

Hazardous Waste e-Manifest Advisory Board

e-Manifest Overview

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1. e-Manifest History

e-Manifest is a national system designed to modernize the hazardous waste tracking process developed and maintained by the U.S. Environmental Protection Agency (EPA). EPA launched e-Manifest on June 30, 2018.

EPA established the e-Manifest system according to the Hazardous Waste Electronic Manifest Establishment Act, enacted into law by Congress on October 5, 2012. The “e-Manifest Act” authorizes the EPA to implement a national electronic manifest system and requires that the costs of developing and operating the new e-Manifest system be recovered from user fees charged to those who use hazardous waste manifests to track off-site shipments of their wastes.

EPA published its final methodology for setting user fees in January 2018. Fees are based on the costs of processing manifests and are updated every two fiscal years.

By enabling the transition from a paper-intensive process to an electronic system, the EPA estimates e-Manifest will ultimately reduce the burden associated with paper manifests by between 175,000 and 425,000 hours, saving state and industry users more than \$50 million annually, once electronic manifests are widely adopted.

Benefits of the e-Manifest system include:

- Cost savings.
- Accurate and more timely information on waste shipments.
- Rapid notification of discrepancies or other problems related to a particular shipment.
- Creation of a single hub for one-stop reporting of manifest data for use by EPA and states.
- Increased effectiveness of compliance monitoring of waste shipments by regulators; and
- The potential for integrating manifest reporting with the Resource Conservation and Recovery Act (RCRA) biennial reporting process and other federal and state information systems.

2. What is a Manifest?

EPA’s hazardous waste manifest is designed to track hazardous waste from the time it leaves the generator facility where it was produced, until it reaches the off-site waste management facility that will store, treat, or dispose of the hazardous waste.

The key component of this tracking system is the Uniform Hazardous Waste Manifest (AKA “form 8700-22”, or “manifest”), a form required by EPA and the U.S. Department of Transportation for all generators who transport, or offer for transport, hazardous waste for off-site treatment, recycling, storage or disposal. When completed, the form contains information on the type and quantity of the waste being transported, instructions for handling the waste, and signature lines for all parties involved in the transportation and disposal process. Each party that handles the waste signs the manifest and retains a

copy for themselves. This ensures critical accountability in the transportation and disposal processes. Once the waste reaches its destination, the receiving facility returns a signed copy of the manifest to the generator, confirming that the waste has been received by the designated facility. The e-Manifest Third Rule will no longer require receiving facilities to return a final copy to large and small quantity generators as these generators will be able to obtain the copy from e-Manifest.

3. Rulemakings and Policy

EPA has completed three final rules in support of the program.

The “One Year Rule” (2014) established the legal and policy framework for the use of electronic manifests. The “User Fee Rule” (2017) established user fees and other actions necessary to set up the system. The “Third Rule” (2024) integrated export manifests and manifest-related reports, and imposed registration requirements for hazardous waste generators.

Resources

- [EPA Basics of Laws and Regulations](#)
- [Read the Final One Year Rule in the *Federal Register*.](#)
- [Summary of the User Fee Final Rule.](#)
- [Read the Final User Fee Rule in the *Federal Register*.](#)
- [Summary of Final Third Rule](#)
- [Read the Final Third Rule in the *Federal Register*](#)

Remote Signer Policy

On May 5, 2023, EPA issued a policy to allow generators, transporters, and receiving facilities to execute electronic signatures through their own IT systems. The policy allows people who handle hazardous waste to submit signatures through the e-Manifest RESTful application programming interface (API) or by communicating with a coworker who has internet connectivity to facilitate the signature on the electronic manifest. This policy reduces the number of employees and contractors who need to register to sign manifests, alleviates the need to have network access at the point of custody exchange, and allows sites to initiate the electronic signature process through system-to-system communication. [Read the Remote Signer Policy](#)

4. How Does e-Manifest Work?

The e-Manifest system has been built as an integral part of the existing Resource Conservation and Recovery Act Information System ([RCRAInfo](#)).

The e-Manifest system captures all hazardous waste manifests, including electronic manifests (those initiated and signed in the system) as well as paper manifests (which are uploaded after the hazardous waste shipment is complete).

e-Manifest provides the parties listed below with the following functions:

- Hazardous waste generators and transporters: Generators and transporters can create, edit, view, and sign manifests as well as submit post-receipt corrections electronically. e-Manifest stores final copies and status information on electronic and paper manifests.
- Receiving facilities: Facilities receiving waste shipped on a manifest are able to sign manifests when the waste is received, submit the manifests to EPA, make corrections to submitted manifests, and retrieve copies of manifests submitted since e-Manifest launched.
- State government users are able to retrieve copies and status information on any manifests associated with entities in their state.
- General Public: e-Manifest data is accessible to the general public 90 days after receipt at the designated facility through the system's public-facing webpage.

EPA is committed to ensuring that the e-Manifest system meets its users' needs. To accomplish this, we have conducted user-centered design and development utilizing agile software development methodologies. This approach embodies continuous improvement through pilots and testing, using iterative processes, and regular engagement with users and interested parties throughout the process.

EPA also provides a host of system development resources, geared toward technical users, [on our GitHub page](#). This page includes reference material, source code, and instructions for a variety of e-Manifest user needs. Our GitHub page allows users to review the latest updates to our web services, read technical documentation, access the software deployment calendar, learn to test system-to-system connections with e-Manifest, and communicate with the e-Manifest development team.

5. Manifest Submission Types

EPA accepts four types of manifest submissions, which include:

1. Fully Electronic
2. Hybrid
3. Data + Image
4. Scanned Image

These submissions fall into two categories, Electronic and Paper Manifests. The instructions on how to submit each type of manifest submission can be found below.

Electronic Manifests

Fully Electronic Manifest

Note: All handlers must be [registered](#) for e-Manifest.

1. Manifest is created electronically in e-Manifest.
 - a. A copy of the manifest is printed out for use as the required DOT shipping paper.

2. Manifest is signed electronically by all handlers.
 - a. Generators, transporters and the initial receiving facility signature may use the “Quick Sign” feature.
3. Manifest in [e-Manifest](#) is considered complete when receiving facility signs electronically using a Cross-Media Electronic Reporting Rule (CROMERR)-compliant electronic signature.

Hybrid Manifest

Note: Initial and subsequent transporters and receiving facility must be [registered](#) for e-Manifest.

1. Manifest is created electronically in e-Manifest.
2. The generator or initial transporter prints out manifest from e-Manifest and both sign the paper copy of the electronic manifest.
3. Initial transporter, any subsequent transporter, and receiving facility electronically sign manifest.
 - a. Transporters and the initial receiving facility may sign using the “Quick Sign” feature.
4. Manifest is submitted into [e-Manifest](#) and is considered complete when receiving facility signs electronically using CROMERR-compliant electronic signature.

Paper Manifests

Data + Image Manifest

Note: Receiving facility must [register](#) at least one Site Manager to upload data + image and pay invoices.

1. Paper manifest form is used.
2. All handlers sign paper copy of the manifest.
3. Receiving facility uploads a data file along with a scanned image of the top copy paper manifest.
4. Receiving facility electronically signs in [e-Manifest](#) to submit manifest data and images to EPA.
5. EPA validates that the scanned image and data file contain the same information.

Scanned Image Manifest

Note: Receiving facility must [register](#) at least one Site Manager to upload scanned images and pay invoices.

1. Paper manifest form is used.
2. All handlers sign paper copy of the manifest.
3. Receiving facility uploads scanned image of the manifest through e-Manifest.

4. Receiving facility electronically signs in [e-Manifest](#) to submit manifest images to EPA.
5. EPA enters data from the accompanying scanned image.

Signature Types

Quick Sign or Remote Sign (aka quicker sign) functionality applies to electronic signatures for initial receipt of shipments by generators, transporters, and receiving facilities. The CROMERR-compliant signature applies to electronic signatures for receiving facilities submitting the final manifest to EPA or to users (e.g., generators, transporters, and receiving facilities) submitting post-receipt corrections to the e-Manifest system. CROMERR-compliant signature method requires a higher level of identity proofing.

Another key difference is that Quick Sign and Remote Sign functionalities are available for users with Preparer permission, unlike the CROMERR-compliant signature method, which requires users to have Certifier or Site Manager permission, including completion of an Electronic Signature Agreement. Certifiers and Site Managers can also Quick Sign or use Remote Signatures.

6. e-Manifest Advisory Board

The e-Manifest Advisory Board was established in accordance with the provisions of the Hazardous Waste Electronic Manifest Establishment Act. The e-Manifest Board provides recommendations on matters related to the operational activities, functions, policies, and regulations for the system. The e-Manifest Advisory Board is composed of nine (9) members. One (1) member is the EPA Administrator, or their designee; the rest of the committee includes:

- At least two (2) members who have expertise in information technology.
- At least three (3) members who have experience in using or represent users of the manifest system to track the transportation of hazardous waste under the e-Manifest Act.
- At least three (3) members who are State representatives responsible for processing e-Manifests.

The e-Manifest Advisory Board meets annually. The information about all previous e-Manifest Advisory Board meetings can be found on <https://www.epa.gov/e-manifest/hazardous-waste-electronic-manifest-system-e-manifest-advisory-board#Meetings>.

7. Noteworthy FAQs

Additional FAQs are available at epa.gov/e-manifest/frequent-questions-about-e-manifest

Does the e-Manifest system collect paper manifests?

Yes, the e-Manifest system stores final copies of all manifests, both electronic and paper. Receiving facilities that receive waste that must be manifested under federal, or state law must submit those manifests to EPA using one of the available submission options. Once submitted, states and industry

can make corrections to their paper manifest data electronically in e-Manifest through the post-receipts corrections process; the system retains an auditable record of all such corrections.

What is a hybrid manifest?

The hybrid or mixed paper/electronic manifest is a specific manifest approach that EPA adopted to assist generators who are not able to fully participate in electronic manifesting at the time of system launch. The hybrid manifest allows transporters to initiate an electronic manifest in e-Manifest and use this manifest with their non-participating generator customers. The initial transporter may print a copy of the electronic manifest for the generator, and the generator may sign the paper copy, obtain the initial transporter's ink signature on this paper copy, and then retain this paper copy on-site as the generator's initial manifest copy as is done under traditional manifest requirements. Thereafter, the initial transporter and subsequent waste handlers complete the remainder of the tracking of the shipment electronically in e-Manifest with electronic signatures and electronic transmissions to the system. Hybrid manifests are charged the same fee as a fully electronic manifest. Generators without accounts that utilize hybrid manifest can be given paper copies of completed manifests from receiving facilities.

What manifests are required to be submitted to EPA? If someone chooses to use the EPA manifest form, but isn't required to do so, must that form be submitted to EPA?

Generally, if the wastes listed on a manifest are not required by federal or state law to be shipped under a manifest, then there is no requirement that such manifests be submitted to EPA. However, please refer to the "Receiving Facilities" section for further explanation of manifest requirements when a generator relies on waste determinations from the receiving facility.

How will use of e-Manifest relate to the Department of Transportation (DOT) hazardous material regulations (HMR) requirement to use a shipping paper?

DOT currently requires that a hard copy shipping paper be placed in the cab of the transport vehicle during transportation. The system allows users to print electronic manifests that satisfy the DOT HMR requirement for a shipping paper.

8. e-Manifest and Biennial Report

Integrating e-Manifest data with the Biennial Report (BR) remains an important step towards the e-Manifest program's burden reduction goals stipulated in the e-Manifest Act by Congress. While there is a significant overlap in information collected on the uniform hazardous waste manifest (manifest) and the BR, there are also significant obstacles associated with the non-overlapping data collected as well as limited space on paper manifests.

BR Background

RCRA, as amended by the Hazardous and Solid Waste Amendments of 1984 (HSWA), requires EPA to establish standards regarding the generation, management, and final disposition of hazardous wastes regulated under RCRA. The relevant statutory language applicable to generators, transporters and receiving facilities can be found in sections 3002, 3003, and 3004, respectively. Section 3002 requires

EPA to establish reports to be filed to the Administrator by hazardous waste generators, at least once every two years, that includes information on the:

- “Quantity and nature of hazardous waste” generated
- “Disposition of all hazardous waste reported”
- “Efforts undertaken [...] to reduce the volume and toxicity of waste generated,” and
- “Change in volume and toxicity of waste actually achieved.”

To meet these requirements, EPA established the BR form (8700-13A/B, also known as the RCRA Hazardous Waste Report) and promulgated regulatory BR requirements at 40 CFR 262.41 for large quantity generators, and at 40 CFR 264.75/265.75 for receiving facilities. T

The BR includes, but is not limited to, four forms:

1. Site Identification Form
 - a. includes information such as site details, types of RCRA hazardous waste activities, and generator category if applicable
2. Waste Generation and Management (GM) Form
 - a. Collects information on the quantity and nature of all waste that was used to determine a site’s generator category, including waste shipped off-site and waste managed on-site.
 - b. Waste managed on-site is recorded in a site’s GM form but is not present in a site’s e-Manifest records.
3. Waste Received from Off-site (WR) Form
 - a. Includes information on the quantity and nature of waste received from off-site and managed on-site (i.e., treated, stored, or disposed of). Hazardous waste shipments that are exempt from manifesting (e.g., hazardous waste shipped from very small quantity generators in certain states) but required to be listed in the BR are found on this form.
4. Off-site Identification (OI) Form
 - a. Contains name and address information of sites identified within the BR. It is only filed if the site’s state requires it.

BR Data Not Present on Manifest Form

Hazardous waste data collected on a manifest represents a subset of the data collected on both the GM and WR forms. For these forms, the following provides a breakdown of the data fields that are not collected on the manifest:

- WR Form
 - **Waste Description** A short narrative describing the general type, source, hazards, and generic chemical name or primary hazardous constituent of a waste. Box 9 of the manifest does include the U.S. DOT Description; however, it does not provide a comparable level of detail.

- **Density** is required if reporting wastes in volumes, to convert volume to quantity (e.g., gallons to kilograms). Regulators often use quantity as the final unit of measure when analyzing BR data. Waste can be recorded with volumetric units of measurement on the manifest. This is currently an optional field for electronic manifests; however, it is not present on the paper manifest.
- **Form Code** These codes correspond to the physical form or chemical composition of the hazardous waste. This is currently an optional field for electronic manifests; however, it is not present on the paper manifest.
- **Waste Code** The WR form requires all waste codes be reported per waste stream. The manifest does capture waste codes, however the paper manifest has insufficient room to capture more than six waste codes per waste line, while a waste stream may have more than six waste codes
- GM Form
 - **Source Code** Describes the type of process or activity (i.e., source) from which a hazardous waste was generated. This is currently an optional field for electronic manifests; however, it is not present on the paper manifest.
 - **Mixed Radioactive Waste** A recently reinstated field that had not been used for nearly two decades, Mixed Radioactive Waste indicates if the hazardous waste was mixed with nuclear source, special nuclear, or by-product material. Neither paper manifests nor electronic manifests currently capture this data.
 - **Waste Minimization Code** A code that corresponds to the waste minimization, recycling, or pollution prevention efforts implemented by the generator. This is a currently an optional field for electronic manifests; however, it is not present on the paper manifest.



Sample Manifest and Form Instructions

The following is a sample manifest and form instructions

Please print or type. Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number		2. Page 1 of		3. Emergency Response Phone		4. Manifest Tracking Number				
		5. Generator's Name and Mailing Address						Generator's Site Address (if different than mailing address)				
Generator's Email and Phone:												
6. Transporter 1 Company Name						U.S. EPA ID Number						
7. Transporter 2 Company Name						U.S. EPA ID Number						
8. Designated Facility Name and Site Address						U.S. EPA ID Number						
Facility's Phone:												
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes			
			No.	Type								
	1.											
	2.											
	3.											
14. Special Handling Instructions and Additional Information												
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.												
Generators/Offeror's Printed/Typed Name						Signature		Month	Day	Year		
[Reserved]												
TRANSPORTER	17. Transporter Acknowledgment of Receipt of Materials											
	Transporter 1 Printed/Typed Name						Signature		Month	Day	Year	
	Transporter 2 Printed/Typed Name						Signature		Month	Day	Year	
DESIGNATED FACILITY	18. Discrepancy											
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection											
	Manifest Reference Number:											
	18b. Alternate Facility (or Generator)						U.S. EPA ID Number					
	Facility's Phone:											
18c. Signature of Alternate Facility (or Generator)								Month	Day	Year		
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)												
1.			2.			3.			4.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a												
Printed/Typed Name						Signature		Month	Day	Year		

EPA Form 8700-22 (Rev. XX-XX) Previous editions are obsolete.

U.S. DESIGNATED FACILITY OR U.S. EXPORTER TO EPA's e-MANIFEST SYSTEM

Hazardous Waste Manifest Instructions

What are the instructions for completing the manifest form (EPA Form 8700-22)?

Read all instructions before completing the form.

1. Federal regulations require generators and transporters of hazardous waste and owners or operators of receiving facilities designated on the manifest to complete this form (EPA Form 8700-22) and, if necessary, the continuation sheet (EPA Form 8700-22A) for both inter- and intrastate transportation of hazardous waste.
2. This form must be purchased from a registered printer (<https://www.epa.gov/hwgenerators/approved-registered-printers-epas-manifest-registry>) and has been designed to be filled out using standard computer printers; a firm point pen may also be used—press down hard. This form can also be completed electronically in EPA’s e-Manifest system.

I. Instructions for Generators

Item 1. Generator’s U.S. EPA Identification Number

Enter the generator’s U.S. EPA twelve-digit identification number, or the state generator identification number if the generator site does not have an EPA identification number.

Item 2. Page 1 of ____

Enter the total number of pages used to complete the manifest (*i.e.*, the first page (EPA Form 8700-22) plus the number of continuation sheets (EPA Form 8700-22A), if any).

Item 3. Emergency Response Phone Number

Enter a phone number for which emergency response information can be obtained in the event of an incident during transportation. The emergency response phone number must:

1. Be the number of the generator or the number of an agency or organization who is capable of and accepts responsibility for providing detailed information about the shipment;
2. Reach a phone that is monitored 24 hours a day at all times the waste is in transportation (including transportation related storage); and
3. Reach someone who is either knowledgeable of the hazardous waste being shipped and has comprehensive emergency response and spill cleanup/incident mitigation information for the material being shipped or has immediate access to a person who has that knowledge and information about the shipment.

Note: Emergency Response phone number information should only be entered in Item 3 when there is one phone number that applies to all the waste materials described in Item 9b. If a situation (*e.g.*, consolidated shipments) arises where more than one Emergency Response phone number applies to the

various wastes listed on the manifest, the phone numbers associated with each specific material should be entered after its description in Item 9b.

Item 4. Manifest Tracking Number

This unique tracking number must be pre-printed on the manifest by the forms printer.

Item 5. Generator's Mailing Address, Phone Number and Site Address

Enter the name of the generator, the mailing address to which the completed manifest signed by the designated facility should be mailed, and the generator's telephone number. Note, the telephone number (including area code) should be the normal business number for the generator, or the number where the generator or his authorized agent may be reached to provide instructions in the event the designated and/or alternate (if any) facility rejects some or all of the shipment. Also enter the physical site address from which the shipment originates only if this address is different than the mailing address.

Item 6. Transporter 1 Company Name, and U.S. EPA ID Number

Enter the company name and U.S. EPA ID number of the first transporter who will transport the waste. Vehicle or driver information may not be entered here.

Item 7. Transporter 2 Company Name and U.S. EPA ID Number

If applicable, enter the company name and U.S. EPA ID number of the second transporter who will transport the waste. Vehicle or driver information may not be entered here.

If more than two transporters are needed, use a continuation sheet(s) (EPA Form 8700-22A).

Item 8. Designated Facility Name, Site Address, and U.S. EPA ID Number

Enter the company name and site address of the facility designated to receive the waste listed on the manifest. Also enter the facility's phone number and the U.S. EPA twelve-digit identification number of the facility.

Item 9. U.S. DOT Description (Including Proper Shipping Name, Hazard Class or Division, Identification Number, and Packing Group)

Item 9a. If the wastes identified in Item 9b consist of both hazardous and nonhazardous materials, then identify the hazardous materials by entering an "X" in this Item next to the corresponding hazardous material identified in Item 9b.

Item 9b. Enter the U.S. DOT Proper Shipping Name, Hazard Class or Division, Identification Number (UN/NA) and Packing Group for each waste as identified in 49 CFR 172. Include technical name(s) and reportable quantity references, if applicable.

Note: If additional space is needed for waste descriptions, enter these additional descriptions in Item 27 on the continuation sheet (EPA Form 8700-22A). Also, if more than one Emergency Response phone

number applies to the various wastes described in either Item 9b or Item 27, enter applicable Emergency Response phone numbers immediately following the shipping descriptions for those Items.

Item 10. Containers (Number and Type)

Enter the number of containers for each waste and the appropriate abbreviation from Table I (below) for the type of container.

Table I. Types of Containers

BA = Burlap, cloth, paper, or plastic bags.	DT = Dump truck.
CF = Fiber or plastic boxes, cartons, cases.	DW = Wooden drums, barrels, kegs.
CM = Metal boxes, cartons, cases (including roll-offs).	HG = Hopper or gondola cars.
CW = Wooden boxes, cartons, cases.	TC = Tank cars
CY = Cylinders.	TP = Portable tanks.
DF = Fiberboard or plastic drums, barrels, kegs.	TT = Cargo tanks (tank trucks).
DM = Metal drums, barrels, kegs.	

Item 11. Total Quantity

Enter, in designated boxes, the total quantity of waste. Round partial units to the nearest whole unit, and do not enter decimals or fractions. To the extent practical, report quantities using appropriate units of measure that will allow you to report quantities with precision. Waste quantities entered should be based on actual measurements or reasonably accurate estimates of actual quantities shipped. Container capacities are not acceptable as estimates.

Item 12. Units of Measure (Weight/Volume)

Enter, in designated boxes, the appropriate abbreviation from Table II (below) for the unit of measure.

TABLE II.--UNITS OF MEASURE

G = Gallons (liquids only).	N = Cubic Meters.
K = Kilograms.	P = Pounds.
L = Liters (liquids only).	T = Tons (2000 Pounds).
M = Metric Tons (1000 kilograms).	Y = Cubic Yards

Note: Tons, Metric Tons, Cubic Meters, and Cubic Yards should only be reported for very large bulk shipments, such as rail cars, tank trucks, or barges.

Item 13. Waste Codes

Enter up to six federal and state waste codes to describe each waste stream identified in Item 9b. State waste codes that are not redundant with federal codes must be entered here, in addition to the federal waste codes which are most representative of the properties of the waste.

Item 14. Special Handling Instructions and Additional Information

1. Generators may enter any special handling or shipment-specific information necessary for the proper management or tracking of the materials under the generator's or other handler's business processes, such as waste profile numbers, container codes, bar codes, or response guide numbers. Generators also may use this space to enter additional descriptive information about their shipped materials, such as chemical names, constituent percentages, physical state, or specific gravity of wastes identified with volume units in Item 12.
2. This space may be used to record limited types of federally required information for which there is no specific space provided on the manifest, including any alternate facility designations; the manifest tracking number of the original manifest for rejected wastes and residues that are re-shipped under a second manifest; and the specification of polychlorinated biphenyl (PCB) waste descriptions and PCB out-of-service dates required under 40 CFR 761.207. Generators, however, cannot be required to enter information in this space to meet state regulatory requirements.

Item 15. Generator's/Offeror's Certifications

1. The generator must read, sign, and date the waste minimization certification statement. In signing the waste minimization certification statement, those generators who have not been exempted by statute or regulation from the duty to make a waste minimization certification under section 3002(b) of RCRA are also certifying that they have complied with the waste minimization requirements. The Generator's Certification also contains the required attestation that the shipment has been properly prepared and is in proper condition for transportation (the shipper's certification). The content of the shipper's certification statement is as follows: "I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the EPA Acknowledgment of Consent." When a party other than the generator prepares the shipment for transportation, this party may also sign the shipper's certification statement as the offeror of the shipment.
2. Generator or Offeror personnel may preprint the words, "On behalf of" in the signature block or may hand write this statement in the signature block prior to signing the generator/offeror

certification, to indicate that the individual signs as the employee or agent of the named principal.

Note: All of the above information except the handwritten signature required in Item 15 may be pre-printed. (Handwritten signatures are not applicable if the generator is preparing and signing an electronic manifest using EPA's e-Manifest system.)

II. Instructions for International Shipment Block

EPA has moved the International Shipments Block from the manifest (EPA Form 8700-22) to the continuation sheet (EPA Form 8700-22A). Import and export shipments must include continuation sheet (EPA Form 8700-22A).

III. Instructions for Transporters

Item 17. Transporters' Acknowledgments of Receipt

Enter the name of the person accepting the waste on behalf of the first transporter. That person must acknowledge acceptance of the waste described on the manifest by signing and entering the date of receipt. Only one signature per transportation company is required. Signatures are not required to track the movement of wastes in and out of transfer facilities, unless there is a change of custody between transporters.

If applicable, enter the name of the person accepting the waste on behalf of the second transporter. That person must acknowledge acceptance of the waste described on the manifest by signing and entering the date of receipt.

Transporters carrying imports, who are acting as importers, may have responsibilities to enter information in the International Shipments Block of the continuation sheet. Transporters carrying exports have responsibilities to enter information in the International Shipments Block of the continuation sheet.

IV. Instructions for Exporters or Owners and Operators of Receiving Facilities Designated on the Manifest

Item 18. Discrepancy

Item 18a. Discrepancy Indication Space

1. The authorized representative of the designated (or alternate) facility's owner or operator must note in this space any discrepancies between the waste described on the manifest and the waste actually received at the facility. Manifest discrepancies are: significant differences (as defined by §§ 264.72(b) and 265.72(b)) between the quantity or type of hazardous waste designated on the manifest or shipping paper, and the quantity and type of hazardous waste a facility actually receives, rejected wastes, which may be a full or partial shipment of hazardous

waste that the facility cannot accept, or container residues, which are residues that exceed the quantity limits for “empty” containers set forth in 40 CFR 261.7(b).

2. For rejected loads and residues (40 CFR 264.72(d), (e), and (f), or 40 CFR 265.72(d), (e), or (f)), check the appropriate box if the shipment is a rejected load (i.e., rejected by the designated and/or alternate facility and is sent to an alternate facility or returned to the generator) or a regulated residue that cannot be removed from a container. Enter the reason for the rejection or the inability to remove the residue and a description of the waste. Also, reference the manifest tracking number for any additional manifests being used to track the rejected waste or residue shipment on the original manifest. Indicate the original manifest tracking number in Item 14, the Special Handling Block and Additional Information Block of the additional manifests.
3. Owners or operators of facilities located in unauthorized states (i.e., states in which the U.S. EPA administers the hazardous waste management program) who cannot resolve significant differences in quantity or type within 15 days of receiving the waste must submit to their Regional Administrator a letter with a copy of the manifest at issue describing the discrepancy and attempts to reconcile it (40 CFR 264.72(c) and 265.72(c)).
4. Owners or operators of facilities located in authorized states (i.e., those states that have received authorization from the U.S. EPA to administer the hazardous waste management program) should contact their state agency for information on where to report discrepancies involving “significant differences” to state officials.

Item 18b. Alternate Facility (or Generator) for Receipt of Full Load Rejections

Enter the name, address, phone number, and EPA Identification Number of the Alternate Facility which the rejecting facility has designated, after consulting with the generator, to receive a fully rejected waste shipment. In the event that a fully rejected shipment is being returned to the generator, the rejecting facility may enter the generator’s site information in this space. This field is not to be used to forward partially rejected loads or residue waste shipments.

Item 18c. Alternate Facility (or Generator) Signature

The authorized representative of the alternate facility (or the generator in the event of a returned shipment) must sign and date this field of the form to acknowledge receipt of the fully rejected wastes or residues identified by the initial facility.

Item 19. Hazardous Waste Report Management Method Codes

Enter the most appropriate Hazardous Waste Report Management Method code for each waste listed in Item 9. The Hazardous Waste Report Management Method code is to be entered by the first facility that receives the waste and is the code that best describes the way in which the waste is to be managed when received by the facility.

Item 20. Designated Facility Owner or Operator Certification of Receipt (Except As Noted in Item 18a)

Enter the name of the person receiving the waste on behalf of the owner or operator of the facility. That person must acknowledge receipt or rejection of the waste described on the manifest by signing and entering the date of receipt or rejection where indicated. Since the Facility Certification acknowledges receipt of the waste except as noted in the Discrepancy Space in Item 18a, the certification should be signed for both waste receipt and waste rejection, with the rejection being noted and described in the space provided in Item 18a. Fully rejected wastes may be forwarded or returned using Item 18b after consultation with the generator. Enter the name of the person accepting the waste on behalf of the owner or operator of the alternate facility or the original generator. That person must acknowledge receipt or rejection of the waste described on the manifest by signing and entering the date they received or rejected the waste in Item 18c. Partially rejected wastes and residues must be re-shipped under a new manifest, to be initiated and signed by the rejecting facility as offeror of the shipment.

Note: The e-Manifest Act mandates several changes to the federal manifest program.

- **Any facility (e.g., a RCRA-permitted facility, Subtitle D facility) that receives a manifest accompanying a state-only regulated waste must comply with 40 CFR 264.71 or 265.71 (use of the manifest) and 40 CFR 264.72 or 265.72 (manifest discrepancies).**
- **Any facility that receives a paper manifest accompanying a federally regulated waste or state-only regulated waste must submit the top copy (Page 1) of the manifest and any continuation sheets to the U.S. EPA's e-Manifest system within 30 days. The copies must be submitted in an acceptable format. Submissions must be made to the e-Manifest system. See EPA's e-Manifest website (www.epa.gov/e-manifest).**
- **Any exporter that receives a paper manifest accompanying a hazardous waste or state-only regulated waste must submit the top copy (Page 1) of the manifest and any continuation sheets to the U.S. EPA's e-Manifest system within 30 days. The copies must be submitted in an acceptable format. Submissions must be made to the e-Manifest system. See EPA's e-Manifest website (www.epa.gov/e-manifest).**
- **The exporter or facility will be assessed a fee for each manifest copy submitted.**