporation, drying, calcination, neutralization, or precipitation, which results in final compounds or mixtures which are discarded by means of any of operations D1 through D12.
- 10. D10 Incineration on land.
- 11. D11 Incineration at sea.
- 12. D12 Permanent storage.
- 13. D13 Blending or mixing, prior to any of operations D1 through D12.
- 14. D14 Repackaging, prior to any of operations D1 through D13.
- 15. D15 (or DC17 for transboundary movements with Canada only) Interim Storage, prior to any of operations D1 through D12.
- 16. DC15 Release, including the venting of compressed or liquified gases, or treatment, other than by any of operations D1 to D12 (for transboundary movements with Canada only).
- 17 DC16 Testing of a new technology to dispose of a hazardous waste (for transboundary movements with Canada only).

"EPA Acknowledgment of Consent (AOC)" means the letter EPA sends to the exporter documenting the specific terms of the country of import's consent and the country(ies) of transit's consent(s). The AOC meets the definition of an export license in U.S. Census Bureau regulations 15 CFR 30.1.

"Export" means the transportation of hazardous waste from a location under the jurisdiction of the United States to a location under the jurisdiction of another country, or a location not under the jurisdiction of any country, for the purposes of recovery or disposal operations therein.

"Exporter, also known as primary exporter on the RCRA hazardous waste manifest," means the person domiciled in the United States who is required to originate the movement document in accordance with part (d)4 of this paragraph or the manifest for a shipment of hazardous waste in accordance with subpart B of part 262, or equivalent state provision, which specifies a foreign receiving facility as the facility to which the hazardous wastes will be sent, or any recognized trader who proposes export of the hazardous wastes for recovery or disposal operations in the country of import.

"Foreign exporter" means the person under the jurisdiction of the country of export who has, or will have at the time the planned transboundary movement commences, possession or other forms of legal control of the hazardous wastes and who proposes shipment of the hazardous wastes to the United States for recovery or disposal operations.

"Foreign importer" means the person to whom possession or other form of legal control of the hazardous waste is assigned at the time the exported hazardous waste is received in the country of import.

"Foreign receiving facility" means a facility which, under the importing country's applicable domestic law, is operating or is authorized to operate in the country of import to receive the hazardous wastes and to perform recovery or disposal operations on them.

"Import" means the transportation of hazardous waste from a location under the jurisdiction of another country to a location under the jurisdiction of the United States for the purposes of recovery or disposal operations therein.

"Importer" means the person to whom possession or other form of legal control of the hazardous waste is assigned at the time the imported hazardous waste is received in the United States.

"OECD area" means all land or marine areas under the national jurisdiction of any OECD Member country. When the regulations refer to shipments to or from an OECD Member country, this means OECD area.

"OECD" means the Organization for Economic Cooperation and Development.

"OECD Member country" means the countries that are members of the OECD and participate in the Amended 2001 OECD Decision. (EPA provides a list of OECD Member countries at https://www.epa.gov/hwgenerators/international-agreements-transboundary-shipments-waste).

"Receiving facility" means a U.S. facility which, under RCRA and other applicable domestic laws, is operating or is authorized to operate to receive hazardous wastes and to perform recovery or disposal operations on them.

"Recovery operations" means activities leading to resource recovery, recycling, reclamation, direct re-use or alternative uses, which include:

- 1. R1 Use as a fuel (other than in direct incineration) or other means to generate energy.
- 2. R2 Solvent reclamation/regeneration.
- 3. R3 Recycling/reclamation of organic substances which are not used as solvents.
- 4. R4 Recycling/reclamation of metals and metal compounds.
- 5. R5 Recycling/reclamation of other inorganic materials.
- 6. R6 Regeneration of acids or bases.
- 7. R7 Recovery of components used for pollution abatement.
- 8. R8 Recovery of components used from catalysts.
- 9. R9 Used oil re-refining or other reuses of previously used oil.
- 10. R10 Land treatment resulting in benefit to agriculture or ecological improvement.
- 11. R11 Uses of residual materials obtained from any of the operations numbered R1-R10.
- 12. R12 Exchange of wastes for submission to any of the operations numbered R1-R11.

- 13. R13 Accumulation of material intended for any operation numbered R1-R12.
- 14. RC14 Recovery or regeneration of a substance or use or re-use of a recyclable material, other than by any of operations R1 to R10 (for transboundary shipments with Canada only).
- 15. RC15 Testing of a new technology to recycle a hazardous recyclable material (for transboundary shipments with Canada only).
- 16. RC16 Interim storage prior to any of operations R1 to R11 or RC14 (for transboundary shipments with Canada only).

"Transboundary movement" means any movement of hazardous wastes from an area under the national jurisdiction of one country to an area under the national jurisdiction of another country.

- (c) General conditions. [40 CFR 262.82]
 - 1. Scope. The level of control for exports and imports of waste is indicated by assignment of the waste to either a list of wastes subject to the Green control procedures or a list of wastes subject to the Amber control procedures and whether the waste is or is not hazardous waste. The OECD Green and Amber lists are incorporated by reference in subparagraph (2)(b) of Rule 0400-12-01-.01.
 - (i) Green list wastes.
 - (I) Green wastes that are not hazardous wastes are subject to existing controls normally applied to commercial transactions and are not subject to the requirements of this paragraph.
 - (II) Green wastes that are hazardous wastes are subject to the requirements of this paragraph.
 - (ii) Amber list wastes.
 - (I) Amber wastes that are hazardous wastes are subject to the requirements of this paragraph even if they are imported to or exported from a country that does not consider the waste to be hazardous or control the transboundary shipment as a hazardous waste import or export.
 - I. For exports, the exporter must comply with subparagraph (d) of this paragraph.
 - II. For imports, the recovery or disposal facility and the importer must comply with subparagraph (e) of this paragraph.
 - (II) Amber wastes that are not hazardous wastes, but are considered hazardous by the other country, are subject to the Amber control procedures in the country that considers the waste hazardous and are not subject to the requirements of this paragraph. All responsibilities of the importer or exporter shift to the foreign importer or foreign exporter in the other country that considers the waste hazardous unless the parties make other arrangements through contracts.

(Note: Some Amber list wastes are not listed or otherwise identified as hazardous under RCRA, and therefore are not subject to the requirements of this paragraph. Regardless of the status of the waste under RCRA, however, other Federal environmental statutes (e.g., the Toxic Substances Control Act) restrict certain waste imports or exports. Such restrictions continue to apply with regard to this paragraph.)

- (iii) Mixtures of wastes.
 - (I) A Green waste that is mixed with one or more other Green wastes such that the resulting mixture is not hazardous waste is not subject to the requirements of this paragraph.

(Note: The regulated community should note that some countries may require, by domestic law, that mixtures of different Green wastes be subject to the Amber control procedures.)

(II) A Green waste that is mixed with one or more Amber wastes, in any amount, de minimis or otherwise, or a mixture of two or more Amber wastes, such that the resulting waste mixture is hazardous waste is subject to the requirements of this paragraph.

(Note: The regulated community should note that some countries may require, by domestic law, that a mixture of a Green waste and more than a de minimis amount of an Amber waste or a mixture of two or more Amber wastes be subject to the Amber control procedures.)

- (iv) Wastes not yet assigned to an OECD waste list are eligible for transboundary movements, as follows:
 - (I) If such wastes are hazardous waste, such wastes are subject to the requirements of this paragraph.
 - (II) If such wastes are not hazardous waste, such wastes are not subject to the requirements of this paragraph.
- 2. General conditions applicable to transboundary movements of hazardous waste:
 - The hazardous waste must be destined for recovery operations or disposal at a facility that, under applicable domestic law, is operating or is authorized to operate in the country of import;
 - (ii) The transboundary movement must be in compliance with applicable international transport agreements; and

(Note: These international agreements include, but are not limited to, the Chicago Convention (1944), ADR (1957), ADNR (1970), MARPOL Convention (1973/1978), SOLAS Convention (1974), IMDG Code (1985), COTIF (1985), and RID (1985).)

- (iii) Any transit of hazardous waste through one or more countries must be conducted in compliance with all applicable international and national laws and regulations.
- 3. Duty to return wastes subject to the Amber control procedures during transit through the United States. When a transboundary movement of hazardous wastes transiting the United States and subject to the Amber control procedures does not comply with the requirements of the notification and movement documents or otherwise constitutes illegal shipment, and if alternative arrangements cannot be made to recover or dispose of these wastes in an environmentally sound manner, the waste must be returned to the country of export. The U.S. transporter must inform EPA at the specified mailing address in part 5 of this subparagraph of the need to return the shipment. EPA will then inform the competent authority of the country of export, citing the reason(s) for returning the waste. The U.S. transporter must complete the return within 90 days from the time EPA informs the country of export of the need to return the waste, unless informed in writing by EPA of another timeframe agreed to by the concerned countries.

- 4. Laboratory analysis exemption. Export and import of a hazardous waste sample is exempt from the requirements of this paragraph if the sample is destined for laboratory analysis to assess its physical or chemical characteristics, or to determine its suitability for recovery or disposal operations, does not exceed twenty-five kilograms (25 kg) in quantity, is appropriately packaged and labeled, and complies with the conditions of part (1)(d)4 or 5 of Rule 0400-12-01-.02.
- 5. EPA Address for submittals by postal mail or hand delivery. Submittals required in this paragraph to be made by postal mail or hand delivery should be sent to the following addresses:
 - For postal mail delivery, the Office of Enforcement and Compliance Assurance, Office of Federal Activities, International Compliance Assurance Division (2254A), Environmental Protection Agency, 1200 Pennsylvania Avenue N.W., Washington, DC 20460.
 - (ii) For hand-delivery, the Office of Enforcement and Compliance Assurance, Office of Federal Activities, International Compliance Assurance Division, Environmental Protection Agency, William Jefferson Clinton South Bldg., Room 6144, 12th St. and Pennsylvania Ave N.W., Washington, DC 20004.
- (d) Exports of hazardous waste. [40 CFR 262.83]
 - 1. General export requirements. Except as provided in subparts (v) and (vi) of this part, exporters that have received an AOC from EPA before December 31, 2016, are subject to that approval and the requirements listed in the AOC that existed at the time of that approval until such time the approval period expires. All other exports of hazardous waste are prohibited unless:
 - (i) The exporter complies with the contract requirements in part 6 of this subparagraph;
 - (ii) The exporter complies with the notification requirements in part 2 of this subparagraph;
 - (iii) The exporter receives an AOC from EPA documenting consent from the countries of import and transit (and original country of export if exporting previously imported hazardous waste);
 - (iv) The exporter ensures compliance with the movement documents requirements in part 4 of this subparagraph;
 - (v) The exporter ensures compliance with the manifest instructions for export shipments in part 3 of this subparagraph; and
 - (vi) The exporter or a U.S. authorized agent:
 - (I) For shipments initiated prior to the AES filing compliance date, does one of the following:
 - I. Submits Electronic Export Information (EEI) for each shipment to the Automated Export System (AES) or its successor system, under the International Trade Data System (ITDS) platform, in accordance with 15 CFR 30.4(b), and includes the following items in the EEI, along with the other information required under 15 CFR 30.6:
 - A. EPA license code;
 - B. Commodity classification code for each hazardous waste per 15 CFR 30.6(a)(12);

- C. EPA consent number for each hazardous waste;
- D. Country of ultimate destination code per 15 CFR 30.6(a)(5);
- E. Date of export per 15 CFR 30.6(a)(2);
- F. RCRA hazardous waste manifest tracking number, if required;
- G. Quantity of each hazardous waste in shipment and units for reported quantity, if required reporting units established by value for the reported commodity classification number are in units of weight or volume per 15 CFR 30.6(a)(15); or
- H. EPA net quantity for each hazardous waste reported in units of kilograms if solid or in units of liters if liquid, if required reporting units established by value for the reported commodity classification number are not in units of weight or volume.
- II. Complies with a paper-based process by:
 - A. Attaching paper documentation of consent (i.e., a copy of the EPA Acknowledgment of Consent, international movement document) to the manifest, or shipping papers if a manifest is not required, which must accompany the hazardous waste shipment. For exports by rail or water (bulk shipment), the primary exporter must provide the transporter with the paper documentation of consent which must accompany the hazardous waste but which need not be attached to the manifest except that for exports by water (bulk shipment) the primary exporter must attach the paper documentation of consent to the shipping paper.
 - B. Providing the transporter with an additional copy of the manifest, and instructing the transporter via mail, email or fax to deliver that copy to the U.S. Customs official at the point the hazardous waste leaves the United States in accordance with item (3)(a)7(iv)(II) of Rule 0400-12-01-.04.
- (II) For shipments initiated on or after the AES filing compliance date, submits Electronic Export Information (EEI) for each shipment to the Automated Export System (AES) or its successor system, under the International Trade Data System (ITDS) platform, in accordance with 15 CFR 30.4(b), and includes the following items in the EEI, along with the other information required under 15 CFR 30.6:
 - I. EPA license code;
 - II. Commodity classification code for each hazardous waste per 15 CFR 30.6(a)(12);
 - III. EPA consent number for each hazardous waste;
 - IV. Country of ultimate destination code per 15 CFR 30.6(a)(5);

- V. Date of export per 15 CFR 30.6(a)(2);
- VI. RCRA hazardous waste manifest tracking number, if required;
- VII. Quantity of each hazardous waste in shipment and units for reported quantity, if required reporting units established by value for the reported commodity classification number are in units of weight or volume per 15 CFR 30.6(a)(15); or
- VIII. EPA net quantity for each hazardous waste reported in units of kilograms if solid or in units of liters if liquid, if required reporting units established by value for the reported commodity classification number are not in units of weight or volume.
- 2. Notifications.
 - (i) General notifications. At least 60 days before the first shipment of hazardous waste is expected to leave the United States, the exporter must provide notification in English to EPA of the proposed transboundary movement. Notifications must be submitted electronically using EPA's Waste Import Export Tracking System (WIETS), or its successor system. The notification may cover up to one year of shipments of one or more hazardous wastes being sent to the same recovery or disposal facility, and must include all of the following information:
 - (I) Exporter name and EPA identification number, address, telephone, fax numbers, and e-mail address;
 - (II) Foreign receiving facility name, address, telephone, fax numbers, e-mail address, technologies employed, and the applicable recovery or disposal operations as defined in subparagraph (b) of this paragraph;
 - (III) Foreign importer name (if not the owner or operator of the foreign receiving facility), address, telephone, fax numbers, and e-mail address;
 - (IV) Intended transporter(s) and/or their agent(s); address, telephone, fax, and email address;
 - (V) "U.S." as the country of export name, "USA01" as the relevant competent authority code, and the intended port(s) of exit;
 - (VI) The ISO standard 3166 country name 2-digit code, OECD/Basel competent authority code, and the ports of entry and exit for each country of transit;
 - (VII) The ISO standard 3166 country name 2-digit code, OECD/Basel competent authority code, and port of entry for the country of import;
 - (VIII) Statement of whether the notification covers a single shipment or multiple shipments;
 - (IX) Start and End Dates requested for transboundary movements;
 - (X) Means of transport planned to be used;
 - (XI) Description(s) of each hazardous waste, including whether each hazardous waste is regulated universal waste under Rule 0400-12-01-.12, spent lead-acid batteries being exported for recovery of lead under paragraph (7) of Rule 0400-12-01-.09, or industrial ethyl alcohol being exported for reclamation under (1)(f)1(iii)(I) of Rule 0400-12-01-.02, estimated total quantity of each waste in either metric tons or cubic

meters, the applicable RCRA waste code(s) for each hazardous waste, the applicable OECD waste code from the lists incorporated by reference in subparagraph (2)(b) of Rule 0400-12-01-.02, and the United Nations/U.S. Department of Transportation (DOT) ID number for each waste;

- (XII) Specification of the recovery operation(s) as defined in subparagraph (b) of this paragraph.
- (XIII) Certification/Declaration signed by the exporter that states:

"I certify that the above information is complete and correct to the best of my knowledge. I also certify that legally enforceable written contractual obligations have been entered into and that any applicable insurance or other financial guarantee is or shall be in force covering the transboundary movement."

Name:	 	 	
Signature:			

Date: _____

- (ii) Exports to pre-consented recovery facilities in OECD Member countries. If the recovery facility is located in an OECD member country and has been pre-consented by the competent authority of the OECD member country to recover the waste sent by exporters located in other OECD member countries, the notification may cover up to three years of shipments. Notifications proposing export to a pre-consented facility in an OECD member country must include all information listed in items (i)(I) through (XIII) of this part and additionally state that the facility is pre-consented. Exporters must submit the notification to EPA using the allowable methods listed in subpart (i) of this part at least 10 days before the first shipment is expected to leave the United States.
- (iii) Notifications listing interim recycling operations or interim disposal operations. If the foreign receiving facility listed in item (i)(II) of this part will engage in any of the interim recovery operations R12 or R13 or interim disposal operations D13 through D15, or in the case of transboundary movements with Canada, any of the interim recovery operations R12, R13, or RC16, or interim disposal operations D13 to D14, or DC17, the notification submitted according to subpart (i) of this part must also include the final foreign recovery or disposal facility name, address, telephone, fax numbers, email address, technologies employed, and which of the applicable recovery or disposal operations R1 through R11 and D1 through D12, or in the case of transboundary movements with Canada, which of the applicable recovery or disposal operations R1 through R11, RC14 to RC15, D1 through D12, and DC15 to DC16 will be employed at the final foreign recovery or disposal facility. The recovery and disposal operations in this subpart are defined in subparagraph (b) of this paragraph.
- (iv) Renotifications. When the exporter wishes to change any of the information specified on the original notification (including increasing the estimate of the total quantity of hazardous waste specified in the original notification or adding transporters), the exporter must submit a renotification of the changes to EPA using the allowable methods in subpart (i) of this part. Any shipment using the requested changes cannot take place until the countries of import and transit consent to the changes and the exporter receives an EPA AOC letter documenting the countries' consents to the changes.
- (v) For cases where the proposed country of import and recovery or disposal operations are not covered under an international agreement to which both the United States and the country of import are parties, EPA will coordinate with the

Department of State to provide the complete notification to country of import and any countries of transit. In all other cases, EPA will provide the notification directly to the country of import and any countries of transit. A notification is complete when EPA receives a notification which EPA determines satisfies the requirements of items (i)(I) through (XIII) of this part.

- (vi) Where the countries of import and transit consent to the proposed transboundary movement(s) of the hazardous waste(s), EPA will forward an EPA AOC letter to the exporter documenting the countries' consents. Where any of the countries of import and transit objects to the proposed transboundary movement(s) of the hazardous waste or withdraws a prior consent, EPA will notify the exporter.
- (vii) Export of hazardous wastes for recycling or disposal operations that were originally imported into the United States for recycling or disposal operations in a third country is prohibited unless an exporter in the United States complies with the export requirements in this subparagraph, including providing notification to EPA in accordance with subpart (i) of this part. In addition to listing all required information in items (i)(I) through (XIII) of this part, the exporter must provide the original consent number issued for the initial import of the wastes in the notification, and receive an AOC from EPA documenting the consent of the competent authorities in new country of import, the original country of export, and any transit countries prior to re-export.
- (viii) Upon request by EPA, the exporter must furnish to EPA any additional information which the country of import requests in order to respond to a notification.
- 3. RCRA manifest instructions for export shipments. The exporter must comply with the manifest requirements of subparagraphs (3)(a) through (d) of this rule except that:
 - In lieu of the name, site address and EPA ID number of the designated permitted facility, the exporter must enter the name and site address of the foreign receiving facility.
 - (ii) In the International Shipments block, the exporter must check the export box and enter the U.S. port of exit (city and State) from the United States.
 - (iii) The exporter must list the consent number from the AOC for each hazardous waste listed on the manifest, matched to the relevant list number for the hazardous waste from block 9b. If additional space is needed, the exporter should use a Continuation Sheet(s) (EPA Form 8700-22A).
 - (iv) The exporter may obtain the manifest from any source that is registered with the U.S. EPA as a supplier of manifests (e.g., states, waste handlers, and/or commercial forms printers).
- 4. Movement document requirements for export shipments.
 - (i) All exporters must ensure that a movement document meeting the conditions of subpart (ii) of this part accompanies each transboundary movement of hazardous wastes from the initiation of the shipment until it reaches the foreign receiving facility, including cases in which the hazardous waste is stored and/or sorted by the foreign importer prior to shipment to the foreign receiving facility, except as provided in items (I) and (II) of this subpart.
 - (I) For shipments of hazardous waste within the United States solely by water (bulk shipments only), the exporter must forward the movement document to the last water (bulk shipment) transporter to handle the waste in the United States if exported by water.

- (II) For rail shipments of hazardous waste within the United States which start from the company originating the export shipment, the exporter must forward the movement document to the next non-rail transporter, if any, or the last rail transporter to handle the waste in the United States if exported by rail.
- (ii) The movement document must include the following items (I) through (XV) of this subpart:
 - (I) The corresponding consent number(s) and hazardous waste number(s) for the listed hazardous waste from the relevant EPA AOC(s);
 - (II) The shipment number and the total number of shipments from the EPA AOC;
 - (III) Exporter name and EPA identification number, address, telephone, fax numbers, and email address;
 - (IV) Foreign receiving facility name, address, telephone, fax numbers, email address, technologies employed, and the applicable recovery or disposal operations as defined in subparagraph (b) of this paragraph;
 - (V) Foreign importer name (if not the owner or operator of the foreign receiving facility), address, telephone, fax numbers, and email address;
 - (VI) Description(s) of each hazardous waste, quantity of each hazardous waste in the shipment, applicable RCRA hazardous waste code(s) for each hazardous waste, applicable OECD waste code for each hazardous waste from the lists incorporated by reference in subparagraph (2)(b) of Rule 0400-12-01-.01, and the United Nations/U.S. Department of Transportation (DOT) ID number for each hazardous waste;
 - (VII) Date movement commenced;
 - (VIII) Name (if not exporter), address, telephone, fax numbers, and email of company originating the shipment;
 - (IX) Company name, EPA ID number, address, telephone, fax, and email address of all transporters;
 - Identification (license, registered name or registration number) of means of transport, including types of packaging;
 - (XI) Any special precautions to be taken by transporter(s);
 - (XII) Certification/declaration signed and dated by the exporter that the information in the movement document is complete and correct:
 - (XIII) Appropriate signatures for each custody transfer (e.g., transporter, importer, and owner or operator of the foreign receiving facility);
 - (XIV) Each U.S. person that has physical custody of the hazardous waste from the time the movement commences until it arrives at the foreign receiving facility must sign the movement document (e.g., transporter, foreign importer, and owner or operator of the foreign receiving facility); and
 - (XV) As part of the contract requirements per part 6 of this subparagraph, the exporter must require that the foreign receiving facility send a copy of the signed movement document to confirm receipt within three working days of shipment delivery to the exporter, to the competent authorities of the

countries of import and transit, and for shipments occurring on or after the electronic import-export reporting compliance date, the exporter must additionally require that the foreign receiving facility send a copy to EPA at the same time using the allowable methods listed in subpart 2(i) of this subparagraph.

- 5. Duty to return or re-export hazardous wastes. When a transboundary movement of hazardous wastes cannot be completed in accordance with the terms of the contract or the consent(s) and alternative arrangements cannot be made to recover or dispose of the waste in an environmentally sound manner in the country of import, the exporter must ensure that the hazardous waste is returned to the United States or re-exported to a third country. If the waste must be returned, the exporter must provide for the return of the hazardous waste shipment within 90 days from the time the country of import informs EPA of the need to return the waste or such other period of time as the concerned countries agree. In all cases, the exporter must submit an exception report to EPA in accordance with part 8 of this subparagraph.
- 6. Export contract requirements
 - (i) Exports of hazardous waste are prohibited unless they occur under the terms of a valid written contract, chain of contracts, or equivalent arrangements (when the movement occurs between parties controlled by the same corporate or legal entity). Such contracts or equivalent arrangements must be executed by the exporter, foreign importer (if different from the foreign receiving facility), and the owner or operator of the foreign receiving facility, and must specify responsibilities for each. Contracts or equivalent arrangements are valid for the purposes of this part only if persons assuming obligations under the contracts or equivalent arrangements have appropriate legal status to conduct the operations specified in the contract or equivalent arrangements.
 - (ii) Contracts or equivalent arrangements must specify the name and EPA ID number, where available, of items (I) through (IV) of this subpart:
 - (I) The company from where each export shipment of hazardous waste is initiated;
 - (II) Each person who will have physical custody of the hazardous wastes;
 - (III) Each person who will have legal control of the hazardous wastes; and
 - (IV) The foreign receiving facility.
 - (iii) Contracts or equivalent arrangements must specify which party to the contract will assume responsibility for alternate management of the hazardous wastes if their disposition cannot be carried out as described in the notification of intent to export. In such cases, contracts must specify that:
 - (I) The transporter or foreign receiving facility having actual possession or physical control over the hazardous wastes will immediately inform the exporter, EPA, and either the competent authority of the country of transit or the competent authority of the country of import of the need to make alternate management arrangements; and
 - (II) The person specified in the contract will assume responsibility for the adequate management of the hazardous wastes in compliance with applicable laws and regulations including, if necessary, arranging the return of hazardous wastes and, as the case may be, shall provide the notification for re-export to the competent authority in the country of import and include the equivalent of the information required in paragraph (b)(1) of this section, the original consent number issued for the initial export of the hazardous wastes in the notification, and obtain

consent from EPA and the competent authorities in the new country of import and any transit countries prior to re-export.

- (iv) Contracts must specify that the foreign receiving facility send a copy of the signed movement document to confirm receipt within three working days of shipment delivery to the exporter and to the competent authorities of the countries of import and transit. For contracts that will be in effect on or after the electronic import-export reporting compliance date, the contracts must additionally specify that the foreign receiving facility send a copy to EPA at the same time using the allowable methods listed in subpart 2(i) of this subparagraph on or after that date.
- (v) Contracts must specify that the foreign receiving facility shall send a copy of the signed and dated confirmation of recovery or disposal, as soon as possible, but no later than 30 days after completing recovery or disposal on the waste in the shipment and no later than one calendar year following receipt of the waste, to the exporter and to the competent authority of the country of import. For contracts that will be in effect on or after the electronic import-export reporting compliance date, the contracts must additionally specify that the foreign receiving facility send a copy to EPA at the same time using the allowable methods listed in subpart 2(i) of this subparagraph on or after that date.
- (vi) Contracts must specify that the foreign importer or the foreign receiving facility that performed interim recycling operations R12, R13, or RC16, or interim disposal operations D13 through D15 or DC17, (recovery and disposal operations defined in subparagraph (b) of this paragraph) as appropriate, will:
 - (I) Provide the notification required in item (iii)(II) of this part prior to any reexport of the hazardous wastes to a final foreign recovery or disposal facility in a third country; and
 - (II) Promptly send copies of the confirmation of recovery or disposal that it receives from the final foreign recovery or disposal facility within one year of shipment delivery to the final foreign recovery or disposal facility that performed one of recovery operations R1 through R11, or RC16, or one of disposal operations D1 through D12, DC15 or DC16 to the competent authority of the country of import. For contracts that will be in effect on or after the electronic import-export reporting compliance date, the contracts must additionally specify that the foreign facility send copies to EPA at the same time using the allowable method listed in subpart 2(i) of this subparagraph on or after that date.
- (vii) Contracts or equivalent arrangements must include provisions for financial guarantees, if required by the competent authorities of the country of import and any countries of transit, in accordance with applicable national or international law requirements.

(Note: Financial guarantees so required are intended to provide for alternate recycling, disposal or other means of sound management of the wastes in cases where arrangements for the shipment and the recovery operations cannot be carried out as foreseen. The United States does not require such financial guarantees at this time; however, some OECD Member countries and other foreign countries do. It is the responsibility of the exporter to ascertain and comply with such requirements; in some cases, persons or facilities located in those OECD Member countries or other foreign countries may refuse to enter into the necessary contracts absent specific references or certifications to financial guarantees.)

(viii) Contracts or equivalent arrangements must contain provisions requiring each contracting party to comply with all applicable requirements of this paragraph.

- (ix) Upon request by EPA, U.S. exporters, importers, or recovery facilities must submit to EPA copies of contracts, chain of contracts, or equivalent arrangements (when the movement occurs between parties controlled by the same corporate or legal entity).
- 7. Annual reports. The exporter shall file an annual report with EPA no later than March 1 of each year summarizing the types, quantities, frequency, and ultimate destination of all such hazardous waste exported during the previous calendar year. Prior to one year after the AES filing compliance date, the exporter must mail or hand-deliver annual reports to EPA using one of the addresses specified in part (c)5 of this paragraph, or submit to EPA using the allowable methods specified in subpart 2(i) of this subparagraph if the exporter has electronically filed EPA information in AES, or its successor system, per subitem 1(vi)(I)I of this subparagraph for all shipments made the previous calendar year. Subsequently, the exporter must submit annual reports to EPA using the allowable methods specified in subpart 2(i) of this subparagraph. The annual report must include all of the following subparts (i) through (vi) of this part specified as follows:
 - (i) The EPA identification number, name, and mailing and site address of the exporter filing the report;
 - (ii) The calendar year covered by the report;
 - (iii) The name and site address of each foreign receiving facility;
 - (iv) By foreign receiving facility, for each hazardous waste exported:
 - (I) A description of the hazardous waste;
 - (II) The applicable EPA hazardous waste code(s) (from paragraphs (3) or (4) of Rule 0400-12-01-.02) for each waste;
 - (III) The applicable waste code from the appropriate OECD waste list incorporated by reference in subparagraph (2)(b) of Rule 0400-12-01-.01;
 - (IV) The applicable DOT ID number;
 - (V) The name and U.S. EPA ID number (where applicable) for each transporter used over the calendar year covered by the report; and
 - (VI) The consent number(s) under which the hazardous waste was shipped, and for each consent number, the total amount of the hazardous waste and the number of shipments exported during the calendar year covered by the report;
 - (v) In even numbered years, for each hazardous waste exported, except for hazardous waste produced by exporters of greater than 100kg but less than 1,000kg in a calendar month, and except for hazardous waste for which information was already provided pursuant to subparagraph (5)(b) of this rule:
 - (I) A description of the efforts undertaken during the year to reduce the volume and toxicity of the waste generated; and
 - (II) A description of the changes in volume and toxicity of the waste actually achieved during the year in comparison to previous years to the extent such information is available for years prior to 1984; and
 - (vi) A certification signed by the exporter that states:

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based

on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment."

- 8. Exception reports.
 - (i) The exporter must file an exception report in lieu of the requirements of subparagraph (5)(c) of this rule (if applicable) with EPA if any of the following occurs:
 - (I) The exporter has not received a copy of the RCRA hazardous waste manifest (if applicable) signed by the transporter identifying the point of departure of the hazardous waste from the United States, within 45 days from the date it was accepted by the initial transporter, in which case the exporter must file the exception report within the next 30 days;
 - (II) The exporter has not received a written confirmation of receipt from the foreign receiving facility in accordance with part 4 of this subparagraph within 90 days from the date the waste was accepted by the initial transporter in which case the exporter must the exception report within 30 days; or
 - (III) The foreign receiving facility notifies the exporter, or the country of import notifies EPA, of the need to return the shipment to the U.S. or arrange alternate management, in which case the exporter must file the exception report within 30 days of notification, or one day prior to the date the return shipment commences, whichever is sooner.
 - (ii) Prior to the electronic import-export reporting compliance date, exception reports must be mailed or hand delivered to EPA using the addresses listed in part (c)5 of this paragraph. Subsequently, exception reports must be submitted to EPA using the allowable methods listed in subpart 2(i) of this subparagraph.
- 9. Recordkeeping.
 - (i) The exporter shall keep the following records in items (I) through (V) of this subpart and provide them to EPA or authorized state personnel upon request:
 - A copy of each notification of intent to export and each EPA AOC for a period of at least three years from the date the hazardous waste was accepted by the initial transporter;
 - (II) A copy of each annual report for a period of at least three years from the due date of the report;
 - (III) A copy of any exception reports and a copy of each confirmation of receipt (i.e., movement document) sent by the foreign receiving facility to the exporter for at least three years from the date the hazardous waste was accepted by the initial transporter; and
 - (IV) A copy of each confirmation of recovery or disposal sent by the foreign receiving facility to the exporter for at least three years from the date that the foreign receiving facility completed interim or final processing of the hazardous waste shipment.
 - (V) A copy of each contract or equivalent arrangement established subparagraph (f) of this paragraph for at least three years from the expiration date of the contract or equivalent arrangement.

- (ii) Exporters may satisfy these recordkeeping requirements by retaining electronically submitted documents in the exporter's account on EPA's Waste Import Export Tracking System (WIETS), or its successor system, provided that copies are readily available for viewing and production if requested by any EPA or authorized state inspector. No exporter may be held liable for the inability to produce such documents for inspection under this part if the exporter can demonstrate that the inability to produce the document is due exclusively to technical difficulty with EPA's Waste Import Export Tracking System (WIETS), or its successor system for which the exporter bears no responsibility.
- (iii) The periods of retention referred to in this part are extended automatically during the course of any unresolved enforcement action regarding the regulated activity or as requested by the Administrator.
- (e) Imports of hazardous waste. [40 CFR 262.84]
 - 1. General import requirements.
 - (i) With the exception of subpart (v) of this part, importers of shipments covered under a consent from EPA to the country of export issued before December 31, 2016 are subject to that approval and the requirements that existed at the time of that approval until such time the approval period expires. Otherwise, any other person who imports hazardous waste from a foreign country into the United States must comply with the requirements of this rule and the special requirements of this paragraph.
 - (ii) In cases where the country of export does not require the foreign exporter to submit a notification and obtain consent to the export prior to shipment, the importer must submit a notification to EPA in accordance with part 2 of this subparagraph.
 - (iii) The importer must comply with the contract requirements in part 6 of this subparagraph.
 - (iv) The importer must ensure compliance with the movement documents requirements in part 4 of this subparagraph; and
 - (v) The importer must ensure compliance with the manifest instructions for import shipments in part 3 of this subparagraph.
 - 2. Notifications. In cases where the competent authority of the country of export does not regulate the waste as hazardous waste and, thus, does not require the foreign exporter to submit to it a notification proposing export and obtain consent from EPA and the competent authorities for the countries of transit, but EPA does regulate the waste as hazardous waste:
 - (i) The importer is required to provide notification in English to EPA of the proposed transboundary movement of hazardous waste at least 60 days before the first shipment is expected to depart the country of export. Notifications submitted prior to the electronic import-export reporting compliance date must be mailed or hand delivered to EPA at the addresses specified in part (c)5 of this paragraph. Notifications submitted on or after the electronic import-export reporting compliance date must be submitted electronically using EPA's Waste Import Export Tracking System (WIETS), or its successor system. The notification may cover up to one year of shipments of one or more hazardous wastes being sent from the same foreign exporter, and must include all of the following information:
 - (I) Foreign exporter name, address, telephone, fax numbers, and email address;

- Receiving facility name, EPA ID number, address, telephone, fax numbers, email address, technologies employed, and the applicable recovery or disposal operations as defined in subparagraph (b) of this paragraph;
- (III) Importer name (if not the owner or operator of the receiving facility), EPA ID number, address, telephone, fax numbers, and email address;
- (IV) Intended transporter(s) and/or their agent(s); address, telephone, fax, and email address;
- (V) "U.S." as the country of import, "USA01" as the relevant competent authority code, and the intended U.S. port(s) of entry;
- (VI) The ISO standard 3166 country name 2-digit code, OECD/Basel competent authority code, and the ports of entry and exit for each country of transit;
- (VII) The ISO standard 3166 country name 2-digit code, OECD/Basel competent authority code, and port of exit for the country of export;
- (VIII) Statement of whether the notification covers a single shipment or multiple shipments;
- (IX) Start and End Dates requested for transboundary movements;
- (X) Means of transport planned to be used;
- (XI) Description(s) of each hazardous waste, including whether each hazardous waste is regulated universal waste under Rule 0400-12-01-.12, spent lead-acid batteries being exported for recovery of lead under paragraph (7) of Rule 0400-12-01-.09, or industrial ethyl alcohol being exported for reclamation under item (1)(f)1(iii)(I) of Rule 0400-12-01-.02, estimated total quantity of each hazardous waste, the applicable RCRA hazardous waste code(s) for each hazardous waste, the applicable OECD waste code from the lists incorporated by reference in subparagraph (2)(b) of Rule 0400-12-01-.01, and the United Nations/U.S. Department of Transportation (DOT) ID number for each hazardous waste;
- (XII) Specification of the recovery or disposal operation(s) as defined in subparagraph (b) of this paragraph; and
- (XIII) Certification/Declaration signed by the importer that states:

"I certify that the above information is complete and correct to the best of my knowledge. I also certify that legally enforceable written contractual obligations have been entered into and that any applicable insurance or other financial guarantee is or shall be in force covering the transboundary movement."

Name: _____

Signature: _____

Date:

(Note: The United States does not currently require financial assurance for these waste shipments.)

(ii) Notifications listing interim recycling operations or interim disposal operations. If the receiving facility listed in item (i)(II) of this part will engage in any of the

interim recovery operations R12 or R13 or interim disposal operations D13 through D15, the notification submitted according to subpart (i) of this part must also include the final recovery or disposal facility name, address, telephone, fax numbers, email address, technologies employed, and which of the applicable recovery or disposal operations R1 through R11 and D1 through D12, will be employed at the final recovery or disposal facility. The recovery and disposal operations in this subpart are defined in subparagraph (b) of this paragraph.

- (iii) Renotifications. When the foreign exporter wishes to change any of the conditions specified on the original notification (including increasing the estimate of the total quantity of hazardous waste specified in the original notification or adding transporters), the importer must submit a renotification of the changes to EPA using the allowable methods in subpart (i) of this part. Any shipment using the requested changes cannot take place until EPA and the countries of transit consent to the changes and the importer receives an EPA AOC letter documenting the consents to the changes.
- (iv) A notification is complete when EPA determines the notification satisfies the requirements of items (i)(I) through (XIII) of this part.
- (v) Where EPA and the countries of transit consent to the proposed transboundary movement(s) of the hazardous waste(s), EPA will forward an EPA AOC letter to the importer documenting the countries' consents and EPA's consent. Where any of the countries of transit or EPA objects to the proposed transboundary movement(s) of the hazardous waste or withdraws a prior consent, EPA will notify the importer.
- (vi) Export of hazardous wastes originally imported into the United States. Export of hazardous wastes that were originally imported into the United States for recycling or disposal operations is prohibited unless an exporter in the United States complies with the export requirements in subpart (d)2(vii) of this paragraph.
- 3. RCRA Manifest instructions for import shipments.
 - (i) When importing hazardous waste, the importer must meet all the requirements of subparagraph (3)(a) of this rule for the manifest except that:
 - (I) In place of the generator's name, address and EPA identification number, the name and address of the foreign generator and the importer's name, address and EPA identification number must be used.
 - (II) In place of the generator's signature on the certification statement, the importer or his agent must sign and date the certification and obtain the signature of the initial transporter.
 - (ii) The importer may obtain the manifest form from any source that is registered with the EPA as a supplier of manifests (e.g., states, waste handlers, and/or commercial forms printers).
 - (iii) In the International Shipments block, the importer must check the import box and enter the point of entry (city and State) into the United States.
 - (iv) The importer must provide the transporter with an additional copy of the manifest to be submitted by the receiving facility to U.S. EPA in accordance with subpart (5)(b)1(iii) of Rule 0400-12-01-.05 and subpart (5)(b)1(iii) of Rule 0400-12-01-.06.
 - (v) In lieu of the requirements of part (3)(a)4 of this rule, where a shipment cannot be delivered for any reason to the receiving facility, the importer must instruct the transporter in writing via fax, email or mail to:

- (I) Return the hazardous waste to the foreign exporter or designate another facility within the United States; and
- (II) Revise the manifest in accordance with the importer's instructions.
- 4. Movement document requirements for import shipments.
 - (i) The importer must ensure that a movement document meeting the conditions of subpart (ii) of this part accompanies each transboundary movement of hazardous wastes from the initiation of the shipment in the country of export until it reaches the receiving facility, including cases in which the hazardous waste is stored and/or sorted by the importer prior to shipment to the receiving facility, except as provided in items (I) and (II) of this subpart.
 - (I) For shipments of hazardous waste within the United States by water (bulk shipments only), the importer must forward the movement document to the last water (bulk shipment) transporter to handle the hazardous waste in the United States if imported by water.
 - (II) For rail shipments of hazardous waste within the United States which start from the company originating the export shipment, the importer must forward the movement document to the next non-rail transporter, if any, or the last rail transporter to handle the hazardous waste in the United States if imported by rail.
 - (ii) The movement document must include the following items (I) through (XV) of this subpart:
 - (I) The corresponding AOC number(s) and waste number(s) for the listed waste;
 - (II) The shipment number and the total number of shipments under the AOC number;
 - (III) Foreign exporter name, address, telephone, fax numbers, and email address;
 - (IV) Receiving facility name, EPA ID number, address, telephone, fax numbers, email address, technologies employed, and the applicable recovery or disposal operations as defined in subparagraph (b) of this paragraph;
 - (V) Importer name (if not the owner or operator of the receiving facility), EPA ID number, address, telephone, fax numbers, and email address;
 - (VI) Description(s) of each hazardous waste, quantity of each hazardous waste in the shipment, applicable RCRA hazardous waste code(s) for each hazardous waste, the applicable OECD waste code for each hazardous waste from the lists incorporated by reference in subparagraph (2)(b) of Rule 0400-12-01-.01, and the United Nations/U.S. Department of Transportation (DOT) ID number for each hazardous waste;
 - (VII) Date movement commenced;
 - (VIII) Name (if not the foreign exporter), address, telephone, fax numbers, and email of the foreign company originating the shipment;
 - (IX) Company name, EPA ID number, address, telephone, fax, and email address of all transporters;

- (X) Identification (license, registered name or registration number) of means of transport, including types of packaging;
- (XI) Any special precautions to be taken by transporter(s);
- (XII) Certification/declaration signed and dated by the foreign exporter that the information in the movement document is complete and correct;
- (XIII) Appropriate signatures for each custody transfer (e.g., transporter, importer, and owner or operator of the receiving facility);
- (XIV) Each person that has physical custody of the waste from the time the movement commences until it arrives at the receiving facility must sign the movement document (e.g., transporter, importer, and owner or operator of the receiving facility); and
- (XV) The receiving facility must send a copy of the signed movement document to confirm receipt within three working days of shipment delivery to the foreign exporter, to the competent authorities of the countries of export and transit, and for shipments received on or after the electronic import-export reporting compliance date, to EPA electronically using EPA's Waste Import Export Tracking System (WIETS), or its successor system.
- 5. Duty to return or export hazardous wastes. When a transboundary movement of hazardous wastes cannot be completed in accordance with the terms of the contract or the consent(s), the provisions of subpart 6(iv) of this subparagraph apply. If alternative arrangements cannot be made to recover the hazardous waste in an environmentally sound manner in the United States, the hazardous waste must be returned to the country of export or exported to a third country. The provisions of subpart 2(vi) of this subparagraph apply to any hazardous waste shipments to be exported to a third country. If the return shipment will cross any transit country, the return shipment may only occur after EPA provides notification to and obtains consent from the competent authority of the country of transit, and provides a copy of that consent to the importer.
- 6. Import contract requirements.
 - (i) Imports of hazardous waste must occur under the terms of a valid written contract, chain of contracts, or equivalent arrangements (when the movement occurs between parties controlled by the same corporate or legal entity). Such contracts or equivalent arrangements must be executed by the foreign exporter, importer, and the owner or operator of the receiving facility, and must specify responsibilities for each. Contracts or equivalent arrangements are valid for the purposes of this part only if persons assuming obligations under the contracts or equivalent arrangements have appropriate legal status to conduct the operations specified in the contract or equivalent arrangements.
 - (ii) Contracts or equivalent arrangements must specify the name and EPA ID number, where available, of items (I) through (IV) of this subpart:
 - (I) The foreign company from where each import shipment of hazardous waste is initiated;
 - (II) Each person who will have physical custody of the hazardous wastes;
 - (III) Each person who will have legal control of the hazardous wastes; and
 - (IV) The receiving facility.
 - (iii) Contracts or equivalent arrangements must specify the use of a movement document in accordance with part 4 of this subparagraph.

- (iv) Contracts or equivalent arrangements must specify which party to the contract will assume responsibility for alternate management of the hazardous wastes if their disposition cannot be carried out as described in the notification of intent to export submitted by either the foreign exporter or the importer. In such cases, contracts must specify that:
 - (I) The transporter or receiving facility having actual possession or physical control over the hazardous wastes will immediately inform the foreign exporter and importer, and the competent authority where the shipment is located of the need to arrange alternate management or return; and
 - (II) The person specified in the contract will assume responsibility for the adequate management of the hazardous wastes in compliance with applicable laws and regulations including, if necessary, arranging the return of the hazardous wastes and, as the case may be, shall provide the notification for re-export required in subpart (d)2(vii) of this paragraph.
- (v) Contracts must specify that the importer or the receiving facility that performed interim recycling operations R12, R13, or RC16, or interim disposal operations D13 through D15 or DC15 through DC17, as appropriate, will provide the notification required in subpart (d)2(vii) of this paragraph prior to the re-export of hazardous wastes. The recovery and disposal operations in this paragraph are defined in subparagraph (b) of this paragraph.
- (vi) Contracts or equivalent arrangements must include provisions for financial guarantees, if required by the competent authorities of any countries concerned, in accordance with applicable national or international law requirements.

(Note: Financial guarantees so required are intended to provide for alternate recycling, disposal or other means of sound management of the wastes in cases where arrangements for the shipment and the recovery operations cannot be carried out as foreseen. The United States does not require such financial guarantees at this time; however, some OECD Member countries or other foreign countries do. It is the responsibility of the importer to ascertain and comply with such requirements; in some cases, persons or facilities located in those countries may refuse to enter into the necessary contracts absent specific references or certifications to financial guarantees.)

- (vii) Contracts or equivalent arrangements must contain provisions requiring each contracting party to comply with all applicable requirements of this paragraph.
- (viii) Upon request by EPA, importers or disposal or recovery facilities must submit to EPA copies of contracts, chain of contracts, or equivalent arrangements (when the movement occurs between parties controlled by the same corporate or legal entity).
- 7. Confirmation of recovery or disposal. The receiving facility must do the following:
 - (i) Send copies of the signed and dated confirmation of recovery or disposal, as soon as possible, but no later than 30 days after completing recovery or disposal on the waste in the shipment and no later than one calendar year following receipt of the waste, to the foreign exporter, to the competent authority of the country of export, and for shipments recycled or disposed of on or after the electronic import-export reporting compliance date, to EPA electronically using EPA's Waste Import Export Tracking System (WIETS), or its successor system.
 - (ii) If the receiving facility performed any of recovery operations R12, R13, or RC16, or disposal operations D13 through D15, or DC17, the receiving facility shall promptly send copies of the confirmation of recovery or disposal that it receives

from the final recovery or disposal facility within one year of shipment delivery to the final recovery or disposal facility that performed one of recovery operations R1 through R11, or RC14 to RC15, or one of disposal operations D1 through D12, or DC15 to DC16, to the competent authority of the country of export, and for confirmations received on or after the electronic import-export reporting compliance date, to EPA electronically using EPA's Waste Import Export Tracking System (WIETS), or its successor system. The recovery and disposal operations in this paragraph are defined in subparagraph (b) of this paragraph.

- 8. Recordkeeping.
 - (i) The importer shall keep the following records and provide them to EPA or authorized state personnel upon request:
 - A copy of each notification that the importer sends to EPA under subpart 2(i) of this subparagraph and each EPA AOC it receives in response for a period of at least three years from the date the hazardous waste was accepted by the initial foreign transporter; and
 - (II) A copy of each contract or equivalent arrangement established per part 6 of this subparagraph for at least three years from the expiration date of the contract or equivalent arrangement.
 - (ii) The receiving facility shall keep the following records:
 - A copy of each confirmation of receipt (i.e., movement document) that the receiving facility sends to the foreign exporter for at least three years from the date it received the hazardous waste;
 - (II) A copy of each confirmation of recovery or disposal that the receiving facility sends to the foreign exporter for at least three years from the date that it completed processing the waste shipment;
 - (III) For the receiving facility that performed any of recovery operations R12, R13, or RC16, or disposal operations D13 through D15, or DC17 (recovery and disposal operations defined in subparagraph (b) of this paragraph, a copy of each confirmation of recovery or disposal that the final recovery or disposal facility sent to it for at least three years from the date that the final recovery or disposal facility completed processing the waste shipment; and
 - (IV) A copy of each contract or equivalent arrangement established per part 6 of this subparagraph for at least three years from the expiration date of the contract or equivalent arrangement.
 - (iii) Importers and receiving facilities may satisfy these recordkeeping requirements by retaining electronically submitted documents in the importer's or receiving facility's account on EPA's Waste Import Export Tracking System (WIETS), or its successor system, provided that copies are readily available for viewing and production if requested by any EPA or authorized state inspector. No importer or receiving facility may be held liable for the inability to produce such documents for inspection under this part if the importer or receiving facility can demonstrate that the inability to produce the document is due exclusively to technical difficulty with EPA's Waste Import Export Tracking System (WIETS), or its successor system for which the importer or receiving facility bears no responsibility.
 - (iv) The periods of retention referred to in this part are extended automatically during the course of any unresolved enforcement action regarding the regulated activity or as requested by the Administrator.

(f) through (j) [Reserved] [40 CFR 262.85-262.89]

- (10) Alternative Requirements for Hazardous Waste Determination and Accumulation of Unwanted Material for Laboratories Owned by Eligible Academic Entities [40 CFR 262, Subpart K]
 - (a) Definitions for this paragraph [40 CFR 262.200]

The following definitions apply to this paragraph:

- 1. [Reserved]
- 2. "College/University" means a private or public, post-secondary, degree-granting, academic institution, that is accredited by an accrediting agency listed annually by the U.S. Department of Education.
- 3. "Eligible academic entity" means a college or university, or a non-profit research institute that is owned by or has a formal written affiliation agreement with a college or university, or a teaching hospital that is owned by or has a formal written affiliation agreement with a college or university.
- 4. "Formal written affiliation agreement" means:
 - (i) For a non-profit research institute, a written document that establishes a relationship between institutions for the purposes of research and/or education and is signed by authorized representatives, as defined by subparagraph (2)(a) of Rule 0400-12-01-.01, from each institution.
 - (ii) For a teaching hospital, a master affiliation agreement and program letter of agreement, as defined by the Accreditation Council for Graduate Medical Education, with an accredited medical program or medical school.

A relationship on a project-by-project or grant-by-grant basis is not considered a formal written affiliation agreement.

- 5. "Laboratory" means an area owned by an eligible academic entity where relatively small quantities of chemicals and other substances are used on a non-production basis for teaching or research (or diagnostic purposes at a teaching hospital) and are stored and used in containers that are easily manipulated by one person. Photo laboratories, art studios, and field laboratories are considered laboratories. Areas such as chemical stockrooms and preparatory laboratories that provide a support function to teaching or research laboratories (or diagnostic laboratories at teaching hospitals) are also considered laboratories.
- 6. "Laboratory clean-out" means an evaluation of the inventory of chemicals and other materials in a laboratory that are no longer needed or that have expired and the subsequent removal of those chemicals or other unwanted materials from the laboratory. A clean-out may occur for several reasons. It may be on a routine basis (e.g., at the end of a semester or academic year) or as a result of a renovation, relocation, or change in laboratory supervisor/occupant. A regularly scheduled removal of unwanted material as required by subparagraph (i) of this paragraph does not qualify as a laboratory clean-out.
- 7. "Laboratory worker" means a person who handles chemicals and/or unwanted material in a laboratory and may include, but is not limited to, faculty, staff, post-doctoral fellows, interns, researchers, technicians, supervisors/managers, and principal investigators. A person does not need to be paid or otherwise compensated for his/her work in the laboratory to be considered a laboratory worker. Undergraduate and graduate students in a supervised classroom setting are not laboratory workers.
- "Non-profit research institute" means an organization that conducts research as its primary function and files as a non-profit organization under the tax code of 26 U.S.C. 501(c)(3).

- 9. "Reactive acutely hazardous unwanted material" means an unwanted material that is one of the acutely hazardous commercial chemical products listed in part (4)(d)5 of Rule 0400-12-01-.02 for reactivity.
- 10. "Teaching hospital" means a hospital that trains students to become physicians, nurses. or other health or laboratory personnel.
- 11. "Trained professional" means a person who has completed the applicable training requirements of subparagraph (1)(h) of this rule for large quantity generators or is knowledgeable about normal operations and emergencies in accordance with subparagraph (1)(g) of this rule for small quantity generators and very small quantity generators. A trained professional may be an employee of the eligible academic entity or may be a contractor or vendor who meets the requisite training requirements.
- 12. "Unwanted material" means any chemical, mixtures of chemicals, products of experiments, or other material from a laboratory that is no longer needed, wanted, or usable in the laboratory and that is destined for hazardous waste determination by a trained professional. Unwanted materials include reactive acutely hazardous unwanted materials and materials that may eventually be determined not to be solid waste pursuant to parts (1)(b)1 through 4 of Rule 0400-12-01-.02, or a hazardous waste pursuant to subparagraph (1)(c) of Rule 0400-12-01-.02. If an eligible academic entity elects to use another equally effective term in lieu of "unwanted material," as allowed by item (g)1(i)(l) of this paragraph, the equally effective term has the same meaning and is subject to the same requirements as "unwanted material" under this paragraph.
- 13. "Working container" means a small container (i.e., two gallons or less) that is in use at a laboratory bench, hood, or other work station, to collect unwanted material from a laboratory experiment or procedure.
- (b) Applicability of this paragraph. [40 CFR 262.201]
 - 1. Large quantity generators and small quantity generators.

This paragraph provides alternative requirements to the requirements in subparagraphs (1)(b) and (f) of this rule for the hazardous waste determination and accumulation of hazardous waste in laboratories owned by eligible academic entities that choose to be subject to this paragraph, provided that they complete the notification requirements of subparagraph (d) of this paragraph.

2. Very small quantity generators.

This paragraph provides alternative requirements to the conditional exemption in subparagraph (1)(e) of this rule for the accumulation of hazardous waste in laboratories owned by eligible academic entities that choose to be subject to this paragraph, provided that they complete the notification requirements subparagraph (d) of this paragraph.

- (c) This paragraph is optional. [40 CFR 262.202]
 - 1. Large quantity generators and small quantity generators.

Eligible academic entities have the option of complying with this paragraph with respect to its laboratories as an alternative to complying with the requirements of subparagraphs (1)(b) and (f) of this rule.

2. Very small quantity generators.

Eligible academic entities have the option of complying with this paragraph with respect to its laboratories as an alternative to complying with the conditional exemption of subparagraph (1)(e) of this rule.

- (d) How an eligible academic entity indicates it will be subject to the requirements of this paragraph. [40 CFR 262.203]
 - 1. An eligible academic entity must notify the Commissioner in writing that it is electing to be subject to the requirements of this paragraph for all the laboratories owned by the eligible academic entity under the same Installation Identification Number. An eligible academic entity that is a very small quantity generator and does not have an Installation Identification Number must notify that it is electing to be subject to the requirements of this paragraph for all the laboratories owned by the eligible academic entity that are on-site, as defined in subparagraph (2)(a) of Rule 0400-12-01-.01. An eligible academic entity must submit a separate notification Number (or site, for very small quantity generators) that is electing to be subject to the requirements of this paragraph, and must submit the Hazardous Waste Registration and Notification form before it begins operating under this paragraph.
 - 2. Such notification must be submitted on Hazardous Waste Registration and Notification forms provided by the Commissioner. The form must be completed according to the instructions accompanying it.
 - 3. An eligible academic entity must keep a copy of the notification on file at the eligible academic entity for as long as its laboratories are subject to this paragraph.
 - 4. A teaching hospital that is not owned by a college or university must keep a copy of its formal written affiliation agreement with a college or university on file at the teaching hospital for as long as its laboratories are subject to this paragraph.
 - 5. A non-profit research institute that is not owned by a college or university must keep a copy of its formal written affiliation agreement with a college or university on file at the non-profit research institute for as long as its laboratories are subject to this paragraph.
- (e) How an eligible academic entity indicates it will withdraw from the requirements of this paragraph. [40 CFR 262.204]
 - An eligible academic entity must notify the Commissioner in writing that it is electing to no 1. longer be subject to the requirements of this paragraph for all the laboratories owned by the eligible academic entity under the same Installation Identification Number and that it will comply with the requirements of subparagraphs (1)(b) and (f) of this rule for small quantity generators and large quantity generators. An eligible academic entity that is a very small quantity generator and does not have an Installation Identification Number must notify that it is withdrawing from the requirements of this paragraph for all the laboratories owned by the eligible academic entity that are on-site and that it will comply with the conditional exemption of subparagraph (1)(e) of this rule. An eligible academic entity must submit a separate notification (Hazardous Waste Registration and Notification form) for each Installation Identification Number (or site, for very small quantity generators) that is withdrawing from the requirements of this paragraph and must submit the Hazardous Waste Registration and Notification form before it begins operating under the requirements of subparagraphs (1)(b) and (f) of this rule for small quantity generators and large quantity generators, or subparagraph (1)(e) of this rule for very small quantity generators.
 - 2. Such notification must be submitted on Hazardous Waste Registration and Notification forms provided by the Commissioner. The form must be completed according to the instructions accompanying it.
 - 3. An eligible academic entity must keep a copy of the withdrawal notice on file at the eligible academic entity for three years from the date of the notification.
- (f) Summary of the requirements of this paragraph. [40 CFR 262.205]

An eligible academic entity that chooses to be subject to this paragraph is not required to have interim status or a hazardous waste management permit for the accumulation of unwanted material and hazardous waste in its laboratories, provided the laboratories comply with the provisions of this paragraph and the eligible academic entity has a Laboratory Management Plan (LMP) in accordance with subparagraph (o) of this paragraph that describes how the laboratories owned by the eligible academic entity will comply with the requirements of this paragraph.

(g) Labeling and management standards for containers of unwanted material in the laboratory. [40 CFR 262.206]

An eligible academic entity must manage containers of unwanted material while in the laboratory in accordance with the requirements in this subparagraph.

- 1. Labeling: Label unwanted material as follows:
 - (i) The following information must be affixed or attached to the container:
 - (I) The words "unwanted material" or another equally effective term that is to be used consistently by the eligible academic entity and that is identified in Part I of the Laboratory Management Plan; and
 - (II) Sufficient information to alert emergency responders to the contents of the container. Examples of information that would be sufficient to alert emergency responders to the contents of the container include, but are not limited to:
 - I. The name of the chemical(s); and
 - II. The type or class of chemical, such as organic solvents or halogenated organic solvents.
 - (ii) The following information may be affixed or attached to the container, but must at a minimum be associated with the container:
 - (I) The date that the unwanted material first began accumulating in the container; and
 - (II) Information sufficient to allow a trained professional to properly identify whether an unwanted material is a solid and hazardous waste and to assign the proper hazardous waste code(s), pursuant to subparagraph (1)(b) of this rule. Examples of information that would allow a trained professional to properly identify whether an unwanted material is a solid or hazardous waste include, but are not limited to:
 - I. The name and/or description of the chemical contents or composition of the unwanted material, or, if known, the product of the chemical reaction;
 - II. Whether the unwanted material has been used or is unused; and
 - III. A description of the manner in which the chemical was produced or processed, if applicable.
- 2. Management of Containers in the Laboratory:

An eligible academic entity must properly manage containers of unwanted material in the laboratory to assure safe storage of the unwanted material, to prevent leaks, spills, emissions to the air, adverse chemical reactions, and dangerous situations that may result in harm to human health or the environment. Proper container management must include the following:

- (i) Containers are maintained and kept in good condition and damaged containers are replaced, overpacked, or repaired; and
- (ii) Containers are compatible with their contents to avoid reactions between the contents and the container and are made of, or lined with, material that is compatible with the unwanted material so that the container's integrity is not impaired; and
- (iii) Containers must be kept closed at all times, except:
 - (I) When adding, removing, or bulking unwanted material; or
 - (II) A working container may be open until the end of the procedure or work shift, or until it is full, whichever comes first, at which time the working container must either be closed or the contents emptied into a separate container that is then closed; or
 - (III) When venting of a container is necessary:
 - I. For the proper operation of laboratory equipment, such as with in-line collection of unwanted materials from high performance liquid chromatographs; or
 - II. To prevent dangerous situations, such as build-up of extreme pressure.
- (h) Training. [40 CFR 262.207]

An eligible academic entity must provide training to all individuals working in a laboratory at the eligible academic entity, as follows:

- 1. Training for laboratory workers and students must be commensurate with their duties so they understand the requirements in this paragraph and can implement them.
- 2. An eligible academic entity can provide training for laboratory workers and students in a variety of ways, including, but not limited to:
 - (i) Instruction by the professor or laboratory manager before or during an experiment;
 - (ii) Formal classroom training;
 - (iii) Electronic/written training;
 - (iv) On-the-job training; or
 - (v) Written or oral exams.
- 3. An eligible academic entity that is a large quantity generator must maintain documentation for the durations specified in subpart (1)(h)1(vii) of this rule demonstrating training for all laboratory workers that is sufficient to determine whether laboratory workers have been trained. Examples of documentation demonstrating training can include, but are not limited to, the following:
 - (i) Sign-in/attendance sheet(s) for training session(s);
 - (ii) Syllabus for training session;
 - (iii) Certificate of training completion; or
 - (iv) Test results.

- 4. A trained professional must:
 - (i) Accompany the transfer of unwanted material and hazardous waste when the unwanted material and hazardous waste is removed from the laboratory; and
 - (ii) Make the hazardous waste determination, pursuant to parts (1)(b)1 through 4 of this rule, for unwanted material.
- (i) Removing containers of unwanted material from the laboratory. [40 CFR 262.208]
 - 1. Removing containers of unwanted material on a regular schedule. An eligible academic entity must either:
 - (i) Remove all containers of unwanted material from each laboratory on a regular interval, not to exceed 12 months; or
 - (ii) Remove containers of unwanted material from each laboratory within 12 months of each container's accumulation start date.
 - 2. The eligible academic entity must specify in Part I of its Laboratory Management Plan whether it will comply with subpart 1(i) or (ii) of this subparagraph for the regular removal of unwanted material from its laboratories.
 - 3. The eligible academic entity must specify in Part II of its Laboratory Management Plan how it will comply with subpart 1(i) or (ii) of this subparagraph and develop a schedule for regular removals of unwanted material from its laboratories.
 - 4. Removing containers of unwanted material when volumes are exceeded.
 - (i) If a laboratory accumulates a total volume of unwanted material (including reactive acutely hazardous unwanted material) in excess of 55 gallons before the regularly scheduled removal, the eligible academic entity must ensure that all containers of unwanted material in the laboratory (including reactive acutely hazardous unwanted material):
 - (I) Are marked on the label that is associated with the container (or on the label that is affixed or attached to the container, if that is preferred) with the date that 55 gallons is exceeded; and
 - (II) Are removed from the laboratory within 10 calendar days of the date that 55 gallons was exceeded, or at the next regularly scheduled removal, whichever comes first.
 - (ii) If a laboratory accumulates more than 1 quart of liquid reactive acutely hazardous unwanted material or more than 1 kg (2.2 pounds) of solid reactive acutely hazardous unwanted material before the regularly scheduled removal, then the eligible academic entity must ensure that all containers of reactive acutely hazardous unwanted material:
 - (I) Are marked on the label that is associated with the container (or on the label that is affixed or attached to the container, if that is preferred) with the date that 1 quart or 1 kg is exceeded; and
 - (II) Are removed from the laboratory within 10 calendar days of the date that 1 quart or 1 kg was exceeded, or at the next regularly scheduled removal, whichever comes first.
- (j) Where and when to make the hazardous waste determination and where to send containers of unwanted material upon removal from the laboratory. [40 CFR 262.209]

1. Large quantity generators and small quantity generators.

An eligible academic entity must ensure that a trained professional makes a hazardous waste determination, pursuant to subparagraph (1)(b) of this rule, for unwanted material in any of the following areas:

- (i) In the laboratory before the unwanted material is removed from the laboratory, in accordance with subparagraph (k) of this paragraph;
- (ii) Within four calendar days of arriving at an on-site central accumulation area, in accordance with subparagraph (I) of this paragraph; and
- (iii) Within four calendar days of arriving at an on-site interim status or permitted treatment, storage, or disposal facility, in accordance with subparagraph (m) of this paragraph.
- 2. Very small quantity generators.

An eligible academic entity must ensure that a trained professional makes a hazardous waste determination, pursuant to parts (1)(b)1 through 4 of this rule, for unwanted material in the laboratory before the unwanted material is removed from the laboratory, in accordance with subparagraph (k) of this paragraph.

(k) Making the hazardous waste determination in the laboratory before the unwanted material is removed from the laboratory. [40 CFR 262.210]

If an eligible academic entity makes the hazardous waste determination, pursuant to subparagraph (1)(b) of this rule, for unwanted material in the laboratory, it must comply with the following:

- 1. A trained professional must make the hazardous waste determination, pursuant to parts (1)(b)1 through 4 of this rule, before the unwanted material is removed from the laboratory.
- 2. If an unwanted material is a hazardous waste, the eligible academic entity must:
 - (i) Write the words "hazardous waste" on the container label that is affixed or attached to the container, before the hazardous waste may be removed from the laboratory; and
 - (ii) Write the appropriate hazardous waste code(s) on the label that is associated with the container (or on the label that is affixed or attached to the container, if that is preferred) before the hazardous waste is transported off-site; and
 - (iii) Count the hazardous waste toward the eligible academic entity's generator category, pursuant to subparagraph (1)(d) of this rule, in the calendar month that the hazardous waste determination was made.
- 3. A trained professional must accompany all hazardous waste that is transferred from the laboratory(ies) to an on-site central accumulation area or on-site interim status or permitted treatment, storage, or disposal facility.
- 4. When hazardous waste is removed from the laboratory:
 - Large quantity generators and small quantity generators must ensure it is taken directly from the laboratory(ies) to an on-site central accumulation area; on-site interim status or permitted treatment, storage or disposal facility; or transported off-site.

- (ii) Very small quantity generators must ensure it is taken directly from the laboratory(ies) to any of the types of facilities listed in subparagraph (1)(d) of this rule.
- 5. An unwanted material that is a hazardous waste is subject to all applicable hazardous waste regulations when it is removed from the laboratory.
- (I) Making the hazardous waste determination at an on-site central accumulation area. [40 CFR 262.211]

If an eligible academic entity makes the hazardous waste determination, pursuant to subparagraph (1)(b) of this rule, for unwanted material at an on-site central accumulation area, it must comply with the following:

- 1. A trained professional must accompany all unwanted material that is transferred from the laboratory(ies) to an on-site central accumulation area;
- 2. All unwanted material removed from the laboratory(ies) must be taken directly from the laboratory(ies) to the on-site central accumulation area;
- 3. The unwanted material becomes subject to the generator accumulation regulations of subparagraph (1)(g) of this rule for small quantity generators or subparagraph (1)(h) of this rule for large quantity generators as soon as it arrives in the central accumulation area, except for the "hazardous waste" labeling conditions of subpart (1)(g)2(vi) of this rule and subpart (1)(h)1(v) of this rule;
- 4. A trained professional must determine, pursuant to parts (1)(b)1 through 4 of this rule, if the unwanted material is a hazardous waste within four calendar days of the unwanted materials' arrival at the on-site central accumulation area; and
- 5. If the unwanted material is a hazardous waste, the eligible academic entity must:
 - (i) Write the words "hazardous waste" on the container label that is affixed or attached to the container, within four calendar days of arriving at the on-site central accumulation area and before the hazardous waste may be removed from the on-site central accumulation area;
 - (ii) Write the appropriate hazardous waste code(s) on the container label that is associated with the container (or on the label that is affixed or attached to the container, if that is preferred) before the hazardous waste may be treated or disposed of on-site or transported off-site;
 - (iii) Count the hazardous waste toward the eligible academic entity's generator category, pursuant to subparagraph (1)(d) of this rule, in the calendar month that the hazardous waste determination was made; and
 - (iv) Manage the hazardous waste according to all applicable hazardous waste regulations.
- (m) Making the hazardous waste determination at an on-site interim status or permitted treatment, storage, or disposal facility. [40 CFR 262.212]

If an eligible academic entity makes the hazardous waste determination, pursuant to subparagraph (1)(b) of this rule, for unwanted material at an on-site interim status or permitted treatment, storage, or disposal facility, it must comply with the following:

1. A trained professional must accompany all unwanted material that is transferred from the laboratory(ies) to an on-site interim status or permitted treatment, storage or disposal facility;
- 2. All unwanted material removed from the laboratory(ies) must be taken directly from the laboratory(ies) to the on-site interim status or permitted treatment, storage, or disposal facility;
- 3. The unwanted material becomes subject to the terms of the eligible academic entity's hazardous waste permit or interim status as soon as it arrives in the on-site treatment, storage, or disposal facility;
- 4. A trained professional must determine, pursuant to parts (1)(b)1 through 4 of this rule, if the unwanted material is a hazardous waste within four calendar days of the unwanted materials' arrival at an on-site interim status or permitted treatment, storage, or disposal facility; and
- 5. If the unwanted material is a hazardous waste, the eligible academic entity must:
 - (i) Write the words "hazardous waste" on the container label that is affixed or attached to the container within four calendar days of arriving at the on-site interim status or permitted treatment, storage, or disposal facility and before the hazardous waste may be removed from the on-site interim status or permitted treatment, storage, or disposal facility;
 - (ii) Write the appropriate hazardous waste code(s) on the container label that is associated with the container (or on the label that is affixed or attached to the container, if that is preferred) before the hazardous waste may be treated or disposed on-site or transported off-site;
 - (iii) Count the hazardous waste toward the eligible academic entity's generator category, pursuant to subparagraph (1)(d) of this rule, in the calendar month that the hazardous waste determination was made; and
 - (iv) Manage the hazardous waste according to all applicable hazardous waste regulations.
- (n) Laboratory clean-outs. [40 CFR 262.213]
 - 1. One time per 12 month period for each laboratory, an eligible academic entity may opt to conduct a laboratory clean-out that is subject to all the applicable requirements of this paragraph, except that:
 - (i) If the volume of unwanted material in the laboratory exceeds 55 gallons (or 1 quart of liquid reactive acutely hazardous unwanted material or 1 kg of solid reactive acutely hazardous unwanted material), the eligible academic entity is not required to remove all unwanted materials from the laboratory within 10-calendar days of exceeding 55 gallons (or 1 quart of liquid reactive acutely hazardous unwanted material), as required by subparagraph (i) of this paragraph. Instead, the eligible academic entity must remove all unwanted materials from the laboratory within 30 calendar days from the start of the laboratory clean-out; and
 - (ii) For the purposes of on-site accumulation, an eligible academic entity is not required to count a hazardous waste that is an unused commercial chemical product (listed in paragraph (4) of Rule 0400-12-01-.02 or exhibiting one or more characteristics in paragraph (3) of Rule 0400-12-01-.02) generated solely during the laboratory clean-out toward its hazardous waste generator category, pursuant to subparagraph (1)(d) of this rule. An unwanted material that is generated prior to the beginning of the laboratory clean-out and is still in the laboratory at the time the laboratory clean-out commences must be counted toward hazardous waste generator category, pursuant to subparagraph (1)(d) of this rule, if it is determined to be hazardous waste; and

- (iii) For the purposes of off-site management, an eligible academic entity must count all its hazardous waste, regardless of whether the hazardous waste was counted toward generator category under subpart (ii) of this part, and if it generates more than 1 kg/month of acute hazardous waste or more than 100 kg/month of nonacute hazardous waste (i.e., the very small quantity generator limits as defined in subparagraph (2)(a) of Rule 0400-12-01-.01), the hazardous waste is subject to all applicable hazardous waste regulations when it is transported off-site; and
- (iv) An eligible academic entity must document the activities of the laboratory cleanout. The documentation must, at a minimum, identify the laboratory being cleaned out, the date the laboratory clean-out begins and ends, and the volume of hazardous waste generated during the laboratory clean-out. The eligible academic entity must maintain the records for a period of three years from the date the clean-out ends; and
- 2. For all other laboratory clean-outs conducted during the same 12 month period, an eligible academic entity is subject to all the applicable requirements of this paragraph, including, but not limited to:
 - (i) The requirement to remove all unwanted materials from the laboratory within 10 calendar days of exceeding 55 gallons (or 1 quart of reactive acutely hazardous unwanted material), as required by subparagraph (i) of this paragraph; and
 - (ii) The requirement to count all hazardous waste, including unused hazardous waste, generated during the laboratory clean-out toward its hazardous waste generator category, pursuant to subparagraph (1)(d) of this rule.
- (o) Laboratory management plan. [40 CFR 262.214]

An eligible academic entity must develop and retain a written Laboratory Management Plan, or revise an existing written plan. The Laboratory Management Plan is a site-specific document that describes how the eligible academic entity will manage unwanted materials in compliance with this paragraph. An eligible academic entity may write one Laboratory Management Plan for all the laboratories owned by the eligible academic entity that have opted into this paragraph, even if the laboratories are located at sites with different Installation Identification Numbers. The Laboratory Management Plan must contain two parts with a total of nine elements identified in parts 1 and 2 of this subparagraph. In Part I of its Laboratory Management Plan, an eligible academic entity must describe its procedures for each of the elements listed in part 1 of this subparagraph. An eligible academic entity must implement and comply with the specific provisions that it develops to address the elements in Part I of the Laboratory Management Plan. In Part II of its Laboratory Management Plan, an eligible academic entity must describe its best management practices for each of the elements listed in part 2 of this subparagraph. The specific actions taken by an eligible academic entity to implement each element in Part II of its Laboratory Management Plan may vary from the procedures described in the eligible academic entity's Laboratory Management Plan, without constituting a violation of this paragraph. An eligible academic entity may include additional elements and best management practices in Part II of its Laboratory Management Plan if it chooses.

- 1. The eligible academic entity must implement and comply with the specific provisions of Part I of its Laboratory Management Plan. In Part I of its Laboratory Management Plan, an eligible academic entity must:
 - (i) Describe procedures for container labeling in accordance with part (g)1 of this paragraph, as follows:
 - (I) Identifying whether the eligible academic entity will use the term "unwanted material" on the containers in the laboratory (If not, identify an equally effective term that will be used in lieu of "unwanted material" and consistently by the eligible academic entity. The equally effective term, if used, has the same meaning and is subject to the same requirements as "unwanted material.");

- (II) Identifying the manner in which information that is "associated with the container" will be imparted.
- (ii) Identify whether the eligible academic entity will comply with subpart (i)1(i) or (i)1(ii) of this paragraph for regularly scheduled removals of unwanted material from the laboratory.
- 2. In Part II of its Laboratory Management Plan, an eligible academic entity must:
 - (i) Describe its intended best practices for container labeling and management, (see the required standards at subparagraph (g) of this paragraph);
 - Describe its intended best practices for providing training for laboratory workers and students commensurate with their duties (see the required standards at part (h)1 of this paragraph);
 - (iii) Describe its intended best practices for providing training to ensure safe on-site transfers of unwanted material and hazardous waste by trained professionals (see the required standards at subpart (h)4(i) of this paragraph);
 - (iv) Describe its intended best practices for removing unwanted material from the laboratory, including:
 - For regularly scheduled removals—Develop a regular schedule for identifying and removing unwanted materials from its laboratories (see the required standards at subparts (i)1(i) and (i)1(ii) of this paragraph); and
 - (II) For removals when maximum volumes are exceeded:
 - I. Describe its intended best practices for removing unwanted materials from the laboratory within10 calendar days when unwanted materials have exceeded their maximum volumes (see the required standards at part (i)4 of this paragraph); and
 - II. Describe its intended best practices for communicating that unwanted materials have exceeded their maximum volumes;
 - (v) Describe its intended best practices for making hazardous waste determinations, including specifying the duties of the individuals involved in the process (see the required standards at parts (1)(b)1 through 4 of this rule and subparagraphs (j) through (m) of this paragraph);
 - (vi) Describe its intended best practices for laboratory clean-outs, if the eligible academic entity plans to use the incentives for laboratory clean-outs provided in subparagraph (n) of this paragraph, including:
 - (I) Procedures for conducting laboratory clean-outs (see the required standards at subparts (n)1(i) through (iii) of this paragraph); and
 - (II) Procedures for documenting laboratory clean-outs (see the required standards at subpart (n)1(iv) of this paragraph); and
 - (vii) Describe its intended best practices for emergency prevention, including:
 - (I) Procedures for emergency prevention, notification, and response, appropriate to the hazards in the laboratory;

- A list of chemicals that the eligible academic entity has, or is likely to have, that become more dangerous when they exceed their expiration date and/or as they degrade;
- (III) Procedures to safely dispose of chemicals that become more dangerous when they exceed their expiration date and/or as they degrade; and
- (IV) Procedures for the timely characterization of unknown chemicals.
- 3. An eligible academic entity must make its Laboratory Management Plan available to laboratory workers, students, or any others at the eligible academic entity who request it.
- 4. An eligible academic entity must review and revise its Laboratory Management Plan, as needed.
- (p) Unwanted material that is not solid or hazardous waste. [40 CFR 262.215]
 - 1. If an unwanted material does not meet the definition of solid waste in subparagraph (1)(b) of Rule 0400-12-01-.02, it is no longer subject to this paragraph or to the hazardous waste regulations.
 - 2. If an unwanted material does not meet the definition of hazardous waste in subparagraph (1)(c) of Rule 0400-12-01-.02, it is no longer subject to this paragraph or to the hazardous waste regulations, but must be managed in compliance with any other applicable regulations and/or conditions.
- (q) Non-laboratory hazardous waste generated at an eligible academic entity. [40 CFR 262.216]

An eligible academic entity that generates hazardous waste outside of a laboratory is not eligible to manage that hazardous waste under this paragraph; and

- 1. Remains subject to the generator requirements of subparagraphs (1)(b) and (f) of this rule for large quantity generators and small quantity generators (if the hazardous waste is managed in a satellite accumulation area), and all other applicable generator requirements of Rule 0400-12-01-.03, with respect to that hazardous waste; or
- 2. Remains subject to the conditional exemption of subparagraph (1)(e) of this rule for very small quantity generators, with respect to that hazardous waste.
- (11) Alternate Standards for Episodic Generation [40 CFR Subpart L]
 - (a) Applicability. [40 CFR 262.230]

This paragraph is applicable to very small quantity generators and small quantity generators as defined in subparagraph (1)(b) of Rule 0400-12-01-.01.

- (b) Definitions for this paragraph. [40 CFR 262.231]
 - 1. "Episodic event" means an activity or activities, either planned or unplanned, that does not normally occur during generator operations, resulting in an increase in the generation of hazardous wastes that exceeds the calendar month quantity limits for the generator's usual category.
 - 2. "Planned episodic event" means an episodic event that the generator planned and prepared for, including regular maintenance, tank cleanouts, short-term projects, and removal of excess chemical inventory.
 - 3. "Unplanned episodic event" means an episodic event that the generator did not plan or reasonably did not expect to occur, including production process upsets, product recalls, accidental spills, or "acts of nature" such as a tornado, hurricane, or flood.

- (c) Conditions for a generator managing hazardous waste from an episodic event. [40 CFR 262.232]
 - 1. Very small quantity generator. A very small quantity generator may maintain its existing generator category for hazardous waste generated during an episodic event provided that the generator complies with the following conditions:
 - (i) The very small quantity generator is limited to one episodic event per calendar year, unless a petition is granted under subparagraph (d) of this paragraph;
 - (ii) Notification. The very small quantity generator must notify the Commissioner no later than 30 calendar days prior to initiating a planned episodic event using forms provided by the Commissioner, and the forms must be completed according to the accompanying instructions. In the event of an unplanned episodic event, the generator must notify the Commissioner within 72 hours of the unplanned event via phone, email, or fax and subsequently submit the form provided by the Commissioner, and the form must be completed according to the instructions accompanying it. The generator shall include the start date and end date of the episodic event, the reason(s) for the event, types and estimated quantities of hazardous waste expected to be generated as a result of the episodic event, and shall identify a facility contact and emergency coordinator with 24-hour telephone access to discuss the notification submittal or respond to an emergency in compliance with item (1)(g)2(ix)(I) of this rule;
 - (iii) Installation Identification Number. The very small quantity generator must have an installation identification number or obtain an installation identification number using forms provided by the Commissioner, and the forms must be completed according to the accompanying instructions;
 - (iv) Accumulation. A very small quantity generator is prohibited from accumulating hazardous waste generated from an episodic event on drip pads and in containment buildings. When accumulating hazardous waste in containers and tanks the following conditions apply:
 - (I) Containers. A very small quantity generator accumulating in containers must mark or label its containers with the following:
 - I. The words "Episodic Hazardous Waste";
 - II. An indication of the hazards of the contents (examples include, but are not limited to, the applicable hazardous waste characteristic(s) (i.e., ignitable, corrosive, reactive, toxic); hazard communication consistent with the Department of Transportation requirements at 49 CFR part 172 subpart E (labeling) or subpart F (placarding); a hazard statement or pictogram consistent with the Occupational Safety and Health Administration Hazard Communication Standard at 29 CFR 1910.1200; or a chemical hazard label consistent with the National Fire Protection Association code 704); and
 - III. The date upon which the episodic event began, clearly visible for inspection on each container.
 - (II) Tanks. A very small quantity generator accumulating episodic hazardous waste in tanks must do the following:
 - I. Mark or label the tanks with the words "Episodic Hazardous Waste";
 - II. Mark or label the tanks with an indication of the hazards of the contents (examples include, but are not limited to, the applicable hazardous waste characteristic(s) (i.e., ignitable, corrosive,

reactive, toxic); hazard communication consistent with the Department of Transportation requirements at 49 CFR part 172 subpart E (labeling) or subpart F (placarding); a hazard statement or pictogram consistent with the Occupational Safety and Health Administration Hazard Communication Standard at 29 CFR 1910.1200; or a chemical hazard label consistent with the National Fire Protection Association code 704);

- III. Use inventory logs, monitoring equipment, or other records to identify the date upon which each episodic event begins; and
- IV. Keep inventory logs or records with the information required by subitem III of this item on site and readily available for inspection.
- (III) Hazardous waste must be managed in a manner that minimizes the possibility of a fire, explosion, or release of hazardous waste or hazardous waste constituents to the air, soil, or water;
 - I. Containers must be in good condition and compatible with the hazardous waste being accumulated therein. Containers must be kept closed except to add or remove waste; and
 - II. Tanks must:
 - A. Be in good condition and compatible with the hazardous waste accumulated therein;
 - B. Have procedures in place to prevent the overflow (e.g., be equipped with a means to stop inflow with systems such as a waste feed cutoff system or bypass system to a standby tank when hazardous waste is continuously fed into the tank); and
 - C. Be inspected at least once each operating day to ensure all applicable discharge control equipment, such as waste feed cutoff systems, bypass systems, and drainage systems are in good working order and to ensure the tank is operated according to its design by reviewing the data gathered from monitoring equipment such as pressure and temperature gauges from the inspection.
- (v) The very small quantity generator must comply with the hazardous waste manifest provisions of paragraph (3) of this rule when it sends its episodic event hazardous waste off site to a designated facility, as defined in subparagraph (2)(a) of Rule 0400-12-01-.01, and comply with the annual reporting requirements of part (5)(b)6 of this rule.

(Note: The quantities of hazardous waste generated during an episodic event(s) does not exempt the very small quantity generator from paying any applicable fee in accordance with paragraph (5) of Rule 0400-12-01-.08.)

- (vi) The very small quantity generator has up to 60 calendar days from the start of the episodic event to manifest and send its hazardous waste generated from the episodic event to a designated facility, as defined in subparagraph (2)(a) of Rule 0400-12-01-.01.
- (vii) Very small quantity generators must maintain the following records for three years from the end date of the episodic event:

- (I) Beginning and end dates of the episodic event;
- (II) A description of the episodic event;
- (III) A description of the types and quantities of hazardous wastes generated during the event;
- (IV) A description of how the hazardous waste was managed as well as the name of the designated facility, as defined in subparagraph (2)(a) of Rule 0400-12-01-.01, that received the hazardous waste;
- (V) Name(s) of permitted hazardous waste transporters used to transport the hazardous wastes generated during the event; and
- (VI) An approval letter from the Commissioner if the generator petitioned to conduct one additional episodic event per calendar year.
- 2. Small quantity generators. A small quantity generator may maintain its existing generator category during an episodic event provided that the generator complies with the following conditions:
 - (i) The small quantity generator is limited to one episodic event per calendar year unless a petition is granted under subparagraph (d) of this paragraph;
 - (ii) Notification. The small quantity generator must notify the Commissioner no later than 30 calendar days prior to initiating a planned episodic event using forms provided by the Commissioner, and the forms must be completed according to the accompanying instructions. In the event of an unplanned episodic event, the small quantity generator must notify the Commissioner within 72 hours of the unplanned event via phone, email, or fax and subsequently submit the form provided by the Commissioner, and the form must be completed according to the instructions accompanying it. The small quantity generator shall include the start date and end date of the episodic event, the reason(s) for the event, types and estimated quantities of hazardous wastes expected to be generated as a result of the episodic event, and identify a facility contact and emergency coordinator with 24-hour telephone access to discuss the notification submittal or respond to emergency;
 - (iii) Installation Identification Number. The small quantity generator must have an installation identification number or obtain an installation identification number using forms provided by the Commissioner, and the forms must be completed according to the accompanying instructions; and
 - (iv) Accumulation by small quantity generators. A small quantity generator is prohibited from accumulating hazardous wastes generated from an episodic event waste on drip pads and in containment buildings. When accumulating hazardous waste generated from an episodic event in containers and tanks, the following conditions apply:
 - (I) Containers. A small quantity generator accumulating episodic hazardous waste in containers must meet the standards at subpart (1)(g)2(ii) of this rule and must mark or label its containers with the following:
 - I. The words "Episodic Hazardous Waste";
 - II. An indication of the hazards of the contents (examples include, but are not limited to, the applicable hazardous waste characteristic(s) (i.e., ignitable, corrosive, reactive, toxic); hazard communication consistent with the Department of Transportation requirements at 49 CFR part 172 subpart E (labeling) or subpart F (placarding); a hazard statement or pictogram consistent with

the Occupational Safety and Health Administration Hazard Communication Standard at 29 CFR 1910.1200; or a chemical hazard label consistent with the National Fire Protection Association code 704); and

- III. The date upon which the episodic event began, clearly visible for inspection on each container.
- (II) Tanks. A small quantity generator accumulating episodic hazardous waste in tanks must meet the standards at subpart (1)(g)2(iii) of this rule and must do the following:
 - I. Mark or label its tank with the words "Episodic Hazardous Waste";
 - II. Mark or label its tanks with an indication of the hazards of the contents (examples include, but are not limited to, the applicable hazardous waste characteristic(s) (i.e., ignitable, corrosive, reactive, toxic); hazard communication consistent with the Department of Transportation requirements at 49 CFR part 172 subpart E (labeling) or subpart F (placarding); a hazard statement or pictogram consistent with the Occupational Safety and Health Administration Hazard Communication Standard at 29 CFR 1910.1200; or a chemical hazard label consistent with the National Fire Protection Association code 704);
 - III. Use inventory logs, monitoring equipment, or other records to identify the date upon which each period of accumulation begins and ends; and
 - IV. Keep inventory logs or records with the information required by subitem III of this item on site and available for inspection.
- (v) The small quantity generator must treat hazardous waste generated from an episodic event on site or manifest and ship such hazardous waste off site to a designated facility (as defined by subparagraph (2)(a) of Rule 0400-12-01-.01) within 60 calendar days from the start of the episodic event, and it must comply with the annual reporting requirements of part (5)(b)1 of this rule.

(Note: The quantities of hazardous waste generated during an episodic event(s) does not exempt the small quantity generator from paying any applicable fee in accordance with paragraph (5) of Rule 0400-12-01-.08.)

- (vi) The small quantity generator must maintain the following records for three years from the end date of the episodic event:
 - (I) Beginning and end dates of the episodic event;
 - (II) A description of the episodic event;
 - (III) A description of the types and quantities of hazardous wastes generated during the event;
 - (IV) A description of how the hazardous waste was managed as well as the name of the designated facility (as defined by subparagraph (2)(a) of Rule 0400-12-01-.01) that received the hazardous waste;
 - (V) Name(s) of permitted hazardous waste transporters used to transport the hazardous wastes generated during the event; and

- (VI) An approval letter from the Commissioner if the generator petitioned to conduct one additional episodic event per calendar year.
- (d) Petition to manage one additional episodic event per calendar year. [40 CFR 262.233]
 - 1. A generator may petition the Commissioner in writing, either on paper or electronically, for a second episodic event in a calendar year without impacting its generator category under the following conditions:
 - (i) If a very small quantity generator or small quantity generator has already held a planned episodic event in a calendar year, the generator may petition the Commissioner for an additional unplanned episodic event in that calendar year within 72 hours of the unplanned event.
 - (ii) If a very small quantity generator or small quantity generator has already held an unplanned episodic event in a calendar year, the generator may petition the Commissioner for an additional planned episodic event in that calendar year.
 - 2. The petition must include the following:
 - (i) The reason(s) why an additional episodic event is needed and the nature of the episodic event;
 - (ii) The estimated amount of hazardous waste to be managed from the event;
 - (iii) How the hazardous waste is to be managed;
 - (iv) The estimated length of time needed to complete management of the hazardous waste generated from the episodic event--not to exceed 60 days; and
 - (v) Information regarding the previous episodic event managed by the generator, including the nature of the event, whether it was a planned or unplanned event, and how the generator complied with the conditions.
 - 3. The generator must retain written approval in its records for three years from the date the episodic event ended.
- (12) Preparedness, Prevention, and Emergency Procedures for Large Quantity Generators
 - (a) Applicability. [40 CFR 262.250]

The regulations of this paragraph apply to those areas of a large quantity generator where hazardous waste is generated or accumulated on site.

(b) Maintenance and operation of facility. [40 CFR 262.251]

A large quantity generator must maintain and operate its facility to minimize the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water which could threaten human health or the environment.

(c) Required equipment. [40 CFR 262.252]

All areas deemed applicable by subparagraph (a) of this paragraph must be equipped with the items in parts 1 through 4 of this subparagraph (unless none of the hazards posed by waste handled at the facility could require a particular kind of equipment specified in parts 1 through 4 of this subparagraph, or the actual hazardous waste generation or accumulation area does not lend itself for safety reasons to have a particular kind of equipment specified below). A large quantity generator may determine the most appropriate locations within its facility to locate equipment necessary to prepare for and respond to emergencies:

- 1. An internal communications or alarm system capable of providing immediate emergency instruction (voice or signal) to facility personnel;
- 2. A device, such as a telephone (immediately available at the scene of operations) or a hand-held two-way radio, capable of summoning emergency assistance from local police departments, fire departments, or state or local emergency response teams;
- 3. Portable fire extinguishers, fire control equipment (including special extinguishing equipment, such as that using foam, inert gas, or dry chemicals), spill control equipment, and decontamination equipment; and
- 4. Water at adequate volume and pressure to supply water hose streams, foam producing equipment, automatic sprinklers, or water spray systems.
- (d) Testing and maintenance of equipment. [40 CFR 262.253]

All communications or alarm systems, fire protection equipment, spill control equipment, and decontamination equipment, where required, must be tested and maintained as necessary to assure its proper operation in time of emergency.

- (e) Access to communications or alarm system. [40 CFR 262.254]
 - 1. Whenever hazardous waste is being poured, mixed, spread, or otherwise handled, all personnel involved in the operation must have immediate access (e.g., direct or unimpeded access) to an internal alarm or emergency communication device, either directly or through visual or voice contact with another employee, unless such a device is not required under subparagraph (c) of this paragraph.
 - 2. In the event there is just one employee on the premises while the facility is operating, the employee must have immediate access (e.g., direct or unimpeded access) to a device, such as a telephone (immediately available at the scene of operation) or a hand-held two-way radio, capable of summoning external emergency assistance, unless such a device is not required under subparagraph (c) of this paragraph.
- (f) Required aisle space. [40 CFR 262.255]

The large quantity generator must maintain aisle space to allow the unobstructed movement of personnel, fire protection equipment, spill control equipment, and decontamination equipment to any area of facility operation in an emergency, unless aisle space is not needed for any of these purposes.

- (g) Arrangements with local authorities. [40 CFR 262.256]
 - 1. The large quantity generator must attempt to make arrangements with the local police department, fire department, other emergency response teams, emergency response contractors, equipment suppliers, and local hospitals, taking into account the types and quantities of hazardous wastes handled at the facility. Arrangements may be made with the Local Emergency Planning Committee, if it is determined to be the appropriate organization with which to make arrangements.
 - (i) A large quantity generator attempting to make arrangements with its local fire department must determine the potential need for the services of the local police department, other emergency response teams, emergency response contractors, equipment suppliers, and local hospitals.
 - (ii) As part of this coordination, the large quantity generator shall attempt to make arrangements, as necessary, to familiarize the organizations identified in this part with the layout of the facility, the properties of the hazardous waste handled at the facility and associated hazards, places where personnel would normally be working, entrances to roads inside the facility, possible evacuation routes, and

the types of injuries or illnesses which could result from fires, explosions, or releases at the facility.

- (iii) Where more than one police or fire department might respond to an emergency, the large quantity generator shall attempt to make arrangements designating primary emergency authority to a specific fire or police department, and attempt to make arrangements with any others to provide support to the primary emergency authority.
- 2. The large quantity generator shall maintain records documenting the arrangements with the local fire department as well as any other organization necessary to respond to an emergency. This documentation must include documentation in the operating record that either confirms such arrangements actively exist or, in cases where no arrangements exist, confirms that attempts to make such arrangements were made.
- 3. A facility possessing 24-hour response capabilities may seek a waiver from the authority having jurisdiction (AHJ) over the fire code within the facility's state or locality as far as needing to make arrangements with the local fire department as well as any other organization necessary to respond to an emergency, provided that the waiver is documented in the operating record.
- (h) Purpose and implementation of contingency plan. [40 CFR 262.260]
 - 1. A large quantity generator must have a contingency plan for the facility. The contingency plan must be designed to minimize hazards to human health or the environment from fires, explosions, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water.
 - 2. The provisions of the plan must be carried out immediately whenever there is a fire, explosion, or release of hazardous waste or hazardous waste constituents which could threaten human health or the environment.
- (i) Content of contingency plan. [40 CFR 262.261]
 - 1. The contingency plan must describe the actions facility personnel must take to comply with subparagraphs (h) and (m) of this paragraph in response to fires, explosions, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water at the facility.
 - 2. If the generator has already prepared a Spill Prevention, Control, and Countermeasures (SPCC) Plan in accordance with 40 CFR part 112, or some other emergency or contingency plan, it need only amend that plan to incorporate hazardous waste management provisions that are sufficient to comply with the standards of this paragraph. The generator may develop one contingency plan that meets all regulatory standards. The Commissioner recommends that the plan be based on the National Response Team's Integrated Contingency Plan Guidance ("One Plan").
 - 3. The plan must describe arrangements agreed to with the local police department, fire department, other emergency response teams, emergency response contractors, equipment suppliers, local hospitals or, if applicable, the Local Emergency Planning Committee, pursuant to subparagraph (g) of this paragraph.
 - 4. The plan must list names and emergency telephone numbers of all persons qualified to act as emergency coordinator (see subparagraph (I) of this paragraph), and this list must be kept up to date. Where more than one person is listed, one must be named as primary emergency coordinator and others must be listed in the order in which they will assume responsibility as alternates. In situations where the generator facility has an emergency coordinator continuously on duty because it operates 24 hours per day, every day of the year, the plan may list the staffed position (e.g., operations manager, shift coordinator, shift operations supervisor) as well as an emergency telephone number that can be guaranteed to be answered at all times.

5. The plan must include a list of all emergency equipment at the facility (such as fire extinguishing systems, spill control equipment, communications and alarm systems (internal and external), and decontamination equipment), where this equipment is required. This list must be kept up to date. In addition, the plan must include the location and a physical description of each item on the list, and a brief outline of its capabilities.

- 6. The plan must include an evacuation plan for generator personnel where there is a possibility that evacuation could be necessary. This plan must describe signal(s) to be used to begin evacuation, evacuation routes, and alternate evacuation routes (in cases where the primary routes could be blocked by releases of hazardous waste or fires).
- (j) Copies of contingency plan. [40 CFR 262.262]

A copy of the contingency plan and all revisions to the plan must be maintained at the large quantity generator, and:

- 1. The large quantity generator must submit a copy of the contingency plan and all revisions to all local emergency responders (i.e., police departments, fire departments, hospitals, and State and local emergency response teams that may be called upon to provide emergency services). This document may also be submitted to the Local Emergency Planning Committee, as appropriate.
- 2. A large quantity generator that first becomes subject to these provisions after the effective date of these rules, or a large quantity generator that is otherwise amending its contingency plan, must at that time submit a quick reference guide of the contingency plan to the local emergency responders identified in part 1 of this subparagraph or, as appropriate, the Local Emergency Planning Committee. The quick reference guide must include the following elements:
 - The types/names of hazardous wastes in layman's terms and the associated hazard associated with each hazardous waste present at any one time (e.g., toxic paint wastes, spent ignitable solvent, corrosive acid);
 - (ii) The estimated maximum amount of each hazardous waste that may be present at any one time;
 - (iii) The identification of any hazardous wastes where exposure would require unique or special treatment by medical or hospital staff;
 - (iv) A map of the facility showing where hazardous wastes are generated, accumulated, and treated, and routes for accessing these wastes;
 - A street map of the facility in relation to surrounding businesses, schools, and residential areas to understand how best to get to the facility and also evacuate citizens and workers;
 - (vi) The locations of water supply (e.g., fire hydrant and its flow rate);
 - (vii) The identification of on-site notification systems (e.g., a fire alarm that rings off site, smoke alarms); and
 - (viii) The name of the emergency coordinator(s) and 7/24-hour emergency telephone number(s) or, in the case of a facility where an emergency coordinator is continuously on duty, the emergency telephone number for the emergency coordinator.
- 3. Generators must update, if necessary, their quick reference guides, whenever the contingency plan is amended and submit these documents to the local emergency responders identified in part 1 of this subparagraph or, as appropriate, the Local Emergency Planning Committee.

(k) Amendment of contingency plan. [40 CFR 262.263]

The contingency plan must be reviewed, and immediately amended, if necessary, whenever:

- 1. Applicable regulations are revised;
- 2. The plan fails in an emergency;
- 3. The generator facility changes--in its design, construction, operation, maintenance, or other circumstances--in a way that materially increases the potential for fires, explosions, or releases of hazardous waste or hazardous waste constituents, or changes the response necessary in an emergency;
- 4. The list of emergency coordinators changes; or
- 5. The list of emergency equipment changes.
- (I) Emergency coordinator. [40 CFR 262.264]

At all times, there must be at least one employee either on the generator's premises or on call (i.e., available to respond to an emergency by reaching the facility within a short period of time) with the responsibility for coordinating all emergency response measures and implementing the necessary emergency procedures outlined in subparagraph (m) of this paragraph. Although responsibilities may vary depending on factors such as type and variety of hazardous waste(s) handled by the facility, as well as type and complexity of the facility, this emergency coordinator must be thoroughly familiar with all aspects of the generator's contingency plan, all operations and activities at the facility, the location and characteristics of hazardous waste handled, the location of all records within the facility, and the facility's layout. In addition, this person must have the authority to commit the resources needed to carry out the contingency plan.

- (m) Emergency procedures. [40 CFR 262.265]
 - 1. Whenever there is an imminent or actual emergency situation, the emergency coordinator (or his designee when the emergency coordinator is on call) must immediately:
 - (i) Activate internal facility alarms or communication systems, where applicable, to notify all facility personnel; and
 - (ii) Notify appropriate state or local agencies with designated response roles if their help is needed.
 - 2. Whenever there is a release, fire, or explosion, the emergency coordinator must immediately identify the character, exact source, amount, and areal extent of any released materials. The emergency coordinator may do this by observation or review of the facility records or manifests and, if necessary, by chemical analysis.
 - 3. Concurrently, the emergency coordinator must assess possible hazards to human health or the environment that may result from the release, fire, or explosion. This assessment must consider both direct and indirect effects of the release, fire, or explosion (e.g., the effects of any toxic, irritating, or asphyxiating gases that are generated, or the effects of any hazardous surface water run-offs from water or chemical agents used to control fire and heat-induced explosions).
 - 4. If the emergency coordinator determines that the facility has had a release, fire, or explosion which could threaten human health, or the environment, outside the facility, the emergency coordinator must report the findings as follows:
 - (i) If the assessment indicates that evacuation of local areas may be advisable, the emergency coordinator must immediately notify appropriate local authorities. The

emergency coordinator must be available to help appropriate officials decide whether local areas should be evacuated; and

- (ii) The emergency coordinator must immediately notify either the government official designated as the on-scene coordinator for that geographical area or the National Response Center (using their 24-hour toll free number 800/424-8802). The report must include:
 - (I) Name and telephone number of reporter;
 - (II) Name and address of the generator;
 - (III) Time and type of incident (e.g., release, fire);
 - (IV) Name and quantity of material(s) involved, to the extent known;
 - (V) The extent of injuries, if any; and
 - (VI) The possible hazards to human health, or the environment, outside the facility.
- 5. During an emergency, the emergency coordinator must take all reasonable measures necessary to ensure that fires, explosions, and releases do not occur, recur, or spread to other hazardous waste at the generator's facility. These measures must include, where applicable, stopping processes and operations, collecting and containing released hazardous waste, and removing or isolating containers.
- 6. If the generator stops operations in response to a fire, explosion, or release, the emergency coordinator must monitor for leaks, pressure buildup, gas generation, or ruptures in valves, pipes, or other equipment, wherever this is appropriate.
- 7. Immediately after an emergency, the emergency coordinator must provide for treating, storing, or disposing of recovered waste, contaminated soil or surface water, or any other material that results from a release, fire, or explosion at the facility. Unless the generator can demonstrate, in accordance with part (1)(c)3 or (1)(c)4 of Rule 0400-12-01-.02, that the recovered material is not a hazardous waste, then it is a newly generated hazardous waste that must be managed in accordance with all the applicable requirements and conditions for exemption in this rule and Rules 0400-12-01-.04 and 0400-12-01-.05.
- 8. The emergency coordinator must ensure that, in the affected area(s) of the facility:
 - (i) No hazardous waste that may be incompatible with the released material is treated, stored, or disposed of until cleanup procedures are completed; and
 - (ii) All emergency equipment listed in the contingency plan is cleaned and fit for its intended use before operations are resumed.
- 9. The generator must note in the operating record the time, date, and details of any incident that requires implementing the contingency plan. Within 15 days after the incident, the generator must submit a written report on the incident to the Commissioner. The report must include:
 - (i) Name, address, and telephone number of the generator;
 - (ii) Date, time, and type of incident (e.g., fire, explosion);
 - (iii) Name and quantity of material(s) involved;
 - (iv) The extent of injuries, if any;

- (v) An assessment of actual or potential hazards to human health or the environment, where this is applicable; and
- (vi) Estimated quantity and disposition of recovered material that resulted from the incident.

Part 5 of subparagraph (a) of paragraph (1) of Rule 0400-12-01-.04 Requirements Applicable to Transfer Facilities and Permit Requirements and Standards Applicable to Transporters of Hazardous Waste is amended by deleting it in its entirety and substituting instead the following:

5. A transporter of hazardous waste that is being imported from or exported to any other country for the purposes of recovery or disposal is subject to this paragraph and to all relevant requirements of paragraph (9) of Rule 0400-12-01-.03, including, but not limited to, parts (9)(d)4 and (9)(e)4 of Rule 0400-12-01-.03.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Subparagraph (c) of paragraph (1) of Rule 0400-12-01-.04 Requirements Applicable to Transfer Facilities and Permit Requirements and Standards Applicable to Transporters of Hazardous Waste is amended by deleting it in its entirety and substituting instead the following:

- (c) Transfer Facility Requirements [40 CFR 263.12]
 - 1. A hazardous waste transfer facility shall not operate without having received an installation identification number from the Department.
 - 2. (i) The operator of a hazardous waste transfer facility shall maintain a log of all shipments of hazardous waste entering and leaving the facility.
 - (ii) The log required by subpart (i) of this part shall be developed by the owner or operator of the transfer facility and shall contain, at a minimum, the following information for each shipment:
 - (I) The date the shipment arrived;
 - (II) The generator's name and installation identification number;
 - (III) The manifest document number associated with the shipment;
 - (IV) The date the hazardous waste was shipped out of the transfer facility; and
 - (V) If the transporter mixes hazardous wastes by placing them into a single container at the transfer facility:
 - I. The item number(s) and letter(s) from the manifest document number(s) for all separately containerized wastes that are combined in the container; and
 - II. If the hazardous wastes mixed in the container have different U.S. DOT shipping descriptions, the new manifest number as required by part (a)4 of this paragraph.
 - (iii) The information required by subpart (ii) of this part shall be retained for a period of three years and made available for review by the Commissioner.
 - 3. The operator of a hazardous waste transfer facility shall insure that the transfer facility's operations comply with the provisions of:

- (i) Subparagraph (2)(g) of Rule 0400-12-01-.05, Personnel Training;
- (ii) Paragraph (9) of Rule 0400-12-01-.05, Use and Management of Containers, except subparagraphs (9)(e) and (i) of Rule 0400-12-01-.05; and
- (iii) Subparagraph (2)(e) of Rule 0400-12-01-.05, Security.
- 4. Except for the requirements of part 3 of this subparagraph, a transporter who stores manifested shipments of hazardous waste in containers meeting the independent requirements of subparagraph (4)(a) of Rule 0400-12-01-.03 at a transfer facility for a period of 10 days or less is not subject to regulation under Rules 0400-12-01-.05, 0400-12-01-.06, 0400-12-01-.07, and 0400-12-01-.10 with respect to the storage of those wastes.
- 5. In addition to the requirements of item (2)(ii)(V) of this subparagraph, when consolidating the contents of two or more containers with the same hazardous waste into a new container, or when combining and consolidating two different hazardous wastes that are compatible with each other, the transporter must mark its containers of 119 gallons or less with the following information:
 - (i) The words "Hazardous Waste"; and
 - (ii) The applicable EPA hazardous waste number(s) (hazardous waste codes) in paragraphs (3) and (4) of Rule 0400-12-01-.02, or in compliance with part (4)(c)3 of Rule 0400-12-01-.03.

Subpart (ii) of part 1 of subparagraph (a) of paragraph (3) of Rule 0400-12-01-.04 Requirements Applicable to Transfer Facilities and Permit Requirements and Standards Applicable to Transporters of Hazardous Waste is amended by deleting it in its entirety and substituting instead the following:

(ii) Exports.

For exports of hazardous waste subject to the requirements of paragraph (9) of Rule 0400-12-01-.03, a transporter may not accept hazardous waste without a manifest signed by the generator in accordance with this paragraph, as appropriate, and for exports occurring under the terms of a consent issued by EPA on or after December 31, 2016, a movement document that includes all information required by part (9)(d)4 of Rule 0400-12-01-.03.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Item (I) of subpart (iv) of part 1 of subparagraph (a) of paragraph (3) of Rule 0400-12-01-.04 Requirements Applicable to Transfer Facilities and Permit Requirements and Standards Applicable to Transporters of Hazardous Waste is amended by deleting it in its entirety and substituting instead the following:

(I) Any requirement in these regulations to sign a manifest or manifest certification by hand, or to obtain a handwritten signature, is satisfied by signing with or obtaining a valid and enforceable electronic signature within the meaning of 40 C.F.R. § 262.25(a). (See part (3)(f)1 of Rule 0400-12-01-.03.)

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Subpart (viii) of part 1 of subparagraph (a) of paragraph (3) of Rule 0400-12-01-.04 Requirements Applicable to Transfer Facilities and Permit Requirements and Standards Applicable to Transporters of Hazardous Waste is amended by deleting it in its entirety and substituting instead the following:

(viii) Reserved.

Part 1 of subparagraph (a) of paragraph (3) of Rule 0400-12-01-.04 Requirements Applicable to Transfer Facilities and Permit Requirements and Standards Applicable to Transporters of Hazardous Waste is amended by adding a new subpart (ix) to read as follows:

(ix) Post-receipt manifest data corrections. After facilities have certified to the receipt of hazardous wastes by signing Item 20 of the manifest, any post-receipt data corrections may be submitted at any time by any interested person (e.g., waste handler) named on the manifest. Transporters may participate electronically in the post-receipt data corrections process by following the process described in part (5)(b)12 of Rule 0400-12-01-.06, which applies to corrections made to either paper or electronic manifest records.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Part 3 of subparagraph (a) of paragraph (3) of Rule 0400-12-01-.04 Requirements Applicable to Transfer Facilities and Permit Requirements and Standards Applicable to Transporters of Hazardous Waste is amended by deleting it in its entirety and substituting instead the following:

3. The transporter must ensure that the manifest accompanies the hazardous waste. In the case of exports occurring under the terms of a consent issued by EPA to the exporter on or after December 31, 2016, the transporter must ensure that a movement document that includes all information required by part (9)(d)4 of Rule 0400-12-01-.03 also accompanies the hazardous waste. In the case of imports occurring under the terms of a consent issued by EPA to the country of export or the importer on or after December 31, 2016, the transporter must ensure that a movement document that includes all information required by PA to the country of export or the importer on or after December 31, 2016, the transporter must ensure that a movement document that includes all information required by part (9)(e)4 of Rule 0400-12-01-.03 also accompanies the hazardous waste.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Subpart (ii) of part 5 of subparagraph (a) of paragraph (3) of Rule 0400-12-01-.04 Requirements Applicable to Transfer Facilities and Permit Requirements and Standards Applicable to Transporters of Hazardous Waste is amended by deleting it in its entirety and substituting instead the following:

(ii) A shipping paper containing all the information required on the manifest (excluding the EPA identification numbers, generator certification, and signatures) and, for exports or imports occurring under the terms of a consent issued by EPA on or after December 31, 2016, a movement document that includes all information required by part (9)(d)4 of Rule 0400-12-01-.03 or part (9)(e)4 of Rule 0400-12-01-.03 accompanies the hazardous waste; and

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Subpart (ii) of part 6 of subparagraph (a) of paragraph (3) of Rule 0400-12-01-.04 Requirements Applicable to Transfer Facilities and Permit Requirements and Standards Applicable to Transporters of Hazardous Waste is amended by deleting it in its entirety and substituting instead the following:

(ii) Rail transporters must ensure that a shipping paper containing all the information required on the manifest (excluding the EPA identification number, generator certification, and signatures) and, for exports or imports occurring under the terms of a consent issued by EPA on or after December 31, 2016, a movement document that includes all information required by part (9)(d)4 of Rule 0400-12-01-.03 or part (9)(e)4 of Rule 0400-12-01-.03 accompanies the hazardous waste at all times.

(Note: Intermediate rail transporters are not required to sign either the manifest, movement document, or shipping paper.)

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Subpart (iv) of part 7 of subparagraph (a) of paragraph (3) of Rule 0400-12-01-.04 Requirements Applicable to Transfer Facilities and Permit Requirements and Standards Applicable to Transporters of Hazardous Waste is amended by deleting it in its entirety and substituting instead the following:

- (iv) For paper manifests only,
 - Send a copy of the manifest to the e-Manifest system in accordance with the allowable methods specified in item (5)(b)1(ii)(V) of Rule 0400-12-01-.06; and
 - (II) For shipments initiated prior to the AES filing compliance date, when instructed by the exporter to do so, give a copy of the manifest to a U.S. Customs official at the point of departure from the United States.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Subparagraph (b) of paragraph (3) of Rule 0400-12-01-.04 Requirements Applicable to Transfer Facilities and Permit Requirements and Standards Applicable to Transporters of Hazardous Waste is amended by deleting it in its entirety and substituting instead the following:

- (b) Compliance with the Manifest [40 CFR 263.21]
 - 1. Except as provided in part 2 of this subparagraph, the transporter must deliver the entire quantity of hazardous waste which the transporter has accepted from a generator or a transporter to:
 - (i) The designated facility listed on the manifest; or
 - (ii) The alternate designated facility, if the hazardous waste cannot be delivered to the designated facility because an emergency prevents delivery; or
 - (iii) The next designated transporter; or
 - (iv) The place outside the United States designated by the generator.
 - 2. (i) Emergency condition. If the hazardous waste cannot be delivered in accordance with subpart 1(i), (ii), or (iv) of this subparagraph because of an emergency condition other than rejection of the waste by the designated facility or alternate designated facility, then the transporter must contact the generator for further directions instructions and must revise the manifest according to the generator's instructions.
 - (ii) Transporters without agency authority. If the hazardous waste is not delivered to the next designated transporter in accordance with subpart 1(iii) of this subparagraph, and the current transporter is without contractual authorization from the generator to act as the generator's agent with respect to transporter additions or substitutions, then the current transporter must contact the generator for further instructions prior to making any revisions to the transporter designations on the manifest. The current transporter may thereafter make such revisions if:
 - (I) The hazardous waste is not delivered in accordance with subpart 1(iii) of this subparagraph because of an emergency condition; or
 - (II) The current transporter proposes to change the transporter(s) designated on the manifest by the generator, or to add a new transporter during transportation, to respond to an emergency, or for purposes of transportation efficiency, convenience, or safety; and
 - (III) The generator authorizes the revision.

- (iii) Transporters with agency authority. If the hazardous waste is not delivered to the next designated transporter in accordance with subpart 1(iii) of this subparagraph, and the current transporter has authorization from the generator to act as the generator's agent, then the current transporter may change the transporter(s) designated on the manifest, or add a new transporter, during transportation without the generator's prior, explicit approval, provided that:
 - The current transporter is authorized by a contractual provision that provides explicit agency authority for the transporter to make such transporter changes on behalf of the generator;
 - (II) The transporter enters in Item 14 of each manifest for which such a change is made, the following statement of its agency authority:

"Contract retained by generator confers agency authority on initial transporter to add or substitute additional transporters on generator's behalf;" and

- (III) The change in designated transporters is necessary to respond to an emergency, or for purposes of transportation efficiency, convenience, or safety.
- (iv) Generator liability. The grant by a generator of authority to a transporter to act as the agent of the generator with respect to changes to transporter designations under subpart 1(iii) of this subparagraph does not affect the generator's liability or responsibility for complying with any applicable requirement under Chapter 0400-12-01, or grant any additional authority to the transporter to act on behalf of the generator.
- 3. If hazardous waste is rejected by the designated facility while the transporter is on the facility's premises, then the transporter must obtain the following:
 - (i) For a partial load rejection or for regulated quantities of container residues, a copy of the original manifest that includes the facility's date and signature and the Manifest Tracking Number of the new manifest that will accompany the shipment, and a description of the partial rejection or container residue in the discrepancy block of the original manifest. The transporter must retain a copy of this manifest in accordance with subparagraph (c) of this paragraph, and give the remaining copies of the original manifest to the rejecting designated facility. If the transporter is forwarding the rejected part of the shipment or a regulated container residue to an alternate facility or returning it to the generator, the transporter must obtain a new manifest to accompany the shipment, and the new manifest must include all of the information required in subparts (5)(c)5(i) through (vi) of Rule 0400-12-01-.06, or subparts 6(i) through (vi) of Rule 0400-12-01-.06 (vi) of Rule 0400-12-01-.05 or subparts 6(i) through (vi) of Rule 0400-12-01-.05.
 - (ii) For a full load rejection that will be taken back by the transporter, a copy of the original manifest that includes the rejecting facility's signature and date attesting to the rejection, the description of the rejection in the discrepancy block of the manifest, and the name, address, phone number, and Identification Number for the alternate facility or generator to whom the shipment must be delivered. The transporter must retain a copy of the manifest in accordance with subparagraph (c) of this paragraph, and give a copy of the manifest containing this information to the rejecting designated facility. If the original manifest is not used, then the transporter must obtain a new manifest for the shipment and comply with subparts (5)(c)5(i) through (vi) of Rule 0400-12-01-.06 or subparts (5)(c)5(i) through (vi) of Rule 0400-12-01-.05.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Subpart (i) of part 2 of subparagraph (b) of paragraph (1) of Rule 0400-12-01-.05 Interim Status Standards for Owners and Operators of Existing Hazardous Waste Treatment, Storage, and Disposal Facilities is amended by deleting it in its entirety and substituting instead the following:

The owner or operator of a facility permitted or registered by the Commissioner or Board, as appropriate, pursuant to the "Tennessee Solid Waste Disposal Act" (T.C.A. §§68-211-101 through 68-211-115 and 68-211-301), to manage municipal or industrial waste, if the only hazardous waste the facility treats, stores, or disposes of is excluded from regulation under this rule by subparagraph (1)(e) of Rule 0400-12-01-.03;

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Subpart (iv) of part 2 of subparagraph (b) of paragraph (1) of Rule 0400-12-01-.05 Interim Status Standards for Owners and Operators of Existing Hazardous Waste Treatment, Storage, and Disposal Facilities is amended by deleting it in its entirety and substituting instead the following:

(iv) A generator accumulating waste on-site in compliance with applicable conditions for exemption in subparagraphs (1)(e) through (h) of Rule 0400-12-01-.03 and paragraphs (10) and (11) of Rule 0400-12-01-.03, except to the extent the requirements of this rule are included in those subparagraphs or paragraphs;

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Subpart (viii) of part 2 of subparagraph (b) of paragraph (1) of Rule 0400-12-01-.05 Interim Status Standards for Owners and Operators of Existing Hazardous Waste Treatment, Storage, and Disposal Facilities is amended by deleting it in its entirety and substituting instead the following:

(viii) A transporter storing manifested shipments of hazardous waste in containers meeting applicable DOT and the independent requirements of subparagraph (4)(a) of Rule 0400-12-01-.03 at a transfer facility for a period of 10 days or less;

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Part 1 of subparagraph (c) of paragraph (2) of Rule 0400-12-01-.05 Interim Status Standards for Owners and Operators of Existing Hazardous Waste Treatment, Storage, and Disposal Facilities is amended by deleting it in its entirety and substituting instead the following:

- (c) Required Notices [40 CFR 264.12]
 - 1. The owner or operator of a facility that is arranging or has arranged to receive hazardous waste subject to paragraph (9) of Rule 0400-12-01-.03 from a foreign source must submit the following required notices:
 - (i) As per part (9)(e)2 of Rule 0400-12-01-.03, for imports where the competent authority of the country of export does not require the foreign exporter to submit to it a notification proposing export and obtain consent from EPA and the competent authorities for the countries of transit, such owner or operator of the facility, if acting as the importer, must provide notification of the proposed transboundary movement in English to EPA using the allowable methods listed in subpart (9)(e)2(i) of Rule 0400-12-01-.03 at least 60 days before the first shipment is expected to depart the country of export. The notification may cover up to one year of shipments of wastes having similar physical and chemical characteristics, the same United Nations classification, the same RCRA waste codes and OECD waste codes, and being sent from the same foreign exporter.
 - (ii) As per item (9)(e)4(ii)(XV) of Rule 0400-12-01-.03, a copy of the movement document bearing all required signatures within three working days of receipt of the shipment to the foreign exporter; to the competent authorities of the countries of export and transit that control the shipment as an export and transit shipment of hazardous waste respectively; and on or after the electronic import-export

reporting compliance date, to EPA electronically using EPA's Waste Import Export Tracking System (WIETS), or its successor system. The original of the signed movement document must be maintained at the facility for at least three years. The owner or operator of a facility may satisfy this recordkeeping requirement by retaining electronically submitted documents in the facility's account on EPA's Waste Import Export Tracking System (WIETS), or its successor system, provided that copies are readily available for viewing and production if requested by any EPA or authorized state inspector. No owner or operator of a facility may be held liable for the inability to produce the documents for inspection under this subpart if the owner or operator of a facility can demonstrate that the inability to produce the document is due exclusively to technical difficulty with EPA's Waste Import Export Tracking System (WIETS), or its successor system for which the owner or operator of a facility bears no responsibility.

- (iii) As per subpart (9)(e)6(iv) of Rule 0400-12-01-.03, if the facility has physical control of the waste and it must be sent to an alternate facility or returned to the country of export, such owner or operator of the facility must inform EPA, using the allowable methods listed in subpart (9)(e)2(i) of Rule 0400-12-01-.03 of the need to return or arrange alternate management of the shipment.
- (iv) As per part (9)(e)7 of Rule 0400-12-01-.03, such owner or operator shall:
 - (I) Send copies of the signed and dated confirmation of recovery or disposal, as soon as possible, but no later than 30 days after completing recovery or disposal on the waste in the shipment and no later than one calendar year following receipt of the waste, to the foreign exporter, to the competent authority of the country of export that controls the shipment as an export of hazardous waste, and for shipments recycled or disposed of on or after the electronic import-export reporting compliance date, to EPA electronically using EPA's Waste Import Export Tracking System (WIETS), or its successor system.
 - (II) If the facility performed any of recovery operations R12, R13, or RC16, or disposal operations D13 through D15, or DC17, promptly send copies of the confirmation of recovery or disposal that it receives from the final recovery or disposal facility within one year of shipment delivery to the final recovery or disposal facility that performed one of recovery operations R1 through R11, or RC16, or one of disposal operations D1 through D12, or DC15 to DC16, to the competent authority of the country of export that controls the shipment as an export of hazardous waste, and on or after the electronic import-export reporting compliance date, to EPA electronically using EPA's Waste Import Export Tracking System (WIETS), or its successor system. The recovery and disposal operations in this item are defined in subparagraph (9)(b) of Rule 0400-12-01-.03.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Subpart (ii) of part 1 of subparagraph (b) of paragraph (5) of Rule 0400-12-01-.05 Interim Status Standards for Owners and Operators of Existing Hazardous Waste Treatment, Storage, and Disposal Facilities is amended by deleting it in its entirety and substituting instead the following:

- (ii) If a facility receives a hazardous waste shipment accompanied by a manifest, the owner, operator or his/her agent must:
 - (I) Sign and date each copy of the manifest;
 - (II) Note any discrepancies (as defined in part (c)1 of this paragraph) on each copy of the manifest;
 - (III) Immediately give the transporter at least one copy of the manifest;

- (IV) Within 30 days of delivery, send a copy (Page 2) of the manifest to the generator;
- (V) Paper manifest submission requirements are:
 - I. Options for compliance on June 30, 2018. Beginning on June 30, 2018, send the top copy (Page 1) of any paper manifest and any paper continuation sheet to the EPA's e-Manifest system for purposes of data entry and processing, or in lieu of submitting the paper copy to EPA, the owner or operator may transmit to the EPA system an image file of Page 1 of the manifest and any continuation sheet, or both a data file and image file corresponding to Page 1 of the manifest and any continuation sheet, within 30 days of the date of delivery. Submissions of copies to the e-Manifest system shall be made at the mailing address or electronic mail/submission address specified at the e-Manifest program website's directory of services. Beginning on June 30, 2021, EPA will not accept mailed paper manifests from facilities for processing in e-Manifest.
 - II. Options for compliance on June 30, 2021. Beginning on June 30, 2021, the requirement to submit the top copy (Page 1) of the paper manifest and any paper continuation sheet to the e-Manifest system for purposes of data entry and processing may be met by the owner or operator only by transmitting to the EPA system an image file of Page 1 of the manifest and any continuation sheet, or by transmitting to the EPA system both a data file and the image file corresponding to Page 1 of the manifest and any continuation sheet, within 30 days of the date of delivery. Submissions of copies to the e-Manifest system shall be made to the electronic mail/submission address specified at the e-Manifest program website's directory of services; and
- (VI) Retain at the facility a copy of each manifest for at least three years from the date of delivery.

Subpart (iii) of part 1 of subparagraph (b) of paragraph (5) of Rule 0400-12-01-.05 Interim Status Standards for Owners and Operators of Existing Hazardous Waste Treatment, Storage, and Disposal Facilities is amended by deleting it in its entirety and substituting instead the following:

- (iii) The owner or operator of a facility receiving hazardous waste subject to paragraph (9) of Rule 0400-012-01-.03 from a foreign source must:
 - (I) Additionally list the relevant consent number from consent documentation supplied by EPA to the facility for each waste listed on the manifest, matched to the relevant list number for the waste from block 9b. If additional space is needed, the owner or operator should use a Continuation Sheet(s) (EPA Form 8700-22A); and
 - (II) Send a copy of the manifest within 30 days of delivery to EPA using the addresses listed in part (9)(c)5 of Rule 0400-12-01-.03 until the facility can submit such a copy to the e-Manifest system per Item (ii)(V) of this part.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Part 3 of subparagraph (b) of paragraph (5) of Rule 0400-12-01-.05 Interim Status Standards for Owners and Operators of Existing Hazardous Waste Treatment, Storage, and Disposal Facilities is amended by deleting it in its entirety and substituting instead the following:

3. Whenever a shipment of hazardous waste is initiated from a facility, the owner or operator of that facility must comply with the requirements of Rule 0400-12-01-.03. The provisions of subparagraphs (1)(f), (g), and (h) of Rule 0400-12-01-.03 are applicable to the onsite accumulation of hazardous wastes by generators. Therefore, the provisions of subparagraphs (1)(f), (g), and (h) of Rule 0400-12-01-.03 only apply to owners or operators who are shipping hazardous waste which they generated at that facility or operating as a large quantity generator consolidating hazardous waste from very small quantity generators under part (1)(h)6 of Rule 0400-12-01-.03.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Part 4 of subparagraph (b) of paragraph (5) of Rule 0400-12-01-.05 Interim Status Standards for Owners and Operators of Existing Hazardous Waste Treatment, Storage, and Disposal Facilities is amended by deleting it in its entirety and substituting instead the following:

As per item (9)(e)4(ii)(XV) of Rule 0400-12-01-.03, within three working days of the 4. receipt of a shipment subject to paragraph (9) of Rule 0400-12-01-.03, the owner or operator of a facility must provide a copy of the movement document bearing all required signatures to the exporter, to competent authorities of all other countries of export and transit that control the shipment as an export and transit of hazardous waste respectively; and on or after the electronic import-export reporting compliance date, to EPA electronically using EPA's Waste Import Export Tracking System (WIETS), or its successor system. The original copy of the movement document must be maintained at the facility for at least three years from the date of signature. The owner or operator of a facility may satisfy this recordkeeping requirement by retaining electronically submitted documents in the facility's account on EPA's Waste Import Export Tracking System (WIETS), or its successor system, provided that copies are readily available for viewing and production if requested by any EPA or authorized state inspector. No owner or operator of a facility may be held liable for the inability to produce the documents for inspection under this part if the owner or operator of a facility can demonstrate that the inability to produce the document is due exclusively to technical difficulty with EPA's Waste Import Export Tracking System (WIETS), or its successor system, for which the owner or operator of a facility bears no responsibility.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Subpart (i) of part 6 of subparagraph (b) of paragraph (5) of Rule 0400-12-01-.05 Interim Status Standards for Owners and Operators of Existing Hazardous Waste Treatment, Storage, and Disposal Facilities is amended by deleting it in its entirety and substituting instead the following:

(i) Any requirement in these regulations for the owner or operator of a facility to sign a manifest or manifest certification by hand, or to obtain a handwritten signature, is satisfied by signing with or obtaining a valid and enforceable electronic signature within the meaning of 40 C.F.R. 262.25(a). (See part (3)(f)1 of Rule 0400-12-01-.03.)

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Part 10 of subparagraph (b) of paragraph (5) of Rule 0400-12-01-.05 Interim Status Standards for Owners and Operators of Existing Hazardous Waste Treatment, Storage, and Disposal Facilities is amended by deleting it in its entirety and substituting instead the following:

- 10. Imposition of user fee for electronic manifest use.
 - (i) As prescribed in 40 CFR § 265.1311, and determined in 40 CFR § 265.1312, an owner or operator who is a user of the electronic manifest system shall be assessed a user fee by EPA for the submission and processing of each

electronic and paper manifest. EPA shall update the schedule of user fees and publish them to the user community, as provided in 40 CFR § 265.1313.

(ii) An owner or operator subject to user fees under this part shall make user fee payments in accordance with the requirements of 40 CFR § 265.1314, subject to the informal fee dispute resolution process of 40 CFR § 265.1316, and subject to the sanctions for delinquent payments under 40 CFR §. 265.1315.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Subparagraph (b) of paragraph (5) of Rule 0400-12-01-.05 Interim Status Standards for Owners and Operators of Existing Hazardous Waste Treatment, Storage, and Disposal Facilities is amended by adding a new part 12 to read as follows:

- 12. Post-receipt manifest data corrections. After facilities have certified to the receipt of hazardous wastes by signing Item 20 of the manifest, any post-receipt data corrections may be submitted at any time by any interested person (e.g., waste handler) shown on the manifest.
 - (i) Interested persons must make all corrections to manifest data by electronic submission, either by directly entering corrected data to the web based service provided in e-Manifest for such corrections, or by an upload of a data file containing data corrections relating to one or more previously submitted manifests.
 - (ii) Each correction submission must include the following information:
 - The Manifest Tracking Number and date of receipt by the facility of the original manifest(s) for which data are being corrected;
 - (II) The item number(s) of the original manifest that is the subject of the submitted correction(s); and
 - (III) For each item number with corrected data, the data previously entered and the corresponding data as corrected by the correction submission.
 - (iii) Each correction submission shall include a statement that the person submitting the corrections certifies that to the best of his or her knowledge or belief, the corrections that are included in the submission will cause the information reported about the previously received hazardous wastes to be true, accurate, and complete:
 - (I) The certification statement must be executed with a valid electronic signature; and
 - (II) A batch upload of data corrections may be submitted under one certification statement.
 - (iv) Upon receipt by the system of any correction submission, other interested persons shown on the manifest will be provided electronic notice of the submitter's corrections.
 - (v) Other interested persons shown on the manifest may respond to the submitter's corrections with comments to the submitter, or by submitting another correction to the system, certified by the respondent as specified in subpart (iii) of this part, and with notice of the corrections to other interested persons shown on the manifest.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Part 6 of subparagraph (a) of paragraph (6) of Rule 0400-12-01-.05 Interim Status Standards for Owners and Operators of Existing Hazardous Waste Treatment, Storage, and Disposal Facilities is amended by deleting it in its entirety and substituting instead the following:

- 6. The Commissioner may replace all or part of the requirements of this paragraph applying to a regulated unit (as defined in subparagraph (6)(a) of Rule 0400-12-01-.06), with alternative requirements developed for groundwater monitoring set out in an approved closure or post-closure plan or in an enforceable document (as defined in part (1)(b)9 of Rule 0400-12-01-.07), where the Commissioner determines that:
 - A regulated unit is situated among solid waste management units (or areas of concern), a release has occurred, and both the regulated unit and one or more solid waste management unit(s) (or areas of concern) are likely to have contributed to the release; and
 - (ii) It is not necessary to apply the requirements of this paragraph because the alternative requirements will protect human health and the environment. The alternative standards for the regulated unit must meet the requirements of part (6)(l)1 of Rule 0400-12-01-.06.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Part 2 of subparagraph (c) of paragraph (6) of Rule 0400-12-01-.05 Interim Status Standards for Owners and Operators of Existing Hazardous Waste Treatment, Storage, and Disposal Facilities is amended by deleting it in its entirety and substituting instead the following:

- 2. The owner or operator must determine the concentration or value of the following parameters in ground-water samples in accordance with parts 3 and 4 of this subparagraph:
 - (i) Parameters characterizing the suitability of the ground-water as a drinking water supply, as specified in appendix III.
 - (ii) Parameters establishing ground-water quality:
 - (I) Chloride
 - (II) Iron
 - (III) Manganese
 - (IV) Phenols
 - (V) Sodium
 - (VI) Sulfate

(Comment: These parameters are to be used as a basis for comparison in the event a ground-water quality assessment is required under part (d)4 of this paragraph.)

- (iii) Parameters used as indicators of ground-water contamination:
 - (I) pH
 - (II) Specific Conductance
 - (III) Total Organic Carbon
 - (IV) Total Organic Halogen

Part 4 of subparagraph (c) of paragraph (6) of Rule 0400-12-01-.05 Interim Status Standards for Owners and Operators of Existing Hazardous Waste Treatment, Storage, and Disposal Facilities is amended by deleting it in its entirety and substituting instead the following:

- 4. After the first year, all monitoring wells must be sampled and the samples analyzed with the following frequencies:
 - (i) Samples collected to establish ground-water quality must be obtained and analyzed for the parameters specified in subpart 2(ii) of this subparagraph at least annually.
 - (ii) Samples collected to indicate ground-water contamination must be obtained and analyzed for the parameters specified in subpart 2(iii) of this subparagraph at least semi-annually.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Subpart (v) of part 4 of subparagraph (d) of paragraph (6) of Rule 0400-12-01-.05 Interim Status Standards for Owners and Operators of Existing Hazardous Waste Treatment, Storage, and Disposal Facilities is amended by deleting it in its entirety and substituting instead the following:

(v) The owner or operator must make his first determination under subpart (iv) of this part as soon as technically feasible, and prepare a report containing an assessment of ground-water quality. This report must be place in the facility operating record and maintained until closure of the facility.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Part 5 of subparagraph (d) of paragraph (6) of Rule 0400-12-01-.05 Interim Status Standards for Owners and Operators of Existing Hazardous Waste Treatment, Storage, and Disposal Facilities is amended by deleting it in its entirety and substituting instead the following:

5. Notwithstanding any other provision of this paragraph, any ground-water quality assessment to satisfy the requirements of subpart 4(iv) of this subparagraph which is initiated prior to final closure of the facility must be completed and reported in accordance with subpart 4(v) of this subparagraph.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Part 4 of subparagraph (a) of paragraph (7) of Rule 0400-12-01-.05 Interim Status Standards for Owners and Operators of Existing Hazardous Waste Treatment, Storage, and Disposal Facilities is amended by deleting it in its entirety and substituting instead the following:

- 4. The Commissioner may replace all or part of the requirements of this paragraph (and the unit-specific standards in part (b)3 of this paragraph) applying to a regulated unit (as defined in subparagraph (6)(a) of Rule 0400-12-01-.06), with alternative requirements for closure set out in an approved closure or post-closure plan, or in an enforceable document (as defined in part (1)(b)9 of Rule 0400-12-01-.07), where the Commissioner determines that:
 - A regulated unit is situated among solid waste management units (or areas of concern), a release has occurred, and both the regulated unit and one or more solid waste management unit(s) (or areas of concern) are likely to have contributed to the release, and
 - (ii) It is not necessary to apply the closure requirements of this paragraph (and/or those referenced herein) because the alternative requirements will protect human health and the environment, and will satisfy the closure performance standard of part (b)1 and 2 of this paragraph.

Item (II) of Subpart (i) of part 2 of subparagraph (j) of paragraph (7) of Rule 0400-12-01-.05 Interim Status Standards for Owners and Operators of Existing Hazardous Waste Treatment, Storage, and Disposal Facilities is amended by deleting it in its entirety and substituting instead the following:

(II) Its use is restricted under this paragraph; and

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Subparagraph (e) of paragraph (9) of Rule 0400-12-01-.05 Interim Status Standards for Owners and Operators of Existing Hazardous Waste Treatment, Storage, and Disposal Facilities is amended by deleting it in its entirety and substituting instead the following:

(e) Inspections [40 CFR 265.174]

At least weekly, the owner or operator must inspect areas where containers are stored. The owner or operator must look for leaking containers and for deterioration of containers caused by corrosion or other factors. See subparagraph (b) of this paragraph for remedial action required if deterioration or leaks are detected.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Subparagraph (I) of paragraph (10) of Rule 0400-12-01-.05 Interim Status Standards for Owners and Operators of Existing Hazardous Waste Treatment, Storage, and Disposal Facilities is amended by deleting it in its entirety and substituting instead the following:

(I) Reserved.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Part 1 of subparagraph (b) of paragraph (11) of Rule 0400-12-01-.05 Interim Status Standards for Owners and Operators of Existing Hazardous Waste Treatment, Storage, and Disposal Facilities is amended by deleting it in its entirety and substituting instead the following:

1. The owner or operator of each new surface impoundment unit, each lateral expansion of a surface impoundment unit, and each replacement of an existing surface impoundment unit must install two or more liners and a leachate collection and removal system between the liners, and operate the leachate collection and removal system, in accordance with part (11)(b)3 of Rule 0400-12-01-.06, unless exempted under part (11)(b)4, 5, or 6 of Rule 0400-12-01-.06.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Subitem II of item (I) of subpart (ii) of part 4 of subparagraph (b) of paragraph (14) of Rule 0400-12-01-.05 Interim Status Standards for Owners and Operators of Existing Hazardous Waste Treatment, Storage, and Disposal Facilities is amended by deleting it in its entirety and substituting instead the following:

II. The monofill is located more than one-quarter mile from an "underground source of drinking water" (as that term is defined in subparagraph (2)(a) of Rule 0400-12-01-.01); and

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Subpart (ii) of part 2 of subparagraph (a) of paragraph (27) of Rule 0400-12-01-.05 Interim Status Standards for Owners and Operators of Existing Hazardous Waste Treatment, Storage, and Disposal Facilities is amended by deleting it in its entirety and substituting instead the following:

(ii) A unit (including a hazardous waste recycling unit) that is not exempt from permitting under the provisions of subparagraph (1)(h) of Rule 0400-12-01-.03

(i.e., a hazardous waste recycling unit that is not a 90-day tank or container) and that is located at a hazardous waste management facility otherwise subject to the permitting requirements of Rule 0400-12-01-.07, or

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Subpart (iii) of part 2 of subparagraph (a) of paragraph (27) of Rule 0400-12-01-.05 Interim Status Standards for Owners and Operators of Existing Hazardous Waste Treatment, Storage, and Disposal Facilities is amended by deleting it in its entirety and substituting instead the following:

(iii) A unit that is exempt from permitting under the provisions of subparagraph (1)(h) of Rule 0400-12-01-.03 (i.e., a "90-day" tank or container) and is not a recycling unit under the requirements of subparagraph (1)(f) of Rule 0400-12-01-.02.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Subparagraph (a) of paragraph (28) of Rule 0400-12-01-.05 Interim Status Standards for Owners and Operators of Existing Hazardous Waste Treatment, Storage, and Disposal Facilities is amended by deleting it in its entirety and substituting instead the following:

- (a) Applicability [40 CFR 265.1050]
 - 1. The regulations in this paragraph apply to owners and operators of facilities that treat, store, or dispose of hazardous wastes (except as provided in subparagraph (1)(b) of this rule).
 - 2. Except as provided in part (o)11 of this paragraph, this paragraph applies to equipment that contains or contacts hazardous wastes with organic concentrations of at least 10 percent by weight that are managed in one of the following:
 - (i) A unit that is subject to the permitting requirements of Rule 0400-12-01-.07;
 - (ii) A unit (including a hazardous waste recycling unit) that is not exempt from permitting under the provisions of subparagraph (1)(h) of Rule 0400-12-01-.03 (i.e., a hazardous waste recycling unit that is not a 90-day tank or container) and that is located at a hazardous waste management facility otherwise subject to the permitting requirements of Rule 0400-12-01-.07; or
 - (iii) A unit that is exempt from permitting under the provisions of subparagraph (1)(h) of Rule 0400-12-01-.03 (i.e., a "90-day" tank or container) and is not a recycling unit under the provisions of subparagraph (1)(f) of Rule 0400-12-01-.02.
 - 3. Each piece of equipment to which this paragraph applies shall be marked in such a manner that it can be distinguished readily from other pieces of equipment.
 - Equipment that is in vacuum service is excluded from the requirements of subparagraph (c) through (k) of this paragraph if it is identified as required in subpart (o)7(v) of this paragraph.
 - 5. Equipment that contains or contacts hazardous waste with an organic concentration of at least 10 percent by weight for less than 300 hours per calendar year is excluded from the requirements of subparagraphs (c) through (k) of this paragraph if it is identified as required in subpart (o)7(vi) of this paragraph.
 - 6. [Reserved] [40 CFR 265.1050(f)]
 - 7. Purged coatings and solvents from surface coating operations subject to the national emission standards for hazardous air pollutants (NESHAP) for the surface coating of automobiles and light-duty trucks at 40 CFR part 63, subpart IIII, are not subject to the requirements of this paragraph.

(Note: The requirements of subparagraphs (c) through (o) of this paragraph apply to equipment associated with hazardous waste recycling units previously exempt under subpart (1)(f)3(i) of Rule 0400-12-01-.02. Other exemptions under subparagraph (1)(d) of Rule 0400-12-01-.02 and part (1)(b)2 of this rule are not affected by these requirements.)

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Item (I) of subpart (iv) of part 3 of subparagraph (h) of paragraph (29) of Rule 0400-12-01-.05 Interim Status Standards for Owners and Operators of Existing Hazardous Waste Treatment, Storage, and Disposal Facilities is amended by deleting it in its entirety and substituting instead the following:

(I) In the case when a hazardous waste already is in the container at the time the owner or operator first accepts possession of the container at the facility and the container is not emptied within 24 hours after the container is accepted at the facility (i.e., does not meet the conditions for an empty container as specified in part (1)(g)2 of Rule 0400-12-01-.02, the owner or operator shall visually inspect the container and its cover and closure devices to check for visible cracks, holes, gaps, or other open spaces into the interior of the container when the cover and closure devices are secured in the closed position. The container visual inspection shall be conducted on or before the date that the container is accepted at the facility (i.e., the date the container becomes subject to the container standards of this paragraph). For purposes of this requirement, the date of acceptance is the date of signature that the facility owner or operator enters on Item 20 of the Uniform Hazardous Waste Manifest (EPA Forms 8700-22 and 8700-22A), as required under subparagraph (5)(b) of this rule. If a defect is detected, the owner or operator shall repair the defect in accordance with the requirements of item (III) of this subpart.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Item (I) of subpart (iv) of part 4 of subparagraph (h) of paragraph (29) of Rule 0400-12-01-.05 Interim Status Standards for Owners and Operators of Existing Hazardous Waste Treatment, Storage, and Disposal Facilities is amended by deleting it in its entirety and substituting instead the following:

(I) In the case when a hazardous waste already is in the container at the time the owner or operator first accepts possession of the container at the facility and the container is not emptied within 24 hours after the container accepted at the facility (i.e., does not meet the conditions for an empty container as specified in part (1)(g)2 of Rule 0400-12-01-.02, the owner or operator shall visually inspect the container and its cover and closure devices to check for visible cracks, holes, gaps, or other open spaces into the interior of the container when the cover and closure devices are secured in the closed position. The container visual inspection shall be conducted on or before the date that the container is accepted at the facility (i.e., the date the container becomes subject to the container standards of this paragraph). For purposes of this requirement, the date of acceptance is the date of signature that the facility owner or operator enters on Item 20 of the Uniform Hazardous Waste Manifest (EPA Forms 8700-22 and 8700-22A), as required under subparagraph (5)(b) of this rule. If a defect is detected, the owner or operator shall repair the defect in accordance with the requirements of item (III) of this subpart.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Subpart (iv) of part 3 of subparagraph (b) of paragraph (30) of Rule 0400-12-01-.05 Interim Status Standards for Owners and Operators of Existing Hazardous Waste Treatment, Storage, and Disposal Facilities is amended by deleting it in its entirety and substituting instead the following:

(iv) Inspect and record in the facility's operating record at least once every seven days data gathered from monitoring and leak detection equipment as well as the containment building and the area immediately surrounding the containment building to detect signs of releases of hazardous waste.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Subpart (i) of part 2 of subparagraph (b) of paragraph (1) of Rule 0400-12-01-.06 Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities is amended by deleting it in its entirety and substituting instead the following:

(i) The owner or operator of a facility permitted or registered by the Commissioner or Board, as appropriate, pursuant to the "Tennessee Solid Waste Disposal Act" (T.C.A. §§ 68-211-101 through § 68-211-111 and § 68-211-301) to manage municipal or industrial waste, if the only hazardous waste the facility treats, stores, or disposes of is excluded from regulation under this rule by subparagraph (1)(e) of Rule 0400-12-01-.03.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Subpart (iii) of part 2 of subparagraph (b) of paragraph (1) of Rule 0400-12-01-.06 Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities is amended by deleting it in its entirety and substituting instead the following:

(iii) A generator accumulating waste on-site in compliance with subparagraphs (1)(e), (f), (g), and (h) of Rule 0400-12-01-.03.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Part 6 of subparagraph (b) of paragraph (1) of Rule 0400-12-01-.06 Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities is amended by deleting it in its entirety and substituting instead the following:

6. The requirements of this rule apply to the owner or operator of a transfer facility where manifested shipments of hazardous waste in containers meeting the independent requirements of subparagraph (4)(a) of Rule 0400-12-01-.03 at a transfer facility for a period of 10 days or less.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Part 1 of subparagraph (c) of paragraph (2) of Rule 0400-12-01-.06 Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities is amended by deleting it in its entirety and substituting instead the following:

- (c) Required Notices [40 CFR 264.12]
 - 1. The owner or operator of a facility that is arranging or has arranged to receive hazardous waste subject to paragraph (9) of Rule 0400-12-01-.03 from a foreign source must submit the following required notices:
 - (i) As per part (9)(e)2 of Rule 0400-12-01-.03, for imports where the competent authority of the country of export does not require the foreign exporter to submit to it a notification proposing export and obtain consent from EPA and the competent authorities for the countries of transit, such owner or operator of the facility, if acting as the importer, must provide notification of the proposed transboundary movement in English to EPA using the allowable methods listed in subpart (9)(e)2(i) of Rule 0400-12-01-.03 at least 60 days before the first shipment is expected to depart the country of export. The notification may cover up to one year of shipments of wastes having similar physical and chemical characteristics, the same United Nations classification, the same RCRA waste codes and OECD waste codes, and being sent from the same foreign exporter.

- (ii) As per item (9)(e)4(ii)(XV) of Rule 0400-12-01-.03, a copy of the movement document bearing all required signatures within three working days of receipt of the shipment to the foreign exporter; to the competent authorities of the countries of export and transit that control the shipment as an export and transit shipment of hazardous waste respectively; and on or after the electronic import-export reporting compliance date, to EPA electronically using EPA's Waste Import Export Tracking System (WIETS), or its successor system. The original of the signed movement document must be maintained at the facility for at least three years. The owner or operator of a facility may satisfy this recordkeeping requirement by retaining electronically submitted documents in the facility's account on EPA's Waste Import Export Tracking System (WIETS), or its successor system, provided that copies are readily available for viewing and production if requested by any EPA or authorized state inspector. No owner or operator of a facility may be held liable for the inability to produce the documents for inspection under this subpart if the owner or operator of a facility can demonstrate that the inability to produce the document is due exclusively to technical difficulty with EPA's Waste Import Export Tracking System (WIETS), or its successor system for which the owner or operator of a facility bears no responsibility.
- (iii) As per subpart (9)(e)6(iv) of Rule 0400-12-01-.03, if the facility has physical control of the waste and it must be sent to an alternate facility or returned to the country of export, such owner or operator of the facility must inform EPA, using the allowable methods listed in subpart (9)(e)2(i) of Rule 0400-12-01-.03 of the need to return or arrange alternate management of the shipment.
- (iv) As per part (9)(e)7 of Rule 0400-12-01-.03, such owner or operator shall:
 - (I) Send copies of the signed and dated confirmation of recovery or disposal, as soon as possible, but no later than 30 days after completing recovery or disposal on the waste in the shipment and no later than one calendar year following receipt of the waste, to the foreign exporter, to the competent authority of the country of export that controls the shipment as an export of hazardous waste, and for shipments recycled or disposed of on or after the electronic import-export reporting compliance date, to EPA electronically using EPA's Waste Import Export Tracking System (WIETS), or its successor system.
 - (II) If the facility performed any of recovery operations R12, R13, or RC16, or disposal operations D13 through D15, or DC17, promptly send copies of the confirmation of recovery or disposal that it receives from the final recovery or disposal facility within one year of shipment delivery to the final recovery or disposal facility that performed one of recovery operations R1 through R11, or RC16, or one of disposal operations D1 through D12, or DC15 to DC16, to the competent authority of the country of export that controls the shipment as an export of hazardous waste, and on or after the electronic import-export reporting compliance date, to EPA electronically using EPA's Waste Import Export Tracking System (WIETS), or its successor system. The recovery and disposal operations in this item are defined in subparagraph (9)(b) of Rule 0400-12-01-.03.

Subpart (iv) of Part 2 of subparagraph (f) of paragraph (2) of Rule 0400-12-01-.06 Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities is amended by deleting it in its entirety and substituting instead the following:

(iv) The frequency of inspection may vary for the items on the schedule. However, the frequency should be based on the rate of deterioration of the equipment and the probability of an environmental or human health incident if the deterioration,

malfunction, or operator error goes undetected between inspections. Areas subject to spills, such as loading and unloading areas, must be inspected daily when in use. At a minimum, the inspection schedule must include the items and frequencies called for in subparagraphs (9)(e), (10)(d), (10)(f), (11)(g), (12)(e), (13)(i), (14)(d), (15)(h), (27)(c), (30)(d), (31)(c), (31)(d), (31)(i), and (32)(d) through (32)(j) of this rule, where applicable. Rule 0400-12-01-.07 requires the inspection schedule to be submitted with part B of the permit application. The Commissioner will evaluate the schedule along with the rest of the application to ensure that it adequately protects human health and the environment. As part of this review, the Commissioner may modify or amend the schedule as may be necessary.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Subpart (ii) of part 1 of subparagraph (b) of paragraph (5) of Rule 0400-12-01-.06 Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities is amended by deleting it in its entirety and substituting instead the following:

- (ii) If a facility receives a hazardous waste shipment accompanied by a manifest, the owner, operator or his/her agent must:
 - (I) Sign and date each copy of the manifest;
 - (II) Note any discrepancies (as defined in part (c)1 of this paragraph) on each copy of the manifest;
 - (III) Immediately give the transporter at least one copy of the manifest;
 - (IV) Within 30 days of delivery, send a copy (Page 3 2) of the manifest to the generator;
 - (V) Paper manifest submission requirements are:
 - I. Options for compliance on June 30, 2018. Beginning on June 30, 2018, send the top copy (Page 1) of any paper manifest and any paper continuation sheet to the EPA's e-Manifest system for purposes of data entry and processing, or in lieu of submitting the paper copy to EPA, the owner or operator may transmit to the EPA system an image file of Page 1 of the manifest and any continuation sheet, or both a data file and image file corresponding to Page 1 of the manifest and any continuation sheet, within 30 days of the date of delivery. Submissions of copies to the e-Manifest system shall be made at the mailing address or electronic mail/submission address specified at the e-Manifest program website's directory of services. Beginning on June 30, 2021, EPA will not accept mailed paper manifests from facilities for processing in e-Manifest.
 - II. Options for compliance on June 30, 2021. Beginning on June 30, 2021, the requirement to submit the top copy (Page 1) of the paper manifest and any paper continuation sheet to the e-Manifest system for purposes of data entry and processing may be met by the owner or operator only by transmitting to the EPA system an image file of Page 1 of the manifest and any continuation sheet, or by transmitting to the EPA system both a data file and the image file corresponding to Page 1 of the manifest and any continuation sheet, within 30 days of the date of delivery. Submissions of copies to the e-Manifest system shall be made to the electronic mail/submission address specified at the e-Manifest program website's directory of services; and

(VI) Retain at the facility a copy of each manifest for at least three years from the date of delivery.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Subpart (iii) of part 1 of subparagraph (b) of paragraph (5) of Rule 0400-12-01-.06 Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities is amended by deleting it in its entirety and substituting instead the following:

- (iii) The owner or operator of a facility receiving hazardous waste subject to paragraph (9) of Rule 0400-012-01-.03 from a foreign source must:
 - (I) Additionally list the relevant consent number from consent documentation supplied by EPA to the facility for each waste listed on the manifest, matched to the relevant list number for the waste from block 9b. If additional space is needed, the owner or operator should use a Continuation Sheet(s) (EPA Form 8700-22A); and
 - (II) Send a copy of the manifest within 30 days of delivery to EPA using the addresses listed in part (9)(c)5 of Rule 0400-12-01-.03 until the facility can submit such a copy to the e-Manifest system per Item (ii)(V) of this part.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Part 3 of subparagraph (b) of paragraph (5) of Rule 0400-12-01-.06 Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities is amended by deleting it in its entirety and substituting instead the following:

3. Whenever a shipment of hazardous waste is initiated from a facility, the owner or operator of that facility must comply with the requirements of Rule 0400-12-01-.03. The provisions of subparagraphs (1)(f), (g), and (h) of Rule 0400-12-01-.03 are applicable to the onsite accumulation of hazardous wastes by generators. Therefore, the provisions of subparagraphs (1)(f), (g), and (h) of Rule 0400-12-01-.03 only apply to owners or operators who are shipping hazardous waste which they generated at that facility or operating as a large quantity generator consolidating hazardous waste from very small quantity generators under part (1)(h)6 of Rule 0400-12-01-.03.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Part 4 of subparagraph (b) of paragraph (5) of Rule 0400-12-01-.06 Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities is amended by deleting it in its entirety and substituting instead the following:

4. As per item (9)(e)4(ii)(XV) of Rule 0400-12-01-.03, within three working days of the receipt of a shipment subject to paragraph (9) of Rule 0400-12-01-.03, the owner or operator of a facility must provide a copy of the movement document bearing all required signatures to the exporter, to competent authorities of all other countries of export and transit that control the shipment as an export and transit of hazardous waste respectively; and on or after the electronic import-export reporting compliance date, to EPA electronically using EPA's Waste Import Export Tracking System (WIETS), or its successor system. The original copy of the movement document must be maintained at the facility for at least three years from the date of signature. The owner or operator of a facility may satisfy this recordkeeping requirement by retaining electronically submitted documents in the facility's account on EPA's Waste Import Export Tracking System (WIETS), or its successor system, provided that copies are readily available for viewing and production if requested by any EPA or authorized state inspector. No owner or operator of a facility may be held liable for the inability to produce the documents for inspection under this part if the owner or operator of a facility can demonstrate that the inability to produce the document is due exclusively to technical difficulty with EPA's

Waste Import Export Tracking System (WIETS), or its successor system, for which the owner or operator of a facility bears no responsibility.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Subpart (i) of Part 6 of subparagraph (b) of paragraph (5) of Rule 0400-12-01-.06 Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities is amended by deleting it in its entirety and substituting instead the following:

(i) Any requirement in these regulations for the owner or operator of a facility to sign a manifest or manifest certification by hand, or to obtain a handwritten signature, is satisfied by signing with or obtaining a valid and enforceable electronic signature within the meaning of 40 C.F.R. 262.25(a). (See part (3)(f)1 of Rule 0400-12-01-.03.)

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Part 10 of subparagraph (b) of paragraph (5) of Rule 0400-12-01-.06 Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities is amended by deleting it in its entirety and substituting instead the following:

- 10. Imposition of user fee for electronic manifest use.
 - (i) As prescribed in 40 CFR § 264.1311, and determined in 40 CFR § 264.1312, an owner or operator who is a user of the electronic manifest system shall be assessed a user fee by EPA for the submission and processing of each electronic and paper manifest. EPA shall update the schedule of user fees and publish them to the user community, as provided in 40 CFR § 264.1313.
 - (ii) An owner or operator subject to user fees under this part shall make user fee payments in accordance with the requirements of 40 CFR § 264.1314, subject to the informal fee dispute resolution process of 40 CFR § 264.1316, and subject to the sanctions for delinquent payments under 40 CFR § 264.1315.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Subpart (i) of part 11 of subparagraph (b) of paragraph (5) of Rule 0400-12-01-.06 Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities is amended by deleting it in its entirety and substituting instead the following:

(i) Electronic manifest signatures shall meet the criteria described in 40 C.F.R. 262.25(a). (See part (3)(f)1 of Rule 0400-12-01-.03.)

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Subparagraph (b) of paragraph (5) of Rule 0400-12-01-.06 Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities is amended by adding a new part 12 to read as follows:

- 12. Post-receipt manifest data corrections. After facilities have certified to the receipt of hazardous wastes by signing Item 20 of the manifest, any post-receipt data corrections may be submitted at any time by any interested person (e.g., waste handler) shown on the manifest.
 - (i) Interested persons must make all corrections to manifest data by electronic submission, either by directly entering corrected data to the web based service provided in e-Manifest for such corrections, or by an upload of a data file containing data corrections relating to one or more previously submitted manifests.
 - (ii) Each correction submission must include the following information:

- (I) The Manifest Tracking Number and date of receipt by the facility of the original manifest(s) for which data are being corrected;
- (II) The item number(s) of the original manifest that is the subject of the submitted correction(s); and
- (III) For each item number with corrected data, the data previously entered and the corresponding data as corrected by the correction submission.
- (iii) Each correction submission shall include a statement that the person submitting the corrections certifies that to the best of his or her knowledge or belief, the corrections that are included in the submission will cause the information reported about the previously received hazardous wastes to be true, accurate, and complete:
 - (I) The certification statement must be executed with a valid electronic signature; and
 - (II) A batch upload of data corrections may be submitted under one certification statement.
- (iv) Upon receipt by the system of any correction submission, other interested persons shown on the manifest will be provided electronic notice of the submitter's corrections.
- (v) Other interested persons shown on the manifest may respond to the submitter's corrections with comments to the submitter, or by submitting another correction to the system, certified by the respondent as specified in subpart (iii) of this part, and with notice of the corrections to other interested persons shown on the manifest.

Part 3 of subparagraph (b) of paragraph (7) of Rule 0400-12-01-.06 Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities is amended by deleting it in its entirety and substituting instead the following:

3. Complies with the closure requirements of this rule, including, but not limited to, the requirements of subparagraphs (9)(i), (10)(h), (11)(i), (12)(i), (13)(k), (14)(k), (15)(l), paragraphs (16) and (17), and subparagraphs (27)(b) through (d) and (33)(c).

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Item (II) of subpart (i) of part 2 of subparagraph (j) of paragraph (7) of Rule 0400-12-01-.06 Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities is amended by deleting it in its entirety and substituting instead the following:

(II) Its use is restricted under this paragraph; and

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Part 11 of subparagraph (p) of paragraph (8) of Rule 0400-12-01-.06 Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities is amended by deleting it in its entirety and substituting instead the following:

11. IRREVOCABLE STANDBY LETTER OF CREDIT

A letter of credit, as specified in part (8)(n)8 of Rule 0400-12-01-.05 or part (n)8 of this paragraph, must be worded as follows, except that instructions in parentheses are to be replaced with the relevant information and the parentheses deleted:

Name and Address of Issuing Institution _____

(Address to Division Director)

Dear Sir or Madam: We hereby establish our Irrevocable Standby Letter of Credit No. _____ in the favor of any and all third-party liability claimants, at the request and for the account of (owner's or operator's name and address) for third-party liability awards or settlements up to (in words) U.S. dollars \$______per occurrence and the annual aggregate amount of (in words) U.S. dollars \$______, for sudden accidental occurrences and/or for third-party liability awards or settlements up to the amount of (in words) U.S. dollars \$______ per occurrence, and the annual aggregate amount of (in words) U.S. dollars \$______, for nonsudden accidental occurrences available upon presentation of a sight draft, bearing reference to this letter of credit No. ____, and

[(1) a signed certificate reading as follows:

CERTIFICATION OF VALID CLAIM

The undersigned, as parties (insert principal) and (insert name and address of third-party claimants), hereby certify that the claim of bodily injury (and/or) property damage caused by a (sudden or nonsudden) accidental occurrence arising from operations of (principal's) hazardous waste treatment, storage, or disposal facility should be paid in the amount of \$_____. We hereby certify that the claim does not apply to any of the following:

- (i) Bodily injury or property damage for which (insert principal) is obligated to pay damages by reason of the assumption of liability in a contract or agreement. This exclusion does not apply to liability for damages that (insert principal) would be obligated to pay in the absence of the contract or agreement.
- (ii) Any obligation of (insert principal) under a workers' compensation, disability benefits, or unemployment compensation law or any similar law.
- (iii) Bodily injury to:
 - (I) An employee of (insert principal) arising from, and in the course of, employment by (insert principal); or
 - (II) The spouse, child, parent, brother or sister of that employee as a consequence of, or arising from, and in the course of employment by (insert principal). This exclusion applies:
 - I. Whether (insert principal) may be liable as an employer or in any other capacity; and
 - II. To any obligation to share damages with or repay another person who must pay damages because of the injury to persons identified in subitems I and II of this item.
- (iv) Bodily injury or property damage arising out of the ownership, maintenance, use, or entrustment to others of any aircraft, motor vehicle or watercraft.
- (v) Property damage to:
 - (I) Any property owned, rented, or occupied by (insert principal);
 - (II) Premises that are sold, given away or abandoned by (insert principal) if the property damage arises out of any part of those premises;
 - (III) Property loaned to (insert principal);
 - (IV) Personal property in the care, custody or control of (insert principal);
 - (V) That particular part of real property on which (insert principal) or any contractors or subcontractors working directly or indirectly on behalf of (insert principal) are performing operations, if the property damage arises out of these operations.
| (Signatures)
Grantor |
 |
 |
|-----------------------------|------|------|
| (Signatures)
Claimant(s) |
 |
 |

or

(2) a valid final court order establishing a judgment against the Grantor for bodily injury or property damage caused by a sudden or nonsudden accidental occurrence arising from operation of the Grantor's facility or group of facilities.]

This letter of credit is effective as of (date) and shall expire on (date at least one year later), but such expiration date shall be automatically extended for a period of (at least one year) on (date) and on each successive expiration date, unless, at least 120 days before the current expiration date, we notify you, the Division Director, and (owner's or operator's name) by certified mail that we have decided not to extend this letter of credit beyond the current expiration date.

Whenever this letter of credit is drawn on under and in compliance with the terms of this credit, we shall duly honor such draft upon presentation to us.

In the event that this letter of credit is used in combination with another mechanism for liability coverage, this letter of credit shall be considered (insert "primary" or "excess") coverage.

We certify that the wording of this letter of credit is identical to the wording specified in part (8)(p)11 of Tennessee Rule 0400-12-01-.06 as such regulations were constituted on the date shown immediately below.

(Signatures(s))	 	
(Name(s))	 	
(Title(s))	 	
(Date)	 	

This credit is subject to (insert "the most recent edition of the Uniform Customs and Practice for Documentary Credits, published and copyrighted by the International Chamber of Commerce" or "the Uniform Commercial Code").

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Subparagraph (a) of paragraph (9) of Rule 0400-12-01-.06 Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities is amended by deleting it in its entirety and substituting instead the following:

(a) Applicability [40 CFR 264.170]

The regulations in this paragraph apply to owners and operators of all hazardous waste facilities that store hazardous waste in containers, except as subparagraph (1)(b) of this rule provides otherwise.

(Comment: Under subparagraph (1)(g) and part (4)(d)3 of Rule 0400-12-01-.02, if a hazardous waste is emptied from a container, then the residue remaining in the container is not considered a hazardous waste if the container is "empty" as defined in subparagraph (1)(g) of Rule 0400-12-01-.02. In that event, management of the container is exempt from the requirements of this paragraph.)

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Subparagraph (e) of paragraph (9) of Rule 0400-12-01-.06 Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities is amended by deleting it in its entirety and substituting instead the following:

(e) Inspections [40 CFR 264.174]

At least weekly, the owner or operator must inspect areas where containers are stored. The owner or operator must look for leaking containers and for deterioration of containers and the containment system caused by corrosion or other factors. See part (2)(f)3 of this rule and subparagraph (b) of this paragraph for remedial action required if deterioration or leaks are detected.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Part 1 of subparagraph (b) of paragraph (10) of Rule 0400-12-01-.06 Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities is amended by deleting it in its entirety and substituting instead the following:

1. For each existing tank system that does not have secondary containment meeting the requirements of subparagraph (d) of this paragraph, the owner or operator must determine that the tank system is not leaking or unfit for use. Except as provided in part 3 of this subparagraph, the owner or operator must obtain and keep on file at the facility a written assessment, reviewed and certified by a qualified Professional Engineer, in accordance with part (2)(a)10 of Rule 0400-12-01-.07, that attests to the tank system's integrity by January 12, 1988.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Subpart (i) of part 5 of subparagraph (b) of paragraph (11) of Rule 0400-12-01-.06 Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities is amended by deleting it in its entirety and substituting instead the following:

(i) The monofill contains only hazardous wastes from foundry furnace emission controls or metal casting molding sand, and such wastes do not contain constituents which would render the wastes hazardous for reasons other than the toxicity characteristic in subparagraph (3)(e) of Rule 0400-12-01-.02; and

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Subpart (ii) of part 2 of subparagraph (a) of paragraph (30) of Rule 0400-12-01-.06 Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities is amended by deleting it in its entirety and substituting instead the following:

(ii) A unit (including a hazardous waste recycling unit) that is not exempt from permitting under the provisions of subparagraph (1)(h) of Rule 0400-12-01-.03 (i.e., a hazardous waste recycling unit that is not a 90-day tank or container) and that is located at a hazardous waste management facility otherwise subject to the permitting requirements of Rule 0400-12-01-.07, or

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Subpart (iii) of part 2 of subparagraph (a) of paragraph (31) of Rule 0400-12-01-.06 Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities is amended by deleting it in its entirety and substituting instead the following:

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(iii) A unit that is exempt from permitting under the provisions of subparagraph (1)(h) of Rule 0400-12-01-.03 (i.e., a "90-day" tank or container) and is not a recycling unit under the provisions of subparagraph (1)(f) of Rule 0400-12-01-.02.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Item (I) of subpart (iv) of part 3 of subparagraph (g) of paragraph (32) of Rule 0400-12-01-.06 Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities is amended by deleting it in its entirety and substituting instead the following:

(1) In the case when a hazardous waste already is in the container at the time the owner or operator first accepts possession of the container at the facility and the container is not emptied within 24 hours after the container is accepted at the facility (i.e., does not meet the conditions for an empty container as specified in part (1)(g)2 of Rule 0400-12-01-.02), the owner or operator shall visually inspect the container and its cover and closure devices to check for visible cracks, holes, gaps, or other open spaces into the interior of the container when the cover and closure devices are secured in the closed position. The container visual inspection shall be conducted on or before the date that the container is accepted at the facility (i.e., the date the container becomes subject to the container standards of this paragraph). For purposes of this requirement, the date of acceptance is the date of signature that the facility owner or operator enters on Item 20 of the Uniform Hazardous Waste Manifest (EPA Forms 8700-22 and 8700-22A), as required under subparagraph (5)(b) of this rule. If a defect is detected, the owner or operator shall repair the defect in accordance with the requirements of item (III) of this subpart.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Item (I) of subpart (iv) of part 4 of subparagraph (g) of paragraph (32) of Rule 0400-12-01-.06 Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities is amended by deleting it in its entirety and substituting instead the following:

(I) In the case when a hazardous waste already is in the container at the time the owner or operator first accepts possession of the container at the facility and the container is not emptied within 24 hours after the container accepted at the facility (i.e., does not meet the conditions for an empty container as specified in part (1)(g)2 of Rule 0400-12-01-.02), the owner or operator shall visually inspect the container and its cover and closure devices to check for visible cracks, holes, gaps, or other open spaces into the interior of the container when the cover and closure devices are secured in the closed position. The container visual inspection shall be conducted on or before the date that the container is accepted at the facility (i.e., the date the container becomes subject to the container standards of this paragraph). For purposes of this requirement, the date of acceptance is the date of signature that the facility owner or operator enters on Item 20 of the Uniform Hazardous Waste Manifest (EPA Forms 8700-22 and 8700-22A), as required under subparagraph (5)(b) of this rule. If a defect is detected, the owner or operator shall repair the defect in accordance with the requirements of item (III) of this subpart.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Subparagraph (a) of paragraph (57) of Rule 0400-12-01-.06 Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities is amended by deleting it in its entirety and substituting instead the following:

(a) Appendix I -- Recordkeeping Instructions

The recordkeeping provisions of subparagraph (5)(d) of this rule specify that an owner or operator must keep a written operating record at his facility. This appendix provides additional instructions for keeping portions of the operating record. See part $(5)(d)^2$ of this rule for additional recordkeeping requirements.

The following information must be recorded, as it becomes available, and maintained in the operating record until closure of the facility in the following manner:

Records of each hazardous waste received, treated, stored, or disposed of at the facility, which include the following:

1. A description by its common name and the Hazardous Waste Code(s) from Rule 0400-12-01-.02 which apply to the waste. The waste description also must include the waste's physical form, i.e., liquid, sludge, solid, or contained gas. If the waste is not listed in paragraph (4) of Rule 0400-12-01-.02, the description also must include the process that produced it (for example, solid filter cake from production of ----, Hazardous Waste Code W051).

Each hazardous waste listed in paragraph (4) of Rule 0400-12-01-.02, and each hazardous waste characteristic defined in paragraph (3) of Rule 0400-12-01-.02, has a four-digit Hazardous Waste Code assigned to it. This number must be used for recordkeeping and reporting purposes. Where a hazardous waste contains more than one listed hazardous waste, or where more than one hazardous waste characteristic applies to the waste, the waste description must include all applicable Hazardous Waste Codes.

Table 1			
Unit of Measure	Code ¹		
Gallons	G		
Gallons per Hour	Е		
Gallons per Day	U		
Liters	L		
Liters per Hour	н		
Liters per Day	V		
Tons	М		
Short Tons	Т		
Short Tons per Hour	D		
Metric Tons per Hour	W		
Short Tons per Day	Ν		
Metric Tons per Day	S		
Pounds	Р		
Pounds per Hour	J		
Kilograms	К		
Kilograms per Hour	R		
Cubic Yards	Y		
Cubic Meters	С		
Acres	В		
Acre-feet	А		
Hectares	Q		

2. The estimated or manifest-reported weight, or volume and density, where applicable, in one of the units of measure specified in Table 1;

Table 1

Hectare-meter	F
Btu's per Hour	

FOOTNOTE: ¹Single digit symbols are used here for data processing purposes.

3. The method(s) (by handling code(s) as specified in Table 2) and date(s) of treatment, storage, or disposal.

Table 2.-Handling Codes for Treatment, Storage and Disposal Methods

Enter the handling code(s) listed below that most closely represents the technique(s) used at the facility to treat, store or dispose of each quantity of hazardous waste received.

- (i) Storage
 - S01 Container (barrel, drum, etc.)
 - S02 Tank
 - S03 Waste Pile
 - S04 Surface Impoundment
 - S05 Drip Pad
 - S06 Containment Building (Storage)
 - S99 Other Storage (specify)

(ii) Treatment

- (I) Thermal Treatment
 - T06 Liquid injection incinerator
 - T07 Rotary kiln incinerator
 - T08 Fluidized bed incinerator
 - T09 Multiple hearth incinerator
 - T10 Infrared furnace incinerator
 - T11 Molten salt destructor
 - T12 Pyrolysis
 - T13 Wet Air oxidation
 - T14 Calcination
 - T15 Microwave discharge
 - T18 Other (specify)
- (II) Chemical Treatment
 - T19 Absorption mound

- T20 Absorption field
- T21 Chemical fixation
- T22 Chemical oxidation
- T23 Chemical precipitation
- T24 Chemical reduction
- T25 Chlorination
- T26 Chlorinolysis
- T27 Cyanide destruction
- T28 Degradation
- T29 Detoxification
- T30 Ion exchange
- T31 Neutralization
- T32 Ozonation
- T33 Photolysis
- T34 Other (specify)

(III) Physical Treatment

- I. Separation of components
 - T35 Centrifugation
 - T36 Clarification
 - T37 Coagulation
 - T38 Decanting
 - T39 Encapsulation
 - T40 Filtration
 - T41 Flocculation
 - T42 Flotation
 - T43 Foaming
 - T44 Sedimentation
 - T45 Thickening
 - T46 Ultrafiltration
 - T47 Other (specify)

- II. Removal of Specific Components
 - T48 Absorption-molecular sieve
 - T49 Activated carbon
 - T50 Blending
 - T51 Catalysis
 - T52 Crystallization
 - T53 Dialysis
 - T54 Distillation
 - T55 Electrodialysis
 - T56 Electrolysis
 - T57 Evaporation
 - T58 High gradient magnetic separation
 - T59 Leaching
 - T60 Liquid ion exchange
 - T61 Liquid-liquid extraction
 - T62 Reverse osmosis
 - T63 Solvent recovery
 - T64 Stripping
 - T65 Sand filter
 - T66 Other (specify)
- (IV) Biological Treatment Activated sludge
 - T67 Activated Sludge
 - T68 Aerobic lagoon
 - T69 Aerobic tank
 - T70 Anaerobic tank
 - T71 Composting
 - T72 Septic tank
 - T73 Spray irrigation
 - T74 Thickening filter
 - T75 Trickling filter

- T76 Waste stabilization pond
- T77 Other (specify)
- T78 [Reserved]
- T79 [Reserved]
- (V) Boilers and Industrial Furnaces
 - T80 Boiler
 - T81 Cement Kiln
 - T82 Lime Kiln
 - T83 Aggregate Kiln
 - T84 Phosphate Kiln
 - T85 Coke Oven
 - T86 Blast Furnace
 - T87 Smelting, Melting, or Refining Furnace
 - T88 Titanium Dioxide Chloride Process Oxidation Reactor
 - T89 Methane Reforming Furnace
 - T90 Pulping Liquor Recovery Furnace
 - T91 Combustion Device Used in the Recovery of Sulfur Values From Spent Sulfuric Acid
 - T92 Halogen Acid Furnaces
 - T93 Other Industrial Furnaces Listed in 40 CFR 260.10 (specify)
- (VI) Other Treatment
 - T94 Containment Building (Treatment)
- (iii) Disposal
 - D79 Underground Injection
 - D80 Landfill
 - D81 Land Treatment
 - D82 Ocean Disposal
 - D83 Surface Impoundment (to be closed as a landfill)
 - D99 Other Disposal (specify)
- (iv) Miscellaneous (Subpart X)
 - X01 Open Burning/Open Detonation

- X02 Mechanical Processing
- X03 Thermal Unit
- X04 Geologic Repository
- X99 Other Subpart X (specify)

Subpart (i) of part 4 of subparagraph (b) of paragraph (1) of Rule 0400-12-01-.07 Permitting of Hazardous Waste Treatment, Storage, and Disposal Facilities is amended by deleting it in its entirety and substituting instead the following:

 Generators who accumulate hazardous waste on-site in compliance with all of the conditions for exemption provided in subparagraphs (1)(e), (f), (g), and (h) of Rule 0400-12-01-.03;

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Subpart (ii) of part 4 of subparagraph (b) of paragraph (1) of Rule 0400-12-01-.07 Permitting of Hazardous Waste Treatment, Storage, and Disposal Facilities is amended by deleting it in its entirety and substituting instead the following:

Persons who own or operate facilities solely for the treatment, storage, or disposal of hazardous waste excluded from regulation under this rule by subparagraph (1)(d) of Rule 0400-12-01-.02 or subparagraph (1)(e) of Rule 0400-12-01-.03 (very small quantity generator exemption);

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Subpart (v) of part 1 of subparagraph (c) of paragraph (3) of Rule 0400-12-01-.07 Permitting of Hazardous Waste Treatment, Storage, and Disposal Facilities is amended by deleting it in its entirety and substituting instead the following:

(v) Changes made in accordance with an interim status corrective action order issued by EPA under section 3008(h) or other Federal authority, by an authorized State under comparable State authority, or by a court in a judicial action brought by EPA or by an authorized State. Changes under this subpart are limited to the treatment, storage, or disposal of solid waste from releases that originate within the boundary of the facility.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Part 2 of subparagraph (c) of paragraph (3) of Rule 0400-12-01-.07 Permitting of Hazardous Waste Treatment, Storage, and Disposal Facilities is amended deleting it in its entirety and substituting instead the following:

- 2. Except as specifically allowed under this part, changes listed under part 1 of this subparagraph may not be made if they amount to reconstruction of the hazardous waste management facility. Reconstruction occurs when the capital investment in the changes to the facility exceeds 50 percent of the capital cost of a comparable entirely new hazardous waste management facility. If all other requirements are met, the following changes may be made even if they amount to a reconstruction:
 - (i) Changes made solely for the purposes of complying with the requirements of subparagraph (10)(d) of Rule 0400-12-01-.05 for tanks and ancillary equipment.
 - (ii) If necessary to comply with Federal, State, or local requirements, changes to an existing unit, changes solely involving tanks or containers, or addition of replacement surface impoundments that satisfy the standards of federal RCRA section 3004(o).

- (iii) Changes that are necessary to allow owners or operators to continue handling newly listed or identified hazardous wastes that have been treated, stored, or disposed of at the facility prior to the effective date of the rule establishing the new listing or identification.
- (iv) Changes during closure of a facility or of a unit within a facility made in accordance with an approved closure plan.
- (v) Changes necessary to comply with an interim status corrective action order issued by EPA under section 3008(h) or other Federal authority, by an authorized State under comparable State authority, or by a court in a judicial proceeding brought by EPA or an authorized State, provided that such changes are limited to the treatment, storage, or disposal of solid waste from releases that originate within the boundary of the facility.
- (vi) Changes to treat or store, in tanks, containers, or containment buildings, hazardous wastes subject to land disposal restrictions imposed by Rule 0400-12-01-.10 or federal RCRA section 3004, provided that such changes are made solely for the purpose of complying with Rule 0400-12-01-.10 or federal RCRA section 3004.
- (vii) Addition of newly regulated units under subpart 1(vi) of this subparagraph.
- (viii) Changes necessary to comply with standards under 40 CFR part 63, Subpart EEE-National Emission Standards for Hazardous Air Pollutants From Hazardous Waste Combustors.

Part 13 of subparagraph (a) of paragraph (8) of Rule 0400-12-01-.07 Permitting of Hazardous Waste Treatment, Storage, and Disposal Facilities is amended by deleting it in its entirety and substituting instead the following:

13. Information Repository

The Commissioner may require the permittee to establish and maintain an information repository at any time, based on the factors set forth in item (7)(e)4(v)(II) of this rule. The information repository will be governed by the provisions in items (7)(e)4(v)(III) through (VI) of this rule.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Subpart (v) of part 3 of subparagraph (c) of paragraph (9) of Rule 0400-12-01-.07 Permitting of Hazardous Waste Treatment, Storage, and Disposal Facilities is amended by deleting it in its entirety and substituting instead the following:

 Modification of a closure plan or post-closure plan is required under part (7)(c)3 or (7)(i)4 of Rule 0400-12-01-.06.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Subitem II of item (I) of subpart (i) of part 5 of subparagraph (c) of paragraph (9) of Rule 0400-12-01-.07 Permitting of Hazardous Waste Treatment, Storage, and Disposal Facilities is amended by deleting it in its entirety and substituting instead the following:

II. The permittee must send a notice of the modification to all persons on the facility mailing list, maintained by the Commissioner in accordance with item (7)(e)3(i)(V) of this rule, and the appropriate units of State and local government, as specified in items (7)(e)3(i)(II) through (V) of this rule. This notification must be made within 90 calendar days after the

change is put into effect. For the Class 1 modifications that require prior Commissioner approval, the notification must be made within 90 calendar days after the Commissioner approves the request

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Subitem I of item (VI) of subpart (ii) of part 5 of subparagraph (c) of paragraph (9) of Rule 0400-12-01-.07 Permitting of Hazardous Waste Treatment, Storage, and Disposal Facilities is amended by deleting it in its entirety and substituting instead the following:

- I. No later than 90 days after receipt of the modification request, the Commissioner must:
 - A. Approve the modification request, with or without changes, and modify the permit accordingly;
 - B. Deny the request;
 - C. Determine that the modification request must follow the procedures in subpart (iii) of this part for Class 3 modifications for the following reasons:
 - (A) There is significant public concern about the proposed modification; or
 - (B) The complex nature of the change requires the more extensive procedures of Class 3;
 - D. Approve the request, with or without changes, as a temporary authorization having a term of up to 180 days; or
 - E. Notify the permittee that he or she will decide on the request within the next 30 days.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Item (I) of subpart (v) of part 5 of subparagraph (c) of paragraph (9) of Rule 0400-12-01-.07 Permitting of Hazardous Waste Treatment, Storage, and Disposal Facilities is amended by deleting it in its entirety and substituting instead the following:

(I) Upon request of the permittee, the Commissioner may, without prior public notice and comment, grant the permittee a temporary authorization in accordance with this subpart. Temporary authorizations must have a term of not more than 180 days.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

The note immediately following the title of paragraph (11) of Rule 0400-12-01-.07 Permitting of Hazardous Waste Treatment, Storage, and Disposal Facilities and immediately preceding subparagraph (a) of that paragraph is amended by deleting it in its entirety and substituting instead the following:

(Note: Why is this paragraph written in a special format? [40 CFR 270.79]

This paragraph is written in a special format to make it easier to understand the regulatory requirements. Like other regulations, this establishes enforceable legal requirements. For this Paragraph, "I" and "you" refer to the owner/operator.)

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Part 4 of subparagraph (b) of paragraph (1) of Rule 0400-12-01-.08 Fee System for Transporters, Storers, Treaters, Disposers, and Certain Generators of Hazardous Waste and for Certain Used Oil Facilities or Transporters is amended by deleting it in its entirety and substituting instead the following:

4. Persons requesting that the Underground Storage Tanks and Solid Waste Disposal Control Board review an action of the Commissioner;

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Paragraph (2) of Rule 0400-12-01-.08 Fee System for Transporters, Storers, Treaters, Disposers, and Certain Generators of Hazardous Waste and for Certain Used Oil Facilities or Transporters is amended by deleting it in its entirety and substituting instead the following:

(2) Installation Identification Number Application Fee

Any person identified in subparagraph (1)(b) of this rule applying to the Department for an Installation Identification Number on the Notification Forms provided by the Department shall submit as part of the request a fee of as set forth below:

- 150 dollars for a new site;
- 150 dollars for a change in ownership;
- 150 dollars for a site relocation; and
- 100 dollars for adding a new hazardous waste stream.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Subparagraph (a) of paragraph (3) of Rule 0400-12-01-.08 Fee System for Transporters, Storers, Treaters, Disposers, and Certain Generators of Hazardous Waste and for Certain Used Oil Facilities or Transporters is amended by deleting it in its entirety and substituting instead the following:

(a) Transporters

Any person who applies for a permit or a modification to a permit to transport hazardous wastes in Tennessee must submit a fee as set forth below:

- 200 dollars with a permit application; and
- 200 dollars per permit modification.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Parts 3 and 4 of subparagraph (a) of paragraph (4) of Rule 0400-12-01-.08 Fee System for Transporters, Storers, Treaters, Disposers, and Certain Generators of Hazardous Waste and for Certain Used Oil Facilities or Transporters is amended by deleting it in its entirety and substituting instead the following:

- 3. Each person transporting used oil and that is required to submit an annual report under Rule 0400-12-01-.11 shall submit to the Commissioner an annual maintenance fee of 200 dollars by March 1 of each year.
- 4. Each person operating a used oil transfer facility under Rule 0400-12-01-.11 shall submit to the Commissioner an annual facility maintenance fee of 1,000 dollars by March 1 of each year.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

The introductory text of subparagraph (b) of Paragraph (4) of Rule 0400-12-01-.08 Fee System for Transporters, Storers, Treaters, Disposers, and Certain Generators of Hazardous Waste and for Certain Used Oil Facilities or

Transporters is amended by deleting it in its entirety and substituting instead the following, however, the parts of this subparagraph are retained without being changed by this amendment:

(b) Treatment, Storage, and Disposal Facilities (TSDF) including facilities conducting corrective action and post-closure.

The owner or operator of each hazardous waste treatment, storage, or disposal facility in Tennessee having either a permit issued under the Act or interim status as provided under Rule 0400-12-01-.07(3) must submit to the Commissioner, by March 1 of each year, an annual permit maintenance fee as provided in this subparagraph.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Paragraph (5) of Rule 0400-12-01-.08 Fee System for Transporters, Storers, Treaters, Disposers, and Certain Generators of Hazardous Waste and for Certain Used Oil Facilities or Transporters is amended by deleting it in its entirety and substituting instead the following:

(5) Generator Fees

- (a) Annual Generator Fees
 - 1. Except as provided in subparagraph (b) of this paragraph, generators shall pay the base fee required by part 3 or 4 of this subparagraph plus an off-site shipping fee. The off-site shipping fee shall be determined in accordance with subparagraphs (c) and (d) of this paragraph.
 - 2. A generator shall determine the quantity it generated each calendar month in the same manner as a generator determines it under subparagraph (1)(d) of Rule 0400-12-01-.03, except the quantities generated during episodic event(s) and managed in accordance with paragraph (11) of Rule 0400-12-01-.03 are included in the calendar month generation rate calculations for the purposes of paying the annual generator base fee required by this subparagraph.
 - 3. After determining the quantities generated in accordance with part 2 of this subparagraph, a generator who generates the following amount in any one calendar month of the previous calendar year shall pay a base fee of \$1,200:
 - (i) Greater than 100 kilograms (220 lbs) but less than 1,000 kilograms (2200 lbs) of non-acute hazardous waste; and
 - Less than or equal to 1 kilogram (2.2 lbs) of acute hazardous waste listed in subparagraph (4)(b) of Rule 0400-12-01-.02 with the assigned hazard code of (H) or are listed in part (4)(d)5 of Rule 0400-12-01-.02; and
 - (iii) Less than or equal to 100 kilograms (220 lbs) of any residue or contaminated soil, water, or other debris resulting from the cleanup of a spill, into or on any land or water, of any acute hazardous waste listed in subparagraph (4)(b) of Rule 0400-12-01-.02 with the assigned hazard code of (H) or are listed in part (4)(d)5 of Rule 0400-12-01-.02.
 - 4. After determining the quantities generated in accordance with part 2 of this subparagraph, a generator who generates the following amount in any one calendar month of the previous calendar year shall pay a base fee of \$2,000:
 - (i) Greater than or equal to 1,000 kilograms (2200 lbs) of non-acute hazardous waste; or
 - (ii) Greater than 1 kilogram (2.2 lbs) of acute hazardous waste listed in subparagraph (4)(b) of Rule 0400-12-01-.02 with the assigned hazard code of (H) or are listed in part (4)(d)5 of Rule 0400-12-01-.02; or

- (iii) Greater than 100 kilograms (220 lbs) of any residue or contaminated soil, water, or other debris resulting from the cleanup of a spill, into or on any land or water, of any acute hazardous waste listed in subparagraph (4)(b) of Rule 0400-12-01-.02 with the assigned hazard code of (H) or are listed in part (4)(d)5 of Rule 0400-12-01-.02.
- (b) Exclusions from Base Fee Assessment
 - 1. Hazardous wastes generated from remediation or corrective actions required by the Tennessee Hazardous Waste Management Act of 1977 and 1983; the Resource Conservation and Recovery Act (42 U.S.C. 6901 et seq.); and the Comprehensive Environmental Response, Compensation and Liability Act (42 U.S.C. 9601 et seq.) shall not be subject to the fee calculations in parts (a)1 or (a)2 of this paragraph.
 - 2. A Generator does not owe this fee if neither part (a)3 or 4 of this paragraph is applicable.

(Note: The fee exclusions in this subparagraph also apply to Department-approved remediation or corrective actions under the administration of the Tennessee Petroleum Underground Storage Tank Act and Tennessee Drycleaner's Environmental Response Act.)

- (c) Off-site Shipping Fee
 - 1. Hazardous waste with a thermal heating value greater than 5000 BTU per pound that are subject to energy recovery as defined by handling codes for treatment methods T50 and T80 through T93 are assessed an off-site shipping fee of \$0.0012 per pound.
 - 2. Hazardous wastewaters, defined as containing less than 1 percent total organic carbon and less than 1 percent total suspended solids, shall be assessed an off-site shipping fee of \$0.0047 per pound.
 - 3. Except for those hazardous wastes excluded from off-site shipment fees as provided in subparagraphs (d) of this paragraph, all remaining waste not claimed in part 1 or 2 of this subparagraph shall be assessed an off-site shipping fee of \$0.0088 per pound.
 - 4. The off-site shipping fee for any single generator shall not exceed \$29,200 in any calendar year.
- (d) Exclusions from Off-site Shipping Fees
 - 1. Hazardous wastes that are recycled/recovered as defined by handling codes for treatment methods T30, T54, and T63, lead smelting, precious metals recovery, and/or high temperature metals recovery are exempt from off-site shipping fees.
 - 2. Hazardous wastes generated from remediation or corrective actions required by the Tennessee Hazardous Waste Management Act of 1977 and 1983; the Resource Conservation and Recovery Act (42 U.S.C. 6901 et seq.); and the Comprehensive Environmental Response, Compensation and Liability Act (42 U.S.C. 9601 et seq.) shall not be subject to off-site shipping fees.

(Note: The fee exclusion in part 2 of this subparagraph also applies to department approved remediation or corrective actions under the administration of the Tennessee Petroleum Underground Storage Tank Act and Tennessee Drycleaner's Environmental Response Act.)

- 3. A Generator does not owe this fee, if neither part (a)3 or 4 of this paragraph is applicable.
- 4. Universal Wastes identified in Rule 0400-12-01-.12, and spent lead-acid batteries managed under paragraph (7) of Rule 0400-12-01-.09, are exempt from off-site shipping fees.

(e) Director's Option, case-by-case

The Director may include other handling codes for waste treatment methods in part (c)1 or part (d)1 of this paragraph on a case-by-case basis, based upon application by a generator.

(f) Date for Payment of Fees

These generator fees shall be paid no later than March 1 of each year for hazardous waste activities conducted the previous calendar year.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Subparagraph (d) of paragraph (8) of Rule 0400-12-01-.08 Fee System for Transporters, Storers, Treaters, Disposers, and Certain Generators of Hazardous Waste and for Certain Used Oil Facilities or Transporters is amended by deleting it in its entirety and substituting instead the following:

(d) Date for Payment of Fees

Hazardous waste tipping fees shall be paid no later than March 1 of each year for hazardous waste activities conducted the previous calendar year.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Subparagraph (c) of paragraph (3) of Rule 0400-12-01-.09 Standards for the Management of Specific Hazardous Wastes and Specific Types of Hazardous Waste Management Facilities is amended by deleting it in its entirety and substituting instead the following:

(c) Standards Applicable to Storers of Materials That Are to be Used in a Manner That Constitutes Disposal Who Are Not the Ultimate Users [40 CFR 266.22]

Owners or operators of facilities that store recyclable materials that are to be used in a manner that constitutes disposal, but who are not the ultimate users of the materials, are regulated under all applicable provisions of paragraphs (1) through (12) of Rule 0400-12-01-.05, paragraphs (1) through (12) of Rule 0400-12-01-.07, and shall notify the Commissioner on forms provided by the Commissioner and completed as per the accompanying instructions.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Part 1 of subparagraph (d) of paragraph (3) of Rule 0400-12-01-.09 Standards for the Management of Specific Hazardous Wastes and Specific Types of Hazardous Waste Management Facilities is amended by deleting it in its entirety and substituting instead the following:

1. Owners or operators of facilities that use recyclable materials in a manner that constitutes disposal are regulated under all applicable provisions of paragraphs (1) through (12) of Rule 0400-12-01-.05, paragraphs (1) through (14) of Rule 0400-12-01-.06, Rule 0400-12-01-.07, and Rule 0400-12-01-.10 and shall notify the Commissioner on forms provided by the Commissioner and completed as per the accompanying instructions. (These requirements do not apply to products which contain these recyclable materials under the provisions of part (a)2 of this paragraph.)

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Part 2 of subparagraph (a) of paragraph (6) of Rule 0400-12-01-.09 Standards for the Management of Specific Hazardous Wastes and Specific Types of Hazardous Waste Management Facilities is amended by deleting it in its entirety and substituting instead the following:

- 2. Persons who generate, transport, or store recyclable materials that are regulated under this paragraph are subject to the following requirements:
 - (i) Notification of the Commissioner on forms provided by the Commissioner and

completed as per the accompanying instructions;

- (ii) Paragraph (3) of Rule 0400-12-01-.03 (for generators), Rules 0400-12-01-.04(3)(a) and (b) (for transporters), and Rules 0400-12-01-.05(5)(b) and (c) (for persons who store); and
- (iii) For precious metals exported to or imported from other countries for recovery, paragraph (9) of Rule 0400-12-01-.03 and subparagraph (2)(c) of Rule 0400-12-01-.05.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Paragraph (7) of Rule 0400-12-01-.09 Standards for the Management of Specific Hazardous Wastes and Specific Types of Hazardous Waste Management Facilities is amended by deleting it in its entirety and substituting instead the following:

- (7) Spent Lead-Acid Batteries Being Reclaimed [40 CFR 266 Subpart G]
 - (a) Applicability and Requirements [40 CFR 266.80]
 - 1. Are spent lead-acid batteries exempt from hazardous waste management requirements? If you generate, collect, transport, store, or regenerate lead-acid batteries for reclamation purposes, you may be exempt from certain hazardous waste management requirements. Use the following table to determine which requirements apply to you. Alternatively, you may choose to manage your spent lead-acid batteries under the "Universal Waste" rule in Rule 0400-12-01-.12.

If your batteries * * *	And if you * * *	Then you * * *	And you * * *
(i) Will be reclaimed through regeneration (such as by electrolyte replacement).		are exempt from Rules 0400-12-0103 (except for .03(1)(b)) through 0400-12-01- .07, 0400-12-0109, and 0400-12-0110 including the notification requirement of Rule 0400-12-0103(2).	are subject to Rules 0400-12-0102 and .03(1)(b).
(ii) Will be reclaimed other than through regeneration.	generate, collect, and/or transport these batteries.	are exempt from Rules 0400-12-0103 (except for .03(1)(b)) through 0400-12-01- .07 and 0400-12-01- .09, including the notification requirement of Rule 0400-12-0103(2).	are subject to Rules 0400-12-0102 and .03(1)(b),and applicable provisions under Rule 0400-12- 0110.
(iii) Will be reclaimed other than through regeneration.	store these batteries but you aren't the reclaimer.	are exempt from Rules 0400-12-0103 (except for .03(1)(b)) through 0400-12-01- .07 and 0400-12-01- .09, including the notification requirement of Rule 0400-12-0103(2).	are subject to Rules 0400-12-0102, .03(1)(b),and applicable provisions under Rule 0400-12- 0110.
(iv) Will be reclaimed other than through regeneration.	store these batteries before you reclaim them.	must comply with part 2 of this subparagraph and as appropriate other regulator provisions described	are subject to Rules 0400-12-0102, .03(1)(b),and applicable provisions under Rule 0400-12-

		in part 2 of this subparagraph.	0110.
(v) Will be reclaimed other than through regeneration.	don't store these batteries before you reclaim them.	are exempt from Rules 0400-12-0103 (except for .03(1)(b)) through 0400-12-01- .07 and 0400-12-01- .09, including the notification requirement of Rule 0400-12-0103(2).	are subject to Rules 0400-12-0102, .03(1)(b),and applicable provisions under Rule 0400-12- 0110.
(vi) Will be reclaimed through regeneration or any other means.	export these batteries for reclamation in a foreign country.	are exempt from Rules 0400-12-0103 (except for subparagraphs (1)(b) and (1)(i), and paragraph (9)), 0400- 12-0104 through 0400-12-0107, 0400- 12-0109 and 0400- 12-0110	are subject to Rule 0400-12-0102 and subparagraphs (1)(b) and (1)(i) of Rule 0400-12-0103, and paragraph (9) of Rule 0400-12-0103.
(vii) Will be reclaimed through regeneration or any other means.	Transport these batteries in the U.S. to export them for reclamation in a foreign country.	are exempt from Rules 0400-12-0104 through 0400-12-01- .07, 0400-12-0109 and 0400-12-0110, including the notification requirements of Rule 0400-12-0103(2).	must comply with applicable requirements in paragraph (9) of Rule 0400-12-0103.
(viii) Will be reclaimed other than through regeneration.	Import these batteries from foreign country and store these batteries but you aren't the reclaimer.	are exempt from Rules 0400-12-0103 (except for subparagraphs (1)(b) and (1)(i), and paragraph (9)), 0400- 12-0104 through 0400-12-0107, 0400- 12-0109 and 0400- 12-0110.	are subject to Rule 0400-12-0102 and subparagraphs (1)(b) and (1)(i) of Rule 0400-12-0103, paragraph (9) of Rule 0400-12-0103 and applicable provisions under Rule 0400-12- 0109.
(ix) Will be reclaimed other than through regeneration.	Import these batteries from foreign country and store these batteries before you reclaim them.	must comply with part (7)(a)2 of Rule 0400- 12-0109 and as appropriate other regulatory provisions described in part (7)(a)2 of Rule 0400- 12-0109.	are subject to Rule 0400-12-0102 and subparagraphs (1)(b) and (1)(i) of Rule 0400-12-0103, paragraph (9) of Rule 0400-12-0103 and applicable provisions under Rule 0400-12- 0109.
(x) Will be reclaimed other than through regeneration.	Import these batteries from foreign country and don't store these batteries before you reclaim them.	are exempt from Rules 0400-12-0103 (except for subparagraphs (1)(b) and (1)(i), and paragraph (9)), 0400- 12-0104 through 0400-12-0107, 0400- 12-0109 and 0400- 12-0110.	are subject to Rule 0400-12-0102 and subparagraphs (1)(b) and (1)(i) of Rule 0400-12-0103, paragraph (9) of Rule 0400-12-0103 and applicable provisions under Rule 0400-12- 0109.

- 2. If I store spent lead-acid batteries before I reclaim them but not through regeneration, which requirements apply? The requirements of this part apply to you if you store spent lead-acid batteries before you reclaim them, but you don't reclaim them through regeneration. The requirements are slightly different depending on your Hazardous Waste permit status.
 - (i) For Interim Status Facilities, you must comply with:
 - (I) Notification of the Commissioner on forms provided by the Commissioner and completed as per the accompanying instructions.
 - (II) All applicable provisions in paragraph (1) of Rule 0400-12-01-.05.
 - (III) All applicable provisions in paragraph (2) of Rule 0400-12-01-.05, except subparagraph (2)(d) of Rule 0400-12-01-.05 (waste analysis).
 - (IV) All applicable provisions in paragraphs (3) and (4) of Rule 0400-12-01-.05.
 - (V) All applicable provisions in paragraph (5) of Rule 0400-12-01-.05, except subparagraphs (b) and (c) (dealing with the use of the manifest and manifest discrepancies).
 - (VI) All applicable provisions in paragraphs (6) through (12) of Rule 0400-12-01-.05.
 - (VII) All applicable provisions in Rule 0400-12-01-.07.
 - (ii) For Permitted Facilities.
 - (I) Notification of the Commissioner on forms provided by the Commissioner and completed as per the accompanying instructions.
 - (II) All applicable provisions in paragraph (1) of Rule 0400-12-01-.06.
 - (III) All applicable provisions in paragraph (2) of Rule 0400-12-01-.06 but not subparagraph (d) (waste analysis).
 - (IV) All applicable provisions in paragraph (3) and (4) of Rule 0400-12-01-.06.
 - (V) All applicable provisions in paragraph (5) of Rule 0400-12-01-.06 but not subparagraph (b) or (c) (dealing with the use of the manifest and manifest discrepancies).
 - (VI) All applicable provisions in paragraphs (6) through (12) of Rule 0400-12-01-.06.
 - (VII) All applicable provisions in Rule 0400-12-01-.07.
- (b) Reserved.

Subpart (iii) part 3 of subparagraph (a) of paragraph (8) of Rule 0400-12-01-.09 Standards for the Management of Specific Hazardous Wastes and Specific Types of Hazardous Waste Management Facilities is amended by deleting it in its entirety and substituting instead the following:

(iii) Hazardous wastes that are exempt from regulation under subparagraph (1)(d) of Rule 0400-12-01-.02 and items (1)(f)1(iii)(III) and (IV) of Rule 0400-12-01-.02, and hazardous wastes that are subject to the special requirements for very small guantity generators under subparagraph (1)(e) of Rule 0400-12-01-.03; and

Subpart (i) of part 1 of subparagraph (f) of paragraph (14) of Rule 0400-12-01-.09 Standards for the Management of Specific Hazardous Wastes and Specific Types of Hazardous Waste Management Facilities is amended by deleting it in its entirety and substituting instead the following:

(i) When your LLMW has met the requirements of your NRC or NRC Agreement State license for decay-in-storage and can be disposed of as non-radioactive waste, then the conditional exemption for storage no longer applies. On that date your waste is subject to hazardous waste regulation under the relevant requirements of Rules 0400-12-01-.01 through .10, and the time period for accumulation of a hazardous waste as specified in subparagraph (1)(g) or (h) of Rule 0400-12-01-.03 begins.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Appendix III - Tier II Emission Rate Screening Limits for Free Chlorine and Hydrogen Chloride of paragraph (30) of Rule 0400-12-01-.09 Standards for the Management of Specific Hazardous Wastes and Specific Types of Hazardous Waste Management Facilities is amended by deleting it in its entirety and substituting instead the following:

			Elitito for 1100			
	Noncomplex Terrain				Complex Terrain	
Terrain-	Values for Ur	ban Areas	Values for Ru	Iral Areas	Values for Use in Urban	
adjusted					and Rural Are	eas
Effective						
Stack						
Height (m)						
	Cl ₂ (g/hr)	HCI (g/hr)	Cl ₂ (g/hr)	HCI (g/hr)	Cl ₂ (g/hr)	HCI (g/hr)
4	8.2E + 01	1.4E + 03	4.2E + 01	7.3E + 02	1.9E + 01	3.3E + 02
6	9.1E + 01	1.6E + 03	4.8E + 01	8.3E + 02	2.8E + 01	4.9E + 02
8	1.0E + 02	1.8E + 03	5.3E + 01	9.2E + 02	4.1E + 01	7.1E + 02
10	1.2E + 02	2.0E + 03	6.2E + 01	1.1E + 03	5.8E + 01	1.0E + 03
12	1.3E + 02	2.3E + 03	7.7E + 01	1.3E + 03	7.2E + 01	1.3E + 03
14	1.5E + 02	2.6E + 03	9.1E + 01	1.6E + 03	9.1E + 01	1.6E + 03
16	1.7E + 02	2.9E + 03	1.2E + 02	2.0E + 03	1.1E + 02	1.8E + 03
18	1.9E + 02	3.3E + 03	1.4E + 02	2.5E + 03	1.2E + 02	2.0E + 03
20	2.1E + 02	3.7E + 03	1.8E + 02	3.1E + 03	1.3E + 02	2.3E + 03
22	2.4E + 02	4.2E + 03	2.3E + 02	3.9E + 03	1.4E + 02	2.4E + 03
24	2.7E + 02	4.8E + 03	2.9E + 02	5.0E + 03	1.6E + 02	2.8E + 03
26	3.1E + 02	5.4E + 03	3.7E + 02	6.5E + 03	1.7E + 02	3.0E + 03
28	3.5E + 02	6.0E + 03	4.7E + 02	8.1E + 03	1.9E + 02	3.4E + 03
30	3.9E + 02	6.9E + 03	5.8E + 02	1.0E + 04	2.1E + 02	3.7E + 03
35	5.3E + 02	9.2E + 03	9.6E + 02	1.7E + 04	2.6E + 02	4.6E + 03
40	6.2E + 02	1.1E + 04	1.4E + 03	2.5E + 04	3.3E + 02	5.7E + 03
45	8.2E + 02	1.4E + 04	2.0E + 03	3.5E + 04	4.0E + 02	7.0E + 03
50	1.1E + 03	1.8E + 04	2.6E + 03	4.6E + 04	4.8E + 02	8.4E + 03
55	1.3E + 03	2.3E + 04	3.5E + 03	6.1E + 04	6.2E + 02	1.1E + 04
60	1.6E + 03	2.9E + 04	4.6E + 03	8.1E + 04	7.7E + 02	1.3E + 04
65	2.0E + 03	3.4E + 04	6.2E + 03	1.1E + 05	9.1E + 02	1.6E + 04
70	2.3E + 03	3.9E + 04	7.2E + 03	1.3E + 05	1.1E + 03	1.8E + 04
75	2.5E + 03	4.5E + 04	8.6E + 03	1.5E + 05	1.2E + 03	2.0E + 04
80	2.9E + 03	5.0E + 04	1.0E + 04	1.8E + 05	1.3E + 03	2.3E + 04
85	3.3E + 03	5.8E + 04	1.2E + 04	2.2E + 05	1.4E + 03	2.5E + 04
90	3.7E + 03	6.6E + 04	1.4E + 04	2.5E + 05	1.6E + 03	2.9E + 04
95	4.2E + 03	7.4E + 04	1.7E + 04	3.0E + 05	1.8E + 03	3.2E + 04
100	4.8E + 03	8.4E + 04	2.1E + 04	3.6E + 05	2.0E + 03	3.5E + 04
105	5.3E + 03	9.2E + 04	2.4E + 04	4.3E + 05	2.3E + 03	3.9E + 04
110	6.2E + 03	1.1E + 05	2.9E + 04	5.1E + 05	2.5E + 03	4.5E + 04
115	7.2E + 03	1.3E + 05	3.5E + 04	6.1E + 05	2.8E + 03	5.0E + 04

Tier II Emission Rate Screening Limits for Free Chlorine and Hydrogen Chloride

120	8.2E + 03	1.4E + 05	4.1E + 04	7.2E + 05	3.2E + 03	5.6E + 04

Appendix V - Risk Specific Doses of paragraph (30) of Rule 0400-12-01-.09 Standards for the Management of Specific Hazardous Wastes and Specific Types of Hazardous Waste Management Facilities is amended by deleting it in its entirety and substituting instead the following:

Appendix V - Risk Specific Doses [40 CFR 266 APPENDIX V]

Construction Construction Construction Acrylamide 79-06-1 1.3E-03 7.7E-03 Acrylamirile 107-13-1 6.8E-05 1.5E-01 Aldrin 309-00-2 4.9E-03 2.0E-03 Antiline 62-53-3 7.4E-06 1.4E+00 Arsenic 7440-38-2 4.3E-03 2.3E-03 Benzela 9.1-42 8.3E-06 1.2E+00 Benzola/pyrene 50-52-8 8.3E-06 1.2E+00 Benzola/pyrene 50-32-8 3.3E-03 3.0E-03 Bers/lium 7440-41-7 2.4E-03 4.2E-03 Bis/(2-chrorethyl)ether 5142-88-1 6.2E-02 1.6E-04 Bis/(2-chrorethyl)ether 542-88-1 6.2E-02 1.6E-04 Bis/(2-chrorethyl)ether 111-44-4 3.3E-04 3.0E-02 Carbon Tetrachloride 56-23-5 1.5E-05 6.7E-01 Chrorothyl)ether 542-88-1 6.2E-02 1.6E-04 Bis/(2-chrorethylether) 67-74-9 3.7E-04 2.7E-01 Chrorotha	Constituent	Risk Specific Dos CAS No.	Unit Risk	RsD (µg/m³)
Acrylamide 79-06-1 1.3E-03 7.7E-03 Acrylonitrile 107-13-1 6.8E-05 1.5E-01 Adrin 309-00-2 4.9E-03 2.0E-03 Aniline 62-53-3 7.4E-06 1.4E+00 Arsenic 7440-38-2 4.3E-03 2.3E-03 Benz(a)anthracene 56-55-3 8.9E-04 1.1E-02 Benzidine 92-87-5 6.7E-02 1.5E-04 Benzidine 92-87-5 6.7E-02 1.5E-04 Benzidine 7440-41-7 2.4E-03 4.2E-03 Bis(2-chloroethyl)ether 111-44-4 3.3E-04 3.0E-02 Bis(2-chloroethyl)ether 117-81-7 2.4E-07 4.2E+01 1.3-Butadiene 106-99-0 2.8E-04 3.6E-03 Carbon Tetrachloride 56-23-5 1.5E-05 6.7E-01 Chloroform 67-6-3 2.3E-04 2.7E-02 Chloroform 67-6-3 2.3E-04 2.6E-04 DDT 7440-47-3 1.2E-02 8.3E-01 1.2-Dibromoethane <td< th=""><th></th><th></th><th></th><th></th></td<>				
Acrylonitrile 107-13-1 6.8E-05 1.5E-01 Aldrin 309-00-2 4.9E-03 2.0E-03 Anline 62-53-3 7.4E-06 1.4E+00 Arsenic 7440-38-2 4.3E-03 2.3E-03 Benz(a) anthracene 56-55-5 8.9E-04 1.1E-02 Benzene 71-43-2 8.3E-06 1.2E+00 Benz(a) pyrene 50-32-8 3.3E-03 3.0E-03 Bers/lium 7440-41-7 2.4E-03 4.2E-03 Bis(2-chloroethyl)ether 542-88-1 6.2E-02 1.6E-04 Bis(2-chloroethyl)ether 542-88-1 6.2E-07 4.2E+01 1.3-Butadiene 106-99-0 2.8E-04 3.6E-03 Carbon Tetrachloride 56-25-5 1.5E-05 6.7E-01 Chlordane 57-74-9 3.7E-04 2.7E-02 Carbon Tetrachloride 56-23-5 1.5E-03 6.7E-01 Chlordane 74-49-3 3.2E-04 3.2E-04 DDT 50-29-3 9.7E-05 1.0E-01 Dibenz(a,h)anthracene<	Acrylamide	79-06-1		7.7E-03
Aldrin 309-00-2 4.9E-03 2.0E-03 Aniline 62-53-3 7.4E-06 1.4E+00 Arsenic 7440-38-2 4.3E-03 2.3E-03 Benzaldianthracene 56-55-3 8.9E-04 1.1E-02 Benzidine 92-87-5 6.7E-02 1.5E-04 Benzologipyrene 50-32-8 3.3E-03 3.0E-03 Beryllium 7440-41-7 2.4E-03 4.2E-03 Bis(2-chloroethyl)ether 111-44-4 3.3E-04 3.0E-02 Bis(2-chloroethyl)ether 542-88-1 6.2E-02 1.6E-04 Bis(2-chloroethyl)ether 106-99-0 2.8E-04 3.6E-02 Cadmium 7440-43-9 1.8E-03 5.6E-03 Carbon Tetrachloride 56-23-5 1.5E-05 6.7E-01 Chloroform 67-66-3 2.3E-04 3.2E-04 DDT 50-29-3 9.7E-05 1.0E-01 Dibenz(a,h)anthracene 76-34-3 2.2E-04 4.5E-02 1,2-Dibromoshane 106-93-4 2.2E-04 4.5E-02 1,1				
Aniline 62-53-3 7.4E-06 1.4E+00 Arsenic 7440-38-2 4.3E-03 2.3E+03 Benz(a)anthracene 56-55-3 8.9E-04 1.1E-02 Benzene 71-43-2 8.3E-06 1.2E+00 Benzo(a)pyrene 50-32-8 3.3E-03 3.0E-03 Berz(la)prene 50-32-8 3.3E-03 3.0E-03 Berz(la)prene 542-88-1 6.2E-02 1.6E-04 Bis(2-chtorethyl)ether 542-88-1 6.2E-02 1.6E-04 Bis(2-chtorethyl)ether 542-88-1 6.2E-02 1.6E-04 Bis(2-chtorethyl)ether 542-88-1 6.2E-02 1.6E-03 Cadmium 7440-43-9 1.8E-03 5.6E-03 Carbon Tetrachloride 56-23-5 1.5E-05 6.7E-01 Chlordane 77-49 3.7E-04 2.7E-02 Chloroform 67-66-3 2.3E-05 1.0E-01 Dibenz(a,h)anthracene 53-70-3 1.4E-02 7.1E-04 1,2-Dibromo-3- 96-12-8 6.3E-03 1.6E-03				
Arsenic 7440-38-2 4.3E-03 2.3E-03 Benz(a)anthracene 56-55-3 8.9E-04 1.1E-02 Benzene 71-43-2 8.3E-06 1.2E+00 Benzidine 92-87-5 6.7E-02 1.5E-04 Benzo(a)pyrene 50-32-8 3.3E-03 3.0E-03 Beryllium 7440-41-7 2.4E-03 4.2E-03 Bis(2-chioroethy)lether 111-44-4 3.3E-04 3.0E-02 Bis(2-chioroethy)lether 117-81-7 2.4E-07 4.2E+01 1,3-Butadiene 106-99-0 2.8E-04 3.6E-02 Cadmium 7440-43-9 1.8E-03 6.7E-01 Choroane 57-74-9 3.7E-04 2.7E-02 Chioromethane 74-87-3 3.6E-06 2.8E-04 Choromethane 74-87-3 3.6E-06 2.8E-04 DDT 740-47-3 1.2E-02 8.3E-01 L/2-Dibromo-3- 96-12-8 6.3E-03 1.6E-03 Chromum VI 74-04-47-3 1.2E-02 8.8E-01 1,2-Dibromo-3- 96-12-8 6.3E-03 3.8E-01 1,2-Dibromoethane <t< td=""><td></td><td></td><td></td><td></td></t<>				
Benz(a)anthracene 56-55-3 8.9E-04 1.1E-02 Benzane 71-43-2 8.3E-06 1.2E+00 Benzidine 92-87-5 6.7E-02 1.5E-04 Benzidine 50-32-8 3.3E-03 3.0E-03 Beryllium 7440-41-7 2.4E-03 4.2E-03 Bis(2-chloroethyl)ether 111-44-4 3.3E-04 3.0E-02 Bis(2-chloroethyl)ether 117-81-7 2.4E-07 4.2E+01 1.3-Butadiene 106-99-0 2.8E-04 3.6E-02 Cadmium 7440-43-9 1.8E-03 5.6E-03 Carbon Tetrachloride 56-774-9 3.7E-04 2.7E-02 Chlorodane 57-74-9 3.7E-04 2.7E-02 Chloroform 67-66-3 2.3E-05 4.3E-01 Chloromethane 7440-47-3 3.2E-06 3.8E-01 DDT 50-29-3 9.7E-05 1.0E-01 Dibenz(a,h)anthracene 50-29-3 9.7E-05 3.8E-01 1,2-Dibromo-3- 96-12-8 6.3E-03 1.6E-03 Abloropropane				
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Benzidine 92-87-5 6.7E-02 1.5E-04 Benzol(a)pyrene 50-32-8 3.3E-03 3.0E-03 Beryllium 7440-41-7 2.4E-03 4.2E-03 Bis(2-chloroethyl)bether 111-44-4 3.3E-04 3.0E-02 Bis(2-chloroethyl)bether 117-81-7 2.4E-07 4.2E+01 J.3-Butadiene 106-99-0 2.8E-04 3.6E-02 Cadmium 7440-43-9 1.8E-03 5.6E-03 Carbon Tetrachloride 56-23-5 1.5E-05 6.7E-01 Chloroform 67-66-3 2.3E-04 2.8E-04 Chloromethane 74-87-3 3.6E-06 2.8E+00 Chloromethane 74-87-3 3.6E-06 2.8E+00 Chloromethane 74-87-3 3.6E-06 2.8E+00 Chloromethane 74-40-47-3 1.2E-02 8.3E-04 DDT 50-29-3 9.7E-05 1.0E-03 Chloropropane				
Benzo(a)pyrene 50-32-8 3.3E-03 3.0E-03 Beryllium 7440-41-7 2.4E-03 4.2E-03 Bis(2-chloroethyl)ether 111-44-4 3.3E-04 3.0E-02 Bis(2-chloroethyl)ether 542-88-1 6.2E-02 1.6E-04 Bis(2-chloroethyl)ether 542-88-1 6.2E-02 1.6E-04 Ja-Butadiene 106-99-0 2.8E-04 3.6E-02 Cadmium 7440-43-9 1.8E-03 5.6E-03 Carbon Tetrachloride 56-23-5 1.5E-05 6.7E-01 Chlorofarm 67-66-3 2.3E-04 2.7E-02 Chloroform 67-66-3 2.3E-05 4.3E-01 Chromium VI 7440-47-3 1.2E-02 8.3E-04 DDT 50-29-3 9.7E-05 1.0E-01 Dibenz(a,h)anthracene 53-70-3 1.4E-02 7.1E-04 1,2-Dibromo-3- 96-12-8 6.3E-03 1.6E-03 chloropropane 11-Dichloroethane 107-06-2 2.6E-05 3.8E-01 1,2-Dibromoethane 107-06-2 2.6E-05 <t< td=""><td></td><td></td><td></td><td></td></t<>				
Beryllium 7440-41-7 2.4E-03 4.2E-03 Bis(2-chloroethyl)ether 111-44-4 3.3E-04 3.0E-02 Bis(2-chloroethyl)ether 542-88-1 6.2E-02 1.6E-04 Bis(2-ethylhexyl)-phthalate 117-81-7 2.4E-07 4.2E+01 1,3-Butadiene 106-99-0 2.8E-04 3.6E-02 Cadmium 7440-43-9 1.8E-03 5.6E-03 Carbon Tetrachloride 56-23-5 1.5E-05 6.7E-01 Chloroform 67-66-3 2.3E-05 4.3E-01 Chloromethane 74-87-3 3.6E-06 2.8E+00 Chromium VI 7440-47-3 1.2E-02 8.3E-04 DDT 50-29-3 9.7E-05 1.0E-01 Dibenz(a,h)anthracene 53-70-3 1.4E-02 7.1E-04 1,2-Dibromo-3- 96-12-8 6.3E-03 1.6E-03 1,2-Dibromoethane 106-93-4 2.2E-04 4.5E-02 1,2-Dibromoethane 107-06-2 2.6E-05 3.8E-01 1,1-Dichloroethylene 75-35-4 5.0E-05 2.0E-01				
Bis(2-chloroethyl)ether 111-44-4 3.3E-04 3.0E-02 Bis(chloromethyl)ether 542-88-1 6.2E-02 1.6E-04 Bis(2-ethylhexyl)-phthalate 117-81-7 2.4E-07 4.2E+01 1,3-Butadiene 106-99-0 2.8E-04 3.6E-02 Cadmium 7440-43-9 1.8E-03 5.6E-03 Carbon Tetrachloride 56-23-5 1.5E-05 6.7E-01 Chlorofane 57-74-9 3.7E-04 2.7E-02 Chloroform 67-66-3 2.3E-05 4.3E-01 Chloronethane 7440-47-3 1.2E-02 8.3E-04 DDT 50-29-3 9.7E-05 1.0E-01 Dibenz(a,h)anthracene 53-70-3 1.4E-02 7.1E-04 1,2-Dibromo-3- 96-12-8 6.3E-03 1.6E-03 chloropropane 1.2-Dibromoethane 106-93-4 2.2E-04 4.5E-02 1,1-Dichloroethane 75-34-3 2.6E-05 3.8E-01 1.2-Dibromoethane 107-06-2 2.6E-05 3.8E-01 1,2-Dichloroethane 107-06-2 2.6E-05 <td< td=""><td></td><td></td><td></td><td></td></td<>				
Bis(chloromethyl)ether 542-88-1 6.2E-02 1.6E-04 Bis(2-ethylhexyl)-phthalate 117-81-7 2.4E-07 4.2E+01 1.3-Butadiene 106-99-0 2.8E-04 3.6E-02 Cadmium 7440-43-9 1.8E-03 5.6E-03 Carbon Tetrachloride 56-74-9 3.7E-04 2.7E-02 Chlorofare 57-74-9 3.7E-04 2.7E-02 Chloromethane 74-87-3 3.6E-06 2.8E+00 Chromium VI 7440-47-3 1.2E-02 8.3E-04 DDT 50-29-3 9.7E-05 1.0E-01 Dibenz(a,h)anthracene 53-70-3 1.4E-02 7.1E-04 1,2-Dibromo-3- 96-12-8 63-60 3.8E-01 1,2-Dibloromethane 106-93-4 2.2E-04 4.5E-02 1,1-Dichloroethane 107-06-2 2.6E-05 3.8E-01 1,2-Dibloromethylene 75-35-4 5.0E-05 2.0E-03 1,3-Dichloropropene 542-75-6 3.5E-01 2.9E-05 Diedrin 60-57-1 4.6E-03 2.2E-03				
Bis(2-ethylhexyl)-phthalate 117-81-7 2.4E-07 4.2E+01 1,3-Butadiene 106-99-0 2.8E-04 3.6E-02 Cadmium 7440-43-9 1.8E-03 5.6E-03 Carbon Tetrachloride 56-23-5 1.5E-05 6.7E-01 Chlorofare 67-66-3 2.3E-05 4.3E-01 Chloromethane 74-87-3 3.6E-06 2.8E+00 Chromium VI 7440-47-3 1.2E-02 8.3E-04 DDT 50-29-3 9.7E-05 1.0E-01 Dibenz(a,h)anthracene 53-70-3 1.4E-02 7.1E-04 1,2-Dibromo-3- 96-12-8 6.3E-03 1.6E-03 chloropropane - - 2.2E-04 4.5E-02 1,1-Dichloroethane 75-34-3 2.6E-05 3.8E-01 1,2-Diblomoporpene 542-75-6 3.5E-01 2.9E-05 Diedrin 60-57-1 4.6E-03 2.2E-03 Diethylstilbestrol 56-53-1 1.4E-01 7.1E-05 Dimethylnitrosamine 62-75-9 1.4E-02 7.1E-04				
1,3-Butadiene 106-99-0 2.8E-04 3.6E-02 Cadmium 7440-43-9 1.8E-03 5.6E-03 Carbon Tetrachloride 56-23-5 1.5E-05 6.7E-01 Chlordane 57-74-9 3.7E-04 2.7E-02 Chloroform 67-66-3 2.3E-05 4.3E-01 Chloromethane 74-87-3 3.6E-06 2.8E+00 Chromium VI 7440-47-3 1.2E-02 8.3E-04 DDT 50-29-3 9.7E-05 1.0E-01 Dibenz(a,h)anthracene 53-70-3 1.4E-02 7.1E-04 1,2-Dibromo-3- 96-12-8 6.3E-03 1.6E-03 chloropropane 1,2-Dibromoethane 107-06-2 2.6E-05 3.8E-01 1,2-Dibloroethane 107-06-2 2.6E-05 3.8E-01 1.2E-03 Dieldrin 60-57-1 4.6E-03 2.2E-03 DE 1,3-Dichloroethylene 75-35-4 5.0E-05 2.9E-05 Dieldrin 1,2-Diblomoethane 107-06-2 2.6E-03 3.2E-03 DE Dieldrin 60-57-1 4.6E-03 2.2E-03 DE DE <t< td=""><td></td><td></td><td></td><td></td></t<>				
Cadmium 7440-43-9 1.8E-03 5.6E-03 Carbon Tetrachloride 56-23-5 1.5E-05 6.7E-01 Chlordane 57-74-9 3.7E-04 2.7E-02 Chloroform 67-66-3 2.3E-05 4.3E-01 Chloromethane 74-87-3 3.6E-06 2.8E+00 Choromium VI 7440-47-3 1.2E-02 8.3E-04 DDT 50-29-3 9.7E-05 1.0E-01 Dibenz(a,h)anthracene 53-70-3 1.4E-02 7.1E-04 1,2-Dibromo-3- 96-12-8 6.3E-03 1.6E-03 chloropropane - - - 1,2-Dibromoethane 106-93-4 2.2E-04 4.5E-02 1,1-Dichloroethane 75-34-3 2.6E-05 3.8E-01 1,2-Dibromoethane 107-06-2 2.6E-05 2.0E-01 1,3-Dichloroptopene 542-75-6 3.5E-01 2.9E-05 Jieldrin 60-57-1 4.6E-03 2.2E-03 Diethylstilbestrol 56-53-1 1.4E-02 7.1E-04 1,3-Dichloropropene <td></td> <td></td> <td></td> <td></td>				
Carbon Tetrachloride 56-23-5 1.5E-05 6.7E-01 Chlorofane 57-74-9 3.7E-04 2.7E-02 Chloroform 67-66-3 2.3E-05 4.3E-01 Chloromethane 74-87-3 3.6E-06 2.8E+00 Chromium VI 7440-47-3 1.2E-02 8.3E-04 DDT 50-29-3 9.7E-05 1.0E-01 Dibenz(a,h)anthracene 53-70-3 1.4E-02 7.1E-04 1,2-Dibromo-3- 96-12-8 6.3E-03 1.6E-03 chloropropane 1.2-Dibromoethane 106-93-4 2.2E-04 4.5E-02 1,1-Dichloroethane 107-06-2 2.6E-05 3.8E-01 1,2-Dibromoethane 107-06-2 2.6E-05 3.8E-01 1,2-Dichloroethylene 75-35-4 5.0E-05 2.0E-01 1,3-Dichloroptopene 542-75-6 3.5E-01 2.9E-05 Diedtylistilbestrol 56-53-1 1.4E-01 7.1E-04 2,4-Dinitrotoluene 121-14-2 8.8E-05 1.1E-01 1,2-Diphenylhydrazine 122-66-7 2.2E-04 <td></td> <td></td> <td></td> <td></td>				
Chlordane 57-74-9 3.7E-04 2.7E-02 Chloroform 67-66-3 2.3E-05 4.3E-01 Chloromethane 74-87-3 3.6E-06 2.8E+00 Chromium VI 7440-47-3 1.2E-02 8.3E-04 DDT 50-29-3 9.7E-05 1.0E-01 Dibenz(a,h)anthracene 53-70-3 1.4E-02 7.1E-04 1,2-Dibromo-3- 96-12-8 6.3E-03 1.6E-03 chloropropane - - - 1,2-Dibloroethane 106-93-4 2.2E-04 4.5E-02 1,1-Dichloroethane 107-06-2 2.6E-05 3.8E-01 1,2-Dichloroethane 107-06-2 2.6E-05 3.8E-01 1,1-Dichloroethylene 75-35-4 5.0E-05 2.0E-01 1,3-Dichloropropene 542-75-6 3.5E-01 2.9E-05 Diethylstilbestrol 56-53-1 1.4E-02 7.1E-04 1,2-Diphenylhydrazine 122-66-7 2.2E-04 4.5E-02 1,4-Di0xane 123-91-1 1.4E-06 7.1E-04 1,4-D				
Chloroform 67-66-3 2.3E-05 4.3E-01 Chloromethane 74-87-3 3.6E-06 2.8E+00 Chromium VI 7440-47-3 1.2E-02 8.3E-04 DDT 50-29-3 9.7E-05 1.0E-01 Dibenz(a,h)anthracene 53-70-3 1.4E-02 7.1E-04 1,2-Dibromo-3- 96-12-8 6.3E-03 1.6E-03 chloropropane 7.2-Dibromoethane 106-93-4 2.2E-04 4.5E-02 1,2-Dibromoethane 107-06-2 2.6E-05 3.8E-01 1,2-Dichloroethane 107-06-2 2.6E-05 3.8E-01 1,3-Dichloroptopene 54-75-6 3.5E-01 2.9E-05 Dieldrin 60-57-1 4.6E-03 2.2E-03 Diehtylstibestrol 56-53-1 1.4E-02 7.1E-04 2,4-Dinitrotoluene 121-14-2 8.8E-05 1.1E-01 2,2-Diolorothydrin 106-89-8 1.2E-06 8.3E+00 1,2-Diphenylhydrazine 122-66-7 2.2E-04 4.5E-02 1,4-Dioxane 123-91-1 1.4E-06 <td< td=""><td></td><td></td><td></td><td></td></td<>				
Chloromethane 74-87-3 3.6E-06 2.8E+00 Chromium VI 7440-47-3 1.2E-02 8.3E-04 DDT 50-29-3 9.7E-05 1.0E-01 Dibenz(a,h)anthracene 53-70-3 1.4E-02 7.1E-04 1,2-Dibromo-3- 96-12-8 6.3E-03 1.6E-03 chloropropane 1 1.2-Dibromoethane 106-93-4 2.2E-04 4.5E-02 1,1-Dichloroethane 107-06-2 2.6E-05 3.8E-01 1.2-Dichloroethane 107-06-2 2.0E-05 2.0E-01 1,3-Dichloroethylene 75-35-4 5.0E-05 2.0E-01 1.3-Dichloropropene 542-75-6 3.5E-01 2.9E-05 Dieddrin 60-57-1 4.6E-03 2.2E-03 2.2E-03 Diethylstilbestrol 56-53-1 1.4E-02 7.1E-04 2,4-Dinitrotoluene 121-14-2 8.8E-05 1.1E-01 1,2-Diphenylhydrazine 122-66-7 2.2E-04 4.5E-02 1,4-Dioxane 123-91-1 1.4E-06 7.1E-04 2,4-Dinitrotoluene 123-91-1 1.4E-				
Chromium VI 7440-47-3 1.2E-02 8.3E-04 DDT 50-29-3 9.7E-05 1.0E-01 Dibenz(a,h)anthracene 53-70-3 1.4E-02 7.1E-04 1,2-Dibromo-3- 96-12-8 6.3E-03 1.6E-03 chloropropane				
DDT 50-29-3 9.7E-05 1.0E-01 Dibenz(a,h)anthracene 53-70-3 1.4E-02 7.1E-04 1,2-Dibromo-3- 96-12-8 6.3E-03 1.6E-03 chloropropane 1 2.2E-04 4.5E-02 1,1-Dichloroethane 106-93-4 2.2E-04 4.5E-02 1,2-Dibromoethane 107-06-2 2.6E-05 3.8E-01 1,2-Dichloroethane 107-06-2 2.6E-05 3.8E-01 1,3-Dichloropropene 542-75-6 3.5E-01 2.9E-05 Diedtrin 60-57-1 4.6E-03 2.2E-03 Diethylstilbestrol 56-53-1 1.4E-01 7.1E-05 Dimethylnitrosamine 62-75-9 1.4E-02 7.1E-04 2,4-Dinitrotoluene 121-14-2 8.8E-05 1.1E-01 1,2-Diphenylhydrazine 122-66-7 2.2E-04 4.5E-02 1,4-Dioxane 123-91-1 1.4E-06 7.1E+00 Epichlorohydrin 106-89-8 1.2E-06 8.3E+00 Ethylene Oxide 75-21-8 1.0E-01 1.0E-01 Ethylene Oxide 75-21-8 1.0E-03 3.7E-03				
Dibenz(a,h)anthracene 53-70-3 1.4E-02 7.1E-04 1,2-Dibromo-3- chloropropane 96-12-8 6.3E-03 1.6E-03 1,2-Dibromoethane 106-93-4 2.2E-04 4.5E-02 1,1-Dichloroethane 75-34-3 2.6E-05 3.8E-01 1,2-Dibromoethane 107-06-2 2.6E-05 3.8E-01 1,2-Dichloroethane 107-06-2 2.6E-05 3.8E-01 1,1-Dichloroethylene 75-35-4 5.0E-05 2.0E-01 1,3-Dichloropropene 542-75-6 3.5E-01 2.9E-05 Dieldrin 60-57-1 4.6E-03 2.2E-03 Diethylstilbestrol 56-53-1 1.4E-01 7.1E-04 2,4-Dinitrotoluene 121-14-2 8.8E-05 1.1E-01 1,2-Diphenylhydrazine 122-66-7 2.2E-04 4.5E-02 1,4-Dioxane 123-91-1 1.4E-06 7.1E+04 2,4-Dinitrotoluene 122-66-7 2.2E-04 4.5E-02 1,4-Dioxane 122-66-7 2.2E-04 4.5E-02 1,4-Dioxane 106-89-8 1.0E-01				
1,2-Dibromo-3- chloropropane 96-12-8 6.3E-03 1.6E-03 1,2-Dibromoethane 106-93-4 2.2E-04 4.5E-02 1,1-Dichloroethane 75-34-3 2.6E-05 3.8E-01 1,2-Dichloroethane 107-06-2 2.6E-05 3.8E-01 1,1-Dichloroethylene 75-35-4 5.0E-05 2.0E-01 1,3-Dichloroptopene 542-75-6 3.5E-01 2.9E-05 Dieldrin 60-57-1 4.6E-03 2.2E-03 Diethylstilbestrol 56-53-1 1.4E-01 7.1E-05 Dimethylnitrosamine 62-75-9 1.4E-02 7.1E-04 2,4-Dinitrotoluene 121-14-2 8.8E-05 1.1E-01 1,2-Diphenylhydrazine 122-66-7 2.2E-04 4.5E-02 1,4-Dioxane 123-91-1 1.4E-06 7.1E+00 Ethylene Oxide 75-21-8 1.0E-04 1.0E-01 Ethylene Oxide 75-21-8 1.2E-06 8.3E+00 Ethylene Dibromide 106-93-4 2.2E-04 4.5E-02 Formaldehyde 50-00-0 1.3E-05 7.7E-01 Heptachlor 76-44-8 1.3E-03 <td< td=""><td></td><td></td><td></td><td></td></td<>				
chloropropane 1,2-Dibromoethane 106-93-4 2.2E-04 4.5E-02 1,1-Dichloroethane 75-34-3 2.6E-05 3.8E-01 1,2-Dichloroethane 107-06-2 2.6E-05 3.8E-01 1,1-Dichloroethylene 75-35-4 5.0E-05 2.0E-01 1,1-Dichloroethylene 75-35-4 5.0E-05 2.0E-01 1,3-Dichloroptopene 542-75-6 3.5E-01 2.9E-05 Dieldrin 60-57-1 4.6E-03 2.2E-03 Diethylstilbestrol 56-53-1 1.4E-01 7.1E-05 Dimethylnitrosamine 62-75-9 1.4E-02 7.1E-04 2,4-Dinitrotoluene 121-14-2 8.8E-05 1.1E-01 1,2-Diphenylhydrazine 122-66-7 2.2E-04 4.5E-02 1,4-Dioxane 123-91-1 1.4E-06 7.1E+00 Ethylene Oxide 75-21-8 1.0E-04 1.0E-01 Ethylene Dibromide 106-83-4 2.2E-04 4.5E-02 Formaldehyde 50-00-0 1.3E-05 7.7E-01 Heptachlor 76-44-8 1				
1,2-Dibromoethane 106-93-4 2.2E-04 4.5E-02 1,1-Dichloroethane 75-34-3 2.6E-05 3.8E-01 1,2-Dichloroethane 107-06-2 2.6E-05 3.8E-01 1,1-Dichloroethylene 75-35-4 5.0E-05 2.0E-01 1,3-Dichloroptypene 542-75-6 3.5E-01 2.9E-05 Dieldrin 60-57-1 4.6E-03 2.2E-03 Diethylstilbestrol 56-53-1 1.4E-01 7.1E-05 Dimethylnitrosamine 62-75-9 1.4E-02 7.1E-04 2,4-Dinitrotoluene 121-14-2 8.8E-05 1.1E-01 1,2-Diphenylhydrazine 122-66-7 2.2E-04 4.5E-02 1,4-Dioxane 123-91-1 1.4E-06 7.1E+00 Epichlorohydrin 106-89-8 1.2E-06 8.3E+00 Ethylene Oxide 75-21-8 1.0E-04 1.0E-01 Ethylene Dibromide 106-83-4 2.2E-04 4.5E-02 Formaldehyde 50-00-0 1.3E-05 7.7E-01 Heptachlor 76-44-8 1.3E-03 7.7E-03 Heptachlor Epoxide 1024-57-3 2.6E-03 3.8E-		90-12-8	0.32-03	1.0E-03
1,1-Dichloroethane 75-34-3 2.6E-05 3.8E-01 1,2-Dichloroethane 107-06-2 2.6E-05 3.8E-01 1,1-Dichloroethylene 75-35-4 5.0E-05 2.0E-01 1,3-Dichloropropene 542-75-6 3.5E-01 2.9E-05 Dieldrin 60-57-1 4.6E-03 2.2E-03 Diethylstilbestrol 56-53-1 1.4E-01 7.1E-05 Dimethylnitrosamine 62-75-9 1.4E-02 7.1E-04 2,4-Dinitrotoluene 121-14-2 8.8E-05 1.1E-01 1,2-Diphenylhydrazine 122-66-7 2.2E-04 4.5E-02 1,4-Dioxane 123-91-1 1.4E-06 7.1E+00 Epichlorohydrin 106-89-8 1.2E-06 8.3E+00 Ethylene Oxide 75-21-8 1.0E-04 1.0E-01 Ethylene Dibromide 106-93-4 2.2E-04 4.5E-02 Formaldehyde 50-00-0 1.3E-05 7.7E-01 Heptachlor 76-44-8 1.3E-03 7.7E-03 Heptachlor Epoxide 1024-57-3 2.6E-03 3.8E-03 Hexachlorobenzene 118-74-1 4.9E-02 5.0E-		106-03-1	2 2E-04	4.5E-02
1,2-Dichloroethane 107-06-2 2.6E-05 3.8E-01 1,1-Dichloroethylene 75-35-4 5.0E-05 2.0E-01 1,3-Dichloropropene 542-75-6 3.5E-01 2.9E-05 Dieldrin 60-57-1 4.6E-03 2.2E-03 Diethylstilbestrol 56-53-1 1.4E-01 7.1E-05 Dimethylnitrosamine 62-75-9 1.4E-02 7.1E-04 2,4-Dinitrotoluene 121-14-2 8.8E-05 1.1E-01 1,2-Diphenylhydrazine 122-66-7 2.2E-04 4.5E-02 1,4-Dioxane 123-91-1 1.4E-06 7.1E+00 Epichlorohydrin 106-89-8 1.2E-06 8.3E+00 Ethylene Oxide 75-21-8 1.0E-04 1.0E-01 Ethylene Dibromide 106-93-4 2.2E-04 4.5E-02 Formaldehyde 50-00-0 1.3E-05 7.7E-01 Heptachlor 76-44-8 1.3E-03 7.7E-03 Heptachlor Epoxide 1024-57-3 2.6E-03 3.8E-03 Heptachlorobenzene 118-74-1 4.9E-04 2.0E-02 Hexachlorobenzene 119-84-6 1.8E-03 5.6E				
1,1-Dichloroethylene75-35-45.0E-052.0E-011,3-Dichloropropene542-75-63.5E-012.9E-05Dieldrin60-57-14.6E-032.2E-03Diethylstilbestrol56-53-11.4E-017.1E-05Dimethylnitrosamine62-75-91.4E-027.1E-042,4-Dinitrotoluene121-14-28.8E-051.1E-011,2-Diphenylhydrazine122-66-72.2E-044.5E-021,4-Dioxane123-91-11.4E-067.1E+00Epichlorohydrin106-89-81.2E-068.3E+00Ethylene Oxide75-21-81.0E-041.0E-01Ethylene Dibromide106-93-42.2E-044.5E-02Formaldehyde50-00-01.3E-057.7E-01Heptachlor76-44-81.3E-037.7E-03Heptachlor Epoxide1024-57-32.6E-033.8E-03Hexachlorobenzene118-74-14.9E-042.0E-02Hexachlorocyclo-319-84-61.8E-035.0E-01Alpha-hexachlorocyclo-319-85-75.3E-041.9E-02				
1,3-Dichloropropene542-75-63.5E-012.9E-05Dieldrin60-57-14.6E-032.2E-03Diethylstilbestrol56-53-11.4E-017.1E-05Dimethylnitrosamine62-75-91.4E-027.1E-042,4-Dinitrotoluene121-14-28.8E-051.1E-011,2-Diphenylhydrazine122-66-72.2E-044.5E-021,4-Dioxane123-91-11.4E-067.1E+00Epichlorohydrin106-89-81.2E-068.3E+00Ethylene Oxide75-21-81.0E-041.0E-01Ethylene Dibromide106-93-42.2E-044.5E-02Formaldehyde50-00-01.3E-057.7E-01Heptachlor76-44-81.3E-037.7E-03Heptachlor Epoxide1024-57-32.6E-033.8E-03Hexachlorobenzene118-74-14.9E-042.0E-02Hexachlorobutadiene87-68-32.0E-055.0E-01Alpha-hexachlorocyclo-319-84-61.8E-035.6E-03hexane319-85-75.3E-041.9E-02				
Dieldrin60-57-14.6E-032.2E-03Diethylstilbestrol56-53-11.4E-017.1E-05Dimethylnitrosamine62-75-91.4E-027.1E-042,4-Dinitrotoluene121-14-28.8E-051.1E-011,2-Diphenylhydrazine122-66-72.2E-044.5E-021,4-Dioxane123-91-11.4E-067.1E+00Epichlorohydrin106-89-81.2E-068.3E+00Ethylene Oxide75-21-81.0E-041.0E-01Ethylene Dibromide106-93-42.2E-044.5E-02Formaldehyde50-00-01.3E-057.7E-01Heptachlor76-44-81.3E-037.7E-03Heptachlor Epoxide1024-57-32.6E-033.8E-03Hexachlorobenzene118-74-14.9E-042.0E-02Hexachlorobutadiene87-68-32.0E-055.0E-01Alpha-hexachlorocyclo- hexane319-85-75.3E-041.9E-02				
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		313-92-1	5.3⊑-04	1.9E-02
Gamma-nexachiorocyclo- 58-89-9 3.8E-04 2.6E-02		58 80 0		2 65 02
	Gamma-nexachiorocyclo-	20-02-2	3.0⊏-04	2.0E-UZ

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3-Methylcholanthrene 56-49-5 2.7E-03 3.7E-03
Methyl Hydrazine 60-34-4 3.1E-04 3.2E-02
Methylene Chloride 75-09-2 4.1E-06 2.4E+00
4,4'-Methylene-bis-2- 101-14-4 4.7E-05 2.1E-01
chloroaniline
Nickel 7440-02-0 2.4E-04 4.2E-02
Nickel Refinery Dust 7440-02-0 2.4E-04 4.2E-02
Nickel Subsulfide 12035-72-2 4.8E-04 2.1E-02
2-Nitropropane 79-46-9 2.7E-02 3.7E-04
N-Nitroso-n-butylamine 924-16-3 1.6E-03 6.3E-03
N-Nitroso-n-methylurea 684-93-5 8.6E-02 1.2E-04
N-Nitrosodiethylamine 55-18-5 4.3E-02 2.3E-04
N-Nitrosopyrrolidine 930-55-2 6.1E-04 1.6E-02
Pentachloronitrobenzene 82-68-8 7.3E-05 1.4E-01
PCBs 1336-36-3 1.2E-03 8.3E-03
Pronamide 23950-58-5 4.6E-06 2.2E+00
Reserpine 50-55-5 3.0E-03 3.3E-03
2,3,7,8-Tetrachloro- 1746-01-6 4.5E+01 2.2E-07
dibenzo-p-dioxin
1,1,2,2-Tetrachloroethane 79-34-5 5.8E-05 1.7E-01
Tetrachloroethylene 127-18-4 4.8E-07 2.1E+01
Thiourea 62-56-6 5.5E-04 1.8E-02
1,1,2-Trichloroethane 79-00-5 1.6E-05 6.3E-01
Trichloroethylene 79-01-6 1.3E-06 7.7E+00
2,4,6-Trichlorophenol 88-06-2 5.7E-06 1.8E+00
Toxaphene 8001-35-2 3.2E-04 3.1E-02
Vinyl Chloride 75-01-4 7.1E-06 1.4E+00

Subparts (i) and (ii) of part 5 of subparagraph (a) of paragraph (1) of Rule 0400-12-01-.10 Land Disposal Restrictions is amended by deleting it in its entirety and substituting instead the following:

- (i) Waste generated by very small quantity generators, as defined in subparagraph
 (2)(a) of Rule 0400-12-01-.01;
- (ii) Waste pesticides that a farmer disposes of pursuant to subpart (1)(a)2(vi) of Rule 0400-12-01-.03;

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Part 3 of subparagraph (b) of paragraph (1) of Rule 0400-12-01-.10 Land Disposal Restrictions is amended by deleting it in its entirety and substituting instead the following:

3. "Hazardous constituent or constituents" means those constituents listed in Appendix VIII in paragraph (30) of Rule 0400-12-01-.02.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Subpart (v) of part 1 of subparagraph (g) of paragraph (1) of Rule 0400-12-01-.10 Land Disposal Restrictions is amended by deleting it in its entirety and substituting instead the following:

- (v) If a generator is managing and treating prohibited waste or contaminated soil in tanks, containers, or containment buildings regulated under subparagraphs (1)(f), (g), and (h) of Rule 0400-12-01-.03 to meet applicable LDR treatment standards found at subparagraph (3)(a) of this rule, the generator must develop and follow a written waste analysis plan which describes the procedures they will carry out to comply with the treatment standards. (Generators treating hazardous debris under the alternative treatment standards of Table 1, subparagraph (3)(f) of this rule, however, are not subject to these waste analysis requirements.) The plan must be kept on site in the generator's records, and the following requirements must be met:
 - (I) The waste analysis plan must be based on a detailed chemical and physical analysis of a representative sample of the prohibited waste(s) being treated, and contain all information necessary to treat the waste(s) in accordance with the requirements of this rule, including the selected testing frequency.
 - (II) Such plan must be kept in the facility's on-site files and made available to inspectors.
 - (III) Wastes shipped off-site pursuant to this subpart must comply with the notification requirements of subpart (iii) of this part.

Item (III) of subpart (i) of part 4 of subparagraph (g) of paragraph (1) of Rule 0400-12-01-.10 Land Disposal Restrictions is amended by deleting it in its entirety and substituting instead the following:

(III) For debris excluded under subpart (1)(c)6(i) of Rule 0400-12-01-.02, the technology from Table 1 of subparagraph (3)(f) of this rule used to treat the debris.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Subpart (iii) of part 4 of subparagraph (g) of paragraph (1) of Rule 0400-12-01-.10 Land Disposal Restrictions is amended by deleting it in its entirety and substituting instead the following:

- (iii) For debris excluded under subpart (1)(c)6(i) of Rule 0400-12-01-.02, the owner or operator of the treatment facility must document and certify compliance with the treatment standards in Table 1 of subparagraph (3)(f) of this rule as follows:
 - Records must be kept of all inspections, evaluations, and analyses of treated debris that are made to determine compliance with the treatment standards;
 - (II) Records must be kept of any data or information the treater obtains during treatment of the debris that identifies key operating parameters of the treatment unit; and
 - (III) For each shipment of treated debris, a certification of compliance with the treatment standards must be signed by an authorized representative and placed in the facility's files. The certification must state the following:

"I certify under penalty of law that the debris has been treated in accordance with the requirements of subparagraph (3)(f) of Rule 0400-12-01-.10. I am aware that there are significant penalties for making a false certification, including the possibility of fine and imprisonment."

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Waste code K088 (Spent Potliners from primary aluminum reduction) of the Table "Treatment Standards for Hazardous Wastes" following part 10 of subparagraph (a) of paragraph (3) of Rule 0400-12-01-.10 Land Disposal Restrictions is amended by: deleting from the third column: "Benz(a)anthra-cene" and replacing it with "Benz(a)anthracene"; deleting from the third column "Benzo(b)fluor-anthene" and replacing it with "Benzo(b)fluoranthene"; deleting from the third column "Benzo(k)fluor-anthene" and replacing it with "Benzo(k)fluoranthene"; deleting from the third column "Benzo(g,h,i)-perylene" and replacing it with "Benzo(g,h,i)-perylene"; and deleting from the third column "Dibenz(a,h)-anthracene" and replacing it with "Dibenz(a,h)anthracene", so that, as amended, the entry for K088 shall read as follows:

K088	Spent potliners from primary aluminum reduction.	Acenaphthene	83-32-9	0.059	3.4
		Anthracene	120-12-7	0.059	3.4
		Benz(a)anthracene	56-55-3	0.059	3.4
		Benzo(a)pyrene	50-32-8	0.061	3.4
		Benzo(b)fluoranthene	205-99-2	0.11	6.8
		Benzo(k)fluoranthene	207-08-9	0.11	6.8
		Benzo(g,h,i)perylene	191-24-2	0.0055	1.8
		Chrysene	218-01-9	0.059	3.4
		Dibenz(a,h)anthracene	53-70-3	0.055	8.2
		Fluoranthene	206-44-0	0.068	3.4
		Indeno(1,2,3,-cd)pyrene	193-39-5	0.0055	3.4
		Penanthrene	85-01-8	0.059	5.6
		Pyrene	129-00-0	0.067	8.2
		Antimony	7440-36-0	1.9	1.15 mg/l TCLP
		Arsenic	7440-38-2	1.4	26.1 mg/kg
		Barium	7440-39-3	1.2	21 mg/I TCLP
		Beryllium	7440-41-7	0.82	1.22 mg/I TCLP
		Cadmium	7440-43-9	0.69	0.11 mg/l TCLP

Chromium (Total)	7440-47-3	2.77	0.60 mg/l TCLP
Lead	7439-92-1	0.69	0.75 mg/l TCLP
Mercury	7439-97-6	0.15	0.025 mg/I TCLP
Nickel	7440-02-0	3.98	11.0 mg/l TCLP
Calarian	7700.40.0	0.00	
Selenium	7782-49-2	0.82	5.7 mg/I TCLP
Silver	7440-22-4	0.43	0.14 mg/l TCLP
Silver	7440-22-4	0.43	0.14 mg/ TCEI
Cyanide (Total) ⁷	57-12-5	1.2	590
Cyanide (Amenable) ⁷	57-12-5	0.86	30
Fluoride	16984-48-8	35	NA

Technology Code SSTRP in Table 1.^a-TECHOLOGY CODES AND DESCRIPTION OF TECHNOLOGY-BASED STANDARDS following part 1 of subparagraph (c) of paragraph (3) of Rule 0400-12-01-.10 Land Disposal Restrictions is amended by inserting a comma after "unit" and before "such" in the second sentence, so that as amended the description for SSTRP shall read as follows:

SSTRP:

Steam stripping of organics from liquid wastes utilizing direct application of steam to the wastes operated such that liquid and vapor flow rates, as well as temperature and pressure ranges, have been optimized, monitored, and maintained. These operating parameters are dependent upon the design parameters of the unit, such as the number of separation stages and the internal column design, thus resulting in a condensed extract high in organics that must undergo either incineration, reuse as a fuel, or other recovery/reuse and an extracted wastewater that must undergo further treatment as specified in the standard.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Subpart (i) of part 1 of subparagraph (a) of paragraph (4) of Rule 0400-12-01-.10 Land Disposal Restrictions is amended by deleting it in its entirety and substituting instead the following:

(i) A generator stores such wastes in tanks, containers, or containment buildings on-site solely for the purpose of the accumulation of such quantities of hazardous waste as necessary to facilitate proper recovery, treatment, or disposal and the generator complies with the requirements in subparagraphs (1)(g) and (h) of Rule 0400-12-01-.03 and Rules 0400-12-01-.06 and 0400-12-01-.05.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Item (I) of subpart (ii) of part 1 of subparagraph (a) of paragraph (4) of Rule 0400-12-01-.10 Land Disposal Restrictions is amended by deleting it in its entirety and substituting instead the following:

- (I) Each container is clearly marked to identify its contents and with:
 - I. The words "Hazardous Waste";
 - II. The applicable EPA hazardous waste number(s) (hazardous waste codes) in paragraphs (3) and (4) of Rule 0400-12-01-.02; or use a nationally recognized electronic system, such as bar coding, to identify the EPA hazardous waste number(s);
 - III. An indication of the hazards of the contents (examples include, but are not limited to, the applicable hazardous waste characteristic(s) (i.e., ignitable, corrosive, reactive, toxic); hazard communication consistent with the Department of Transportation requirements at 49 CFR part 172 subpart E (labeling) or subpart F (placarding); a hazard statement or pictogram consistent with the Occupational Safety and Health Administration Hazard Communication Standard at 29 CFR 1910.1200; or a chemical hazard label consistent with the National Fire Protection Association code 704); and
 - IV. The date each period of accumulation begins;

Item (II) of subpart (i) of part 2 of subparagraph (a) of paragraph (2) of Rule 0400-12-01-.11 Standards for the Management of Used Oil is amended by deleting it in its entirety and substituting instead the following:

(II) Rebuttable Presumption for Used Oil

Used oil containing more than 1,000 ppm total halogens is presumed to be a hazardous waste because it has been mixed with halogenated hazardous waste listed in paragraph (4) of Rule 0400-12-01-.02. Persons may rebut this presumption by demonstrating that the used oil does not contain hazardous waste (for example, by showing that the used oil does not contain significant concentrations of halogenated hazardous constituents listed in Appendix VIII) in paragraph (30) of Rule 0400-12-01-.02.

- I. The rebuttable presumption does not apply to metalworking oils/fluids containing chlorinated paraffins, if they are processed, through a tolling arrangement as described in part (3)(e)3 of this rule, to reclaim metalworking oils/fluids. The presumption does apply to metalworking oils/fluids if such oils/fluids are recycled in any other manner, or disposed.
- II. The rebuttable presumption does not apply to used oils contaminated with chlorofluorocarbons (CFCs) removed from refrigeration units where the CFCs are destined for reclamation. The rebuttable presumption does apply to used oils contaminated with CFCs that have been mixed with used oil from sources other than refrigeration units.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Subparts (iv) and (v) of part 1 of subparagraph (a) of paragraph (5) of Rule 0400-12-01-.11 Standards for the Management of Used Oil are amended by deleting them in their entirety and substituting instead the following:

(iv) This paragraph does not apply to transportation of used oil from household do-ityourselfers to a regulated used oil generator, collection center, aggregation point, processor/re-refiner, or burner subject to the requirements of this rule. Except as provided in subparts (i) through (iii) of this part, this paragraph does, however, apply to transportation of collected household do-it-yourselfer used oil from regulated used oil generators, collection centers, aggregation points, or other facilities where household do-it-yourselfer used oil is collected.

- (v) Any transporter of used oil who transports quantities of used oil in excess of 55 gallons of used oil at any given time, or who transports more than 1,000 gallons of used oil in a calendar year, must meet the certification requirements of this subpart in order to transport used oil in the state of Tennessee. Certification of compliance with the following items must be demonstrated prior to commencement of used oil transportation activities by the transporter, as well as annually, as part of the used oil transporter's annual report.
 - (I) Each used oil hauler must demonstrate that each employee engaged in the hauling of used oil is in the possession of a current Commercial Driver's License. This must be accompanied by a signed certification by the employee stating that the employee has examined and is familiar with the Used Oil Management Standards for Transporters in Tennessee Rule 0400-12-01-.11.
 - (II) All vehicles used to transport used oil shall have Periodic Inspections as described by T.C.A. § 65-15-113 and Rule 1220-02-01-.20. The requirements of a Periodic Inspection are found in federal regulations at 49 CFR Parts 396.17 through 396.25, and Appendix G of 49 CFR Part 396. A copy of the Periodic Inspection report for each vehicle engaged in the transport of used oil shall be included in the initial Certification and updated in subsequent annual reports. Each vehicle shall be in good mechanical condition and suitable for the transportation of used oil.
 - (III) All commercial transporters engaged in the transportation of used oils must maintain a minimum of \$1,000,000 in liability insurance.
 - (IV) The transporter shall briefly describe the recordkeeping practices to demonstrate compliance with subparagraph (g) of this paragraph. Copies (examples only) of shipping papers shall be included.
 - (V) I. The transporter shall certify that all used oil is delivered to qualified customers or certified recyclers.
 - II. A. The terms "qualified customers" and "certified recyclers" shall mean transporters, transfer facilities, off-specification burners, reprocessors, marketers, and/or re-refiners of used oil, which are in possession of valid Installation Identification Numbers.
 - B. "Qualified customers" shall also include customers without Installation Identification Numbers which receive and burn only those used oils which qualify as "onspecification" used oils as defined in subparagraph (2)(b) of this rule. In such cases when the qualified customer receives a shipment of on-specification used oil and does not possess an Installation Identification Number, the transporter shall clearly indicate in the record that the shipment was "on-specification" used oil.
 - III. A. Supporting documentation of compliance with subitems I and II of this item shall include all information as required at part (g)2 of this paragraph.
 - B. This documentation shall be constructed and maintained in accordance with the recordkeeping requirements of subparagraph (g) of this paragraph, and shall be

available for inspection and furnished to the Department upon request.

(vi) (I) Certifications required by this paragraph, except for "drivers" identified in item (v)(I) of this part, shall contain the following wording:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance to a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that knowingly giving or causing to be given any false information constitutes a Class C misdemeanor."

(II) The Certification for "drivers" referred to in item (v)(I) of this part shall contain the following wording:

"I certify that I have read and am familiar with the Used Oil Management Standards for Transporters in Rule 0400-12-01-.11. I am aware that knowingly giving or causing to be given any false information constitutes a Class C misdemeanor."

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Subpart (iii) of part 2 of subparagraph (a) of paragraph (2) of Rule 0400-12-01-.11 Standards for the Management of Used Oil are amended by deleting them in their entirety and substituting instead the following:

- (iii) Very Small Quantity Generator Hazardous Waste
 - (I) Mixtures of used oil and very small quantity generator hazardous waste regulated under subparagraph (1)(e) of Rule 0400-12-01-.03 are subject to regulation as used oil under this rule, provided the resultant mixture does not exhibit the characteristic of ignitability, corrosivity, or reactivity, in accordance with subparagraphs (3)(b), (c), or (d) of Rule 0400-12-01-.02.
 - (II) If the mixture of used oil and hazardous waste from a very small quantity generator regulated under subparagraph (1)(e) of Rule 0400-12-01-.03 exhibits the characteristic of ignitability, corrosivity, or reactivity, in accordance with subparagraphs (3)(b), (c) or (d) of Rule 0400-12-01-.02, then the mixture shall be managed as hazardous waste and not as used oil under this rule.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Part 3 of subparagraph (e) of paragraph (5) of Rule 0400-12-01-.11 Standards for the Management of Used Oil are amended by deleting them in their entirety and substituting instead the following:

- 3. If the used oil contains greater than or equal to 1,000 ppm total halogens, it is presumed to be a hazardous waste because it has been mixed with halogenated hazardous waste listed in paragraph (4) of Rule 0400-12-01-.02. The owner or operator may rebut the presumption by demonstrating that the used oil does not contain hazardous waste (for example, showing that the used oil does not contain significant concentrations of halogenated hazardous constituents listed in Appendix VIII in paragraph (30) of Rule 0400-12-01-.02).
 - (i) The rebuttable presumption does not apply to metalworking oils/fluids containing chlorinated paraffins, if they are processed, through a tolling arrangement as described in part (3)(e)3 of this rule, to reclaim metalworking oils/fluids. The

presumption does apply to metalworking oils/fluids if such oils/fluids are recycled in any other manner, or disposed.

(ii) The rebuttable presumption does not apply to used oils contaminated with chlorofluorocarbons (CFCs) removed from refrigeration units if the CFCs are destined for reclamation. The rebuttable presumption does apply to used oils contaminated with CFCs that have been mixed with used oil from sources other than refrigeration units.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Subparagraph (f) of paragraph (5) of Rule 0400-12-01-.11 Standards for the Management of Used Oil is amended by deleting its introductory text and substituting instead the following, however, its associated parts remain unchanged:

(f) Used Oil Storage at Transfer Facilities [40 CFR 279.45]

Used oil transporters are subject to all applicable Spill Prevention, Control and Countermeasures (40 CFR part 112) in addition to the requirements of this subparagraph. Used oil transporters are also subject to the Underground Storage Tank standards (Rules 0400-18-01-.01 through -.11) for used oil stored in underground tanks whether or not the used oil exhibits any characteristics of hazardous waste, in addition to the requirements of this subparagraph.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Part 3 of subparagraph (d) of paragraph (6) of Rule 0400-12-01-.11 Standards for the Management of Used Oil is amended by deleting it in its entirety and substituting instead the following:

- 3. If the used oil contains greater than or equal to 1,000 ppm total halogens, it is presumed to be a hazardous waste because it has been mixed with halogenated hazardous waste listed in paragraph (4) of Rule 0400-12-01-.02. The owner or operator may rebut the presumption by demonstrating that the used oil does not contain hazardous waste (for example, by showing that the used oil does not contain significant concentrations of halogenated hazardous constituents listed in Appendix VIII in paragraph (30) of Rule 0400-12-01-.02).
 - (i) The rebuttable presumption does not apply to metalworking oils/fluids containing chlorinated paraffins, if they are processed, through a tolling agreement, to reclaim metalworking oils/fluids. The presumption does apply to metalworking oils/fluids are recycled in any other manner, or disposed.
 - (ii) The rebuttable presumption does not apply to used oils contaminated with chlorofluorocarbons (CFCs) removed from refrigeration units where the CFCs are destined for reclamation. The rebuttable presumption does apply to used oils contaminated with CFCs that have been mixed with used oil from sources other than refrigeration units.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Part 3 of subparagraph (d) of paragraph (6) of Rule 0400-12-01-.11 Standards for the Management of Used Oil is amended by deleting it in its entirety and substituting instead the following:

3. If the used oil contains greater than or equal to 1,000 ppm total halogens, it is presumed to be a hazardous waste because it has been mixed with halogenated hazardous waste listed in paragraph (4) of Rule 0400-12-01-.02. The owner or operator may rebut the presumption by demonstrating that the used oil does not contain hazardous waste (for example, by showing that the used oil does not contain significant concentrations of halogenated hazardous constituents listed in Appendix VIII in paragraph (30) of Rule 0400-12-01-.02).

- (i) The rebuttable presumption does not apply to metalworking oils/fluids containing chlorinated paraffins, if they are processed, through a tolling arrangement as described in part (3)(e) of this rule, to reclaim metalworking oils/fluids. The presumption does apply to metalworking oils/fluids if such oils/fluids are recycled in any other manner, or disposed.
- (ii) The rebuttable presumption does not apply to used oils contaminated with chlorofluorocarbons (CFCs) removed from refrigeration units where the CFCs are destined for reclamation. The rebuttable presumption does apply to used oils contaminated with CFCs that have been mixed with used oil from sources other than refrigeration units.

Subitem II of item (I) of subpart (ii) of part 2 of subparagraph (f) of paragraph (6) of Rule 0400-12-01-.11 Standards for the Management of Used Oil is amended by deleting it in its entirety and substituting instead the following:

II. A method shown to be equivalent under subparagraph (3)(a) of Rule 0400-12-01-.01;

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Subparagraph (b) of paragraph (1) of Rule 0400-12-01-.12 Standards for Universal Waste Management is amended by deleting the definition of "Universal Waste Handler" in its entirety and substituting instead in alphabetical order the following definition for "Universal Waste Handler" to read as follows:

"Universal Waste Handler":

- 1. Means:
 - (i) A generator (as defined in this subparagraph) of universal waste; or
 - (ii) The owner or operator of a facility, including all contiguous property, that receives universal waste from other universal waste handlers, accumulates universal waste, and sends universal waste to another universal waste handler, to a destination facility, or to a foreign destination.
- 2. Does not mean:
 - A person who treats (except under the provisions of parts (2)(d)1, 3, or 4 of this rule, or parts (3)(d)1, 3, or 4 of this rule), disposes of, or recycles universal waste; or
 - (ii) A person engaged in the off-site transportation of universal waste by air, rail, highway, or water, including a universal waste transfer facility (except under the provisions of part (4)(b)2) of this rule.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Subparagraph (c) of paragraph (1) of Rule 0400-12-01-.12 Standards for Universal Waste Management is amended by deleting it in its entirety and substituting instead the following:

- (c) Applicability -- Household and Very Small Quantity Generator Waste and Non-Hazardous Waste [40 CFR 273.8]
 - 1. Persons managing the wastes listed in subparts (i) through (iii) of this part may, at their option, manage them under the requirements of this rule:
 - (i) Household wastes that are exempt under subpart (1)(d)2(i) of Rule 0400-12-01-.02 and are also of the same type as the universal wastes defined at

subparagraph (b) of this paragraph; and/or

- (ii) Very small quantity generator wastes that are exempt under subparagraph (1)(e) of Rule 0400-12-01-.03 and are also of the same type as the universal wastes defined at subparagraph (b) of this paragraph; and/or
- (iii) Non-hazardous wastes that are of the same type as the universal wastes defined at subparagraph (b) of this paragraph.
- 2. Persons who commingle the wastes described in subparts 1(i) and (ii) of this subparagraph together with universal waste regulated under this rule must manage the commingled waste under the requirements of this rule.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Part 5 of subparagraph (e) of paragraph (2) of Rule 0400-12-01-.12 Standards for Universal Waste Management is amended by deleting it in its entirety and substituting instead the following:

5. Universal waste lamps (i.e., each lamp), or a container or package in which such lamps are contained, must be labeled or marked clearly with any one of the following phrases: "Universal Waste - Lamp(s)" or "Waste Lamp(s)" or "Used Lamp(s)" or "Universal Waste - Bulb(s)" or "Waste Bulb(s)". Containers or packages destined for out-of-state shipment shall use the term "Lamps" in lieu of "Bulbs".

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Subparagraph (k) of paragraph (2) of Rule 0400-12-01-.12 Standards for Universal Waste Management is amended by deleting it in its entirety and substituting instead the following:

(k) Exports [40 CFR 273.20]

A small quantity handler of universal waste who sends universal waste to a foreign destination is subject to the requirements of paragraph (9) of Rule 0400-12-01-.03.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Part 5 of subparagraph (e) of paragraph (3) of Rule 0400-12-01-.12 Standards for Universal Waste Management is amended by deleting it in its entirety and substituting instead the following:

5. Universal waste lamps (i.e., each lamp), or a container or package in which such lamps are contained, must be labeled or marked clearly with any one of the following phrases: "Universal Waste - Lamp(s)" or "Waste Lamp(s)" or "Used Lamp(s)" or "Universal Waste - Bulb(s)" or "Waste Bulb(s)". Containers or packages destined for out-of-state shipment shall use the term "Lamps" in lieu of "Bulbs".

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Parts 1 and 2 of subparagraph (j) of paragraph (3) of Rule 0400-12-01-.12 Standards for Universal Waste Management are amended by deleting them in their entirety and substituting instead the following:

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1. Receipt of Shipments

A large quantity handler of universal waste must keep a record of each shipment of universal waste received at the facility. The record may take the form of a log, invoice, manifest, bill of lading, movement document, or other shipping document. The record for each shipment of universal waste received must include the following information:

(i) The name and address of the originating universal waste handler or foreign shipper from whom the universal waste was sent; (Pesticide collection programs operated under the authority of the Tennessee Department of Agriculture are exempt from the requirements of this subpart provided that the pesticides are received by a universal waste handler for proper management);

- (ii) The quantity of each type of universal waste received (e.g., batteries, pesticides, thermostats, lamps); and
- (iii) The date of receipt of the shipment of universal waste.
- 2. Shipments Off-site

A large quantity handler of universal waste must keep a record of each shipment of universal waste sent from the handler to other facilities. The record may take the form of a log, invoice, manifest, bill of lading, movement document, or other shipping document. The record for each shipment of universal waste sent must include the following information:

- (i) The name and address of the universal waste handler, destination facility, or foreign destination to whom the universal waste was sent;
- (ii) The quantity of each type of universal waste sent (e.g., batteries, pesticides, thermostats, lamps); and
- (iii) The date the shipment of universal waste left the facility.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Subparagraph (k) of paragraph (3) of Rule 0400-12-01-.12 Standards for Universal Waste Management is amended by deleting it in its entirety and substituting instead the following:

(k) Exports [40 CFR 273.40]

A large quantity handler of universal waste who sends universal waste to a foreign destination is subject to the requirements of paragraph (9) of Rule 0400-12-01-.03.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Part 2 of subparagraph (b) of paragraph (4) of Rule 0400-12-01-.12 Standards for Universal Waste Management is amended by deleting it in its entirety and substituting instead the following:

2. Prohibited from diluting or treating universal waste, except by responding to releases as provided in subparagraph (e) of this paragraph.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Subparagraph (g) of paragraph (4) of Rule 0400-12-01-.12 Standards for Universal Waste Management is amended by deleting it in its entirety and substituting instead the following:

(g) Exports [40 CFR 273.56]

A universal waste transporter transporting a shipment of universal waste to a foreign destination is subject to the requirements of paragraph (9) of Rule 0400-12-01-.03.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Part 1 of subparagraph (c) of paragraph (5) of Rule 0400-12-01-.12 Standards for Universal Waste Management is amended by deleting it in its entirety and substituting instead the following:

1. The owner or operator of a destination facility must keep a record of each shipment of universal waste received at the facility. The record may take the form of a log, invoice, manifest, bill of lading, movement document, or other shipping document. The record for each shipment of universal waste received must include the following information:

- (i) The name and address of the universal waste handler, destination facility, or foreign shipper from whom the universal waste was sent;
- (ii) The quantity of each type of universal waste received (e.g., batteries, pesticides, thermostats, lamps); and
- (iii) The date of receipt of the shipment of universal waste.

Subparagraph (a) of paragraph (6) of Rule 0400-12-01-.12 Standards for Universal Waste Management is amended by deleting it in its entirety and substituting instead the following:

(a) Imports [40 CFR 273.70]

Persons managing universal waste that is imported from a foreign country into the United States are subject to the applicable requirements of paragraph (9) of Rule 0400-12-01-.03, immediately after the waste enters the United States, as indicated in parts 1 through 3 of this subparagraph:

- 1. A universal waste transporter is subject to the universal waste transporter requirements of paragraph (4) of this rule.
- 2. A universal waste handler is subject to the small or large quantity handler of universal waste requirements of paragraphs (2) or (3) of this rule, as applicable.
- 3. An owner or operator of a destination facility is subject to the destination facility requirements of paragraph (5) of this rule.

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

Part 2 of subparagraph (b) of paragraph (7) of Rule 0400-12-01-.12 Standards for Universal Waste Management is amended by deleting it in its entirety and substituting instead the following:

2. The waste or category of waste is not exclusive to a specific industry or group of industries, is commonly generated by a wide variety of types of establishments (including, for example, households, retail and commercial businesses, office complexes, very small quantity generators, small businesses, government organizations, as well as large industrial facilities);

Authority: T.C.A. §§ 68-212-101 et seq. and 4-5-201 et seq.

I certify that the information included in this filing is an accurate and complete representation of the intent and scope of rulemaking proposed by the agency.

Date:	
Signature:	
Subscribed and sworn to before me on:	
Notary Public Signature:	
My commission expires on:	
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Tre Hargett Secretary of State