

# U.S. Environmental Protection Agency

## Information Collection Request

**Title:** Integrating e-Manifest with HWE and Other Manifest-Related Reports, PCB Manifest Amendments and Technical Corrections

**OMB Control Number:** 2050-0039

**EPA ICR Number:** 0801.27

**Abstract:** On January 3, 2018, EPA finalized a rule that set forth a new 5-part manifest and continuation sheet and established the fee methodology that EPA uses to determine the user fees applicable to the electronic and paper manifests submitted to the national system (83 FR 420). EPA launched the e-Manifest system on June 30, 2018. Beginning on this date, designated TSDFs and other receiving facilities must submit a copy of each paper manifest to the e-Manifest and pay a user fee for each paper or electronic manifest.

EPA is now proposing certain amendments to the e-Manifest regulations for shipments of hazardous waste that are exported for treatment, storage, and disposal. In addition, EPA proposes regulatory amendments to the three manifest-related, written reports, including: (1) Exception Report, (2) Discrepancy Report, and (3) Unmanifested Waste Report, which address specific issues that arise in the use of the manifest. Because much of the manifest information that is the basis for these separate reports will be available in e-Manifest, EPA is proposing regulatory changes so that these reports can be transmitted electronically and more efficiently in the e-Manifest system rather than as separate, written reports. Further, EPA proposes conforming regulatory changes to the Toxic Substances Control Act (TSCA) manifest regulations for polychlorinated biphenyls (PCB) wastes. PCB wastes are not hazardous wastes pursuant to RCRA but are required under TSCA regulations to be tracked under a RCRA hazardous waste manifest when transported from the site of generation to an off-site facility for commercial storage or disposal. Proposed changes to the TSCA manifest regulations are necessary to align with the RCRA manifest regulations and the e-Manifest Program. EPA also proposes regulatory changes to the RCRA hazardous waste export and import shipment international movement document related requirements to more closely link the manifest data with the international movement document data. Finally, the Agency proposes to make technical corrections to fix typographical errors in the e-Manifest and movement document regulations.

### **Supporting Statement A**

#### **1. NEED AND AUTHORITY FOR THE COLLECTION**

*Explain the circumstances that make the collection of information necessary. Identify any legal or administrative requirements that necessitate the collection.*

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EPA's authority to require use of a hazardous waste manifest system stems primarily from section 3002(a)(5) of RCRA. See also RCRA sections 3003(a)(3) and 3004. In addition, the Hazardous Waste Electronic Manifest Establishment Act, PL112-195 was established by the U.S. Congress expressly to direct EPA to establish a national e-Manifest system, as well as to facilitate the establishment of the e-Manifest system by providing EPA with explicit statutory authority needed to implement the electronic manifest in a self-sustaining manner. Among other things, the e-Manifest Act directs EPA to promulgate final regulations, after consultation with the Secretary of Transportation, authorizing the use of electronic manifests within 1 year of enactment. The Act also directs the Agency to establish an e-Manifest system that may be used by any user within 3 years from the date of enactment of the Act.

The manifest (including the electronic manifest) serves an essential role as a control and transport document that accompanies the waste from its generation site to its treatment, storage, or disposal site. Among other things, the manifest lists the wastes that are being shipped and the treatment, storage, or disposal facility (TSDF) or other receiving facility to which the wastes are bound. The term "manifest system" refers to the overall set of requirements for the use of the manifest.

The RCRA manifest requirements are needed to ensure that hazardous waste designated for delivery to an offsite facility actually reaches its receiving. Thus, the manifest system serves as a self-enforcing mechanism that requires generators, transporters, and owner/operators of designated facilities to participate in an active hazardous waste tracking system. This system does not ordinarily involve intervention on the part of EPA unless hazardous wastes do not reach their designated point of disposal within a specified timeframe.

The critical components of the manifest system include the information required on the manifest itself, the transmittal of manifest copies to specified parties, the submission of exception, discrepancy, and un-manifested waste reports to EPA, and recordkeeping requirements. Each of these components assists in tracking the waste and helps the Agency in reviewing whether hazardous waste shipments have been handled properly. The manifest, by incorporating U.S. Department of Transportation (DOT) requirements applicable to shipping papers, also serves as an important safety tool. In the event of an accident during transport or delivery, information on the manifest, such as the identification of the waste's hazard class, can be used to help response teams determine appropriate response actions.

Although the generators, transporters, designated facilities, and emergency response teams (in the case of accidents) are the primary users of these records, EPA may review these documents during a facility inspection to make sure proper records are being kept and regulations are complied with. EPA also reviews and responds to exception reports, discrepancy reports, and un-manifested waste reports. As envisioned, the public will also have access to data in the e-Manifest system.

Section 3002(a)(5) of the Resource Conservation and Recovery Act (RCRA) directs the U.S. Environmental Protection Agency (EPA) to "...establish requirements respecting...use of a manifest system and any other reasonable means necessary to assure that all such hazardous waste generated is designated for treatment, storage, or disposal, and arrives at treatment, storage, or disposal facilities...for which a permit has been issued..." Under this authority, EPA published regulations for a manifest system on February 26, 1980 (45 FR 12724). EPA established requirements for manifest completion, transmittal, and recordkeeping for hazardous waste generators at 40 CFR Part 262, Subpart B, for transporters at Part 263, Subpart B, and for treatment, storage, and disposal facilities (TSDFs) at Parts 264 and 265, Subpart E. EPA also requires the use of the Uniform Hazardous Waste Manifest (UHWWM or manifest). Since then, EPA has modified the manifest regulations on a number of occasions.

On February 7, 2014, EPA finalized a rule establishing requirements that authorize the use of electronic manifests (or e-Manifests) as a means to track offsite shipments of hazardous waste from a generator's site to the site of the receipt and disposition of the hazardous waste (79 FR 7518). The final e-Manifest rule also implemented the provisions of the Hazardous Waste Electronic Manifest Establishment Act, P.L. 112-195, which directs EPA to establish a national electronic manifest system (or e-Manifest system). The rule clarifies explicitly that electronic manifest documents obtained from the Agency's national e-Manifest system and completed in accordance with the rule's provisions are the legal equivalent of the paper manifest forms that are currently authorized for use in tracking hazardous waste shipments. The electronic manifest documents authorized by the final regulation are available to manifest users as an alternative to the paper manifest forms.

## **2. PRACTICAL UTILITY/USERS OF THE DATA**

*Indicate how, by whom, and for what purpose the information is to be used. Except for a new collection, indicate the actual use the agency has made of the information received from the current collection.*

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The manifest serves a number of vital uses to industry, regulators, EPA and the public. For example, it:

Is a chain-of-custody document used by industry and regulators to track each shipment of hazardous waste from the generator to designated facility. Generators receive a copy of the manifest returned by the designated facility to confirm receipt of shipment. Each waste handler involved in the shipment keeps a copy and thus can be held accountable for proper handling and shipment.

- Provides information requirements sufficient to allow the use of a manifest in lieu of a United States Department of Transportation (USDOT) shipping paper or bill of lading, thereby reducing the duplication of paperwork to the regulated community.
- Provides information to transporters and waste management facility workers on the hazardous properties of the waste. When a waste is received at the designated facility, fingerprint analyses are performed to ensure that the shipped wastes match the manifest (e.g., the facility may check for color, specific gravity, etc.). If a significant discrepancy between the waste and manifest is found, the designated facility needs to contact the generator to determine next steps (e.g., proper disposition of the waste). In this respect, the manifest facilitates the safe and proper handling, treatment, storage and disposal of the shipped wastes before and after designated facility acceptance.
- Informs emergency response teams of the waste's hazard in the event of an accident, spill, or leak.

- Can be used by regulators and the public to learn about shipments of hazardous wastes to and from generators and designated facilities. In addition, generators and designated facilities often use manifest data as an input into the development of the Biennial Reports, which are required under Parts 262, 264, and 265. These Biennial reports are made public by EPA.

### **3. USE OF TECHNOLOGY**

*Describe whether, and to what extent, the collection of information involves the use of automated, electronic, mechanical, or other technological collection techniques or other forms of information technology, e.g., permitting electronic submission of responses, and the basis for the decision for adopting this means of collection. Also describe any consideration of using information technology to reduce burden.*

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EPA collects paper-based manifests, which may be submitted as mailed paper copies, image files, or image files with data files. The data are stored in the system.

Under 40 CFR 262.21, EPA reviews applications from interested parties to print the hazardous waste manifest and continuation sheet for use and/or distribution. EPA first reviews an initial application describing the applicant and its printing capabilities. After the initial application is approved, EPA sends electronic files of the manifest and continuation sheet to the applicant and requests several form samples for evaluation. If the forms are satisfactory, EPA approves the applicant to produce the manifest. EPA maintains all approved applications on file.

In addition, waste handlers submit letters to EPA or authorized states when warranted (e.g., exception or discrepancy reports). EPA and the states review the reports to understand the situation, take follow up action as needed, and keep records.

#### e-Manifest System Flexibility

The e-Manifest system is designed to maximize flexibility for both large and small entities. For example, the system offers various methods to simplify the process of preparing and transmitting the electronic manifest. This includes, for example, allowing a generator to sign and keep a paper copy of the manifest, while allowing the transporter and designated facility to transact the manifest electronically for the shipment (see section 262.24(c)(1)). This allows the generator to participate in the e-Manifest system without having to comply with electronic signature requirements. Entities are able to choose the method that best suits their needs and capabilities. In addition, the e-Manifest is optional. Entities need not use the e-Manifest system to prepare and transmit the manifest if they do not want to.

### **4. EFFORTS TO IDENTIFY DUPLICATION**

*Describe efforts to identify duplication. Show specifically why any similar information already available cannot be used or modified for use for the purposes described in Item 2 above.*

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No document identical or similar in purpose to the manifest is required by the federal government for the shipment of RCRA hazardous waste. Although a USDOT hazardous materials shipping paper contains most of the information contained on the manifest, it does not appear to be legally sufficient to track hazardous waste shipments from the generator to the designated facility (i.e. from “cradle-to-grave”). For example, USDOT’s shipping paper does not require EPA ID numbers and signatures of the

transporters and all other chain-of-custody entities involved in shipping or handling the hazardous waste. EPA requires such signatures and identification numbers on the manifest to ensure accountability of each waste handler during shipment of the hazardous waste. Also, since EPA coordinated the development of the manifest with USDOT, the manifest form can be used as a USDOT shipping paper, thus eliminating the need for the transporter to carry both documents. Furthermore, the manifest form was developed as a means of standardizing the information requirements, both federal and state, thereby eliminating the need for a generator to complete and a transporter to carry multiple manifests for interstate shipments.

## **5. MINIMIZING BURDEN ON SMALL BUSINESSES AND SMALL ENTITIES**

*If the collection of information impacts small businesses or other small entities, describe any methods used to minimize burden.*

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The current regulations require both large and small quantity generators of hazardous waste to use the manifest to track shipments of hazardous waste. However, the Agency has found that most small businesses do not generate hazardous waste either at all or in large enough quantities to make them subject to regulation and, therefore, are not affected by the manifest requirements. Some waste types (e.g., universal wastes) and classes of waste handlers are exempt from the manifest regulations.

Following are some provisions that benefit both small and large waste handlers.

### **(1) Contractual Reclamation Agreements**

A small quantity generator (SQG) is exempt from the manifest requirements when his hazardous waste is reclaimed under a contractual agreement and he complies with limited requirements, including recordkeeping of the contractual agreement, as required by 40 CFR 262.20(e)(2).

### **(2) Exception Reports**

The exception report requirements under 40 CFR 262.42 for SQGs are less stringent than those for large quantity generators (LQGs). A SQG is only required to submit to EPA a legible copy of the manifest with some indication he/she has not received confirmation of delivery and has 60 days to fulfill this requirement. LQGs, on the other hand, are required to contact the transporter or facility owner/operator if he/she has not received a copy of the manifest within 35 days. In addition, if 45 days have passed and the LQG still has not received a signed copy of the manifest, he/she must submit a copy of the manifest as well as a cover letter explaining the generator's efforts to locate the hazardous waste. Hence, the exception report requirements for SQGs are not as burdensome.

## **6. CONSEQUENCES OF LESS FREQUENT COLLECTION**

*Describe the consequence to Federal program or policy activities if the collection is not conducted or is conducted less frequently, as well as any technical or legal obstacles to reducing burden.*

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Since the manifest is required to accompany all shipments of hazardous waste when shipped offsite by the generator, less frequent preparation is not possible. The frequency of offsite shipment is determined by the generator and depends on: (1) the quantities of waste to be shipped as they impact the economies of shipment; (2) transporter scheduling; and (3) the applicable regulatory requirements. The present system gives the generator the opportunity to maximize the economies of offsite shipments by

selecting a shipping frequency that is appropriate for the rate of waste generation. Further, by requiring a manifest to accompany each shipment, EPA ensures the manifest is available in the case of a discharge of hazardous waste during transportation. Information on the manifest could be useful to emergency response personnel responding to the scene. In this regard, less frequent manifesting could result in a less expedient or protective response to the release.

## **7. GENERAL GUIDELINES**

*Explain any special circumstances that require the collection to be conducted in a manner inconsistent with OMB guidelines.*

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The information collection is consistent with the guidelines set forth in 5 CFR 1320(d)(2) of the Paperwork Reduction Act guidelines.

## **8. PUBLIC COMMENT**

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### **8a. Public Comment**

*If applicable, provide a copy and identify the date and page number of publication in the Federal Register of the Agency's notice, required by 5 CFR 1320.8(d), soliciting comments on the information collection prior to submission to OMB. Summarize public comments received in response to that notice and describe actions taken by the Agency in response to these comments. Specifically address comments received on cost and hour burden.*

In compliance with the Paperwork Reduction Act of 1995, EPA is soliciting public comments on the information collection requirements covered in this ICR through the proposed rule's announcement in the *Federal Register*, (87 FR 19290). At the end of the comment period, EPA will summarize public comments received on the information collection burden estimates and assumptions and describe how the comments were considered in developing the ICR for the final rule.

## **9. PAYMENTS OR GIFTS TO RESPONDENTS**

*Explain any decisions to provide payments or gifts to respondents, other than remuneration of contractors or grantees.*

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Aside from the federal financial assistance awarded to successful applicants, no payments or gifts are provided to respondents.

## **10. ASSURANCE OF CONFIDENTIALITY**

*Describe any assurance of confidentiality provided to respondents and the basis for the assurance in statute, regulation, or Agency policy. If the collection requires a systems of records notice (SORN) or privacy impact assessment (PIA), those should be cited and described here.*

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Section 3007(b) of RCRA and 40 CFR Part 2, Subpart B, which define EPA's general policy on the public disclosure of information, contain provisions for confidentiality. In addition, 40 CFR 260.2(a), which was amended by the final e-Manifest rule, provides that any information provided to EPA under 40 CFR Parts 260 through 266 and 268 will be made available to the public to the extent and in the manner authorized by the Freedom of Information Act, 5 U.S.C. section 552, section 3007(b) of RCRA and EPA regulations implementing the Freedom of Information Act and section 3007(b), and Part 2, as applicable.

40 CFR 260.2(b) provides that, except as provided under section 260.2(c) and (d), any person who submits information to EPA in accordance with parts 260 through 266 and 268 may assert a claim of business confidentiality covering part or all of that information by following the procedures set forth in section 2.203(b). Information covered by such a claim will be disclosed by EPA only to the extent, and by means of the procedures, set forth in part 2, Subpart B.

Section 260.2(c) clarifies that no claim of 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 section 262.20(a)(3). EPA will make any electronic manifest that is prepared and used in accordance with section 262.20(a)(3), or any paper manifest that is submitted to the system under sections 264.71(a)(6) or 265.71(a)(6) available to the public when the electronic or paper manifest is a complete and final document. Electronic manifests and paper manifests submitted to the system are considered by EPA 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.

## **11. JUSTIFICATION FOR SENSITIVE QUESTIONS**

*Provide additional justification for any questions of a sensitive nature, such as sexual behavior and attitudes, religious beliefs, and other matters that are commonly considered private. This justification should include the reasons why the Agency considers the questions necessary, the specific uses to be made of the information, the explanation to be given to persons from whom the information is requested, and any steps to be taken to obtain their consent.*

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Questions about sensitive issues that are normally considered private (e.g., religious beliefs, sexual attitudes, and behavior) will not be included in the information collections covered by this ICR.

## **12. RESPONDENT BURDEN HOURS & LABOR COSTS**

*Provide estimates of the hour burden of the collection of information. The statement should:*

- *Indicate the number of respondents, frequency of response, annual hour burden, and an explanation of how the burden was estimated. Generally, estimates should not include burden hours for customary and usual business practices.*
  - *If this request for approval covers more than one form, provide separate hour burden estimates for each form and the aggregate the hour burdens.*
  - *Provide estimates of annualized cost to respondents for the hour burdens for collections of information, identifying and using appropriate wage rate categories. The cost of contracting out or paying outside parties for information collection activities should not be included here. Instead, this cost should be included as O&M costs under non-labor costs covered under question 13.*
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### **12a. Respondents/NAICS Codes**

Following are the Standard Industrial Classification (SIC) codes and the North American Industry Classification System (NAICS) codes of facilities most likely subject to the requirements in this ICR.

Industrial Sector	SIC Code(s)	NAICS Code(s)
Agriculture, Forestry, Fishing, and Hunting	01-09	11
Mining	10-14	21
Utilities	49	22
Construction	15-17	23
Manufacturing	20-39	31-33
Wholesale Trade	50-51	42
Retail Trade	52-59	44-45
Transportation and Warehousing	40-47	48-49
Information	27, 48, 73 (partial), 78	51
Waste Management & Remediation Services	1799, 4953, 4959	562
Public Administration	91-97	92

### 12b. Information Requested and Respondent Activities

This ICR estimates the burden for generators and other waste handlers to use *paper manifests for federal hazardous waste*. The ICR does not estimate the burden to waste handlers for *paper manifest cycles involving state hazardous waste*.<sup>1,2,3</sup> On the other hand, this ICR estimates facility burden to submit copies and pay fees for these forms.

<sup>1</sup> The e-Manifest Act extends the scope of the e-Manifest program to wastes subject to manifest tracking under federal and state law.

<sup>2</sup> For purposes of this ICR, “state hazardous waste” includes waste types regulated as hazardous by a state but not the federal program. It also includes hazardous wastes that are exempt from federal RCRA manifest requirements but subject to a state’s manifest requirements.

<sup>3</sup> 5 CFR 1320.3(b)(3) provides that a “collection of information conducted or sponsored by a federal agency that is also conducted or sponsored by a unit of state, local, or tribal government is presumed to impose a federal burden except to the extent that the agency shows that such state, local, or tribal requirement would be imposed even in the absence of a federal requirement.” This provision applies to the paper manifesting of state hazardous waste because such manifesting is occurring under broader-in-scope state programs in the absence of federal requirements to do so.

In addition, this ICR estimates the burden for generators and others to participate in the *electronic manifest cycle for federal and state hazardous waste*. It also estimates facility burden to pay fees.

Table 7 summarizes the annual number of respondent activities as broken down by manifests: domestic, export, and import. There is a detailed description of these activities in Tables 1, 2, 3, 4, 5, and 6 in the **Appendices** section of this Supporting Statement Part A.

**Table 7**  
**Annual Number of Manifests: \*Domestic, Export and Import Shipments**

Shipment/Manifest Type	Federal	State	Total
<b>Domestic</b>			
Paper	1,083,888	609,687	1,693,575
Electronic	69,185	38,916	108,101
Total	1,153,073	648,604	1,801,677
<b>Exports</b>			
Paper	15,026	8,452	23,478
Electronic**	959	539	1,499
Total	15,985	8,991	24,976
<b>Imports</b>			
Paper	1,398	786	2,184
Electronic	89	50	139
Total	1,487	836	2,323

\* Import and export manifests were estimated based on analysis of data from the e-Manifest system for 2020 and EPA Annual Export Report for 2020, respectively.

Table 7 presents the manifest counts in Table 6 according to the type of shipment, i.e., domestic, export, or import. For example, Table 7 shows that, of the 1,100,312 paper manifests accompanying federal hazardous waste in Table 6, 1,083,888 forms accompany domestic shipments, 15,026 accompany exports, and 1,398 accompany imports.

Most information collections in this ICR do not require collection by EPA more frequently than quarterly, except for receiving facilities which are required to submit manifest data to the national system. 40 CFR 264.71(a)(2)(v) and 265.71(a)(2)(v) require that, within 30 days of delivery of a shipment, the receiving facility must send a copy of the paper manifest to the e-Manifest system. These provisions were established in accordance with section 2(g)(1)(B) of the Hazardous Waste Electronic Manifest Establishment Act, which authorizes EPA to collect for data processing purposes any paper manifests that continue in use after the implementation of electronic manifests, so that there will be one unified

data system managing the data from both electronic and paper manifests. Under these provisions, a facility that receives shipments each month will be required to submit manifests on a monthly basis. EPA believes this collection schedule is necessary for several reasons (e.g., to allow for the prompt collection of fees).

There is a detailed description of the information requested and respondent activities in the **Appendices** section of this Supporting Statement Part A.

### **12c. Respondent Burden Hours and Labor Costs**

EPA estimates an average hourly respondent labor cost (\$2020) of \$114.57/hour for legal staff, \$97.01/hour for managerial staff, \$40.03/hour for technical staff, and \$34.23/hour for clerical staff. To derive these hourly estimates, EPA referred to the *May 2019 National Occupational Employment and Wage Estimates* published by the U.S. Bureau of Labor Statistics.<sup>4</sup> This publication summarizes the unloaded (base) hourly rate for major occupational groups.<sup>5</sup> EPA then applied the standard government overhead factor of 1.6 to the unloaded rate to derive loaded hourly rates. Finally, EPA updated the loaded hourly rates to March 2020 levels using Employment Cost Indexes developed by the U.S. Bureau of Labor Statistics.<sup>6</sup>

### **13. RESPONDENT CAPITAL AND O&M COSTS**

*Provide an estimate for the total annual cost burden to respondents or record keepers resulting from the collection of information. (Do not include the cost of any hour burden already reflected on the burden worksheet).*

*The cost estimate should be split into two components: (a) a total capital and start-up cost component (annualized over its expected useful life) and (b) a total operation and maintenance and purchase of services component. The estimates should consider costs associated with generating, maintaining, and disclosing or providing the information. Include descriptions of methods used to estimate major cost factors including system and technology acquisition, expected useful life of capital equipment, the discount rate(s), and the period over which costs will be incurred. Capital and start-up costs include, among other items, preparations for collecting information such as purchasing computers and software; monitoring, sampling, drilling, and testing equipment; and record storage facilities. If cost estimates are expected to vary widely, agencies should present ranges of cost burdens and explain the reasons for the variance. The cost of purchasing or contracting out information collections services should be a part of this cost burden estimate.*

*Generally, estimates should not include purchases of equipment or services, or portions thereof, made: (1) prior to October 1, 1995, (2) to achieve regulatory compliance with requirements not associated with*

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<sup>4</sup> U.S. Bureau of Labor Statistics (BLS), Occupational Employment Statistics (OES), *May 2019 National Occupational Employment and Wage Estimates United States*. Available online at: [https://www.bls.gov/oes/current/oes\\_nat.htm](https://www.bls.gov/oes/current/oes_nat.htm). The May 2019 Occupational Employment Statistics data were released on March 31, 2020.

<sup>5</sup> For purposes of this analysis, the following occupational groups of the U.S. Bureau of Labor Statistics (BLS) were used: Legal staff, SOC 23-1011, Lawyers; managerial staff, BLS SOC Code 11-1021, General and Operations Managers; technical staff, BLS SOC Code 19-4042, Environmental Science and Protection Technicians, including Health; and clerical staff, BLS SOC Code 43-6010, Secretaries and Administrative Assistants.

<sup>6</sup> Bureau of Labor Statistics, *Economic News Release*, "Table 2. Seasonally adjusted: Employment Cost Index for wages and salaries, by ownership, occupational group, and industry." Available online at: <https://www.bls.gov/news.release/eci.t02.htm>.

the information collection, (3) for reasons other than to provide information or keep records for the government, or (4) as part of customary and usual business or private practices.

## Exhibit 22 Total Annual Agency Hour and Cost Burden

EXHIBIT 23  
TOTAL ANNUAL AGENCY HOUR AND COST BURDEN\*

	Hours per Agency Respondent					Hours/ Respondent	Labor Cost/ Respondent	Capital Costs/ Respondent	O&M Costs/ Respondent	Number of Activities	Total Hours	Total Cost
	Legal @ \$93.84/hr	Managerial @ \$78.42/hr	Technical @ \$57.49/hr	Clerical @ \$23.09/hr	Contractor @ \$160.00/hr							
<b>Registrant Organizations</b>												
<b>Applying to the registry</b>												
Review initial application	0.00	0.10	0.40	0.00	0.00	0.50	\$30.84	\$0.00	\$0.00	1	1	\$31
Notify registrant of EPA's decision regarding its application	0.00	0.00	0.00	0.10	0.00	0.10	\$2.31	\$0.00	\$0.61	1	0	\$3
Review revised application	0.00	0.10	0.40	0.00	0.00	0.50	\$30.84	\$0.00	\$0.00	1	1	\$31
If application is approved, provide electronic file of the manifest, continuation sheet, and manifest instructions to approved registrant and request manifest form samples	0.00	0.00	0.00	0.10	0.00	0.10	\$2.31	\$0.00	\$5.31	4	0	\$30
Evaluate manifest form samples	0.00	0.10	0.40	0.00	0.00	0.50	\$30.84	\$0.00	\$0.00	4	2	\$123
Notify registrant of EPA's decision regarding its manifest form samples	0.00	0.00	0.00	0.10	0.00	0.10	\$2.31	\$0.00	\$0.61	4	0	\$11
Evaluate revised manifest form samples	0.00	0.10	0.40	0.00	0.00	0.50	\$30.84	\$0.00	\$0.00	2	1	\$62
<b>Updating General Information in the Approved Application</b>												
Review revised application	0.00	0.10	0.40	0.00	0.00	0.50	\$30.84	\$0.00	\$0.00	3	2	\$93
Review documentation submitted by registrant	0.00	0.10	0.40	0.00	0.00	0.50	\$30.84	\$0.00	\$0.00	1	1	\$31
<b>Requesting Approval for a New Tracking Number Suffix</b>												
Provide new tracking number suffix to registrant	0.00	0.10	0.25	0.10	0.00	0.45	\$24.52	\$0.00	\$0.61	0	0	\$0
<b>Requesting Approval for Changes to Printing Specifications or Use of a New Printer</b>												
Evaluate manifest form samples	0.00	0.10	0.40	0.00	0.00	0.50	\$30.84	\$0.00	\$0.00	1	1	\$31
Evaluate revised manifest form samples	0.00	0.10	0.40	0.00	0.00	0.50	\$30.84	\$0.00	\$0.00	1	1	\$31
Typesetting the Manifest Form Subsequent to its Approval	0.00	0.10	0.40	0.00	0.00	0.50	\$30.84	\$0.00	\$0.00	0	0	\$0
Evaluate manifest form samples	0.00	0.10	0.40	0.00	0.00	0.50	\$30.84	\$0.00	\$0.00	0	0	\$0
<b>Requesting an Exemption</b>												
Review documentation submitted by registrant	0.00	0.10	0.40	0.00	0.00	0.50	\$30.84	\$0.00	\$0.00	0	0	\$0
<b>Notifying EPA of a Printing Specification Violation</b>												
Receive notification that a serious violation of a printing specification	0.00	0.20	0.80	0.00	0.00	1.00	\$61.67	\$0.00	\$0.00	1	1	\$62
Reviewing the Approved Manifest if Requested by EPA	0.00	0.10	0.40	0.00	0.00	0.50	\$30.84	\$0.00	\$0.00	0	0	\$0
Evaluate revised manifest form samples	0.00	0.10	0.40	0.00	0.00	0.50	\$30.84	\$0.00	\$0.00	0	0	\$0
<b>Responding to Suspension and Revocation Procedures</b>												
Review documentation submitted by registrant	0.00	0.10	0.40	0.00	0.00	0.50	\$30.84	\$0.00	\$0.00	0	0	\$0

EXHIBIT 23 (CONTINUED)  
TOTAL ANNUAL AGENCY HOUR AND COST BURDEN\*

	Hours per Agency Respondent					Hours/ Respondent	Labor Cost/ Respondent	Capital Costs/ Respondent	O&M Costs/ Respondent	Number of Activities	Total Hours	Total Cost
	Legal @ \$93.84/hr	Managerial @ \$78.42/hr	Technical @ \$57.49/hr	Clerical @ \$23.09/hr	Contractor @ \$160.00/hr							
<b>e-Manifest System</b>												
Design, operate and maintain e-Manifest system	1,040.00	6,240.00	12,480.00	1,040.00	48,500.00	69,300.00	\$9,077,971.20	\$9,000,000.00	\$9,000,000.00	1	69,300	\$27,077,971
<b>For Generators</b>												
Exception report												
Review exception reports: LQCS	0.00	0.10	0.40	0.00	0.00	0.50	\$30.84	\$0.00	\$0.00	790	395	\$24,354
Review exception reports: SQCS	0.00	0.10	0.40	0.00	0.00	0.50	\$30.84	\$0.00	\$0.00	292	146	\$9,005
<b>For Transporters</b>												
Notification of discharge												
Review notifications of discharge	0.00	0.20	0.80	0.00	0.00	1.00	\$61.67	\$0.00	\$0.00	75	75	\$4,625
<b>For Designated Facilities</b>												
Discrepancy report												
Review designated facility discrepancy reports	0.00	0.10	0.40	0.00	0.00	0.50	\$30.84	\$0.00	\$0.00	26,923	13,462	\$830,305
Unmanifested waste report	0.00	0.10	0.40	0.00	0.00	0.50	\$30.84	\$0.00	\$0.00	119	60	\$3,681
Review designated facility unmanifested waste reports	0.00	0.10	0.40	0.00	0.00	0.50	\$30.84	\$0.00	\$0.00	119	60	\$3,681
<b>TOTAL AGENCY</b>	<b>0.00</b>	<b>varies</b>	<b>varies</b>	<b>varies</b>	<b>varies</b>	<b>varies</b>	<b>varies</b>	<b>varies</b>	<b>varies</b>	<b>varies</b>	<b>83,449</b>	<b>\$27,950,490</b>

\* Exhibit contains rounding error.

## Capital Costs

Capital costs usually include any produced physical good needed to provide the needed information, such as machinery, computers, and other equipment. For this ICR, capital costs include file cabinet costs.<sup>7</sup> As shown in Exhibit 22, EPA estimates the total average annual capital cost to all hazardous waste handlers under the manifest system, collectively, to be \$63,125. EPA took the following steps to derive the capital costs associated with the purchase of file cabinets:

1. Estimate the total annual volume of paper manifests required to be retained by all waste handlers. Under the manifest system, generators, transporters, and designated TSDF/receiving facilities must keep copies of paper manifests for a period of 3 years. Thus, at any given time during the effective period of this ICR, the hazardous waste industry is keeping paper copies of 3 years' worth of manifests for domestic, import, and export shipments (except that designated TSDFs in the U.S. do not receive or retain manifests for exports). In total, EPA estimates that waste handlers (i.e., generators, transporters, and

<sup>7</sup> The Regulatory Impact Analysis titled, "EPA's 2017 Final Rule - Establishing User Fees for the RCRA Electronic Hazardous Waste Manifest System (e-Manifest)," dated June 2017, states that, under certain specifications of the e-Manifest system, industry entities may need to invest in internal system upgrades or hardware in order to use the e-Manifest system. These types of upgrades may range from programming to align existing proprietary systems with the e-Manifest system to a requirement to purchase smartphones or tablets in order to use the e-Manifest system at the point of waste transfer, or while the waste is in transit. The RIA assumes that the e-Manifest system implemented under the rule will not require any such investment in either hardware or software by firms or facilities in the hazardous waste industry. See Section 5.4.3 of the RIA for additional information.

designated TSDF/receiving facilities) will need to keep copies of 8,639,725 manifests annually.

2. *Ascertain the number of standard-size file cabinets that would provide the needed capacity and estimate aggregate cost to waste handlers.* EPA estimates that a standard-size, 5-drawer, lateral file cabinet holds approximately 16,000 documents. Thus, for storing 8,639,725 paper manifests, waste handlers would need 540 file cabinets each year. These 540 file cabinets represent the total capacity needed by the industry, collectively, to store all of its paper manifests. EPA estimates that the cost for one file cabinet is \$630<sup>8</sup> and for all 540 file cabinets is \$340,200.

3. *Annualize the aggregate cost of standard-size file cabinets using a net present value formula.* EPA used the following present value formula to annualize the cost of file cabinets over the 3-year effective life of this ICR:

$$\text{Annualized Net Present Value} = \$340,200 \times [1/(\sum 1/(1+k)^t)]$$

where k = discount rate of 7%;  
t = life of equipment (7 years).<sup>9</sup>

In total, EPA estimates that the hazardous waste industry will need to pay an annual cost of \$63,125 for the 540 file cabinets.

#### Operation and Maintenance (O&M) Costs

O&M costs are those costs associated with a paperwork requirement incurred continually over the life of the ICR. They are defined by the Paperwork Reduction Act (PRA) of 1995 as “the recurring dollar amount of costs associated with O&M or purchasing services.” For this ICR, O&M costs include:

Printing cost for sample manifests: EPA estimates that respondents will incur a cost of \$1,125 for each set of manifest form samples. These respondents are expected to contract with a printing company. Hence, the fee of \$1,125 is considered a lump-sum cost. This O&M cost was obtained through limited consultations with registered printers in July 2020. See Section 3C of this document for additional information about the consultations.

Purchase blank paper manifest forms from EPA-registered printer: EPA estimates that respondents will incur a cost of \$0.61 for each blank paper manifest and \$0.61 for each blank paper continuation sheet they purchase from an EPA-registered printer<sup>10, 11</sup>

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<sup>8</sup> Standard-size, 5-drawer, lateral file cabinet cost based on current market price, as of July 2020 at: [https://www.digitalbuyer.com/global-1936p-5f12-3-drawer-36-wide-lateral-file-cabinet-letter-legal.html?msclkid=aaafd8fd20871fd83caba7e202738a97&utm\\_source=bing&utm\\_medium=cpc&utm\\_campaign=Shopping%20Campaign%20Manual&utm\\_term=1100505129115&utm\\_content=File%20Cabinets#1294=3369](https://www.digitalbuyer.com/global-1936p-5f12-3-drawer-36-wide-lateral-file-cabinet-letter-legal.html?msclkid=aaafd8fd20871fd83caba7e202738a97&utm_source=bing&utm_medium=cpc&utm_campaign=Shopping%20Campaign%20Manual&utm_term=1100505129115&utm_content=File%20Cabinets#1294=3369).

<sup>9</sup> Based on an OMB-approved discount rate of 7% (OMB Circular A-94).

<sup>10</sup> Uniform manifest form cost based on current market price for JJ Keller’s forms, as of July of 2020, at <https://www.jjkeller.com/shop/Product/Uniform-Hazardous-Waste-Manifest-Pin-Feed-Format>. Cost is based on an order of 500 forms.

<sup>11</sup> Continuation sheet cost based on current market price for JJ Keller’s forms, as of July 2020, at: <https://www.jjkeller.com/shop/Product/Uniform-Hazardous-Waste-Manifest-Pin-Feed-Format>. Cost is based on an order of 500 forms.

Photocopying costs: EPA estimates that respondents will incur a cost of \$0.10 for each photocopy they make.

Long distance telephone call costs: EPA estimates that respondents will incur a cost of \$2.00 for each long-distance telephone call they make.

O&M costs also include the fees assessed to manifest users. See subsection, “(d9) Fees for the Electronic Hazardous Waste Manifest Program,” in Section 6D of this document for additional information.

There is a detailed description of Estimating Respondent Hours and Costs in the **Appendices** section of this Supporting Statement Part A.

Exhibits 1 through 21 estimate the annual respondent burden for all activities related to the manifest system, as modified by the proposed rule. These are found in the **Appendices** section of this Supporting Statement Part A.

#### **14. AGENCY COSTS**

*Provide estimates of annualized costs to the Federal government. Also, provide a description of the method used to estimate cost, which should include quantification of hours, operational expenses (such as equipment, overhead, printing, and support staff), and any other expense that would not have been incurred without this collection of information.*

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##### **14a. Agency Labor Cost**

The hourly Agency labor rates used in this ICR were obtained from the 2020 Salary Tables for federal civilian employees, which are published by the Office of Personnel Management. EPA estimates an average hourly labor cost of \$83.84/hour for legal staff, \$78.42/hour for managerial staff, \$57.49/hour for technical staff, and \$23.09/hour for clerical staff. The labor costs are based on the following GS levels and steps: legal labor rates were based on GS Level 15, Step 1, managerial labor rates were based on GS Level 14, Step 4, technical labor rates were based on GS Level 12, Step 5, and clerical labor rates were based on GS Level 5, Step 1. To derive hourly estimates, EPA multiplied hourly rates by the standard government overhead factor of 1.6.

##### **14b. Agency Non-Labor Costs**

Table 8 presents preliminary annual capital and O&M cost estimates for the Agency to maintain, upgrade and operate the e-Manifest system over the next 3 years. These costs cover such elements as:

- System development;
- Operations & maintenance;
- Paper manifest processing labor and O&M;
- Call center;
- Billing;
- Additional program costs;
- Additional indirect costs; and
- Manifest processing costs.

**Table 8**  
**Annual Agency Costs for e-Manifest\***

Capital	\$9,000,000
O&M	\$9,000,000

\*The table shows preliminary estimates.

**15) REASONS FOR CHANGE IN BURDEN**

*Explain the reasons for any program changes or adjustments reported in the burden or capital/O&M cost estimates.*

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The burden to the overall collection of ICR 2050-0039 was increased by 96,479 annual hours and decreased by \$1,642,546 annual dollars by the changes outlined in this proposed rule.

**16) PUBLICATION OF DATA**

*For collections of information whose results will be published, outline plans for tabulation and publication. Address any complex analytical techniques that will be used. Provide the time schedule for the entire project, including beginning and ending dates of the collection of information, completion of report, publication dates, and other actions.*

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Results from this ICR are not published formally. They are used to calculate agency-level accomplishments and site-specific impacts on publicly available EPA websites.

**17) DISPLAY OF EXPIRATION DATE**

*If seeking approval to not display the expiration date for OMB approval of the information collection, explain the reasons that display would be inappropriate.*

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All instruments will display the expiration date for OMB approval of the information collection.

**18) CERTIFICATION STATEMENT**

*Explain each exception to the topics of the certification statement identified in “Certification for Paperwork Reduction Act Submissions.”*

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EPA does not seek any exceptions to the topics for the certification statement identified in the “Certification for Paperwork Reduction Act Submissions.”

## Appendices

### Tables 1, 2, 3, 4, 5, and 6 - Section 12b

Table 1 summarizes these scope issues for paper and electronic manifests accompanying federal and state hazardous waste.

**Table 1**  
**Scope of Burden Estimates in ICR**

Manifest Activities	Paper Manifests		Electronic Manifests	
	Federal Hazardous Waste	State Hazardous Waste	Federal Hazardous Waste	State Hazardous Waste
Participating in Manifest Cycle*	x		x	x
Submitting Copies to National System **	x	x		
Paying Fees**	x	x	x	x

\* This includes form completion, transmittal to industry third parties, and recordkeeping performed by generators, transporters, and TSDFs/receiving facilities.

\*\* This is performed by designated TSDFs/receiving facilities.

Beginning in April 2020, EPA reviewed data collected by the e-Manifest system to estimate the number of paper and electronic manifests prepared and offered into transportation annually as well as the number of waste handlers preparing and using these forms.<sup>12</sup> In addition, EPA incorporated feedback from its limited industry consultations performed for this ICR in July and August 2020.

This section first discusses EPA's estimated number of waste handlers who manifest federal and state hazardous waste, respectively. It then discusses the estimated number of manifests that are prepared and offered into transportation annually. These estimates form the basis for the burden estimates in this ICR.

#### Handlers who Manifest Federal Hazardous Waste

Based on e-Manifest data, EPA estimates the annual number of waste handlers that manifest federal hazardous waste, as shown in Table 2. In total, EPA estimates that 100,319 waste handlers will be involved in the shipment of federally regulated wastes using the federal manifest annually.

**Table 2**  
**Annual Number of Handlers that Manifest Federal Hazardous Waste**

Type of Waste Handler	Number of Facilities
Generators	97,694

<sup>12</sup> The e-Manifest system began operation on June 30, 2018. The e-Manifest is the repository of all paper and electronic manifests used for federal and state hazardous waste shipments.

Type of Waste Handler	Number of Facilities
Transporters	2,212
TSDFs – Receivers	413
<b>Total</b>	<b>100,319</b>

#### Handlers who Manifest State Hazardous Waste

Based on e-Manifest data, EPA estimates that 103,617 waste handlers will be involved in the shipment of state-only wastes using the federal manifest annually, as shown in Table 3.

**Table 3**  
**Annual Number of Handlers that Manifest State Hazardous Waste**

Type of Waste Handler	Number of Facilities
Generators	102,140*
Transporters	1,244
TSDFs – Receivers	233
<b>Total</b>	<b>103,617</b>

\*This includes both large and small quantity generators as well as very small quantity generators. Very small quantity generators are not subject to the federal manifest program. However, some states require them to manifest their waste under state-programs broader in scope or more stringent than the federal program.

#### Summary of Handlers who Manifest Federal and State Hazardous Waste

Table 4 presents the total annual number of handlers that manifest federal and state hazardous waste. Specifically, Table 4 combines the handler data in Table 2 (federal handlers) and Table 3 (state handlers) to estimate a total of 203,936 handlers.

**Table 4**  
**Annual Number of Handlers that Manifest Federal and State Hazardous Waste\***

Type of Waste Handler	Number of Facilities
Generators	199,834
Transporters	3,456
TSDFs – Receivers	646
<b>Total</b>	<b>203,936</b>

\*Table includes rounding.

Of these handlers, EPA estimates that, on average, 6% will use the e-Manifest to track shipments of federal and state hazardous waste using an electronic manifest during the 3-year period covered by this ICR.<sup>13</sup> This equates to 11,990 generators, 207 transporters and 39 designated TSDFs (i.e., 12,236 waste handlers).

**Annual Number of Manifests Offered into Transportation**

Based on its analysis of e-Manifest data, EPA estimates that 1,828,976 manifests are prepared and offered into transportation annually. This includes both paper and electronic manifests for domestic, import, and export shipments. It includes manifests accompanying federal hazardous waste, state-only hazardous waste covered under 40 CFR 260.5, and other regulated wastes whose manifest must be submitted to the e-Manifest (e.g., polychlorinated biphenyls regulated (PCBs) under 40 CFR Part 761).

EPA notes that the proposed rule revises 40 CFR 262.83(c) by adopting the existing manifest provisions at sections 262.20(a)(3) and 262.24 for electronic manifest use and the electronic signature requirements at section 262.25 for export manifests. This is reflected in the estimates presented in this section of the document.

Table 5 shows the annual adoption rate for waste handlers to prepare and use the electronic manifest to track hazardous waste shipments. During the three-year period covered in this ICR, EPA estimates that 6% of manifests will be prepared and transacted electronically and 94% will be prepared and transacted using the paper form, on average, annually.<sup>14</sup>

**Table 5  
Annual Adoption Rate for e-Manifest\***

Type of Manifest	Year 1	Year 2	Year 3	3-Year Average
Paper manifests	99.50%	99.50%	84.00%	94.00%
Electronic manifests	0.50%	0.50%	16.00%	6.00%

\* The 2022-2023 adoption rates are based on March 2021 background white paper from EPA’s Hazardous Waste e-Manifest Advisory Board, “Looking Ahead: Setting e-Manifest Program Priorities and User Fees for FY2022 and FY2023.”

This ICR estimates burden based primarily on the three activities shown below in accordance with the scope assumptions in Table 1. Table 6 presents the 3-year average number of manifests for each activity:

<sup>15</sup>

<sup>13</sup> Refer to Table 5 for EPA’s estimate of the adoption rate for electronic manifesting.

<sup>14</sup> The 2022-2023 adoption rates are based on March 2021 background white paper from EPA’s Hazardous Waste e-Manifest Advisory Board, “Looking Ahead: Setting e-Manifest Program Priorities and User Fees for FY2022 and FY2023.”

<sup>15</sup> See Table 1 and accompanying text for further discussion on how this table sums up paper and electronic manifest totals. Although this ICR uses the 3-year averages in this table as the basis for calculating many of its burden estimates, EPA further refines some of them when analyzing specific requirements based on additional assumptions as appropriate. Refer to Section 6D of this document for additional information.

- Participating in manifest cycle.<sup>16</sup> This ICR estimates burden to waste handlers for participating in paper manifest cycles for federal hazardous waste as well as electronic manifest cycles for federal and state hazardous waste. This equates to 1.210 million manifests on average annually.
- Submitting copies to national system. This ICR estimates burden to waste handlers for submitting all paper copies accompanying federal and state waste to the national system. This equates to 1.719 million manifests on average annually.
- Paying fees. This ICR estimates burden to waste handlers for paying fees for all manifests (paper and electronic) accompanying federal and state waste. This equates to 1.829 million manifests on average annually.

**Table 6**  
**3-Year Average Annual Number of Manifests in this ICR\***

Total Manifest Activities	No. of Paper Manifests		No. of Electronic Manifests (Federal and State)**			Total Manifests
	Federal Hazardous Waste	State Hazardous Waste	QuickSign	PIN/Password	Digitized Electronic Signature	
Participating in Manifest Cycle***	1,100,312	--	109,739	--	--	1,210,051
Submitting Copies to National System****	1,100,312	618,925	--	--	--	1,719,237
Paying Fees****	1,100,312	618,925	109,739	--	--	1,828,976

\* See Table 1 and accompanying text for further discussion on how this table sums up paper and electronic manifest totals. This table includes rounding error. Some of the numbers in this table are further refined based on additional assumptions presented later in this document. See Section 6D. Estimates are based on e-Manifest data.

\*\* EPA estimates that QuickSign will be used for all electronic manifests during the 3 years of this ICR.

\*\*\* This includes form completion, transmittal to industry third parties, and recordkeeping by generators, transporters and TSDFs/receiving facilities. This ICR does not estimate burden for paper manifests accompanying state hazardous waste during the manifest cycle.

\*\*\*\* This is performed by designated TSDFs/receiving facilities.

<sup>16</sup> This includes form completion, transmittal to industry third parties, and recordkeeping performed by generators, transporters and TSDFs/receiving facilities.

## **Information Requested and Respondent Activities – Section 12b**

This section presents information collection requirements in the existing manifest regulations, as modified by the proposed rule.

There are 4 categories of respondents that would perform these requirements, described below. This section describes the requirements that apply to each category.

Manifest printer registrant organizations – organizations that apply to EPA for approval to produce the paper manifest for use and distribution.

Hazardous waste generators – sites that generate hazardous waste and ship it offsite.

Hazardous waste transporters – entities that transport hazardous waste on public roads.

Designated (receiving) facilities – facilities that receive offsite shipments for management and disposal.<sup>17</sup> Note that, normally, these facilities also generate hazardous waste and therefore qualify as hazardous waste generators.

The respondents in each category are expected to read the manifest regulations and, for electronic manifests, the e-Manifest User Guide each year.

### **Manifest Printer Registrant Organizations**

#### **(a) Applying to the Registry**

40 CFR 262.21(a) provides that a person may not print the manifest for use or distribution unless his/her organization (e.g., company, state agency) has received approval from EPA to do so under 40 CFR 262.21(c) and (e). In order to receive EPA approval, a registrant must submit to EPA an application that contains the information specified in 40 CFR 262.21(b). Upon EPA approval of the application, the registrant must submit 3 fully assembled manifests and, if needed, continuation sheets that meet the specifications of 40 CFR 262.21(f) and a description of the form samples, as specified in 40 CFR 262.21(d). In reviewing these submittals, EPA may request modification to them before approval.

Under the proposed rule, existing registrants will be required to submit 3 fully assembled manifests and, if needed, continuation sheets that meet the specifications of 40 CFR 262.21(f) and a description of the form samples, as specified in 40 CFR 262.21(d).

#### Data Items

An application to the Registry.

Three fully assembled manifests and, if needed, continuation sheets.

A description of the manifest samples.

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<sup>17</sup> The final fee rule applies to RCRA Subtitle C TSDFs as well as non-Subtitle C facilities as specified. For purposes of organization and clarity, the requirements applicable to Subtitle C and non-Subtitle C facilities are addressed together in this section.

### Respondent Activities

Prepare and submit initial application.

Submit revised initial application to EPA, if requested.

Submit 3 fully assembled manifests and, if needed, continuation sheets and a description of the form samples.

Submit revised form samples based on EPA comment on the initial samples, if requested.

#### (b) Updating General Information in the Approved Application

40 CFR 262.21(h)(1) provides that, if an approved registrant would like to update any of the information provided in its application (e.g., to update a company phone number or name of contact person), the registrant must revise the application and submit it to EPA, along with an indication or explanation of the update, as soon as practicable after the change occurs. EPA will review and either approve or deny the revision. If the revision is denied, the registrant must respond to the Agency's concerns.

### Data Item

Revised application, along with an indication or explanation of the update.

### Respondent Activities

Revise and submit the application to EPA, along with an indication or explanation of the update. Respond to the Agency's concerns, if applicable.

#### (c) Requesting Approval for a New Tracking Number Suffix

40 CFR 262.21(h)(2) provides that, if an approved registrant would like a new tracking number suffix, the registrant must submit a proposed suffix to EPA, along with the reason for requesting it.

### Data Item

Proposed tracking number suffix, along with the reason for requesting it.

### Respondent Activity

Submit a proposed tracking number suffix, along with the reason for requesting it.

#### (d) Requesting Approval for Changes to Printing Specifications or Use of a New Printer

40 CFR 262.21(h)(3) provides that, 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 40 CFR 262.21(e), then the registrant must submit 3 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 3 manifest samples printed by the new printer, along with a brief description of the printer's qualifications to print the manifest. In reviewing these submittals, EPA may request modification to them before approval.

### Data Items

Three samples of the manifest form and/or continuation sheet.  
A brief description of the qualifications of the new printer, if applicable.

### Respondent Activities

Submit 3 samples of the manifest form and/or continuation sheet and, if applicable, a brief description of the qualifications of the new printer.  
Submit revised manifest form and/or continuation sheet samples to EPA, if requested.

#### (e) Typesetting the Manifest Form Subsequent to its Approval

40 CFR 262.21(i) provides that, if subsequent to its approval under 40 CFR 262.21(e), a registrant typesets its manifest or continuation sheet instead of using the electronic file of the forms provided by EPA, it must submit 3 samples of the manifest or continuation sheet to the registry for approval. The registrant cannot use or distribute its typeset forms until EPA approves them.

### Data Item

Three samples of the manifest or continuation sheet.

### Respondent Activity

Submit 3 samples of the manifest or continuation sheet to the registry for approval.

#### (f) Requesting an Exemption

40 CFR 262.21(j) provides that EPA may exempt a registrant from the requirement to submit form samples under 40 CFR 262.21(d) or 262.21(h)(3) 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.

### Data Item

Documentation indicating why an exemption is warranted.

### Respondent Activity

Submit documentation to EPA indicating why an exemption is warranted.

#### (g) Notifying EPA of a Printing Specification Violation

40 CFR 262.21(k) requires an approved registrant to notify EPA by phone or email as soon as it becomes aware that it has used or distributed manifests that contain duplicated manifest tracking numbers.

Data Item

Notification of duplicated manifest tracking numbers.

Respondent Activity

Notify EPA of duplicated manifest tracking numbers.

(h) Revising the Approved Manifest if Requested by EPA

40 CFR 262.21(l) provides that, if, subsequent to approval of a registrant under 40 CFR 262.21(e), EPA becomes aware that the registrant's approved form does not satisfactorily meet the print specifications in 40 CFR 262.21(f), EPA will contact the registrant and require modifications to the form.

Data Item

Revised manifest form samples.

Respondent Activity

Submit revised manifest form samples to EPA, if requested.

(i) Responding to Suspension and Revocation Procedures

40 CFR 262.21(m) provides that EPA may suspend and, if necessary, revoke printing privileges if it finds that the registrant: (i) has deviated from its application approved under 40 CFR 262.21(c) in printing the form; (ii) has knowingly 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 (iii) exhibits a continuing pattern of behavior in using or distributing manifests that contain duplicate manifest tracking numbers. 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.

Data Item

Information requested by EPA.

Respondent Activity

Submit information if requested by EPA.

**Hazardous Waste Generators**

(a) Manifest Completion

40 CFR 262.20(a)(1) requires generators who transport, or offer for transport a hazardous waste for offsite treatment, storage, or disposal, or a treatment, storage, or disposal facility who offers for

transport a rejected hazardous waste load, to prepare a manifest (OMB Control number 2050-0039) on EPA Form 8700-22, and, if necessary, EPA Form 8700-22A. Section 262.20(a)(3) provides that, in lieu of using the manifest form specified in section 262.20(a)(1), a person required to prepare a manifest under section 262.20(a)(1) may prepare and use an electronic manifest, provided that the person complies with the requirements in section 262.24 for use of electronic manifests, and the requirements of 40 CFR 3.10 for the reporting of electronic documents to EPA.

Section 262.20(b) provides that a generator must designate on the manifest one facility which is permitted to handle the waste described on the manifest. Section 262.20(c) provides that 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.

In addition, 40 CFR 262.83(c) and 262.84(c) establish special manifesting completion requirements for hazardous waste exporters and importers, respectively, and state that they are also subject to the manifest requirements of Part 262 as applicable. [Note: In regard to exporters and importers, this ICR addresses the manifest requirements applicable to their manifests under Part 262, Subpart B as well as the requirements of sections 262.83(c) and 262.84(c) which are found in Part 262, Subpart H. The ICR, "Hazardous Waste Generator Standards" (EPA ICR Number 820, OMB Control 2050-0035), addresses the other Subpart H requirements applicable to exporters and importers. Throughout this Manifest ICR, EPA uses the term "generator" to apply to any person who is required to prepare a manifest for a domestic, export or import shipment.]

Generators completing paper and electronic manifests must comply with all other manifest requirements of Part 262 as applicable, including sections 262.22, 262.23, 262.24, 262.25, and 262.27 as well as the instructions associated with the manifest and continuation sheet.

40 CFR 262.24 establishes the legal equivalence of the e-Manifest to the paper manifest. It provides that electronic manifests that are obtained, completed, and transmitted in accordance with section 262.20(a)(3), and used in accordance with section 262.24 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. It also addresses other issues related to e-Manifests (e.g., requirements for a printed copy of the manifest). [Note: Refer to "Use of the Electronic Manifest" in this section for additional information.]

#### Data Items

Paper or electronic manifest and, if needed, continuation sheet.

#### Respondent Activities

#### **Paper Manifest**

Generators must perform the following:

- Complete the manifest for domestic, export, and import shipments; and
- Complete continuation sheet, if required.

## **Electronic Manifest**

- Generators must perform the above activities for completing the electronic manifest.
- (b) Compliance with State Program Requirements

Under 40 CFR 262.21(g)(2), generators must determine whether the consignment state regulates any additional wastes (beyond those regulated federally) as hazardous wastes under its state hazardous waste program. Generators must also determine whether the consignment state or generator state requires the generator to submit any copies of the manifest to these states.

### Data Item

Information provided by the state on its manifest program.

### Respondent Activities

Generators must contact the consignment/generator state if needed and submit any copies of the manifest to these states, as applicable.

- (c) Manifest Transmittal and Recordkeeping

Under the existing manifest regulations, generators must transmit and keep records of the manifest in accordance with 40 CFR 262.23, 262.40, 262.44, 262.83(c) and 262.84(c) as appropriate. A generator must sign, date and give copies of the manifest to the transporter along with the hazardous and retain copies of the manifest. For shipments of hazardous waste within the US solely by water (bulk shipments only), the generator, as required by 40 CFR 262.23(c), must send 3 copies of the manifest to the owner/operator of the designated facility or the last water transporter to handle the waste in the US if exported by water. For rail shipments of hazardous waste within the US which originate at the site of generation, the generator, as required under 40 CFR 262.23(d), must send at least 3 copies of the manifest to the next non-rail transporter, the designated facility, or the last rail transporter to handle the waste in the US if exported by rail. 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, as required under 40 CFR 262.23(e). In addition, 40 CFR 262.84(c)(4) requires the importer to provide the transporter with an additional copy of the manifest to be submitted by the receiving facility to U.S. EPA in accordance with 40 CFR 264.71(a)(3) and 265.71(a)(3).

In the event a small quantity generator's (SQG's) waste is reclaimed under a contractual agreement pursuant to 40 CFR 262.20(e)(1), the SQG must retain the reclamation agreement for at least 3 years from the date of termination or expiration of the agreement, as required by 40 CFR 262.20(e)(2).

40 CFR 262.24 establishes the legal equivalence of the e-Manifest to the paper manifest. It provides that electronic manifests that are obtained, completed, and transmitted in accordance with section 262.20(a)(3), and used in accordance with section 262.24 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. It also

addresses other issues related to e-Manifests (e.g., requirements for a printed copy of the manifest). Note that EPA amended section 262.24(c) regarding restriction on the use of the manifest. [Note: Refer to “Use of the Electronic Manifest” in this section for additional information.]

The proposed rule modifies some of the procedures that generators need to follow in transmitting the manifest. For exports, proposed section 262.83(c)(2)(ii) would require the exporter to enter the exporter’s EPA ID and email address on the continuation sheet if the shipment was not initiated by the exporter. In addition, per proposed sections 262.83(c)(4) and 262.83(c)(5), the exporter would be required to submit the manifest to the e-Manifest system for purposes of data entry and processing. For imports, the proposed rule would delete the requirement in 40 CFR 262.84(c)(4) that the importer provide an additional copy of the manifest to the transporter per sections 264.71(a)(3) and 265.71(a)(3). These proposed changes are reflected in the data items and respondent activities listed below.

#### Data Items

Paper or electronic manifest.  
Reclamation agreement for SQG tolling arrangements.

#### Respondent Activities

##### **Paper Manifest**

Generators must perform the following:

- Sign the manifest certification and obtain the signature of the initial transporter and date of acceptance on the manifest in accordance with 40 CFR 262.23(a) and 262.84(c).
- Keep a copy of the manifest and give the remaining copies to the initial transporter, in accordance with 40 CFR 262.23(a) & (b) and 262.84(c).
- Keep a copy of the manifest returned from the designated facility for at least 3 years from the date the waste was accepted by the initial waste transporter, in accordance with 40 CFR 262.40(a) or 262.44(a).
- For shipments solely by water, send 3 copies of the manifest, dated and signed in accordance with 40 CFR 262.23(a), to the designated facility or the last water transporter to handle the waste in the US, as required by 40 CFR 262.23(c). [Note: Copies of the manifest are not required for each transporter.]
- For shipments by rail originating at the site of generation, send at least 3 copies of the manifest to the next non-rail transporter, the designated facility, or the last rail transporter to handle the waste in the US, as required by 40 CFR 262.23(d).
- 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, contact the designated facility to assure it 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, as required under 40 CFR 262.23(e).
- Exporters of hazardous waste must:
  - Enter the exporter’s EPA ID and email address on the continuation sheet (if the shipment is not initiated by the exporter).

- Submit the manifest to the e-Manifest system for purposes of data entry and processing.

An SQG operating under a tolling agreement must retain a copy of each reclamation agreement, if applicable, for at least 3 years after the termination or expiration of the agreement, as required by 40 CFR 262.20(e)(2).

### **Electronic Manifest**

- Generators must perform the above activities for completing, signing, providing, using and retaining the electronic manifest. Note that, under 40 CFR 262.24(c)(1), a generator may sign by hand and retain a paper copy of the electronic manifest, rather than electronically signing it, thereby allowing the transporter and subsequent waste handlers to use the electronic manifest for that shipment.

#### (d) Use of the Electronic Manifest

##### (d1) *Legal Equivalence to Paper Manifest*

40 CFR 262.24(a) establishes the legal equivalence of the e-Manifest to paper manifests. It provides that electronic manifests that are obtained, completed, and transmitted in accordance with section 262.20(a)(3), and used in accordance with section 262.24 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. It provides that (1) 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 section 262.25(a); (2) 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; (3) 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 or authorized state inspector; (4) no generator may be held liable for the inability to produce an electronic manifest for inspection under this section 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. [Note: There are no data items or activities associated with section 262.24(a).]

##### (d2) *Accessing the e-Manifest*

40 CFR 262.24(b) provides that 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 offsite transportation. [Note: There are no data items or activities associated with section 262.24(b).]

*(d3) Restriction on Use of Electronic Manifests*

40 CFR 262.24(c) provides that a generator may use an electronic manifest for the tracking of 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 a generator may 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 waste handlers to execute the remainder of the manifest copies electronically. [Note: Refer to “Manifest Transmittal and Recordkeeping” in this section for generator data items and activities associated with this provision.]

*(d4) Requirement for One Printed Copy*

40 CFR 262.24(d) provides that, 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 1 printed copy of the electronic manifest. [Note: Refer to “Manifest Transmittal and Recordkeeping” in this section for generator data items and activities associated with transmitting a paper manifest with the e-Manifest.]

*(d5) Special Procedures when Electronic Manifest is Unavailable*

40 CFR 262.24(e) provides that, 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 in the appendix to Part 262 and use these paper forms from this point forward in accordance with the requirements of 40 CFR 262.23. [Note: Refer to “Manifest Completion” in this section for generator data items and activities associated with paper manifest completion.]

*(d6) Special Procedures for Electronic Signature Methods Undergoing Tests*

40 CFR 262.24(f) provides that, 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/offeree certification on the printed copy of the manifest provided under section 262.24(d). [Note: Refer to “Manifest Transmittal and Recordkeeping” in this section for generator data items and activities associated with electronically signing a manifest.]

*(d7) Post-Receipt Manifest Data Corrections*

40 CFR 262.24(h) provides that, 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 40 CFR 264.71(l), which applies to corrections made to either paper or electronic manifest records. [Refer to

“Post-Receipt Manifest Data Corrections” for designated TSDFs in this section for additional information.]

#### Data Item

- A correction submission.

#### Respondent Activities

- Off-line generators (i.e., generators that do not have system access) will submit their email address and related contact information to the system to be notified of manifest corrections by other parties.
- Generators with system access may submit a correction or receive a notice of another submitter’s correction and respond with comments to the submitter or submit another correction to the system.

#### (e) Electronic Manifest Signatures

40 CFR 262.25(a) provides that 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. [Note: There are no data items or activities associated with section 262.25(a).]

#### (f) Undeliverable Shipments

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, as required by 40 CFR 262.20(d). 40 CFR 262.84(c)(5) provides that, in lieu of the requirements of section 262.20(d), where an import 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.<sup>18</sup>

#### Data Items

Instructions to the transporter on how to deal with shipments that cannot be delivered to the designated or the alternate designated facility.

For imports: Instructions to the transporter in writing via fax, email or mail, as specified.

#### Respondent Activities

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<sup>18</sup> Refer to the ICR, “Hazardous Waste Generator Standards” (EPA ICR Number 820, OMB Control 2050-0035), for procedures for addressing undeliverable export shipments under 40 CFR 262.83.

For shipments that a transporter is unable to deliver to the designated facility or the alternate facility, generators must designate another facility or instruct the transporter to return the waste, as required by section 262.20(d).

- In lieu of the requirements of section 262.20(d), where an import 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.

(g) Rejected Waste and Container Residues

Under 40 CFR 262.23(f), 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 40 CFR 264.72(f) or 265.72(f)), the generator must 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. The generator must provide the transporter a copy of the manifest and, within 30 days of delivery of the rejected shipment or container residues contained in non-empty containers, the generator must send a copy of the manifest to the designated facility that returned the shipment to the generator and retain at the generator's site a copy of each manifest for at least three years from the date of delivery.

Data Item

A paper or electronic manifest.

Respondent Activities

**Paper Manifest**

Generators must perform the following activities:

Sign Item 18c of the manifest, if the transporter returned the shipment using the original manifest.

Sign Item 20 of the manifest, if the transporter returned the shipment using a new manifest. Provide the transporter a copy of the manifest.

Within 30 days of delivery, send a copy to the designated facility that returned the shipment to the generator.

Retain a copy.

**Electronic Manifest**

- Generators must perform the above activities in accordance with sections 262.20(a)(3) and 262.24 for completing, signing, providing, using and retaining the electronic manifest.

(h) Exception Reports: Completion, Submission, and Recordkeeping

In the event a large quantity generator (LQG) does not receive a copy of the signed manifest from the designated facility owner/operator within 35 days of the date the waste was accepted by the initial transporter, the LQG must contact the transporter and/or the owner/operator of the designated facility to determine the status of the hazardous waste. The LQG must submit an exception report to EPA if he/she has not received a copy of the signed manifest from the designated facility owner/operator within 45 days of the date the waste was accepted by the initial transporter and must retain a copy of the exception report for at least 3 years from the due date of the report, in accordance with 40 CFR 262.42(a) and 262.40(b).

In the event an SQG does not receive a copy of the signed manifest from the owner/operator of the designated facility within 60 days of the date the waste was accepted by the initial transporter, he/she must submit to the EPA Regional Administrator a legible copy of the manifest with some indication that he has not received confirmation of delivery, in accordance with 40 CFR 262.42(b).

As required by 40 CFR 262.42(c), 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 procedures of 40 CFR 264.72(e)(1) through (6) or 40 CFR 265.72(e)(1) through (6)), the generator must comply with the requirements of 40 CFR 262.42(a) or (b), 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 paragraph (a) or (b) for a shipment forwarding such waste to an alternate facility by a designated facility, 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. The 35/45/60-day timeframes begin the date the waste was accepted by the initial transporter forwarding the hazardous waste shipment from the designated facility to the alternate facility.<sup>19</sup>

Proposed new sections 262.42(d) and (e) establish a more-automated, electronic exception report system, wherein the validation for the need for an exception report, as well as generation of the report itself, will be conducted automatically. Then, provided the generator is registered with the system, they can sign the auto-generated report and have it sent directly to EPA. These proposed changes are reflected in the data items and respondent activities listed below.

Data Item

An exception report (for LQGs) or a legible copy of the manifest with some indication that the SQG has not received confirmation of delivery letter (for SQGs).

Respondent Activities

LQGs must perform the following:

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<sup>19</sup> Refer to the ICR, "Hazardous Waste Generator Standards" (EPA ICR Number 820, OMB Control 2050-0035), for exception reporting of exports under 40 CFR 262.83(h).

Prepare and submit a signed cover letter to EPA explaining the generator's efforts to locate the hazardous waste and the results of those efforts, along with a legible copy of the manifest, in accordance with 40 CFR 262.42(a)(2)(i) and (ii).

Keep a copy of each exception report, as required by 40 CFR 262.40(b).

SQGs must submit a legible copy of the manifest with some indication that the waste has not been delivered.

## **Hazardous Waste Transporters**

### **(a) Manifest Completion, Transmittal, and Recordkeeping**

40 CFR 263.20, 263.21 & 263.22 detail the completion, transmittal, and recordkeeping requirements of manifests or shipping papers for hazardous waste transporters, including those exporting hazardous waste outside the US.

40 CFR 263.20(a)(4) provides that electronic manifests that are obtained, completed, and transmitted in accordance with section 262.20(a)(3) and used in accordance with section 263.20(a)(4) 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, carry, provide, give, use, or retain a manifest. Section 263.20(a)(5)-(8) address other issues related to the e-Manifest (e.g., special procedures for electronic signatures undergoing tests). [Note: Refer to "Use of the Electronic Manifest" in this section for additional information.]

#### *(a1) Hazardous Waste Transporters (except as exempted by 40 CFR 263.20(e) and (f))*

40 CFR 263.20(a)(1) provides that a transporter may not accept hazardous waste from a generator unless the transporter is also provided with a manifest form (EPA Form 8700-22, and if necessary, EPA Form 8700-22A) signed in accordance with the requirement of section 262.23, or is provided with an electronic manifest that is obtained, completed, and transmitted in accordance with section 262.20(a)(3), and signed with a valid and enforceable electronic signature as described in section 262.25. Section 263.20(a)(2) provides that, for exports of hazardous waste subject to the requirements of Subpart H of 40 CFR Part 262, a transporter may not accept hazardous waste without a manifest signed by the generator in accordance with section 263.20, 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 40 CFR 262.83(d).

40 CFR 263.20(b) provides that, before transporting the hazardous waste, the transporter must sign and date the manifest acknowledging acceptance of the hazardous waste from the generator. The transporter must return a signed copy to the generator before leaving the generator's property. Section 263.20(c) requires the transporter to ensure that the manifest accompanies the hazardous waste. Section 263.20(d) provides that a transporter who delivers a hazardous waste to another transporter or to the designated facility must obtain the date of delivery and the handwritten signature of that transporter or of the owner or operator of the designated facility on the manifest and retain one copy of the manifest in accordance with section 263.22. The transporter must give the remaining copies of the manifest to the accepting transporter or designated facility.

For imports, the proposed rule would delete the requirement in 40 CFR 262.84(c)(4) that the importer provide an additional copy of the manifest to the transporter per sections 264.71(a)(3) and 265.71(a)(3). As a result, transporters would not be required to give copies of the manifest to the receiving facilities. These proposed changes are reflected in the data items and respondent activities listed below.

#### Data Item

A paper or electronic manifest.

#### Respondent Activities

##### **Paper Manifest**

Transporters must perform the following;

Sign and date the manifest, as required by 40 CFR 263.20(b).

Return a signed copy of the manifest to the generator, as required under 40 CFR 263.20(b).

Ensure that the manifest accompanies the waste to its destination, as required by 40 CFR 263.20(c).

In delivering the hazardous waste and manifest to another transporter or to the designated facility, perform the following activities, as required by 40 CFR 263.20(d):

Obtain the date of delivery and signature of that transporter or the owner/operator of the facility or alternate facility designated on the manifest, pursuant to 40 CFR 263.20(d)(1).

Retain a copy of the manifest pursuant to 40 CFR 263.22(a).

Give remaining copies of the manifest to the accepting transporter or facility, in accordance with 40 CFR 263.20(d)(3).

##### **Electronic Manifest**

- Transporters must perform the above activities in accordance with section 263.20(a)(4)-(8), as applicable, for completing, signing, providing, using and retaining the electronic manifest.

(a2) *Water (Bulk Shipment) Transporters Regulated under 40 CFR 263.20(e)*

40 CFR 263.20(e) provides that the requirements of section 263.20 (c), (d) and (f) do not apply to water (bulk shipment) transporters if they comply with the section 263.20(e) procedures. They must sign and date the manifest upon receipt of the hazardous waste. They must ensure that a shipping paper containing all the information required on the manifest (excluding the EPA identification numbers, generator certification, and signatures) accompanies the hazardous waste. The delivering transporter must obtain the date of delivery and handwritten signature of the owner or operator of the designated facility on either the manifest or the shipping paper. The person delivering the hazardous waste to the initial water (bulk shipment) transporter must obtain the date of delivery and signature of the water (bulk shipment) transporter on the manifest and forward it to the designated facility. A copy of the shipping paper or manifest must be retained by each water (bulk shipment) transporter in accordance with section 263.22.

For imports, the proposed rule would delete the requirement in 40 CFR 262.84(c)(4) that the importer provide an additional copy of the manifest to the transporter per sections 264.71(a)(3) and 265.71(a)(3). As a result, transporters would not be required to give copies of the manifest to the receiving facilities. These proposed changes are reflected in the data items and respondent activities listed below.

Data Items

Paper or electronic manifest.  
A shipping paper.

Respondent Activities

**Paper Manifest**

The person delivering hazardous waste to the initial water transporter must:

- Obtain the date of delivery and signature of the initial water transporter on the manifest, in accordance with 40 CFR 263.20(e)(4).
- Forward the manifest to the designated facility, in accordance with 40 CFR 263.20(e)(4).

Bulk water transporters subject to section 263.20(e) must perform the following activities:

- Ensure that the shipping paper accompanies the waste to its destination, as required by 40 CFR 263.20(e)(2).
- If the delivering (water) transporter, obtain the date of delivery and signature of the owner/operator of the designated facility on either the manifest or shipping paper, as required by 40 CFR 263.20(e)(3).
- If the initial water transporter, sign and date the manifest and return it to the delivering transporter so that the manifest can be forwarded to the designated facility owner/operator, as required by 40 CFR 263.20(e)(4).
- Retain a copy of the manifest or shipping paper, as required by 40 CFR 263.22(b).

**Electronic Manifest**

- Transporters must perform the above activities in accordance with section 263.20(a)(4)- (8), as applicable, for completing, signing, providing, using and retaining the electronic manifest.

*(a3) Rail Transporters Regulated under 40 CFR 263.20(f)*

40 CFR 263.20(f) provides that, for shipments involving rail transportation, the requirements of section 263.20 (c), (d) and (e) do not apply and the requirements at section 263.20(f) do apply. Initial rail transporters must sign and date the manifest acknowledging acceptance of the hazardous waste; return or transmit a signed copy of the manifest to the non-rail transporter; and forward at least 3 copies of the manifest to the next non-rail transporter, the designated facility, if the shipment is delivered to that facility by rail, or the last rail transporter designated to handle the waste in the US; and retain a copy of the manifest and rail shipping paper in accordance with 40 CFR 263.22.

Rail transporters must ensure that a shipping paper containing all the information required on the manifest (excluding the EPA identification numbers, generator certification, and signatures) accompanies the hazardous waste at all times.

When delivering hazardous waste to the designated facility, a rail transporter must obtain the date of delivery and signature of the owner or operator of the designated facility on the manifest, or a signature on the shipping paper (if the manifest has not been received by the facility) and retain a copy of the manifest or signed shipping paper.

When delivering hazardous waste to a non-rail transporter, a rail transporter must obtain the date of delivery and the signature of the next non-rail transporter on the manifest and retain a copy of the manifest, as required under 40 CFR 263.20(f)(4). Before accepting hazardous waste from a rail transporter, a non-rail transporter must sign and date the manifest and provide a copy to the rail transporter.

For imports, the proposed rule would delete the requirement in 40 CFR 262.84(c)(4) that the importer provide an additional copy of the manifest to the transporter per sections 264.71(a)(3) and 265.71(a)(3). As a result, transporters would not be required to give copies of the manifest to the receiving facilities. These proposed changes are reflected in the data items and respondent activities listed below.

Data Items

A paper or electronic manifest.  
A shipping paper.

Respondent Activities

**Paper Manifest**

When accepting waste from a non-rail transporter, sign and date the manifest, as required by 40 CFR 263.20(f)(1)(i) and return or transmit a signed copy of the manifest to the non-rail transporter, as required by 40 CFR 263.20(f)(1)(ii).

Forward at least 3 copies of the manifest to either the next non-rail transporter, the designated facility, or the last rail transporter designated to handle the waste in the US, as required by 40 CFR 263.20(f)(1)(iii).

Ensure a shipping paper accompanies the waste, as required under 40 CFR 263.20(f)(2).

When delivering hazardous waste to the designated facility or to the next non-rail transporter, obtain the signature and date of delivery of the facility or non-rail transporter on the manifest, as required under 40 CFR 263.20(f)(3)(i) or (f)(4)(i).

Retain a copy of the manifest and/or rail shipping paper, as required under 40 CFR 263.20(f)(1)(iv), 263.20(f)(3)(ii), 263.20(f)(4)(ii) and 263.22, as applicable.

Before accepting hazardous waste from a rail transporter, sign and date the manifest and provide a copy to the rail transporter, as required under 40 CFR 263.20(f)(5).

### **Electronic Manifest**

- Transporters must perform the above activities in accordance with section 263.20(a)(4)- (8), as applicable, for completing, signing, providing, using and retaining the electronic manifest.

#### *(a4) Transporters Who Export Hazardous Wastes*

Under existing 40 CFR 263.20(g), transporters who transport hazardous waste out of the United States must sign and date the manifest in the International Shipments block to indicate the date that the shipment left the United States. They must retain one copy in accordance with section 263.22(d) and return a signed copy of the manifest to the generator. For paper manifests only, they must (i) send a copy of the manifest to the e-Manifest system in accordance with the allowable methods specified in 40 CFR 264.71(a)(2)(v) and (ii) for shipments initiated prior to the AES filing compliance date,<sup>20</sup> 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.

Under the proposed changes to section 262.20(g), transporters must date (not sign) the manifest when the shipment crosses domestic borders. In addition, transporters will no longer need to send a copy of the export shipment manifest to the e-Manifest system. These proposed changes are reflected in the data items and respondent activities listed below.

#### Data Items

A paper or electronic manifest.

#### Respondent Activities

#### **Paper Manifest**

For exports, transporters must perform the following:

- Date the manifest in the International Shipments block.
- Retain one copy in accordance with section 263.22(d).
- Return a signed copy of the manifest to the generator.

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<sup>20</sup> The AES filing compliance date was December 31, 2017.

## Electronic Manifest

- Transporters must perform the above activities in accordance with section 263.20(a)(4)-(8), as applicable, for completing, signing, providing, using and retaining the electronic manifest.

### *(a5) Transporters Who Transport Hazardous Waste Pursuant to a Reclamation Agreement (263.20(h))*

40 CFR 263.20(h) provides that transporters can be exempt from the requirements of 40 CFR 263.20 & 263.22 when transporting a SQG's waste pursuant to a reclamation agreement in accordance with 40 CFR 262.20(e). These transporters are required to record data items on a log or shipping papers, carry the record to the reclamation facility, and retain these records, as required by 40 CFR 263.20(h).

#### Data Items

A reclamation agreement.

#### Respondent Activities

Record the waste information on a log or shipping paper, as required by 40 CFR 263.20(h)(2).  
Carry the record when transporting waste to the reclamation facility, as required by 40 CFR 263.20(h)(3).

Retain the records for at least 3 years after termination or expiration of the agreement, as required by 40 CFR 263.20(h)(4).

### *(a6) Undeliverable Shipments*

40 CFR 263.21(a) provides that the transporter must deliver the entire quantity of hazardous waste which he has accepted from a generator or a transporter to the designated facility listed on the manifest; the alternate designated facility, the next designated transporter; or the place outside the U.S. designated by the transporter.

40 CFR 263.21(b)(1) provides that, if the hazardous waste cannot be delivered to the designated facility, alternate facility or place outside the U.S. 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 instructions and revise the manifest according to the generator's instructions.

40 CFR 263.21(b)(2) provides that, if the hazardous waste is not delivered to the next designated transporter 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 as specified.

40 CFR 263.21(b)(3) provides that, if the hazardous waste is not delivered to the next designated transporter, 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 and limited agency authority for the transporter to make such transporter changes on behalf of the generator and 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." The change in designated transporters must be necessary to respond to an emergency, or for purposes of transportation efficiency, convenience, or safety.

#### Data Items

A paper or electronic manifest that has been revised as specified.

Instructions from the generator as specified.

Contract authorization provision under 40 CFR 263.21(b)(3).

#### Respondent Activities

For undeliverable shipments under 40 CFR 263.21(b)(1) or (2), a transporter must contact the generator and revise the manifest according to the generator's instructions.

For undeliverable shipments under 40 CFR 263.21(b)(3), a transporter must:

- Establish a contract provision authorizing the transporter to make revisions as specified; and
- Revise the manifest including the statement in Item 14, as specified.

#### *(a7) Rejected Waste and Container Residues*

Under 40 CFR 263.21(c), if a hazardous waste is rejected or a container residue is identified by the designated facility listed on the manifest while the transporter is on the facility's premises, then the transporter must comply with the appropriate procedures:

For a partial load rejection or for regulated quantities of container residues: The transporter must obtain 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 40 CFR 263.22, 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 40 CFR 264.72(e)(1) through (6) or (f)(1) through (6) or 40 CFR 265.72(e)(1) through (6) or (f)(1) through (6).

For a full load rejection that will be taken back by the transporter: The transporter must obtain 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 40 CFR 263.22, 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 40 CFR 264.72(e)(1) through (6) or 40 CFR 265.72(e)(1) through (6).

#### Data Item

- A paper or electronic manifest.

#### Respondent Activities

##### **Paper Manifest**

- For a partial load rejection or for regulated quantities of container residues, obtain a copy of the original manifest, retain a copy, give remaining copies to rejecting facility, and if forwarding or returning the rejection or residue, obtain a new manifest.
- For a full load rejection, obtain a copy of the original manifest, retain a copy, give a copy to rejecting facility, or if the original manifest is not used, obtain a new manifest and comply with applicable requirements.

##### **Electronic Manifest**

- Transporters must perform the above activities in accordance with section 263.20(a)(4)- (8), as applicable, for completing, signing, providing, using and retaining the electronic manifest.

#### (b) Use of the Electronic Manifest

##### (b1) *Legal Equivalence to Paper Manifest*

40 CFR 263.20(a)(4) provides that electronic manifests that are obtained, completed, and transmitted in accordance with section 262.20(a)(3) and used in accordance with section 263.20 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, carry, provide, give, use, or retain a manifest. It provides that (1) 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 section 262.25(a); (2) any requirement in these regulations to give, provide, send, forward, or return to another person a copy of the manifest is satisfied when a copy of an electronic manifest is transmitted to the other person by submission to the system; (3) any requirement in these regulations for a manifest to accompany a hazardous waste shipment is satisfied when a copy of an electronic manifest is accessible during transportation and forwarded to the person or persons who are scheduled to receive delivery of the waste shipment, except that to the extent that the Hazardous Materials regulation on shipping papers for carriage by public highway requires transporters of hazardous materials to carry a paper document to comply with 49 CFR 177.817, a hazardous waste transporter must carry 1 printed copy of the electronic manifest on the transport vehicle; (4) any requirement in these regulations for a transporter to keep or retain a copy of a manifest is satisfied by the retention of an electronic manifest in the

transporter's account on the e-Manifest system, provided that such copies are readily available for viewing and production if requested by any EPA or authorized state inspector; and (5) no transporter may be held liable for the inability to produce an electronic manifest for inspection under this section if that transporter can demonstrate that the inability to produce the electronic manifest is exclusively due to a technical difficulty with the EPA system for which the transporter bears no responsibility. [Note: There are no data items or activities associated with section 263.20(a)(4).]

*(b2) Accessing the e-Manifest*

40 CFR 263.20(a)(5) provides that a transporter may participate in the electronic manifest system either by accessing the electronic manifest system from the transporter's own electronic equipment, or by accessing the electronic manifest system from the equipment provided by a participating generator, by another transporter, or by a designated facility. [Note: There are no data items or activities associated with section 263.20(a)(5).]

*(b3) Special Procedures when Electronic Manifest is Not Available*

40 CFR 263.20(a)(6) provides that, if after a manifest has been originated electronically and signed electronically by the initial transporter, and the electronic manifest system should become unavailable for any reason, then the transporter must perform the activities spelled out in section 263.20(a)(6)(i)-(iv). These procedures include the following:

The transporter in possession of the hazardous waste when the electronic manifest becomes unavailable shall reproduce sufficient copies of the printed manifest that is carried on the transport vehicle pursuant to section 263.20(a)(4)(iii)(A) or obtain and complete another paper manifest for this purpose. The transporter shall reproduce sufficient copies to provide the transporter and all subsequent waste handlers with a copy for their files, plus two additional copies that will be delivered to the designated facility with the hazardous waste. (263.20(a)(6)(i))

On each printed copy, the transporter shall include a notation in the Special Handling and Additional Description space (Item 14) that the paper manifest is a replacement manifest for a manifest originated in the electronic manifest system, shall include (if not pre-printed on the replacement manifest) the manifest tracking number of the electronic manifest that is replaced by the paper manifest, and shall also include a brief explanation why the electronic manifest was not available for completing the tracking of the shipment electronically. (263.20(a)(6)(ii))

A transporter signing a replacement manifest to acknowledge receipt of the hazardous waste must ensure that each paper copy is individually signed and that a legible handwritten signature appears on each copy. (263.20(a)(6)(iii))

From the point at which the electronic manifest is no longer available for tracking the waste shipment, the paper replacement manifest copies shall be carried, signed, retained as records, and given to a subsequent transporter or to the designated facility, following the instructions, procedures, and requirements that apply to the use of all other paper manifests. (263.20(a)(6)(iv))

### Data Items

Copies of the printed manifest or a new paper manifest.

### Respondent Activities

As required by section 263.20(a)(6), the transporter in possession of the hazardous waste when the electronic manifest becomes unavailable shall perform the following:

- Reproduce sufficient copies of the printed manifest that is carried on the transport vehicle and complete it as specified; or
- Obtain and complete another paper manifest as specified;
- Retain a copy of the manifest; and
- Give remaining copies of the manifest to the accepting transporter or facility.

#### *(b4) Special Procedures for Electronic Signature Methods Undergoing Tests*

40 CFR 263.20(a)(7) provides that, if a transporter using an electronic manifest 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 transporter shall sign the electronic manifest electronically and also sign with an ink signature the transporter acknowledgement of receipt of materials on the printed copy of the manifest that is carried on the vehicle in accordance with section 263.20(a)(4)(iii)(A). This printed copy bearing the generator's and transporter's ink signatures shall also be presented by the transporter to the designated facility to sign in ink to indicate the receipt of the waste materials or to indicate discrepancies. After the owner/operator of the designated facility has signed this printed manifest copy with its ink signature, the printed manifest copy shall be delivered to the designated facility with the waste materials. [Note: Refer to "Manifest Completion, Transmittal and Recordkeeping" in this section for transporter data items and activities associated with signing a manifest. Refer to "Manifest Completion, Transmittal and Recordkeeping" in the Designated Treatment, Storage and Disposal Facility section for facility data items and activities associated with recordkeeping the paper copy.]

#### *(b5) Post-Receipt Manifest Data Corrections*

40 CFR 263.20(a)(9) provides that, 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 40 CFR 264.71(l), which applies to corrections made to either paper or electronic manifest records. [Refer to "Post-Receipt Manifest Data Corrections" for designated TSDFs in this section for additional information.]

### Data Item

- A correction submission.

### Respondent Activities

- Off-line transporters (i.e., transporters that do not have system access) submit their email address and related contact information to the system to be notified of manifest corrections by other parties.
- Transporters with system access may submit a correction or receive a notice of another submitter's correction and respond with comments to the submitter or submit another correction to the system.

(c) Notification of Discharge of Hazardous Waste

In the event of a discharge of hazardous waste during transportation, 40 CFR 263.30(a) requires the transporter to take appropriate immediate action to protect human health and the environment, for example, notifying local authorities. 40 CFR 263.30(c) requires an air, rail, highway, or water transporter who has discharged hazardous waste to give notice, if required by 49 CFR 171.15, to NRC and to report in writing to USDOT as required by 49 CFR 171.16. 40 CFR 263.30(d) requires a water (bulk shipment) transporter who has discharged hazardous waste to give the same notice as required by 33 CFR 153.203 for oil and hazardous substances, if not already required under 33 CFR 153.203. Water (bulk shipment) transporters, as soon as they have knowledge of any discharge of hazardous waste, must immediately notify NRC, US Coast Guard, as required by 33 CFR 153.203. If the direct reporting to the NRC is not practicable, reports may be made to the US Coast Guard or EPA predesignated OSC for the geographic area where the discharge occurs. If it is not possible to notify the NRC or the predesignated OSC immediately, reports may be made immediately to the nearest US Coast Guard unit, provided the transporter notifies the NRC as soon as possible.

Data Item

Notification of a discharge of hazardous waste

Respondent Activities

In the event of a discharge of hazardous waste during transportation, the transporter must take appropriate action to protect human health and the environment, including notification of the discharge to local authorities, as required by 40 CFR 263.30(a). Water (bulk shipment) transporters must immediately notify NRC of the discharge or, if it is not practicable to notify the NRC, a predesignated OSC can be notified. If the OSC is notified, the transporter must notify the NRC of the discharge as soon as possible, as required by 40 CFR 263.30(d) and 33 CFR 153.203.

[Note: This ICR does not include hour and cost burden estimates for activities associated with the 49 CFR Part 171 notification requirements referenced in 40 CFR Part 263 since Part 263 does not add any notification requirements to those already in Part 171.]

## Designated Treatment, Storage and Disposal Facilities <sup>21</sup>

(a) Transmitting the Manifest and Reporting to EPA

(a1) *Manifest Completion, Transmittal and Recordkeeping*

Existing regulations at 40 CFR 264.71(a),(b) and 40 CFR 265.71(a),(b) set forth completion, transmittal, and recordkeeping requirements for TSDFs that receive hazardous waste accompanied by a manifest or shipping paper. 40 CFR 264.71(a),(b) and 40 CFR 265.71(a),(b) provide that, if a facility receives hazardous waste accompanied by a manifest (or shipping paper, for certain rail or water shipments), the facility or his/her agent must sign and date each copy of the manifest; note any significant discrepancies on each copy; immediately give the transporter at least 1 copy of the manifest; and within 30 days of delivery, send a copy (Page 3) of the manifest to the generator; and retain at the facility a copy of each manifest for at least 3 years from the date of delivery. 40 CFR 264.71(a)(3) and 265.71(a)(3) provide that the owner or operator of a facility receiving hazardous waste subject to 40 CFR Part 262, Subpart H from a foreign source must 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 send a copy of the manifest within thirty (30) days of delivery to EPA using the addresses listed in 40 CFR 262.82(e) until the facility can submit such a copy to the e-Manifest system.

In addition, 40 CFR 264.71(a)(2)(v) and 265.71(a)(2)(v) establish options for compliance beginning on June 30, 2018 and on June 30, 2021. Beginning on June 30, 2018, the facility must send the top copy (Page 1) of any paper manifest and any paper continuation sheet to the e-Manifest system for purposes of data entry and processing, or in lieu of submitting the paper copy to EPA, it 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. Beginning on June 30, 2021, EPA will not accept mailed paper manifests from facilities for processing in e-Manifest. 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 facility 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 web site's directory of services.

At the time of submission of the upload, a responsible representative of the receiving facility must make a CROMERR<sup>22</sup> compliant certification that to the representative's knowledge or belief, the submission (e.g., data and images) is accurate and complete representations of the facility's received manifests, and that the facility acknowledges that it is obligated to pay the applicable per manifest fee for each manifest included in the submission, in accordance with 40 CFR 264.1311(b) or (c) or 265.1311(b) or (c).

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<sup>21</sup> The final fee rule applies to RCRA Subtitle C TSDFs as well as non-Subtitle C facilities as specified. For purposes of organization and clarity, the requirements applicable to Subtitle C and non-Subtitle C facilities are addressed together in this section.

<sup>22</sup> Cross-Media Electronic Reporting Rule.

40 CFR 264.71(f) and 265.71(f) provide that electronic manifests that are obtained, completed, and transmitted in accordance with section 262.20(a)(3) and used in accordance with section 264.71(f) or 265.71(f) 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, carry, provide, give, use, or retain a manifest. Sections 264.71(g)-(k) and 265.71(g)-(k) address other issues related to the e-Manifest (e.g., special procedures for electronic signature methods undergoing tests). [Refer to “Use of the Electronic Manifest” in this section for additional information.]

40 CFR 260.4(a) provides that, 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, (1) complete the facility portion of the applicable manifest; (2) sign and date the facility certification; (3) submit to the e-Manifest system a final copy of the manifest for data processing purposes; and (4) 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. [Refer to “Fees for the Electronic Hazardous Waste Manifest Program” in this section for facility data items and activities associated with these fee-related requirements.]

40 CFR 260.5(b) provides that, 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 (1) comply with the provisions of 40 CFR 264.71 (use of the manifest) and 40 CFR 264.72 (manifest discrepancies), and (2) 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. [Refer to “Fees for the Electronic Hazardous Waste Manifest Program” in this section for facility data items and activities associated with these fee-related requirements.]

The proposed rule revises 40 CFR 264.71(a)(2)(iv) and 265.71(a)(2)(iv) by removing the existing requirement that TSDFs mail paper manifests to the generators and clarifying that they submit the top copies (Page 1) to the e-Manifest system.

#### Data Item

Paper or electronic manifest.

Shipping paper.

A CROMERR compliant certification if applicable.

## Respondent Activities

### **Paper Manifest**

Complete, transmit, and retain copies of the manifest, as required by 40 CFR 260.4, 260.5, 264.71(a), (b) or 40 CFR 265.71(a), (b) and the manifest instructions:

Enter the name of the person accepting the waste and sign and date each copy of the manifest (or shipping paper, if applicable).

Complete the management method codes.

- For imports, 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.

Note any discrepancies (as defined in 40 CFR 264.72(a) or 265.72(a)) on each copy of the manifest (or shipping paper, if applicable).

Immediately give the transporter at least 1 copy of the manifest (or shipping paper).

Within 30 days of delivery, send a copy of the manifest to EPA as follows:

- o Beginning on June 30, 2021, transmit to the EPA system an image file of Page 1 of the manifest and any continuation sheet or 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, including a CROMERR compliant certification.
- o For imports, send a copy of the manifest within thirty (30) days of delivery to EPA using the addresses listed in 40 CFR 262.82(e) until the facility can submit such a copy to the e-Manifest system.

Retain a copy of the manifest (or shipping paper) for at least 3 years from the date of delivery.

[Note: Although the noting of manifest or shipping paper discrepancies is mentioned above, it is burdened in the subsection entitled "Discrepancy Reports."]

### **Electronic Manifest**

- Designated facilities must perform the above activities in accordance with section 264.71(f)-(k) or 265.71(f)-(k), as applicable, for completing, signing, providing, using and retaining the electronic manifest.

#### *(a2) Compliance with State Program Requirements*

Under 40 CFR 264.71(e) and 40 CFR 265.71(e), designated facilities must determine whether the consignment state for a shipment regulates any additional hazardous wastes (beyond those regulated federally). Facilities must also determine whether the consignment state or generator state requires the facility to submit any copies of the manifest to these states.

### Data Item

Information provided by the state on its manifest program.

### Respondent Activities

Contact the consignment/generator state if needed and submit any copies of the manifest to these states, as applicable.

#### *(a3) Discrepancy Reports*

Existing regulations at 40 CFR 264.72 and 265.72 provide that, upon discovering a significant discrepancy, facilities must attempt to reconcile the discrepancy with the waste generator or transporter. If the discrepancy is not resolved within 15 days after receiving the waste, the owner/operator must immediately submit to EPA a copy of the manifest or shipping paper in question, as well as a letter describing the discrepancy and attempts to reconcile it.

Under proposed sections 264.72(c) and 265.72(c), if the discrepancy is not resolved within 20 days after receiving the waste, the owner or operator must immediately submit to the Regional Administrator a letter describing the discrepancy and attempts to reconcile it, and a copy of the manifest or shipping paper at issue. These revised sections also establish the legal and policy framework for the use of electronic Discrepancy Reports. If adopted, wherever the existing regulations require a Discrepancy Report to be completed, signed, and sent to EPA, the execution of an electronic Discrepancy Report in the national e-Manifest system would be deemed to comply with the requirements to complete, sign, provide, send, or otherwise use the discrepancy report.

### Data Items

A copy of the manifest or shipping paper in question.

A letter describing the manifest discrepancy and the facility's efforts to reconcile it.

### Respondent Activities

Attempt to reconcile any discrepancies, as required by 40 CFR 264.72(c) or 265.72(c).

Prepare and submit a letter to EPA describing the discrepancy and attempts to reconcile it, along with a copy of the manifest or shipping paper at issue, as required by 40 CFR 264.72(c) or 265.72(c).

#### *(b) Rejected Waste and Container Residues*

40 CFR 264.72 and 40 CFR 265.72 provide that the facility must forward rejected waste or container residues to an alternate facility that can accept the waste. If the facility is unable to locate an alternate facility to take the waste, then the facility may return the shipment to the original generator. 40 CFR 264.72(d) through (g) and 40 CFR 265.72(d) through (g) describe manifest procedures for designated facilities that originate a rejected waste or container residue.

##### *(b1) Rejection of Waste after the Transporter Leaves the Facility*

For full or partial load rejections and residues that are to be sent offsite to an alternate facility or back to the generator after the transporter has left the facility, the facility is required to prepare a new manifest, as required by 40 CFR 264.72(d), (e)(1)-(6), or (f)(1)-(6) or 40 CFR 265.72(d), (e)(1)-(6), or (f)(1)-(6).

In addition, if a facility rejects a waste or identifies a container residue that exceeds the quantity limits for “empty” containers set forth in 40 CFR 261.7(b) after it has signed, dated, and returned a copy of the manifest to the transporter, the facility must comply with 40 CFR 264.72(g) or 265.72(g). The facility must amend its copy of the manifest to indicate the rejected wastes or residues in the discrepancy space of the amended manifest. The facility must also copy the manifest tracking number from Item 4 of the new manifest to the Discrepancy space of the amended manifest, and must re-sign and date the manifest to certify to the information as amended. The facility must retain the amended manifest for at least 3 years from the date of amendment, and must within 30 days, send a copy of the amended manifest to the delivering transporter and to the generator.

#### Data Items

Instructions provided by the generator.  
Original paper or electronic manifest.  
New paper or electronic manifest.  
Shipping paper.

#### Respondent Activities

##### **Paper Manifest**

Contact the generator to obtain the generator’s instructions for forwarding the waste to another facility that can manage the waste, as required by 40 CFR 264.72(d) or 265.72(d).  
Prepare a new manifest for rejected loads or container residues sent to the alternate designated facility or back to the generator:  
Write the facility’s EPA ID, name, and address in the appropriate blocks of the new manifest (i.e., Items 1 and 5), as required by 40 CFR 264.72(e)(1) or (f)(1) or 265.72(e)(1) or (f)(1).  
Write the name of the alternate designated facility/initial generator and the facility’s/generator’s EPA ID number in the designated facility block (Item 8) of the new manifest, as required by 40 CFR 264.72(e)(2) or (f)(2) or 265.72(e)(2) or (f)(2).  
Copy the manifest tracking number found in Item 4 of the old manifest to the Special Handling and Additional Information Block of the new manifest, and indicate that the shipment is a residue or rejected waste from the previous shipment, as required by 40 CFR 264.72(e)(3) or (f)(3) or 265.72(e)(3) or (f)(3).  
Copy the manifest tracking number found in Item 4 of the new manifest to the manifest reference number line in the Discrepancy Block of the old manifest (Item 18a), as required by 40 CFR 264.72(e)(4) or (f)(4) or 265.72(e)(4) or (f)(4).  
Write the USDOT description for the rejected load or the residue in the Item 9 (USDOT Description) of the new manifest and write the container types, quantity, and volume(s) of waste, as required by 40 CFR 264.72(e)(5) or (f)(5) or 265.72(e)(5) or (f)(5).  
Sign the Generator’s/Offeror’s Certification to certify, as the offeror of the shipment, that the waste has been properly packaged, marked and labeled and is in proper condition, as required by 40 CFR 264.72(e)(6) or (f)(6) or 265.72(e)(6) or (f)(6).  
Amend the facility’s copy of the manifest to indicate the rejected wastes or residues in the discrepancy space of the amended manifest, as required by 40 CFR 264.72(g) or 265.72(g).  
Copy the manifest tracking number from Item 4 of the new manifest to the Discrepancy space of the amended manifest, as required by 40 CFR 264.72(g) or 265.72(g).  
Re-sign and date the manifest, as required by 40 CFR 264.72(g) or 265.72(g).

Retain the amended manifest for at least 3 years from the date of the amendment, as required by 40 CFR 264.72(g) or 265.72(g).

Within 30 days, send a copy of the amended manifest to the delivering transporter and to the generator, as required by 40 CFR 264.72(g) or 265.72(g).

### **Electronic Manifest**

- Designated facilities must perform the above activities in accordance with section 264.71(f)-(k) or 265.71(f)-(k), as applicable, for completing, signing, providing, using and retaining the electronic manifest.

#### *(b2) Rejection of Waste while the Transporter Remains Present at the Facility*

For container residues and full load rejections that are made while the transporter remains present at the facility, the facility may forward the shipment to the alternate facility or return the shipment to the generator using the original manifest, as specified in 40 CFR 264.72(e)(7) or (f)(7) or 40 CFR 265.72(e)(7) or (f)(7).

#### Data Item

Original paper or electronic manifest.  
Shipping paper.

#### Respondent Activities

### **Paper Manifest**

Contact the generator to obtain the generator's instructions for forwarding the waste to another facility that can manage the waste, as required by 40 CFR 264.72(d) or 265.72(d). Complete Item 18a and 18b of the original manifest, as applicable, by supplying the information on the next receiving facility or the generator in the Alternate Facility space. Retain a copy of the manifest. Give the remaining copies back to the transporter.

### **Electronic Manifest**

- Designated facilities must perform the above activities in accordance with section 264.71(f)-(k) or 265.71(f)-(k), as applicable, for completing, signing, providing, using and retaining the electronic manifest.

#### *(c) Use of the Electronic Manifest*

#### *(c1) Legal Equivalence to Paper Manifest*

40 CFR 264.71(f) and 265.71(f) provide that electronic manifests that are obtained, completed, and transmitted in accordance with section 262.20(a)(3), and used in accordance with section 264.71 or 265.71 in lieu of the paper manifest form 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. It provides that (1) 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 section 262.25(a); (2) any requirement in these regulations to give, provide, send, forward, or to return to another person a copy of the manifest is satisfied when a copy of an electronic manifest is transmitted to the other person; (3) any requirement in these regulations for a manifest to accompany a hazardous waste shipment is satisfied when a copy of an electronic manifest is accessible during transportation and forwarded to the person or persons who are scheduled to receive delivery of the waste shipment; (4) any requirement in these regulations for an owner or operator to keep or retain a copy of each manifest is satisfied by the retention of the facility's electronic manifest copies in its account on the e-Manifest system, provided that such copies are readily available for viewing and production if requested by any EPA or authorized state inspector; and (5) no owner or operator may be held liable for the inability to produce an electronic manifest for inspection under this section if the owner or operator 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 owner or operator bears no responsibility. [Note: There are no data items or activities associated with these provisions.]

*(c2) Accessing the e-Manifest*

40 CFR 264.71(g) and 265.71(g) provide that an owner or operator may participate in the electronic manifest system either by accessing the electronic manifest system from the owner's or operator's electronic equipment, or by accessing the electronic manifest system from portable equipment brought to the owner's or operator's site by the transporter who delivers the waste shipment to the facility. [Note: There are no data items or activities associated with these provisions.]

*(c3) Special Procedures when Electronic Manifest is Not Available*

40 CFR 264.71(h) and 265.71(h) provide that, if a facility receives hazardous waste that is accompanied by a paper replacement manifest for a manifest that was originated electronically, the following procedures apply to the delivery of the hazardous waste by the final transporter:

Upon delivery of the hazardous waste to the designated facility, the owner or operator must sign and date each copy of the paper replacement manifest by hand in Item 20 (Designated Facility Certification of Receipt) and note any discrepancies in Item 18 (Discrepancy Indication Space) of the replacement manifest;

The owner or operator of the facility must give back to the final transporter 1 copy of the replacement manifest;

Within 30 days of delivery of the waste to the designated facility, the owner or operator of the facility must send 1 signed and dated copy of the replacement manifest to the generator, and send an additional signed and dated copy of the replacement manifest to the electronic manifest system; and

The owner or operator of the facility must retain at the facility one copy of the replacement manifest for at least 3 years from the date of delivery.

[Note: Refer to "Manifest Completion, Transmittal and Recordkeeping" in this section for the facility data items and activities associated with signing, transmitting and recordkeeping of the replacement paper manifests.]

(c4) *Special Procedures for Electronic Signature Methods Undergoing Tests*

40 CFR 264.71(i) and 265.71(i) provide that, if an owner or operator using an electronic manifest 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 owner or operator shall also sign with an ink signature the facility's certification of receipt or discrepancies on the printed copy of the manifest provided by the transporter. Upon executing its ink signature on this printed copy, the owner or operator shall retain this original copy among its records for at least 3 years from the date of delivery of the waste. [Note: Refer to "Manifest Completion, Transmittal and Recordkeeping" in this section for facility data items and activities associated with signing and recordkeeping of the manifest.]

(c5) *Imposition of User Fee for Electronic Manifest Use*

40 CFR 264.71(j) and 265.71(j) provide that, as prescribed in 40 CFR 264.1311 and 265.1311, and determined in 40 CFR 264.1312 and 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 264.1313 and 265.1313. An owner or operator subject to user fees under this section shall make user fee payments in accordance with the requirements of 40 CFR 264.1314 or 265.1314, subject to the informal fee dispute resolution process of 40 CFR 264.1316 or 265.1316, and subject to the sanctions for delinquent payments under 40 CFR 264.1315 or 265.1315. [Refer to "Fees for the Electronic Hazardous Waste Manifest Program" in this section for facility data items and activities associated with these requirements.]

(c6) *Electronic Manifest Signatures*

40 CFR 264.71(k)(1) and 265.71(k)(1) provide that electronic manifest signatures shall meet the criteria described in section 262.25(a). [Note: There are no data items or activities associated with this provision.]

(c7) *Post-Receipt Manifest Data Corrections*

40 CFR 264.71(l) and 265.71(l) provide that, 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. 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. Each correction submission must include the information specified at 40 CFR 264.71(l)(2) and 265.71(l)(2). In addition, each correction submission must 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, as required by 40 CFR 264.71(l)(3) or 265.71(l)(3). The certification statement must be executed with a valid electronic signature. A batch upload of data corrections may be submitted under one certification statement. 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. 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 above, and with notice of the corrections to other interested persons shown on the manifest.

#### Data Item

- A correction submission.

#### Respondent Activities

- Off-line facilities (i.e., facilities that do not have system access) must submit their email address and related contact information to the system to be notified of manifest corrections by other parties.
- Facilities with system access may submit a correction or receive a notice of another submitter's correction and respond with comments to the submitter or submit another correction to the system.

#### (d) Unmanifested Waste Report: Completion and Submission

Pursuant to 40 CFR 264.76 and 265.76, if the facility accepts a hazardous waste for treatment, storage, or disposal from any offsite source without an accompanying manifest or a shipping paper as described in 40 CFR 263.20(e)(2), and the waste is not excluded from the manifest requirement, the facility owner/operator must prepare and submit a letter to EPA.

Under the proposed revisions to sections 264.76 and 265.76, the facility must prepare an electronic unmanifested waste report in the e-Manifest system (instead of the letter) for submission to the Regional Administrator within 15 days after receiving the waste.

#### Data Item

An un-manifested waste report.

#### Respondent Activity

Prepare and submit an electronic unmanifested waste report in the e-Manifest system.

#### (e) Fees for the Electronic Hazardous Waste Manifest Program

##### *(e)(1) Manifest Transactions Subject to Fees*

40 CFR 264.1311(a) and 265.1311(a) provide that fees shall be assessed on a per manifest basis for the following manifest submission transactions:

- The submission of each electronic manifest that is electronically signed and submitted to the e-Manifest system by the owners or operators of receiving facilities, with the fee assessed at the applicable rate for electronic manifest submissions.

- The submission of each paper manifest submission to the paper processing center signed by owners or operators of receiving facilities, with the fee assessed according to whether the manifest is submitted to the system by mail, by the upload of an image file, or by the upload of a data file representation of the paper manifest.
- The submission by receiving facilities of final manifest copies, signed by the facility to indicate a partial or total rejection of hazardous wastes, and indicating a return shipment to the original generator in Item 18a of the submitted manifest. This fee is assessed for the return shipment manifest, as identified by its Manifest Tracking Number in Item 18a, and is assessed at the applicable rate determined by the method of submission.

40 CFR 264.1311(b) and 265.1311(b) provide that receiving facilities may submit image file uploads of completed, ink-signed manifests in lieu of submitting mailed paper forms to the e-Manifest system. Such image file upload submissions may be made for individual manifests received by a facility or as a batch upload of image files from multiple paper manifests received at the facility. The image file upload must be made in an image file format approved by EPA and supported by the e-Manifest system. At the time of submission of an image file upload, a responsible representative of the receiving facility must make a CROMERR compliant certification that to the representative's knowledge or belief, the submitted image files are accurate and complete representations of the facility's received manifests, and that the facility acknowledges that it is obligated to pay the applicable per manifest fee for each manifest included in the submission.

40 CFR 264.1311(c) and 265.1311(c) provide that receiving facilities may submit data file representations of completed, ink-signed manifests in lieu of submitting mailed paper forms or image files to the e-Manifest system. Such data file submissions from paper manifests may be made for individual manifests received by a facility or as a batch upload of data files from multiple paper manifests received at the facility. The data file upload must be made in a data file format approved by EPA and supported by the e-Manifest system. The receiving facility must also submit an image file of each manifest that is included in the individual or batch data file upload. At the time of submission of the data file upload, a responsible representative of the receiving facility must make a CROMERR compliant certification that to the representative's knowledge or belief, the data and images submitted are accurate and complete representations of the facility's received manifests, and that the facility acknowledges that it is obligated to pay the applicable per manifest fee for each manifest included in the submission. [Refer to "Manifest Completion, Transmittal and Recordkeeping" in this section for facility data items and activities associated with these requirements.]

*(e)(2) Making User Fee Payments and Sanctions for Delinquent Payments*

40 CFR 264.1314(a)-(c) and 265.1314(a)-(c) provide that all required fees shall be paid by the receiving facility in response to an electronic invoice or bill identifying manifest-related services provided the user during the previous month and identifying the fees owed for the enumerated services. All required fees shall be paid to EPA by the facility electronically in U.S. dollars, using one of the electronic payment methods supported by the Department of the Treasury's Pay.gov online electronic payment service, or any applicable additional or successor online electronic payment service offered by the Department of Treasury. All fees for which payments are owed in response to an electronic invoice or bill must be paid within 30 days of the date of the invoice or bill.

40 CFR 264.1315(a)-(c) and 265.1315(a)-(c) provide that, in accordance with 31 U.S.C. 3717(a)(1), delinquent e-Manifest user fee accounts shall be charged a minimum annual rate of interest equal to

the average investment rate for Treasury tax and loan accounts (Current Value of Funds Rate or CVFR) for the 12-month period ending September 30th of each year, rounded to the nearest whole percent. In accordance with 31 U.S.C. 3717(e), e-Manifest user fee accounts that are more than 90 days past due (i.e., not paid by date 120 days from date of invoice) shall be charged an additional penalty of 6% per year assessed on any part of the debt that is past due for more than 90 days, plus any applicable handling charges. A manifest is fully perfected when 1) the manifest has been submitted by the receiving facility to the e-Manifest system, as either an electronic submission or a paper manifest submission, and 2) all user fees arising from the submission of the manifest have been fully paid.

[Note: There are no data items or activities associated with these provisions.]

*(e)(3) Informal Fee Dispute Resolution*

40 CFR 264.1316(a) and 265.1316(a) provide that users of e-Manifest services that believe their invoice or charges to be in error must present their claims for fee dispute resolution informally using the described process.

40 CFR 264.1316(b) and 265.1316(b) provide that users asserting a billing dispute claim must first contact the system's billing representatives by phone or email at the phone number or email address provided for this purpose on the e-Manifest program's web site or other customer services directory. They must provide the information specified at 40 CFR 264.1316(b)(1) and (2) or 265.1316(b)(1) and (2). EPA's system billing representatives must respond to billing dispute claims within ten days of receipt of a claim.

40 CFR 264.1316(c) and 265.1316(c) provide that fee dispute claimants that are not satisfied by the response to their claim from the system's billing representatives may appeal their claim and initial decision to the Office Director for the Office of Resource Conservation and Recovery. Any appeal from the initial decision of the system's billing representatives must be taken within 10 days of the initial decision of the system's billing representatives. They must provide the information specified at 40 CFR 264.1316(c)(2) or 265.1316(c)(2). The Office Director shall review the record presented to him or her on an appeal and shall determine whether the claimant is entitled to relief from the invoice alleged to be in error, and if so, shall state the amount of the recalculated invoice and the amount of the invoice to be adjusted. The decision of the Office Director on any appeal is final and non-reviewable.

Data Items

As required by 40 CFR 264.1316(b)(1) or 265.1316(b)(1), information identifying the claimant and the invoice(s) that are affected by the dispute.

As required by 40 CFR 264.1316(b)(2) or 265.1316(b)(2), sufficient supporting information to identify the nature and amount of the fee dispute.

- As required by 40 CFR 264.1316(c)(2) or 265.1316(c)(2), information about the billing error.

### Respondent Activities

- Fee dispute claimants may contact the system's billing representatives by phone or email and provide the specified information under 40 CFR 264.1316(b) or 265.1316(b).
- Fee dispute claimants may appeal the billing representatives' decision by providing the information specified at 40 CFR 264.1316(c)(2) or 265.1316(c)(2) to the Office Director for the Office of Resource Conservation and Recovery.

## Estimating Respondent Hours and Costs – Section 13

### (a) Registrant Organization Requirements

#### (a1) *Reading the Regulations*

Exhibit 1 presents the total annual hour and cost burden to registrant organizations in reading the manifest regulations at 40 CFR 262.21. EPA expects that on average, one registrant organization will read 40 CFR 262.21 regulations each year.

#### (a2) *Applying to the Registry*

EPA estimates that each year, one entity will register with EPA to print its own forms. There are O&M costs to a registrant for paying a lump-sum fee and postage to produce and submit three samples of the manifest and continuation sheet under 40 CFR 262.21(d).

Under the proposed rule, the nine existing registrants<sup>23</sup> will be required to submit three fully assembled manifests and, if needed, continuation sheets that meet the specifications of 40 CFR 262.21(f) and a description of the form samples, as specified in 40 CFR 262.21(d). For purposes of the ICR, EPA estimates that, each year, three existing registrants will submit their manifest form samples.

#### (a3) *Updating General Information in the Approved Application*

EPA estimates that, each year, three registrant organizations will revise and submit their approved application to EPA, along with an indication or explanation of the update, under 40 CFR 262.21(h)(1).

#### (a4) *Requesting Approval for a New Tracking Number Suffix*

EPA estimates that no approved registrant organization will request a new tracking number suffix during the 3-year period covered by this ICR. Because each manifest tracking number consists of the 3-letter suffix and 9 digits, each registrant will be able to generate more than 999 million forms using its original suffix. EPA does not expect a registrant to request a new suffix for many years.

#### (a5) *Requesting Approval for Changes to Printing Specifications or Use of a New Printer*

EPA estimates that one registrant organization annually will request approval for changes to its form or for the use of a new printer under 40 CFR 262.21(e). There are O&M costs to a registrant for paying a lump-sum fee and postage to produce and submit three samples of the manifest and continuation sheet under 40 CFR 262.21(d).

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<sup>23</sup> For a list of organizations approved by the EPA Manifest Registry to print the RCRA hazardous waste manifest, refer to EPA's "Table of Approved Registrants" webpage at <https://www.epa.gov/hwgenerators/approved-registered-printers-epas-manifest-registry#table>.

*(a6) Typesetting the Manifest Form Subsequent to its Approval*

EPA estimates that no registrant organization will typeset its manifest form instead of using the electronic file of the forms provided by EPA during the 3-year period covered by this ICR. Upon approval of a registrant's application under 40 CFR 262.21(c), EPA will provide it with an electronic file of the manifest, continuation sheet, and instructions and ask it to use these files to develop the forms. In its consultations, EPA found that printers intend to share these files among their printing establishments so that none will need to typeset the form. Typesetting the form would be unappealing to registrants because of the level of effort required in comparison with using the electronic files.

*(a7) Requesting an Exemption*

EPA estimates that no registrant organizations will submit a request for an exemption under 40 CFR 262.21(j). EPA expects each registrant to be forward looking when originally registering under 40 CFR 262.21(b) through (e), and carefully select the appropriate paper type, paper weight, and other aspects of the form.

*(a8) Notifying EPA of a Printing Specification Violation*

EPA estimates that one registrant organization will notify EPA that it has duplicated tracking numbers on forms used or distributed to other parties. Registrants must print their forms according to their approved applications, which will lay out procedures for tightly controlling their tracking numbers and ensuring that each manifest has a unique number.

*(a9) Revising the Approved Manifest if Requested by EPA*

EPA estimates that no registrant organization will need to submit revised manifest form samples, per EPA's request, during the 3-year period covered by this ICR. EPA will carefully review each registrant's forms under 40 CFR 262.21(e) to determine if they satisfy the requirements of 40 CFR 262.21(f). EPA does not expect to identify problems in forms that have been approved.

*(a10) Responding to Suspension and Revocation Procedures*

EPA does not expect to conduct suspension or revocation procedures during the 3-year period covered by this ICR.

*(b) Generator Requirements*

*(b1) Reading the Regulations*

Exhibit 2 presents the total annual hour and cost burden to hazardous waste generators in reading the manifest regulations at 40 CFR Part 262 and, for e-Manifest users, the e-Manifest User Guide.<sup>24</sup>

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<sup>24</sup>This ICR does not burden generators manifesting state hazardous waste (paper or electronic) for reading the regulations. Such generators perform this activity because of state-specific, broader-in-scope program requirements in the absence of federal requirements to do so.

*(b2) Manifest Completion*

Exhibits 3 and 4 present the total annual hour and cost burden for generators to complete their paper and electronic manifests.<sup>25, 26</sup> Exhibit 3 estimates burden for generators to prepare the manifests on their own (i.e., without the assistance of the designated TSDF). Exhibit 4 estimates the burden for generators whose manifests are prepared by the designated TSDF on their behalf. These generators normally review and complete the manifest as needed (e.g., sign and date it) when the waste is picked up by the transporter.

*(b3) Compliance with State Program Requirements*

40 CFR 262.21(g)(2) provides that generators must determine whether they are required to comply with requirements specific to state hazardous waste manifest programs. Because these activities are required under state-specific hazardous waste programs, they are not burdened in this ICR as reflected in Exhibit 5.

*(b4) Manifest Transmittal and Recordkeeping*

As reflected in Exhibit 6, EPA estimates the burden for generators to transmit and keep records of manifests sent with highway shipments (91% of all shipments), bulk shipments within the United States solely by water (3%) and rail shipments within the United States which originate at the site of generation (6%).

The proposed rule modifies some of the manifest transmittal procedures for international shipments. For exports, proposed section 262.83(c)(2)(ii) requires the exporter to enter the exporter's EPA ID and email address on the continuation sheet, if the shipments is not initiated by the exporter (50% of export shipments). In addition, the exporter (instead of the transporter) must submit the manifest to the e-Manifest system for purposes of data entry and processing. For imports, the proposed rule would delete the requirement in 40 CFR 262.84(c)(4) that the importer provide an additional copy of the manifest to the transporter to be submitted by the receiving facility to EPA per sections 264.71(a)(3) and 265.71(a)(3). These changes to the information collection requirements are reflected in Exhibit 6.

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<sup>25</sup> Before using the e-Manifest system, users must establish an account and comply with 40 CFR Part 3 requirements (e.g., for obtaining electronic signatures), as applicable. It is assumed that all generators (federal and state) preparing electronic manifests will perform these activities. Refer to the ICR, "Cross-Media Electronic Reporting Rule," (EPA ICR No. 2002, OMB Control No. 2025-0003) for these activities and requirements for all applicable waste handlers in this ICR. In addition, a system user must obtain an EPA identification (ID) number if it does not have one already. Although waste handlers under the federal program already have an ID, some handlers of state hazardous waste may not. Refer to the ICR, "Hazardous Waste Report, Notification of Regulated Waste Activity, and Part A Hazardous Waste Permit Application and Modification," (EPA ICR No. 0976, OMB Control No. 2050-0024) for these handlers to submit a Site Identification Form requesting an EPA ID number.

<sup>26</sup> This ICR assumes that all generators signing the electronic manifest with a digitized electronic signature will be presented with an Electronic Signature Agreement (ESA) in the digitizer pad the first time they sign it. They will sign the ESA once and it will be uploaded to the national system. They also must sign the generator signature block on that manifest and all subsequent manifests.

*(b5) Undeliverable Shipments*

As shown in Exhibit 7, EPA estimates generators' burden for shipments (paper and electronic manifests) that cannot be delivered to the designated facility listed on the manifest, alternate designated facility if appropriate, or the place outside the United States designated by the generator (for an emergency other than rejected loads). Generators must perform the procedures in section 262.20(d). The exhibit also estimates importers' burden for addressing import shipments that cannot be delivered for any reason to the receiving facility, as required by section 262.84(c)(5).

*(b6) Rejected Waste and Container Residues*

As shown in Exhibit 8, EPA estimates that, each year, 0.5% of shipments received by designated facilities will be rejected and, of these, 1% will be returned to the generator (with the other 99% being sent to an alternate designated facility).

*(b7) Exception Reports: Completion, Submission, and Recordkeeping*

EPA estimates that, on average, LQGs and SQGs will need to develop an exception report under 40 CFR 262.42 for approximately 1% of the manifests offered into transportation. This assumption is reflected in Exhibit 9.

Proposed sections 262.42(d) and (e) establish a more-automated, electronic exception report system, wherein the validation for the need for an exception report, as well as generation of the report itself, would be conducted automatically. Then, provided the generator is registered with the e-Manifest system, they can sign the auto-generated exception report and have it sent directly to EPA.<sup>27</sup> These changes to the information collection requirements are reflected in Exhibit 9.

*(c) Transporter Requirements*

*(c1) Reading the Regulations*

Exhibit 10 presents the total annual hour and cost burden to hazardous waste transporters in reading the manifest regulations at 40 CFR Part 263 and, for e-Manifest users, the e-Manifest User Guide.<sup>28</sup>

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<sup>27</sup> Before using the e-Manifest system, users must establish an account and comply with 40 CFR Part 3 requirements (e.g., for electronic signatures), as applicable. It is assumed that all generators submitting electronic exception reports will perform these activities. Refer to the ICR, "Cross-Media Electronic Reporting Rule," (EPA ICR No. 2002, OMB Control No. 2025-0003) for these activities and requirements for all applicable waste handlers in this ICR.

<sup>28</sup> This ICR does not burden transporters manifesting state hazardous waste (paper or electronic) for reading the regulations. Such transporters perform this activity because of state-specific, broader-in-scope program requirements in the absence of federal requirements to do so.

(c2) *Manifest Completion, Transmittal, and Recordkeeping*

Exhibit 11 examines the manifesting burden for transporters transporting domestic and international shipments of hazardous waste.<sup>29, 30</sup> EPA estimates that, of the manifests offered into transportation each year, approximately 91% will accompany highway shipments, 3% will accompany water shipments, and 6% will accompany rail shipments.

Note that, for exports, EPA is proposing two changes to the transporter manifest transmittal procedures. Under proposed section 262.20(g)(1), the transporter must date (not sign) the manifest when the shipment crosses domestic borders. In addition, the proposed rule would add new provisions to section 262.83 that would require exporters, rather than transporters, to submit export manifests to EPA for processing. These proposed changes are reflected in Exhibit 11.

Exhibit 11 also addresses undeliverable shipments. This ICR estimates that 1% of all manifests offered into transportation (paper and electronic) cannot be delivered to the designated facility listed on the manifest, alternate designated facility if appropriate, or the place outside the United States designated by the generator (for an emergency other than rejected loads). As reflected in Exhibit 11, the transporter must contact the generator for further instructions pursuant to section 263.21(b)(1). Finally, Exhibit 11 addresses rejected loads and container residues.

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<sup>29</sup> Before using the e-Manifest system, users must establish an account and comply with 40 CFR Part 3 requirements (e.g., for electronic signatures), as applicable. It is assumed that all transporters (federal and state) carrying paper or electronic manifests will perform these activities. Refer to the ICR, "Cross-Media Electronic Reporting Rule," (EPA ICR No. 2002, OMB Control No. 2025-0003) for these activities and requirements for all applicable waste handlers in this ICR. In addition, a system user must obtain an EPA identification (ID) number if it does not have one already. Although waste handlers under the federal program already have an ID, some handlers of state hazardous waste may not. Refer to the ICR, "Hazardous Waste Report, Notification of Regulated Waste Activity, and Part A Hazardous Waste Permit Application and Modification," (EPA ICR No. 0976, OMB Control No. 2050-0024) for these handlers to submit a Site Identification Form requesting an EPA ID number.

<sup>30</sup> This ICR assumes that all transporters signing the electronic manifest with a digitized electronic signature will be presented with an Electronic Signature Agreement (ESA) in the digitizer pad the first time they sign it. They will sign the ESA once and it will be uploaded to the national system. They also must sign the transporter signature block on that manifest and all subsequent manifests.

(c3) *Replacement Manifests*

Exhibit 12 estimates that 1% of electronic manifests carried by highway transporters will require replacement manifests. EPA assumes that all electronic manifests will be replaced by reproducing 3 paper copies.

(c4) *Post-Receipt Manifest Data Corrections*

EPA expects each transporter company to register its employees with the e-Manifest system and have system access to make corrections.<sup>31</sup> Exhibit 13 reflects EPA's estimate that transporters will submit corrections or respond with comments for 0.1% of all manifests (paper and electronic) accompanying federal and state waste annually.

(c5) *Notification of Discharge of Hazardous Waste*

Based on the *Statistical Abstract of the United States*, EPA estimates that approximately 15,000 accidents per year involve transporters of hazardous substances. EPA has used its best judgment to estimate that 5% of these accidents involve transporters of hazardous waste annually (i.e., hazardous waste is a subset of hazardous substances). These transporters will be required to notify local authorities of the discharge as required under 40 CFR 263.30. This is reflected in Exhibit 14.

In addition, based on data from the National Response Center (NRC), EPA estimates that the NRC receives approximately 4,500 notifications of marine source incidents for discharges of oil or hazardous substances annually. NRC data also indicate that about 66% of these incidents involved oil discharges and 33% involved hazardous substances discharges. Of the discharges of hazardous substances, EPA estimates that 5% involve water transporters transporting hazardous waste. These transporters must notify NRC or EPA under 33 CFR Part 153. The purpose of 33 CFR Part 153 is to prescribe regulations concerning notification to the US Coast Guard of the discharge of oil or hazardous substances as required by the Federal Water Pollution Control Act, as amended; the procedures for the removal of a discharge of oil; and the costs that may be imposed or reimbursed for the removal of a discharge of oil or hazardous substances.

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<sup>31</sup> All corrections must be made in the e-Manifest system. Before entering a correction, users must establish a system account and comply with 40 CFR Part 3 requirements (e.g., for electronic signatures), as applicable. The ICR, "Cross-Media Electronic Reporting Rule," (EPA ICR No. 2002, OMB Control No. 2025-0003), addresses these activities and requirements for all transporters in this ICR.

(d) Designated Treatment, Storage, and Disposal Facility Requirements<sup>32</sup>

(d1) *Reading the Regulations*

Exhibit 15 presents the total annual hour and cost burden to designated TSDFs/receiving facilities in reading the manifest regulations at 40 CFR Part 264 or 265 and, for e-Manifest users, the e-Manifest User Guide.<sup>33</sup>

(d2) *Completing the Manifest (assisting the generators)*

Exhibit 16 estimates the burden for designated TSDFs to assist their generator customers in preparing the manifest on their behalf.

(d3) *Transmitting the Manifest and Reporting to EPA*

Exhibit 17 estimates the burden for designated TSDF/receiving facility completion of all manifests (paper and electronic) involved in the manifest cycle as described in Tables 1 and 6.<sup>34, 35</sup> For all manifests involved in the manifest cycle, proposed sections 264.71(a)(2)(iv) and 265.71(a)(2)(iv) would require the U.S. receiving facility to send a copy of the manifest to the e-Manifest system, not to the generator.

In regard to paper manifests accompanying state hazardous waste, EPA recognizes that a number of receiving facilities must complete these forms under existing state requirements. This ICR need not estimate the burden for such paper manifests because these activities are being performed under state-specific, broader-in-scope program requirements in the absence of federal requirements to do so. However, EPA is aware that some shipments of state waste have faced implementation and tracking challenges when they cross state lines, making it unclear if the facility must complete and return the

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<sup>32</sup> The final fee rule establishes provisions applicable to RCRA Subtitle C TSDFs as well as non-Subtitle C facilities as specified. For purposes of organization and clarity, the burden to Subtitle C and non-Subtitle C facilities is estimated together in this section.

<sup>33</sup> This ICR does not burden receiving facilities manifesting state hazardous waste (paper or electronic) for reading the regulations. Such facilities perform this activity because of state-specific, broader-in-scope program requirements in the absence of federal requirements to do so.

<sup>34</sup> Before using the e-Manifest system, users must establish an account and comply with 40 CFR Part 3 requirements (e.g., for obtaining electronic signatures), as applicable. It is assumed that all facilities (federal and state) will perform these activities. Refer to the ICR, "Cross-Media Electronic Reporting Rule," (EPA ICR No. 2002, OMB Control No. 2025-0003) for these activities and requirements for all applicable waste handlers in this ICR. In addition, a system user must obtain an EPA identification (ID) number if it does not have one already. Although waste handlers under the federal program already have an ID, some handlers of state hazardous waste may not. Refer to the ICR, "Hazardous Waste Report, Notification of Regulated Waste Activity, and Part A Hazardous Waste Permit Application and Modification," (EPA ICR No. 0976, OMB Control No. 2050-0024) for these handlers to submit a Site Identification Form requesting an EPA ID number.

<sup>35</sup> This ICR assumes that all facilities signing the electronic manifest with a digitized electronic signature will be presented with an Electronic Signature Agreement (ESA) in the digitizer pad the first time they sign it. They will sign the ESA once and it will be uploaded to the national system. They also must sign the facility signature block on that manifest and all subsequent manifests.

manifest.<sup>36</sup> The federal regulations could place incremental burden on these facilities by clarifying that completion is mandatory for all manifests accompanying state waste.

Because of this, Exhibit 17 estimates burden for facilities to complete paper manifests accompanying state waste that would not have been completed under state regulations. EPA estimates that 25% of paper manifests accompanying state waste are completed as a result of the federal regulations.<sup>37</sup> It is assumed that the remaining 75% of paper manifests were already being completed under state regulations and need not be addressed in this ICR.

In addition, facilities must submit copies of the paper manifest to the national system in accordance with 40 CFR 260.4, 260.5, 264.71(a)(2)(v) or 265.71(a)(2)(v). Based on e-Manifest data, EPA estimated the annual submittal rate for each method as shown in Table 9. The table shows that, on average annually during the 3-year life of this ICR, 0% of paper manifests will be submitted as mailed paper copies, 24% as image files, and 60% as data files and image files.

**Table 9**  
**Annual Manifest Submittal Rates, by Submittal Method**

Submittal Method	Year 1	Year 2	Year 3	3-Year Average
Mailed Paper	0%	0%	0%	0%
Image only *	14.50%	14.50%	12%	14%
Data & Image **	85%	85%	72%	81%
Electronic	0.5%	0.5%	16%	5%
Total	100%	100%	100%	100%

\* Facilities scan and upload each copy.

\*\* Facilities have two options for submission: Web method or Service method. In the Web method, the facility enters (e.g., key punches) data on each manifest into the e-Manifest system. In the Service method, the facility

<sup>36</sup> For example, the manifest requirements may not be fully clear for waste shipments that originate in a state with more extensive or broader-in-scope coverage and that are then shipped out-of-state to a receiving facility in a state where the waste is not regulated as hazardous and does not require a manifest under the law of the destination state.

<sup>37</sup> In July 2017, EPA spoke with a representative of the New York State Department of Environmental Conservation's manifest processing department. The state program collects, reviews, corrects and enters manifest data into its data system. He believes that there are clear incentives for generators to make efforts to ensure that receiving facilities complete and return the manifest in such interstate shipment scenarios. In particular, if the generator's state requires the manifesting of state waste, it can be assumed that the generator is bound by the state's regulations to retain the facility's signed copy. Therefore, one can generally expect generators to persuade unresponsive receiving facilities to complete and return them. Because of this, he estimated that facilities are, or should be, completing and returning the majority of manifests even in the absence of the fee rule's provisions. EPA agrees with his input and notes that interstate shipments represent only a portion of all shipments of state hazardous waste. Some shipments begin and end in the same state or travel between two states that regulate the same state-specific waste, obviating inter-state difficulties. Because of these observations, EPA believes 25% is a reasonable estimate of the percentage of manifests accompanying state waste that are not completed under state law by receiving facilities but that must be completed under the final rule.

upgrades and maintains its in-house data system, which uploads manifest data automatically. All facilities must scan and upload each manifest.

For purposes of this ICR, EPA estimates that Years 1, 2, and 3 correspond approximately to calendar years 2022, 2023, and 2024.

These estimates are reflected in Exhibit 17.<sup>38</sup>

*(d4) Compliance with State Program Requirements*

40 CFR 264.71(e) and 265.71(e) provide that TSDFs must determine whether they are required to comply with requirements specific to state hazardous waste manifest programs. Because these activities are required under state hazardous waste programs, they are not burdened in this ICR. This is reflected in Exhibit 17.

*(d5) Discrepancy Reports*

As reflected in Exhibit 17, EPA estimates that approximately 12% of manifests accepted by the designated facilities require reconciling discrepancies between the manifest data and the shipment (e.g. by phoning the generator). EPA further estimates that 2% of manifests accepted by the designated facility will require a discrepancy report under 40 CFR 264.72 or 265.72.

The proposed rule establishes a framework for electronic Discrepancy Reporting, wherein an automated system would identify relevant discrepancies, allow for the electronic submission of corrections, and if the relevant timeframe is exceeded without sufficient correction, auto-generate a Discrepancy Report that can be electronically submitted by the receiving facility. Exhibit 17 reflects the change in burden associated with the proposed change.

*(d6) Rejected Waste and Container Residues*

As shown in Exhibit 18, EPA estimates the burden for designated facilities to reject a shipment or identify and ship a container residue.

*(d7) Post-Receipt Manifest Data Corrections*

EPA expects each receiving facility (federal and state) to register with the e-Manifest system and have system access for corrections.<sup>39</sup> Based on e-Manifest data, EPA estimates that facilities will submit corrections or respond with comments for 2% of manifests (paper and electronic) accompanying federal and state waste annually, as reflected in Exhibit 19.<sup>40</sup>

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<sup>38</sup> Receiving facilities are required to submit manifest copies to EPA under various regulations of 40 CFR. All facility burdens for copy submission are captured in these paragraphs and reflected in Exhibit 17, except if otherwise specified.

<sup>39</sup> All corrections must be made in the e-Manifest system. Before entering a correction, users must establish a system account and comply with 40 CFR Part 3 requirements (e.g., for electronic signatures), as applicable. It is assumed that all receiving facilities will perform these activities and have system access. The ICR, "Cross-Media Electronic Reporting Rule," (EPA ICR No. 2002, OMB Control No. 2025-0003), addresses these activities and requirements for all receiving facilities.

<sup>40</sup> These corrections are in addition to discrepancies that facilities must address under 40 CFR 264.72 or 265.72 procedures.

(d8) *Unmanifested Waste Reports: Completion and Submission*

As shown in Exhibit 20, EPA estimates that receiving facilities will need to notify the Agency of any shipments of hazardous waste that arrive at the facility without a manifest (i.e., un-manifested waste shipment).

Under the proposed rule, EPA would only accept electronic submissions of an Unmanifested Waste Report to the system by the receiving facility. EPA would no longer accept Unmanifested Waste Reports through a written, hard copy report. Thus, under the proposed approach, receiving facilities would need e-Manifest system access to submit Unmanifested Waste Reports. EPA proposes to impose a user fee on receiving facilities for each submission of an Unmanifested Waste Report.

(d9) *Fees for the Electronic Hazardous Waste Manifest Program*

Exhibit 21 estimates the annual fee amount paid by facilities as well as other activities performed in compliance with 40 CFR Part 264 and 265, Subpart FF. The regulations set forth a methodology and requirements for EPA to calculate user fees for paper and electronic manifests. The national system will collect fees directly from TSDFs/receiving facilities, taking into account the submittal method and number of forms.

Table 6 estimates that 1,785,405 manifests will accompany federal and state waste manifests (electronic and paper) annually. Table 9 presents the average annual manifest submittal rates. Table 10 combines these data to estimate the annual number of manifests by submittal method for which fees must be paid.

**Table 10**  
**Annual Submittal Rates and Number Manifests, by Submittal Method\***

<b>Submittal Method</b>	<b>3-Year Annual Average Percentage**</b>	<b>Annual Number of Manifests for Which Fees Are Paid</b>
Mailed Paper	0%	0
Image only	14%	256,057
Data & Image	81%	1,482,391
Electronic	5%	109,739
Total	100%	1,828,976

\*Table includes rounding error.

\*\*These average annual percentages are calculated in Table 9 of this document. Averages include rounding.

Table 11 presents EPA's preliminary estimate of the average per-manifest user fees over the 3-year life of this ICR.<sup>41</sup> Exhibit 21 applies these fees to the total annual number of manifests for which fees must be paid as shown in Table 10.<sup>42</sup>

<sup>41</sup> These are the current user fees.

<sup>42</sup> These fees are considered O&M costs for purposes of presentation in Exhibit 21.

**Table 11**  
**User Fees per Manifest, by Submittal Method**

Submittal Method	Fee per Manifest
Mailed Paper	\$0.00
Image only	\$20.00
Data & Image	\$13.00
Electronic	\$8.00

The exhibit also estimates the burden to facilities for implementing the informal fee dispute resolution procedures at 40 CFR 264.1316 and 265.1316.

In addition to making changes to manifest information collection requirements, the proposed rule also makes changes to the RCRA hazardous waste international movement document requirements to more closely link the manifest data with the international movement document data. Specifically, EPA would require exporters and importers to list the RCRA manifest tracking number in the international movement document, if the shipment is required to be manifested while being transported in the United States. EPA estimates the hour and cost burden that exporters and importers would incur in complying with the new international movement document requirements in Table 12. The burden associated with these new requirements would be covered under the ICR (EPA ICR Number; OMB Control Number).

**Table 12**  
**Annual Respondent Hour and Cost Burden Associated with New International Movement Document Requirements**

ICR Name	EPA ICR Number	Hours/Year	Labor Cost/Year	Capital Cost/Year	O&M Cost/Year	Total Cost/Year
Hazardous Waste Generator Standards	820	362	\$14,450	\$0	\$0	\$14,450

# Exhibits 1 through 21

EXHIBIT 1  
ESTIMATED ANNUAL HOUR AND COST BURDEN FOR MANIFEST PRINTER REGISTRANT ORGANIZATIONS <sup>a</sup>

	Hours per Registrant				Hours/ Respondent	Labor Cost/ Respondent	O&M Costs/ Respondent	Number of Registrants	Total Hours	Total Cost
	Legal @ \$114.57/hr	Managerial @ \$97.01/hr	Technical @ \$40.03/hr	Clerical @ \$34.23/hr						
<b>Read the regulations</b>	0.00	0.25	1.00	0.00	1.25	\$64.28	\$0.00	1	1	\$64
<b>Applying to the Registry</b>										
Prepare and submit initial application	0.00	0.25	1.00	0.10	1.35	\$67.71	\$5.31	1	1	\$73
Submit revised initial application to EPA, if requested	0.00	0.10	0.50	0.10	0.70	\$33.14	\$5.31	1	1	\$38
Submit three fully assembled manifests and, if needed, continuation sheets and a description of the form samples	0.00	0.10	0.17	0.10	0.37	\$19.93	\$1,130.31	4	1	\$4,601
Submit revised form samples based on EPA comment on the initial samples, if requested	0.00	0.10	0.17	0.10	0.37	\$19.93	\$1,130.31	2	1	\$2,301
<b>Updating General Information in the Approved Application</b>										
Revise and submit the application to EPA, along with an indication or explanation of the update	0.00	0.10	0.17	0.10	0.37	\$19.93	\$0.61	3	1	\$62
Respond to the Agency's concerns, if applicable	0.00	0.10	0.17	0.00	0.27	\$16.51	\$0.00	1	0	\$17
<b>Requesting Approval for a New Tracking Number Suffix</b>										
Submit a proposed tracking number suffix, along with the reason for requesting it	0.00	0.10	0.17	0.10	0.37	\$19.93	\$0.61	0	0	\$0
<b>Requesting Approval for Changes to Printing Specifications or Use of a New Printer</b>										
Submit three samples of the manifest form and/or continuation sheet and, if applicable, a brief description of the qualifications of the new printer	0.00	0.10	0.17	0.10	0.37	\$19.93	\$1,130.31	1	0	\$1,150
Submit revised manifest form and/or continuation sheet samples to EPA, if requested	0.00	0.10	0.17	0.10	0.37	\$19.93	\$1,130.31	1	0	\$1,150
<b>Typesetting the Manifest Form Subsequent to its Approval</b>										
Submit three samples of the manifest or continuation sheet to the registry for approval	0.00	0.00	0.17	0.10	0.27	\$10.23	\$1,130.31	0	0	\$0
<b>Requesting an Exemption</b>										
Submit documentation to EPA indicating why an exemption is warranted	0.00	0.10	0.17	0.10	0.37	\$19.93	\$0.61	0	0	\$0
<b>Notifying EPA of a Printing Specification Violation</b>										
Notify EPA of duplicated manifest tracking numbers	0.00	0.00	0.25	0.00	0.25	\$10.01	\$2.00	1	0	\$12
<b>Revising the Approved Manifest if Requested by EPA</b>										
Submit revised manifest form samples to EPA, if requested	0.00	0.10	0.17	0.10	0.37	\$19.93	\$1,130.31	0	0	\$0
<b>Responding to Suspension and Revocation Procedures</b>										
Submit information if requested by EPA	0.00	0.25	0.50	0.00	0.75	\$44.27	\$0.61	0	0	\$0
<b>TOTAL</b>	<b>0.00</b>	<b>varies</b>	<b>varies</b>	<b>varies</b>	<b>varies</b>	<b>varies</b>	<b>varies</b>	<b>varies</b>	<b>6</b>	<b>\$9,468</b>

<sup>a</sup> Exhibit contains rounding error.

EXHIBIT 2  
ESTIMATED ANNUAL HOUR AND COST BURDEN FOR GENERATORS <sup>a</sup>  
READING THE REGULATIONS AND E-MANIFEST USER GUIDE

	Hours per Generator				Hours/ Respondent	Labor Cost/ Respondent	O&M Costs/ Respondent	Number of Generators	Total Hours	Total Cost
	Legal @ \$114.57/hr	Managerial @ \$97.01/hr	Technical @ \$40.03/hr	Clerical @ \$34.23/hr						
<b>Read the regulations and e-Manifest user guide</b>										
Read the regulations	0.00	0.25	1.00	0.00	1.25	\$64.28	\$0.00	97,694	122,118	\$6,279,775
Read the User Guide for e-Manifest	0.00	0.50	1.50	0.00	2.00	\$108.55	\$0.00	11,990	23,980	\$1,301,515
<b>TOTAL</b>	<b>0.00</b>	<b>varies</b>	<b>varies</b>	<b>0.00</b>	<b>varies</b>	<b>varies</b>	<b>\$0.00</b>	<b>varies</b>	<b>146,098</b>	<b>\$7,581,290</b>

<sup>a</sup> Exhibit contains rounding error.

EXHIBIT 3  
ESTIMATED ANNUAL HOUR AND COST BURDEN FOR GENERATORS <sup>a</sup>  
COMPLETING THE MANIFEST (WITHOUT ASSISTANCE OF DESIGNATED FACILITIES)

	Hours per Generator				Hours/ Respondent	Labor Cost/ Respondent	O&M Costs/ Respondent	Number of Manifests	Total Hours	Total Cost
	Legal @ \$114.57/hr	Managerial @ \$97.01/hr	Technical @ \$40.03/hr	Clerical @ \$34.23/hr						
<b>Manifest completion</b>										
<b>Paper Manifest</b>										
Complete the manifest for domestic, export and import shipments	0.00	0.00	0.40	0.10	0.50	\$19.44	\$0.61	156,113	78,057	\$3,130,066
Complete the continuation sheet	0.00	0.00	0.19	0.04	0.23	\$8.98	\$0.61	39,028	8,976	\$374,281
<b>Electronic Manifest</b>										
Complete the manifest for domestic, export and import shipments	0.00	0.00	0.08	0.03	0.11	\$4.23	\$0.00	15,570	1,713	\$65,861
Complete the continuation sheet	0.00	0.00	0.04	0.01	0.05	\$1.94	\$0.00	3,893	195	\$7,551
Call Help Desk	0.00	0.00	5.00	0.00	5.00	\$200.16	\$2.00	11,990	59,950	\$2,423,898
<b>TOTAL</b>	<b>0.00</b>	<b>0.00</b>	<b>varies</b>	<b>varies</b>	<b>varies</b>	<b>varies</b>	<b>varies</b>	<b>varies</b>	<b>148,891</b>	<b>\$6,001,657</b>

<sup>a</sup> Exhibit contains rounding error.

EXHIBIT 4  
ESTIMATED ANNUAL HOUR AND COST BURDEN FOR GENERATORS <sup>a</sup>  
COMPLETING THE MANIFEST (WITH ASSISTANCE OF DESIGNATED FACILITIES)

	Hours per Generator				Hours/ Respondent	Labor Cost/ Respondent	O&M Costs/ Respondent	Number of Manifests	Total Hours	Total Cost
	Legal @ \$114.57/hr	Managerial @ \$97.01/hr	Technical @ \$40.03/hr	Clerical @ \$34.23/hr						
<b>Manifest completion</b>										
Complete the manifest for domestic, export and import shipments	0.00	0.00	0.02	0.01	0.03	\$1.14	\$0.00	1,038,368	31,151	\$1,183,740
<b>TOTAL</b>	<b>0.00</b>	<b>0.00</b>	<b>0.02</b>	<b>0.01</b>	<b>0.03</b>	<b>\$1.14</b>	<b>\$0.00</b>	<b>1,038,368</b>	<b>31,151</b>	<b>\$1,183,740</b>

<sup>a</sup> Exhibit contains rounding error.

EXHIBIT 5  
ESTIMATED ANNUAL HOUR AND COST BURDEN FOR GENERATORS <sup>a</sup>  
COMPLIANCE WITH STATE PROGRAM REQUIREMENTS

	Hours per Generator				Hours/ Respondent	Labor Cost/ Respondent	O&M Costs/ Respondent	Number of Phone Calls	Total Hours	Total Cost
	Legal @ \$114.57/hr	Managerial @ \$97.01/hr	Technical @ \$40.03/hr	Clerical @ \$34.23/hr						
<b>Compliance with State program requirements</b>										
Contact the consignment/generator State if needed and submit any copies of the manifest to these States, as applicable	0.00	0.00	0.00	0.00	0.00	\$0.00	\$0.00	0	0	\$0
<b>TOTAL</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>0</b>	<b>0</b>	<b>\$0</b>

<sup>a</sup> Exhibit contains rounding error.

EXHIBIT 6  
ESTIMATED ANNUAL HOUR AND COST BURDEN FOR GENERATORS <sup>3</sup>  
TRANSMITTING THE MANIFEST

	Hours per Generator				Hours/ Respondent	Labor Cost/ Respondent	O&M Costs/ Respondent	Number of Manifests	Total Hours	Total Cost
	Legal @ \$114.57/hr	Managerial @ \$97.01/hr	Technical @ \$40.03/hr	Clerical @ \$34.23/hr						
<b>Manifest transmittal and recordkeeping</b>										
<b>Paper Manifest</b>										
Sign the manifest certification and obtain the signature of the initial transporter and date of acceptance on the manifest	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	1,100,312	11,003	\$440,125
Keep a copy of the manifest and give the remaining copies to the initial transporter	0.00	0.00	0.00	0.10	0.10	\$3.42	\$0.00	1,100,312	110,031	\$3,763,067
Keep a copy of the manifest returned from the designated facility	0.00	0.00	0.00	0.10	0.10	\$3.42	\$0.00	1,100,312	110,031	\$3,763,067
For shipments solely by water, send three copies of the manifest, dated and signed, to the designated facility or the last water transporter to handle the waste in the U.S.	0.00	0.00	0.00	0.16	0.16	\$5.48	\$0.61	33,009	5,281	\$201,024
For shipments by rail originating at the site of generation, send at least three copies of the manifest to the next non-rail transporter, the designated facility, or the last rail transporter to handle the waste in the U.S.	0.00	0.00	0.00	0.16	0.16	\$5.48	\$0.61	66,019	10,563	\$402,056
Enter the generator's email address	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	1,100,312	11,003	\$440,125
<b>Electronic Manifest - QuickSign</b>										
Conduct witnessed signature ceremony with transporter	0.00	0.00	0.03	0.00	0.03	\$1.20	\$0.00	72,055	2,162	\$86,466
Provide paper manifest to transporter (only for generators that prepare manifest without TSDf assistance)	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	9,367	94	\$3,747
For manifests initiated under 262.24(c)(1), sign the manifest certification by hand, obtain the signature of the initial transporter and date, keep a copy, and receive notice of manifest receipt by designated TSDf	0.00	0.00	0.01	0.12	0.13	\$4.51	\$0.00	2,195	285	\$9,898
For shipments solely by water, send copy of the manifest to the designated facility or the last water transporter to handle the waste in the U.S.	0.00	0.00	0.00	0.03	0.03	\$1.03	\$0.61	2,162	65	\$3,546
For shipments by rail originating at the site of generation, send copy of the manifest to the next non-rail transporter, the designated facility, or the last rail transporter to handle the waste in the U.S.	0.00	0.00	0.00	0.03	0.03	\$1.03	\$0.61	4,323	130	\$7,090
<b>Electronic Manifest - PIN/Password</b>										
Conduct witnessed signature ceremony with transporter	0.00	0.00	0.03	0.00	0.03	\$1.20	\$0.00	0	0	\$0
Provide paper manifest to transporter (only for generators that prepare manifest without TSDf assistance)	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	0	0	\$0
For manifests initiated under 262.24(c)(1), sign the manifest certification by hand, obtain the signature of the initial transporter and date, keep a copy, and receive notice of manifest receipt by designated TSDf	0.00	0.00	0.01	0.12	0.13	\$4.51	\$0.00	0	0	\$0
For shipments solely by water, send copy of the manifest to the designated facility or the last water transporter to handle the waste in the U.S.	0.00	0.00	0.00	0.03	0.03	\$1.03	\$0.61	0	0	\$0
For shipments by rail originating at the site of generation, send copy of the manifest to the next non-rail transporter, the designated facility, or the last rail transporter to handle the waste in the U.S.	0.00	0.00	0.00	0.03	0.03	\$1.03	\$0.61	0	0	\$0
<b>Electronic Manifest - Digitized Electronic Signature</b>										
Sign e-manifest	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	0	0	\$0
Provide paper manifest to transporter (only for generators that prepare manifest without TSDf assistance)	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	0	0	\$0
For manifests initiated under 262.24(c)(1), sign the manifest certification by hand, obtain the signature of the initial transporter and date, keep a copy, and receive notice of manifest receipt by designated TSDf	0.00	0.00	0.01	0.12	0.13	\$4.51	\$0.00	0	0	\$0
For shipments solely by water, send copy of the manifest to the designated facility or the last water transporter to handle the waste in the U.S.	0.00	0.00	0.00	0.03	0.03	\$1.03	\$0.61	0	0	\$0
For shipments by rail originating at the site of generation, send copy of the manifest to the next non-rail transporter, the designated facility, or the last rail transporter to handle the waste in the U.S.	0.00	0.00	0.00	0.03	0.03	\$1.03	\$0.61	0	0	\$0
<b>Assurances from Designated TSDf</b>										
If applicable, contact the designated facility to assure it 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, as required under 40 CFR 262.23(e).	0.00	0.00	0.08	0.00	0.08	\$3.20	\$0.00	1,210	97	\$3,872
<b>Import Shipments</b>										
Provide the transporter with an additional copy of the manifest to be submitted by the receiving facility to U.S. EPA in accordance with 40 CFR 264.71(a)(3) and 265.71(a)(2), as required by 40 CFR 262.84(c)(4)	0.00	0.00	0.00	0.00	0.00	\$0.00	\$0.00	0	0	\$0
<b>Export Shipments</b>										
In the International Shipments block on the Continuation Sheet (EPA Form 8700-22A), enter the exporter's EPA ID number (if shipment is not initiated by exporter).	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	8,263	83	\$3,305
In the International Shipments block on the Continuation Sheet (EPA Form 8700-22A), enter the exporter's email address (if shipment is not initiated by exporter).	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	8,263	83	\$3,305
Send a copy to e-Manifest	0.00	0.00	0.03	0.00	0.03	\$1.20	\$0.00	24,976	749	\$29,972
<b>Reclamation Agreements</b>										
Retain a copy of each reclamation agreement	0.00	0.00	0.00	0.10	0.10	\$3.42	\$0.00	4,729	473	\$16,173
<b>Post-Receipt Manifest Data Corrections</b>										
Submit email (off-line generators)	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	1,954	20	\$782
Submit a correction or respond with comments	0.00	0.00	0.11	0.00	0.11	\$4.40	\$0.00	1,210	133	\$5,324
<b>TOTAL</b>	0.00	0.00	varies	varies	varies	varies	varies	varies	262,286	\$9,182,944

<sup>3</sup> Exhibit contains rounding error.

EXHIBIT 7  
ESTIMATED ANNUAL HOUR AND COST BURDEN FOR GENERATORS<sup>a</sup>  
UNDELIVERABLE SHIPMENTS

	Hours per Generator				Hours/ Respondent	Labor Cost/ Respondent	O&M Costs/ Respondent	Number of Manifests	Total Hours	Total Cost
	Legal @ \$100.86/hr	Managerial @ \$85.00/hr	Technical @ \$42.06/hr	Clerical @ \$23.30/hr						
<b>Undeliverable shipments</b>										
<b>Undeliverable shipments to TSDF or alternate TSDF</b>										
Provide instructions to transporter to revise the manifest	0.00	0.00	0.08	0.00	0.08	\$0.00	\$0.00	12,077	966	\$0
<b>Undeliverable shipments to next transporter</b>										
Provide instructions to transporter and authorize revisions to the manifest (for generators with no contract provision authorizing transporter revisions)	0.00	0.00	0.08	0.00	0.08	\$3.36	\$0.00	121,005	9,680	\$406,577
Review contract provision authorizing transporter to revise the manifest (for generators establishing contract provision authorizing transporter revisions)	0.01	0.01	0.01	0.00	0.03	\$1.01	\$0.00	16,282	488	\$16,445
<b>Undeliverable Import Shipments</b>										
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	0.00	0.00	0.08	0.00	0.08	\$3.20	\$0.00	15	1	\$49
<b>TOTAL</b>	<b>varies</b>	<b>0.00</b>	<b>varies</b>	<b>0.00</b>	<b>varies</b>	<b>varies</b>	<b>\$0.00</b>	<b>varies</b>	<b>11,135</b>	<b>\$423,071</b>

<sup>a</sup> Exhibit contains rounding error.

EXHIBIT 8  
ESTIMATED ANNUAL HOUR AND COST BURDEN FOR GENERATORS<sup>a</sup>  
REJECTED WASTE AND CONTAINER RESIDUES

	Hours per Generator				Hours/ Respondent	Labor Cost/ Respondent	O&M Costs/ Respondent	Number of Manifests	Total Hours	Total Cost
	Legal @ \$114.57/hr	Managerial @ \$97.01/hr	Technical @ \$40.03/hr	Clerical @ \$34.23/hr						
<b>Rejected waste and container residues</b>										
<b>Paper Manifest</b>										
Sign Item 18c of the manifest, if the transporter returned the shipment using the original manifest	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	27	0	\$11
Sign Item 20 of the manifest, if the transporter returned the shipment using a new manifest	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	27	0	\$11
Provide the transporter a copy of the manifest	0.00	0.00	0.17	0.00	0.17	\$6.81	\$0.00	54	9	\$368
Within 30 days of delivery, send a copy to the designated TSDF that returned the shipment to the generator	0.00	0.00	0.00	0.15	0.15	\$5.13	\$0.61	54	8	\$310
Retain a copy	0.00	0.00	0.00	0.17	0.17	\$5.82	\$0.00	54	9	\$314
<b>Electronic Manifest - QuickSign</b>										
Sign Item 18c of the manifest, if the transporter returned the shipment using the original manifest	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	3	0	\$1
Sign Item 20 of the manifest, if the transporter returned the shipment using a new manifest	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	3	0	\$1
<b>Electronic Manifest - PINPassword</b>										
Sign Item 18c of the manifest, if the transporter returned the shipment using the original manifest	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	0	0	\$0
Sign Item 20 of the manifest, if the transporter returned the shipment using a new manifest	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	0	0	\$0
<b>Electronic Manifest - Digitized Electronic Signature</b>										
Sign Item 18c of the manifest, if the transporter returned the shipment using the original manifest	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	0	0	\$0
Sign Item 20 of the manifest, if the transporter returned the shipment using a new manifest	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	0	0	\$0
<b>TOTAL</b>	<b>0.00</b>	<b>0.00</b>	<b>varies</b>	<b>varies</b>	<b>varies</b>	<b>varies</b>	<b>varies</b>	<b>60</b>	<b>26</b>	<b>\$1,016</b>

<sup>a</sup> Exhibit contains rounding error.

EXHIBIT 9  
ESTIMATED ANNUAL HOUR AND COST BURDEN FOR GENERATORS<sup>a</sup>  
DEVELOPING EXCEPTION REPORTS

	Hours per Generator				Hours/ Respondent	Labor Cost/ Respondent	O&M Costs/ Respondent	Number of Reports	Total Hours	Total Cost
	Legal @ \$114.57/hr	Managerial @ \$97.01/hr	Technical @ \$40.03/hr	Clerical @ \$34.23/hr						
<b>Exception report completion, submission, and recordkeeping: LQEs</b>										
<b>Paper Manifest</b>										
Conduct activities necessary to determine the status/location of the hazardous waste	0.00	0.25	0.25	0.00	0.50	\$34.26	\$0.00	7,923	3,962	\$271,442
Prepare and submit a signed cover letter to EPA explaining the generator's efforts to locate the hazardous waste and the results of those efforts, along with a legible copy of the manifest	0.00	0.25	0.25	0.10	0.60	\$37.68	\$0.71	7,923	4,754	\$304,164
Keep a copy of each exception report	0.00	0.00	0.00	0.10	0.10	\$3.42	\$0.10	7,923	792	\$27,889
<b>Electronic Manifest</b>										
Conduct activities necessary to determine the status/location of the hazardous waste	0.00	0.25	0.25	0.00	0.50	\$34.26	\$0.00	790	395	\$27,065
Submit electronic exception report	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	790	8	\$316
<b>Exception report completion, submission, and recordkeeping: SQGs</b>										
<b>Paper Manifest</b>										
Submit a legible copy of the manifest with some indication that the waste has not been delivered	0.00	0.25	0.25	0.00	0.50	\$34.26	\$0.71	2,930	1,465	\$102,462
<b>Electronic Manifest</b>										
Submit electronic exception report	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	292	3	\$117
<b>TOTAL</b>	<b>0.00</b>	<b>varies</b>	<b>varies</b>	<b>varies</b>	<b>varies</b>	<b>varies</b>	<b>varies</b>	<b>varies</b>	<b>11,379</b>	<b>\$733,455</b>

<sup>a</sup> Exhibit contains rounding error.

EXHIBIT 10  
ESTIMATED ANNUAL HOUR AND COST BURDEN FOR TRANSPORTERS<sup>a</sup>  
READING THE REGULATIONS AND E-MANIFEST USER GUIDE

	Hours per Generator				Hours/ Respondent	Labor Cost/ Respondent	O&M Costs/ Respondent	Number of Transporters	Total Hours	Total Cost
	Legal @ \$114.57/hr	Managerial @ \$97.01/hr	Technical @ \$40.03/hr	Clerical @ \$34.23/hr						
<b>Read the regulations and e-Manifest user guide</b>										
Read the regulations	0.00	0.25	1.00	0.00	1.25	\$64.28	\$0.00	2,212	2,765	\$142,177
Read the User Guide for e-Manifest	0.00	0.50	1.50	0.00	2.00	\$108.55	\$0.00	207	414	\$22,470
<b>TOTAL</b>	<b>0.00</b>	<b>varies</b>	<b>varies</b>	<b>0.00</b>	<b>varies</b>	<b>varies</b>	<b>\$0.00</b>	<b>varies</b>	<b>3,179</b>	<b>\$164,647</b>

<sup>a</sup> Exhibit contains rounding error.

EXHIBIT 11  
ESTIMATED ANNUAL HOUR AND COST BURDEN FOR TRANSPORTERS<sup>4</sup>  
COMPLETING AND TRANSMITTING THE MANIFEST

	Hours per Transporter				Hours/ Respondent	Labor Cost/ Respondent	O&M Costs/ Respondent	Number of Manifests	Total Hours	Total Cost
	Legal @ \$114.57/hr	Managerial @ \$97.01/hr	Technical @ \$40.03/hr	Clerical @ \$34.23/hr						
<b>Manifest completion, transmittal and recordkeeping: Transporters</b>										
<b>Manifest requirements for highway transporters</b>										
<b>Paper Manifest</b>										
Sign and date the manifest	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	1,003,753	10,038	\$401,501
Return a signed copy of the manifest to the generator	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	1,003,753	10,038	\$401,501
Ensure that the manifest accompanies the waste to its destination	0.00	0.00	0.13	0.00	0.13	\$5.20	\$0.00	1,003,753	130,488	\$5,219,516
Obtain the date of delivery and signature of that transporter or the owner/operator of the facility or alternate facility designated on the manifest	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	1,003,753	10,038	\$401,501
Retain a copy of the manifest	0.00	0.00	0.00	0.17	0.17	\$5.82	\$0.00	1,003,753	170,638	\$5,841,842
Give remaining copies of the manifest to the accepting transporter or facility	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	1,003,117	10,031	\$401,247
<b>Electronic Manifest - QuickSign</b>										
Call Help Desk	0.00	0.00	5.00	0.00	5.00	\$200.16	\$2.00	207	1,035	\$41,847
Conduct witnessed signature ceremony with generator, enter PIN/Password, and answer challenge question (or, if the manifest is provided by a generator to transporter under 262.24(c)(1), sign by hand)	0.00	0.00	0.03	0.00	0.03	\$1.20	\$0.00	67,073	2,012	\$80,488
Sign on behalf of generator, if applicable	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	33,036	330	\$13,214
Place paper manifest copy on truck	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	100,109	1,001	\$40,044
Ensure that the next transporter or owner/operator of the facility or alternate facility enters PIN/Password and answers challenge question	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	100,109	1,001	\$40,044
<b>Electronic Manifest - PIN/Password</b>										
Call Help Desk	0.00	0.00	5.00	0.00	5.00	\$200.16	\$2.00	0	0	\$0
Conduct witnessed signature ceremony with generator, enter PIN/Password, and answer challenge question (or, if the manifest is provided by a generator to transporter under 262.24(c)(1), sign by hand)	0.00	0.00	0.03	0.00	0.03	\$1.20	\$0.00	0	0	\$0
Sign on behalf of generator, if applicable	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	0	0	\$0
Place paper manifest copy on truck	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	0	0	\$0
Ensure that the next transporter or owner/operator of the facility or alternate facility enters PIN/Password and answers challenge question	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	0	0	\$0
<b>Electronic Manifest - Digitized Electronic Signature</b>										
Call Help Desk	0.00	0.00	5.00	0.00	5.00	\$200.16	\$2.00	0	0	\$0
Sign e-Manifest (or, if the manifest is provided by a generator to transporter under 262.24(c)(1), sign by hand)	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	0	0	\$0
Sign on behalf of generator, if applicable	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	0	0	\$0
Place paper manifest copy on truck	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	0	0	\$0
Obtain the date of delivery and signature of that transporter or the owner/operator of the facility or alternate facility designated on the manifest	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	0	0	\$0
Give copy of the manifest to the accepting transporter or facility	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	0	0	\$0

<sup>4</sup> Exhibit contains rounding error.

EXHIBIT 11 (CONTINUED)  
ESTIMATED ANNUAL HOUR AND COST BURDEN FOR TRANSPORTERS<sup>4</sup>  
COMPLETING AND TRANSMITTING THE MANIFEST

	Hours per Transporter				Hours/ Respondent	Labor Cost/ Respondent	O&M Costs/ Respondent	Number of Manifests	Total Hours	Total Cost
	Legal @ \$114.57/hr	Managerial @ \$97.01/hr	Technical @ \$40.03/hr	Clerical @ \$34.23/hr						
<b>Manifest completion, transmittal and recordkeeping: Transporters</b>										
<b>Manifest requirements for person delivering to initial water transporters</b>										
<b>Paper Manifest</b>										
Obtain the date of delivery and signature of the initial water transporter on the manifest	0.00	0.00	0.00	0.01	0.01	\$0.34	\$0.00	33,091	331	\$11,251
Forward the manifest to the designated facility	0.00	0.00	0.00	0.16	0.16	\$5.48	\$0.61	33,049	5,288	\$201,269
<b>Electronic Manifest - QuickSign</b>										
Ensure that the next transporter or owner/operator of the facility or alternate facility enters PIN/Password and answers challenge question	0.00	0.00	0.00	0.01	0.01	\$0.34	\$0.00	3,300	33	\$1,122
<b>Electronic Manifest - PIN/Password</b>										
Ensure that the next transporter or owner/operator of the facility or alternate facility enters PIN/Password and answers challenge question	0.00	0.00	0.00	0.01	0.01	\$0.34	\$0.00	0	0	\$0
<b>Electronic Manifest - Digitized Electronic Signature</b>										
Obtain the date of delivery and signature of the initial water transporter on the manifest	0.00	0.00	0.00	0.01	0.01	\$0.34	\$0.00	0	0	\$0
Forward the manifest to the designated facility	0.00	0.00	0.00	0.16	0.16	\$5.48	\$0.61	0	0	\$0
<b>Manifest requirements for water (bulk shipment) transporters</b>										
<b>Paper Manifest</b>										
Ensure that the shipping paper accompanies the waste to its destination	0.00	0.00	0.13	0.00	0.13	\$5.20	\$0.00	33,091	4,302	\$172,073
If the delivering (water) transporter, obtain the date of delivery and signature of the owner/operator of the designated facility on either the manifest or shipping paper	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	33,091	331	\$13,236
If the initial water transporter, sign and date the manifest and return it to the delivering transporter so that the manifest can be forwarded to the designated facility owner/operator	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	33,091	331	\$13,236
Retain a copy of the manifest or shipping paper	0.00	0.00	0.00	0.17	0.17	\$5.82	\$0.00	33,091	5,625	\$192,590
<b>Electronic Manifest - QuickSign</b>										
Ensure that the shipping paper accompanies the waste to its destination	0.00	0.00	0.13	0.00	0.13	\$5.20	\$0.00	3,300	429	\$17,160
If the delivering (water) transporter, ensure that the owner/operator of the designated facility enters PIN/Password and answers challenge question	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	3,300	33	\$1,320
If the initial water transporter, enter PIN/Password and answer challenge question (or, if the manifest is provided by a generator to initial water transporter under 262.24(c)(1), sign by hand)	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	3,300	33	\$1,320
<b>Electronic Manifest - PIN/Password</b>										
Ensure that the shipping paper accompanies the waste to its destination	0.00	0.00	0.13	0.00	0.13	\$5.20	\$0.00	0	0	\$0
If the delivering (water) transporter, ensure that the owner/operator of the designated facility enters PIN/Password and answers challenge question	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	0	0	\$0
If the initial water transporter, enter PIN/Password and answer challenge question (or, if the manifest is provided by a generator to initial water transporter under 262.24(c)(1), sign by hand)	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	0	0	\$0
<b>Electronic Manifest - Digitized Electronic Signature</b>										
Ensure that the shipping paper accompanies the waste to its destination	0.00	0.00	0.13	0.00	0.13	\$5.20	\$0.00	0	0	\$0
If the delivering (water) transporter, obtain the date of delivery and signature of the owner/operator of the designated facility	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	0	0	\$0
If the initial water transporter, sign the manifest and return the paper manifest to the delivering transporter so that the manifest can be forwarded to the designated facility owner/operator (or, if the manifest is provided by a generator to initial water transporter under 262.24(c)(1), sign by hand)	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	0	0	\$0

<sup>4</sup> Exhibit contains rounding error.

EXHIBIT 11 (CONTINUED)  
ESTIMATED ANNUAL HOUR AND COST BURDEN FOR TRANSPORTERS<sup>4</sup>  
COMPLETING AND TRANSMITTING THE MANIFEST

	Hours per Transporter				Hours/ Respondent	Labor Cost/ Respondent	O&M Costs/ Respondent	Number of Manifests	Total Hours	Total Cost
	Legal @ \$114.57/hr	Managerial @ \$97.01/hr	Technical @ \$40.03/hr	Clerical @ \$34.23/hr						
<b>Manifest completion, transmittal and recordkeeping: Transporters</b>										
<b>Manifest requirements for rail transporters</b>										
<b>Paper Manifest</b>										
When accepting waste from a non-rail transporter, sign and date the manifest and return or transmit a signed copy of the manifest to the non-rail transporter	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	66,182	662	\$26,473
Forward at least three copies of the manifest to either the next non-rail transporter, the designated facility, or the last rail transporter designated to handle the waste in the U.S.	0.00	0.00	0.00	0.16	0.16	\$5.48	\$0.61	66,140	10,582	\$402,792
Ensure a shipping paper containing all the information required on the manifest excluding the U.S. EPA ID number, generator certification, and signatures accompanies the waste	0.00	0.00	0.13	0.00	0.13	\$5.20	\$0.00	66,182	8,604	\$344,146
When delivering hazardous waste to the designated facility or to the next non-rail transporter, obtain the signature and date of delivery of the facility or non-rail transporter on the manifest	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	66,182	662	\$26,473
Retain a copy of the manifest and/or rail shipping paper	0.00	0.00	0.00	0.17	0.17	\$5.82	\$0.00	66,182	11,251	\$385,179
Before accepting hazardous waste from a rail transporter, sign and date the manifest and provide a copy to the rail transporter	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	66,182	662	\$26,473
<b>Electronic Manifest - QuickSign</b>										
When accepting waste from a non-rail transporter, enter PIN/Password and answer challenge question (or, if the manifest is provided by a generator to rail transporter under 262.24(c)(1), sign by hand)	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	6,601	66	\$2,640
Ensure a shipping paper containing all the information required on the manifest excluding the U.S. EPA ID number, generator certification, and signatures accompanies the waste	0.00	0.00	0.13	0.00	0.13	\$5.20	\$0.00	6,601	858	\$34,325
When delivering hazardous waste to the designated facility or to the next non-rail transporter, ensure that the facility or non-rail transporter enters PIN/Password and answers challenge question	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	6,601	66	\$2,640
Before accepting hazardous waste from a rail transporter, enter PIN/Password and answer challenge question	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	6,601	66	\$2,640
<b>Electronic Manifest - PIN/Password</b>										
When accepting waste from a non-rail transporter, enter PIN/Password and answer challenge question (or, if the manifest is provided by a generator to rail transporter under 262.24(c)(1), sign by hand)	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	0	0	\$0
Ensure a shipping paper containing all the information required on the manifest excluding the U.S. EPA ID number, generator certification, and signatures accompanies the waste	0.00	0.00	0.13	0.00	0.13	\$5.20	\$0.00	0	0	\$0
When delivering hazardous waste to the designated facility or to the next non-rail transporter, ensure that the facility or non-rail transporter enters PIN/Password and answers challenge question	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	0	0	\$0
Before accepting hazardous waste from a rail transporter, enter PIN/Password and answer challenge question	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	0	0	\$0
<b>Electronic Manifest - Digitized Electronic Signature</b>										
When accepting waste from a non-rail transporter, sign the manifest and return the paper copy to the non-rail transporter (or, if the manifest is provided by a generator to rail transporter under 262.24(c)(1), sign by hand)	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	0	0	\$0
Ensure a shipping paper containing all the information required on the manifest excluding the U.S. EPA ID number, generator certification, and signatures accompanies the waste	0.00	0.00	0.13	0.00	0.13	\$5.20	\$0.00	0	0	\$0
When delivering hazardous waste to the designated facility or to the next non-rail transporter, obtain the signature of the facility or non-rail transporter on the manifest	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	0	0	\$0
Before accepting hazardous waste from a rail transporter, sign the manifest	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	0	0	\$0

<sup>4</sup> Exhibit contains rounding error.

EXHIBIT 11 (CONTINUED)  
ESTIMATED ANNUAL HOUR AND COST BURDEN FOR TRANSPORTERS<sup>4</sup>  
COMPLETING AND TRANSMITTING THE MANIFEST

	Hours per Transporter				Hours/ Respondent	Labor Cost/ Respondent	O&M Costs/ Respondent	Number of Manifests	Total Hours	Total Cost
	Legal @ \$114.57/hr	Managerial @ \$97.01/hr	Technical @ \$40.03/hr	Clerical @ \$34.23/hr						
<b>Manifest completion, transmittal and recordkeeping: Transporters</b>										
<b>Manifest requirements for transporters who transport waste out of the U.S.</b>										
<b>Paper Manifest</b>										
Date the manifest in the International Shipments block	0.00	0.00	0.005	0.00	0.005	\$0.20	\$0.00	15,026	75	\$3,005
Retain a copy of the manifest	0.00	0.00	0.00	0.17	0.17	\$5.82	\$0.00	15,026	2,554	\$87,451
Return signed, top copies of the manifest and continuation sheet to the exporter	0.00	0.00	0.00	0.01	0.01	\$0.34	\$0.55	15,026	150	\$13,373
Send a copy to e-Manifest	0.00	0.00	0.00	0.00	0.00	\$0.00	\$0.00	0	0	\$0
If applicable, provide a manifest copy to U.S. Customs Official at the point of departure from the US	0.00	0.00	0.00	0.00	0.00	\$0.00	\$0.00	0	0	\$0
<b>Electronic Manifest - QuickSign</b>										
Complete the manifest in the International Shipments block	0.00	0.00	0.005	0.00	0.005	\$0.20	\$0.00	1,499	7	\$300
<b>Electronic Manifest - PIN/Password</b>										
Complete the manifest in the International Shipments block	0.00	0.00	0.005	0.00	0.005	\$0.20	\$0.00	0	0	\$0
<b>Electronic Manifest - Digitized Electronic Signature</b>										
Complete the manifest in the International Shipments block	0.00	0.00	0.005	0.00	0.005	\$0.20	\$0.00	0	0	\$0
<b>Manifest requirements for transporters who transport waste pursuant to a reclamation agreement</b>										
Record the waste information on a log or shipping paper	0.00	0.25	0.75	0.00	1.00	\$54.28	\$0.00	4,729	4,729	\$256,690
Carry the record when transporting waste to the reclamation facility	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	4,729	47	\$1,892
Retain the records	0.00	0.00	0.00	0.17	0.17	\$5.82	\$0.00	4,729	804	\$27,523

<sup>4</sup> Exhibit contains rounding error.

EXHIBIT 11 (CONTINUED)  
ESTIMATED ANNUAL HOUR AND COST BURDEN FOR TRANSPORTERS <sup>a</sup>  
COMPLETING AND TRANSMITTING THE MANIFEST

	Hours per Transporter				Hours/ Respondent	Labor Cost/ Respondent	O&M Costs/ Respondent	Number of Manifests	Total Hours	Total Cost
	Legal @ \$114.57/hr	Managerial @ \$97.01/hr	Technical @ \$40.03/hr	Clerical @ \$34.23/hr						
<b>Undeliverable shipments</b>										
<b>Undeliverable shipments to TSDF or alternate TSDF or place outside the U.S. (263.21(b)(1))</b>										
Contact the generator for further directions and revise the manifest according to the generator's instructions	0.00	0.00	0.08	0.00	0.08	\$3.20	\$2.00	12,077	966	\$62,902
<b>Undeliverable shipments to next designated transporter (263.21(b)(2))</b>										
Contact the generator for further directions and revise the manifest according to the generator's instructions	0.00	0.00	0.08	0.00	0.08	\$3.20	\$2.00	121,005	9,680	\$629,226
<b>Undeliverable shipments to next designated transporter (263.21(b)(3))</b>										
Establish contract authority for transporter to revise the manifest without generator instruction	0.02	0.02	0.10	0.03	0.17	\$9.26	\$0.00	369	63	\$3,417
Revise the manifest	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	121,005	1,210	\$48,402
<b>Undeliverable Import Shipments</b>										
Receive generator instructions 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	0.00	0.00	0.08	0.00	0.08	\$3.20	\$0.00	15	1	\$49
<b>Rejected waste and container residues</b>										
<b>Paper Manifest</b>										
For a partial load rejection or for regulated quantities of container residues, obtain a copy of the original manifest, retain a copy, give remaining copies to rejecting facility, and if forwarding or returning the rejection or residue, obtain a new manifest.	0.00	0.00	0.10	0.00	0.10	\$4.00	\$0.00	1,357	136	\$5,426
For a full load rejection, obtain a copy of the original manifest, retain a copy, give a copy to rejecting facility, or if the original manifest is not used, obtain a new manifest and comply with applicable requirements	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	1,357	14	\$543
<b>Electronic Manifest - QuickSign</b>										
For partially rejected loads made while the transporter is on site, complete the transaction, as required	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	135	1	\$54
For fully rejected loads made or container residues identified while the transporter is on site, complete the transaction, as required	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	135	1	\$54
<b>Electronic Manifest - PIN/Password</b>										
For partially rejected loads made while the transporter is on site, complete the transaction, as required	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	0	0	\$0
For fully rejected loads made or container residues identified while the transporter is on site, complete the transaction, as required	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	0	0	\$0
<b>Electronic Manifest - Digitized Electronic Signature</b>										
For partially rejected loads made while the transporter is on site, complete the transaction, as required	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	0	0	\$0
For fully rejected loads made or container residues identified while the transporter is on site, complete the transaction, as required	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	0	0	\$0
<b>TOTAL</b>	varies	varies	varies	varies	varies	varies	varies	varies	417,303	\$15,901,310

<sup>a</sup> Exhibit contains rounding error.

EXHIBIT 12  
ESTIMATED ANNUAL HOUR AND COST BURDEN FOR TRANSPORTERS <sup>a</sup>  
REPLACEMENT MANIFESTS

	Hours per Transporter				Hours/ Respondent	Labor Cost/ Respondent	O&M Costs/ Respondent	Number of Manifests	Total Hours	Total Cost
	Legal @ \$114.57/hr	Managerial @ \$97.01/hr	Technical @ \$40.03/hr	Clerical @ \$34.23/hr						
<b>Replacement manifests</b>										
Reproduce sufficient copies of the manifest and complete them, as specified	0.00	0.00	0.08	0.00	0.08	\$3.20	\$0.30	999	80	\$3,496
Obtain a new manifest and complete it, as specified	0.00	0.00	0.40	0.00	0.40	\$16.01	\$0.61	0	0	\$0
Retain a copy of the manifest	0.00	0.00	0.00	0.17	0.17	\$5.82	\$0.00	999	170	\$5,812
Give remaining copies of the manifest to the accepting transporter or facility	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	999	10	\$399
<b>TOTAL</b>	0.00	0.00	varies	varies	varies	varies	varies	varies	260	\$9,707

<sup>a</sup> Exhibit contains rounding error.

EXHIBIT 13  
ESTIMATED ANNUAL HOUR AND COST BURDEN FOR DESIGNATED TRANSPORTERS <sup>a</sup>  
POST-RECEIPT MANIFEST DATA CORRECTIONS

	Hours per Transporter				Hours/ Respondent	Labor Cost/ Respondent	O&M Costs/ Respondent	Number of Submittals	Total Hours	Total Cost
	Legal @ \$114.57/hr	Managerial @ \$97.01/hr	Technical @ \$40.03/hr	Clerical @ \$34.23/hr						
<b>Post-receipt manifest data corrections</b>										
Submit email (off-line transporters)	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	40	0	\$16
Submit a correction or respond with comments	0.00	0.00	0.11	0.00	0.11	\$4.40	\$0.00	1,210	133	\$5,324
<b>TOTAL</b>	0.00	0.00	varies	0.00	varies	varies	\$0.00	varies	133	\$5,340

<sup>a</sup> Exhibit contains rounding error.

EXHIBIT 14  
ESTIMATED ANNUAL HOUR AND COST BURDEN FOR TRANSPORTERS <sup>a</sup>  
NOTIFYING OF DISCHARGE OF HAZARDOUS WASTE

	Hours per Transporter				Hours/ Respondent	Labor Cost/ Respondent	O&M Costs/ Respondent	Number of Notifications	Total Hours	Total Cost
	Legal @ \$114.57/hr	Managerial @ \$97.01/hr	Technical @ \$40.03/hr	Clerical @ \$34.23/hr						
<b>Notification of discharge of hazardous waste: Transporters</b>										
Notify local authorities	0.00	0.25	1.00	0.00	1.25	\$64.28	\$2.00	750	938	\$49,710
<b>Notification of discharge of hazardous waste: Water (bulk shipment) Transporters</b>										
Notify NRC, or a pre-designated OSC, of the discharge	0.00	0.25	1.00	0.00	1.25	\$64.28	\$2.00	75	94	\$4,971
<b>TOTAL</b>	0.00	varies	1.00	0.00	1.25	\$64.28	\$2.00	varies	1,032	\$54,681

<sup>a</sup> Exhibit contains rounding error.

EXHIBIT 15  
ESTIMATED ANNUAL HOUR AND COST BURDEN FOR DESIGNATED TREATMENT, STORAGE, AND DISPOSAL FACILITIES (TSDFs)<sup>a</sup>  
READING THE REGULATIONS AND E-MANIFEST USER GUIDE

	Hours per Generator				Hours/ Respondent	Labor Cost/ Respondent	O&M Costs/ Respondent	Number of Facilities	Total Hours	Total Cost
	Legal @ \$114.57/hr	Managerial @ \$97.01/hr	Technical @ \$40.03/hr	Clerical @ \$34.23/hr						
<b>Read the regulations and e-Manifest user guide</b>										
Read the regulations	0.00	0.25	1.00	0.00	1.25	\$64.28	\$0.00	413	517	\$26,576
Read the User Guide for e-Manifest	0.00	0.50	1.50	0.00	2.00	\$108.55	\$0.00	39	78	\$4,233
<b>TOTAL</b>	<b>0.00</b>	<b>varies</b>	<b>varies</b>	<b>0.00</b>	<b>varies</b>	<b>varies</b>	<b>\$0.00</b>	<b>varies</b>	<b>595</b>	<b>\$30,809</b>

<sup>a</sup> Exhibit contains rounding error.

EXHIBIT 16  
ESTIMATED ANNUAL HOUR AND COST BURDEN FOR DESIGNATED TREATMENT, STORAGE, AND DISPOSAL FACILITIES (TSDFs)/RECEIVING FACILITIES) a  
COMPLETING THE MANIFEST (ASSISTING THE GENERATORS)

	Hours per Facility				Hours/ Respondent	Labor Cost/ Respondent	O&M Costs/ Respondent	Number of Manifests	Total Hours	Total Cost
	Legal @ \$114.57/hr	Managerial @ \$97.01/hr	Technical @ \$40.03/hr	Clerical @ \$34.23/hr						
<b>Manifest completion: Designated TSDFs/Receiving Facilities</b>										
<b>Paper Manifest</b>										
Complete the manifest	0.00	0.00	0.43	0.10	0.53	\$20.64	\$0.61	944,199	500,425	\$20,064,228
Complete continuation sheets	0.00	0.00	0.18	0.04	0.22	\$8.57	\$0.61	236,050	51,931	\$2,166,936
<b>Electronic Manifest</b>										
Complete the manifest	0.00	0.00	0.08	0.03	0.11	\$4.23	\$0.00	94,169	10,359	\$398,335
Complete continuation sheets	0.00	0.00	0.04	0.01	0.05	\$1.94	\$0.00	23,542	1,177	\$45,672
<b>TOTAL</b>	<b>0.00</b>	<b>0.00</b>	<b>varies</b>	<b>varies</b>	<b>varies</b>	<b>varies</b>	<b>varies</b>	<b>varies</b>	<b>\$63,892</b>	<b>\$22,675,171</b>

<sup>a</sup> Exhibit contains rounding error.

EXHIBIT 17  
ESTIMATED ANNUAL HOUR AND COST BURDEN FOR DESIGNATED TREATMENT, STORAGE, AND DISPOSAL FACILITIES (TSDFs)/RECEIVING FACILITIES) a  
TRANSMITTING THE MANIFEST AND REPORTING TO EPA

	Hours per Facility				Hours/ Respondent	Labor Cost/ Respondent	O&M Costs/ Respondent	Number of Manifests/ Respondents	Total Hours	Total Cost
	Legal @ \$114.57/hr	Managerial @ \$97.01/hr	Technical @ \$40.03/hr	Clerical @ \$34.23/hr						
<b>Manifest completion, transmittal and recordkeeping: Designated TSDFs/Receiving Facilities</b>										
<b>Paper Manifest</b>										
Enter the name of the person accepting the waste and sign and date each copy of the manifest (or shipping paper, if applicable)	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	1,237,904	12,379	\$495,162
Complete the management method code	0.00	0.00	0.02	0.00	0.02	\$0.80	\$0.00	1,237,904	24,758	\$990,324
<b>For imports:</b> 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.	0.00	0.00	0.02	0.00	0.02	\$0.80	\$0.00	1,398	28	\$1,118
Note any discrepancies on each copy of the manifest (or shipping paper, if applicable)	0.00	0.00	0.08	0.00	0.08	\$3.20	\$0.00	148,549	11,884	\$475,357
Immediately give the transporter at least one copy of the manifest (or shipping paper)	0.00	0.00	0.17	0.00	0.17	\$6.81	\$0.00	1,237,904	210,444	\$8,430,129
Within 30 days of delivery, send a copy of the manifest (or shipping paper) to the generator	0.00	0.00	0.00	0.13	0.13	\$4.45	\$0.61	1,237,904	160,928	\$6,263,797
Within 30 days of delivery, mail paper copies of manifests to e-Manifest System	0.00	0.00	0.00	0.50	0.50	\$17.11	\$7.75	0	0	\$0
Within 30 days of delivery, scan image of paper manifests and upload to e-Manifest System (image only)	0.00	0.00	0.00	0.05	0.05	\$1.71	\$0.00	428,858	21,443	\$733,347
Within 30 days of delivery, scan image of paper manifest and upload to e-Manifest System (Web and Service)	0.00	0.00	0.00	0.05	0.05	\$1.71	\$0.00	1,267,079	63,354	\$2,166,706
Within 30 days of delivery, enter manifest data into e-Manifest System (Web)	0.00	0.00	0.00	0.17	0.17	\$5.82	\$0.00	240,490	40,883	\$1,399,652
Maintain and upgrade in-house data system (Service)	0.00	0.00	240.00	0.00	240.00	\$9,607.78	\$0.00	294	70,560	\$2,824,687
<b>For imports,</b> send a copy of the manifest within thirty (30) days of delivery to EPA using the addresses listed in 40 CFR 262.82(e) until the facility can submit such a copy to the e-Manifest system	0.00	0.00	0.00	0.13	0.13	\$4.45	\$0.00	0	0	\$0
Retain a copy of the manifest (or shipping paper) for at least three years from the delivery date (includes import manifests)	0.00	0.00	0.00	0.17	0.17	\$5.82	\$0.00	1,237,904	210,444	\$7,204,604
<b>Electronic Manifest - QuickSign</b>										
Call Help Desk	0.00	0.00	5.00	0.00	5.00	\$200.16	\$2.00	39	195	\$7,884
Enter the name of the person accepting the waste, enter PIN/Password, and answer challenge question	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	108,240	1,082	\$43,296
Complete the management method code	0.00	0.00	0.02	0.00	0.02	\$0.80	\$0.00	108,240	2,165	\$86,592
<b>For imports:</b> 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.	0.00	0.00	0.02	0.00	0.02	\$0.80	\$0.00	108,240	2,165	\$86,592
Note any discrepancies on the manifest	0.00	0.00	0.08	0.00	0.08	\$3.20	\$0.00	12,989	1,039	\$41,565
<b>Electronic Manifest - PIN/Password</b>										
Call Help Desk	0.00	0.00	5.00	0.00	5.00	\$200.16	\$2.00	0	0	\$0
Enter the name of the person accepting the waste, enter PIN/Password, and answer challenge question	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	0	0	\$0
Complete the management method code	0.00	0.00	0.02	0.00	0.02	\$0.80	\$0.00	0	0	\$0
<b>For imports:</b> 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.	0.00	0.00	0.02	0.00	0.02	\$0.80	\$0.00	0	0	\$0
Note any discrepancies on the manifest	0.00	0.00	0.08	0.00	0.08	\$3.20	\$0.00	0	0	\$0
<b>Electronic Manifest - Digitized Electronic Signature</b>										
Call Help Desk	0.00	0.00	5.00	0.00	5.00	\$200.16	\$2.00	0	0	\$0
Enter the name of the person accepting the waste and sign the manifest	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	0	0	\$0
Complete the management method code	0.00	0.00	0.02	0.00	0.02	\$0.80	\$0.00	0	0	\$0
<b>For imports:</b> 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.	0.00	0.00	0.02	0.00	0.02	\$0.80	\$0.00	0	0	\$0
Note any discrepancies on the manifest	0.00	0.00	0.08	0.00	0.08	\$3.20	\$0.00	0	0	\$0
<b>Compliance with State program requirements: TSDFs who are also generators</b>										
<b>Commercial TSDFs</b>										
Contact the consignment/generator State if needed and submit any copies of the manifest to these States, as applicable	0.00	0.00	0.00	0.00	0.00	\$0.00	\$2.00	0	0	\$0
<b>Captive TSDFs</b>										
Contact the consignment/generator State if needed and submit any copies of the manifest to these States, as applicable	0.00	0.00	0.00	0.00	0.00	\$0.00	\$2.00	0	0	\$0
<b>Discrepancy report completion and submission: Designated TSDF/Receiving Facilities</b>										
<b>Paper Manifest</b>										
Attempt to reconcile any discrepancies	0.00	0.00	0.08	0.00	0.08	\$3.20	\$2.00	0	0	\$0
Prepare and submit a letter to EPA describing the discrepancy and attempts to reconcile it, along with a copy of the manifest or shipping paper at issue	0.00	0.10	0.17	0.10	0.37	\$19.93	\$0.71	0	0	\$0
<b>Electronic Manifest</b>										
Attempt to reconcile any discrepancies	0.00	0.00	0.08	0.00	0.08	\$3.20	\$0.00	161,537	12,923	\$516,918
Submit electronic discrepancy report	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	26,923	269	\$10,769
<b>TOTAL</b>	<b>0.00</b>	<b>varies</b>	<b>varies</b>	<b>varies</b>	<b>varies</b>	<b>varies</b>	<b>varies</b>	<b>varies</b>	<b>846,943</b>	<b>\$31,778,499</b>

<sup>a</sup> Exhibit contains rounding error.

EXHIBIT 18  
ESTIMATED ANNUAL HOUR AND COST BURDEN FOR DESIGNATED TREATMENT, STORAGE, AND DISPOSAL FACILITIES (TSDFs)/RECEIVING FACILITIES) a  
REJECTED WASTE AND CONTAINER RESIDUES

	Hours per Facility				Hours/ Respondent	Labor Cost/ Respondent	O&M Costs/ Respondent	Number of Manifests/ Respondents	Total Hours	Total Cost
	Legal @ \$114.57/hr	Managerial @ \$97.01/hr	Technical @ \$40.03/hr	Clerical @ \$34.23/hr						
<b>Rejected waste and container residues</b>										
<b>Rejection of Waste after the Transporter Leaves the Facility</b>										
<b>Paper Manifest</b>										
Enter the name of the person accepting the waste and sign and date each copy of the manifest (or shipping paper, if applicable)	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	2,713	27	\$1,085
Complete the management method code	0.00	0.00	0.02	0.00	0.02	\$0.80	\$0.00	2,713	54	\$2,171
For Imports: 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.	0.00	0.00	0.02	0.00	0.02	\$0.80	\$0.00	2,713	54	\$2,171
Immediately give the transporter at least one copy of the manifest (or shipping paper)	0.00	0.00	0.17	0.00	0.17	\$6.81	\$0.00	2,713	461	\$18,477
Within 30 days of delivery, send a copy of the manifest (or shipping paper) to the generator	0.00	0.00	0.00	0.13	0.13	\$4.45	\$0.61	2,713	353	\$13,729
Contact the generator to obtain the generator's instructions for forwarding the waste to another facility that can manage the waste	0.00	0.00	0.08	0.00	0.08	\$3.20	\$2.00	2,713	217	\$14,108
Prepare a new manifest for rejected loads or container residues sent to the alternate designated facility or back to the generator	0.00	0.00	0.43	0.10	0.53	\$20.64	\$0.00	2,713	1,438	\$56,001
Amend the facility's copy of the manifest to indicate the rejected wastes or residues in the discrepancy space of the amended manifest	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	2,713	27	\$1,085
Copy the manifest tracking number from item 4 of the new manifest to the Discrepancy space of the amended manifest	0.00	0.00	0.02	0.00	0.02	\$0.80	\$0.00	2,713	54	\$2,171
Re-sign and date the manifest	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	2,713	27	\$1,085
Retain the amended manifest for at least three years from the date of the amendment	0.00	0.00	0.00	0.17	0.17	\$5.82	\$0.00	2,713	461	\$15,791
Within 30 days, send a copy of the amended manifest to the delivering transporter and to the generator	0.00	0.00	0.00	0.16	0.16	\$5.48	\$0.61	2,713	434	\$16,523
Within 30 days of delivery, mail paper copies of manifests to e-Manifest System	0.00	0.00	0.00	0.50	0.50	\$17.11	\$7.75	0	0	\$0
Within 30 days of delivery, scan image of paper manifests and upload to e-Manifest System (image only)	0.00	0.00	0.00	0.05	0.05	\$1.71	\$0.00	2,713	136	\$4,640
Within 30 days of delivery, transmit data file and image file of paper manifest to e-Manifest System	0.00	48.00	144.00	48.00	240.00	\$12,063.84	\$0.00	0	0	\$0
For imports, send a copy of the manifest within thirty (30) days of delivery to EPA using the addresses listed in 40 CFR 262.82(e) until the facility can submit such a copy to the e-Manifest system	0.00	0.00	0.00	0.13	0.13	\$4.45	\$0.00	0	0	\$0

\* Exhibit contains rounding error.

EXHIBIT 18 (CONTINUED)  
ESTIMATED ANNUAL HOUR AND COST BURDEN FOR DESIGNATED TREATMENT, STORAGE, AND DISPOSAL FACILITIES (TSDFs)/RECEIVING FACILITIES) a  
REJECTED WASTE AND CONTAINER RESIDUES

	Hours per Facility				Hours/ Respondent	Labor Cost/ Respondent	O&M Costs/ Respondent	Number of Manifests	Total Hours	Total Cost
	Legal @ \$114.57/hr	Managerial @ \$97.01/hr	Technical @ \$40.03/hr	Clerical @ \$34.23/hr						
<b>Rejected waste and container residues</b>										
<b>Electronic Manifest - QuickSign</b>										
Enter the name of the person accepting the waste, enter PIN/Password, and answer challenge question	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	271	3	\$108
Complete the management method code	0.00	0.00	0.02	0.00	0.02	\$0.80	\$0.00	271	5	\$216
Contact the generator to obtain the generator's instructions for forwarding the waste to another facility that can manage the waste	0.00	0.00	0.08	0.00	0.08	\$3.20	\$2.00	271	22	\$1,407
Prepare a new manifest for rejected loads or container residues sent to the alternate designated facility or back to the generator	0.00	0.00	0.09	0.00	0.09	\$3.60	\$0.00	271	24	\$974
Amend the facility's copy of the manifest to indicate the rejected wastes or residues in the discrepancy space of the amended manifest	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	271	3	\$108
Copy the manifest tracking number from item 4 of the new manifest to the Discrepancy space of the amended manifest	0.00	0.00	0.02	0.00	0.02	\$0.80	\$0.00	271	5	\$216
Enter PIN/Password and answer challenge question	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	271	3	\$108
<b>Electronic Manifest - PIN/Password</b>										
Enter the name of the person accepting the waste, enter PIN/Password, and answer challenge question	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	0	0	\$0
Complete the management method code	0.00	0.00	0.02	0.00	0.02	\$0.80	\$0.00	0	0	\$0
Contact the generator to obtain the generator's instructions for forwarding the waste to another facility that can manage the waste	0.00	0.00	0.08	0.00	0.08	\$3.20	\$2.00	0	0	\$0
Prepare a new manifest for rejected loads or container residues sent to the alternate designated facility or back to the generator	0.00	0.00	0.09	0.00	0.09	\$3.60	\$0.00	0	0	\$0
Amend the facility's copy of the manifest to indicate the rejected wastes or residues in the discrepancy space of the amended manifest	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	0	0	\$0
Copy the manifest tracking number from item 4 of the new manifest to the Discrepancy space of the amended manifest	0.00	0.00	0.02	0.00	0.02	\$0.80	\$0.00	0	0	\$0
Enter PIN/Password and answer challenge question	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	0	0	\$0
<b>Electronic Manifest - Digitized Electronic Signature</b>										
Enter the name of the person accepting the waste and sign the manifest	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	0	0	\$0
Complete the management method code	0.00	0.00	0.02	0.00	0.02	\$0.80	\$0.00	0	0	\$0
Contact the generator to obtain the generator's instructions for forwarding the waste to another facility that can manage the waste	0.00	0.00	0.08	0.00	0.08	\$3.20	\$2.00	0	0	\$0
Prepare a new manifest for rejected loads or container residues sent to the alternate designated facility or back to the generator	0.00	0.00	0.09	0.00	0.09	\$3.60	\$0.00	0	0	\$0
Amend the facility's copy of the manifest to indicate the rejected wastes or residues in the discrepancy space of the amended manifest	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	0	0	\$0
Copy the manifest tracking number from item 4 of the new manifest to the Discrepancy space of the amended manifest	0.00	0.00	0.02	0.00	0.02	\$0.80	\$0.00	0	0	\$0
Re-sign the manifest	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	0	0	\$0

\* Exhibit contains rounding error.

EXHIBIT 18 (CONTINUED)  
ESTIMATED ANNUAL HOUR AND COST BURDEN FOR DESIGNATED TREATMENT, STORAGE, AND DISPOSAL FACILITIES (TSDFs)/RECEIVING FACILITIES) a  
REJECTED WASTE AND CONTAINER RESIDUES

	Hours per Facility				Hours/ Respondent	Labor Cost/ Respondent	O&M Costs/ Respondent	Number of Manifests	Total Hours	Total Cost
	Legal @ \$114.57/hr	Managerial @ \$97.01/hr	Technical @ \$40.03/hr	Clerical @ \$34.23/hr						
<b>Rejected waste and container residues</b>										
<b>Rejection of Waste while the Transporter Remains Present at the Facility</b>										
<b>Paper Manifest</b>										
Enter the name of the person accepting the waste and sign and date each copy of the manifest (or shipping paper, if applicable)	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	2,713	27	\$1,085
Contact the generator to obtain the generator's instructions for forwarding the waste to another facility that can manage the waste	0.00	0.00	0.08	0.00	0.08	\$3.20	\$2.00	2,713	217	\$14,108
Complete item 18a and 18b of the original manifest, as applicable	0.00	0.00	0.08	0.00	0.08	\$3.20	\$0.00	2,713	217	\$8,682
Retain a copy of the manifest (or shipping paper) for at least three years from the date of delivery	0.00	0.00	0.00	0.17	0.17	\$5.82	\$0.00	2,713	461	\$15,791
Give the remaining copies back to the transporter	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	2,713	27	\$1,085
<b>Electronic Manifest - QuickSign</b>										
Enter the name of the person accepting the waste, enter PIN/Password, and answer challenge question	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	271	3	\$108
Contact the generator to obtain the generator's instructions for forwarding the waste to another facility that can manage the waste	0.00	0.00	0.08	0.00	0.08	\$3.20	\$2.00	271	22	\$1,407
Complete item 18a and 18b of the original manifest, as applicable	0.00	0.00	0.08	0.00	0.08	\$3.20	\$0.00	271	22	\$866
<b>Electronic Manifest - PIN/Password</b>										
Enter the name of the person accepting the waste, enter PIN/Password, and answer challenge question	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	0	0	\$0
Contact the generator to obtain the generator's instructions for forwarding the waste to another facility that can manage the waste	0.00	0.00	0.08	0.00	0.08	\$3.20	\$2.00	0	0	\$0
Complete item 18a and 18b of the original manifest, as applicable	0.00	0.00	0.08	0.00	0.08	\$3.20	\$0.00	0	0	\$0
<b>Electronic Manifest - Digitized Electronic Signature</b>										
Enter the name of the person accepting the waste and sign the manifest	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	0	0	\$0
Contact the generator to obtain the generator's instructions for forwarding the waste to another facility that can manage the waste	0.00	0.00	0.08	0.00	0.08	\$3.20	\$2.00	0	0	\$0
Complete item 18a and 18b of the original manifest, as applicable	0.00	0.00	0.08	0.00	0.08	\$3.20	\$0.00	0	0	\$0

<sup>a</sup> Exhibit contains rounding error.

EXHIBIT 18 (CONTINUED)  
ESTIMATED ANNUAL HOUR AND COST BURDEN FOR DESIGNATED TREATMENT, STORAGE, AND DISPOSAL FACILITIES (TSDFs)/RECEIVING FACILITIES) a  
REJECTED WASTE AND CONTAINER RESIDUES

	Hours per Facility				Hours/ Respondent	Labor Cost/ Respondent	O&M Costs/ Respondent	Number of Manifests	Total Hours	Total Cost
	Legal @ \$114.57/hr	Managerial @ \$97.01/hr	Technical @ \$40.03/hr	Clerical @ \$34.23/hr						
<b>Manifest completion, transmittal and recordkeeping by Alternate TSDF/Receiving Facilities</b>										
<b>Paper Manifest</b>										
Enter the name of the person accepting the waste and sign and date each copy of the manifest (or shipping paper, if applicable)	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	5,372	54	\$2,149
Complete the management method code	0.00	0.00	0.02	0.00	0.02	\$0.80	\$0.00	5,372	107	\$4,298
For imports, 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.	0.00	0.00	0.02	0.00	0.02	\$0.80	\$0.00	5,372	107	\$4,298
Note any discrepancies on each copy of the manifest (or shipping paper, if applicable)	0.00	0.00	0.08	0.00	0.08	\$3.20	\$0.00	645	52	\$2,064
Immediately give the transporter at least one copy of the manifest (or shipping paper)	0.00	0.00	0.17	0.00	0.17	\$6.81	\$0.00	5,372	913	\$36,583
Within 30 days of delivery, send a copy of the manifest (or shipping paper) to the generator	0.00	0.00	0.00	0.13	0.13	\$4.45	\$0.61	5,372	698	\$27,182
Within 30 days of delivery, mail paper copies of manifests to e-Manifest System	0.00	0.00	0.00	0.50	0.50	\$17.11	\$7.75	0	0	\$0
Within 30 days of delivery, transmit image files of paper manifests to e-Manifest System	0.00	0.00	0.00	0.05	0.05	\$1.71	\$0.00	5,372	269	\$9,186
Within 30 days of delivery, transmit data file and image file of paper manifest to e-Manifest System	0.00	48.00	144.00	48.00	240.00	\$12,063.84	\$0.00	0	0	\$0
For imports, send a copy of the manifest within thirty (30) days of delivery to EPA using the addresses listed in 40 CFR 262.82(e) until the facility can submit such a copy to the e-Manifest system	0.00	0.00	0.00	0.13	0.13	\$4.45	\$0.00	0	0	\$0
Retain a copy of the manifest (or shipping paper) for at least three years from the date of delivery	0.00	0.00	0.00	0.17	0.17	\$5.82	\$0.00	5,372	913	\$31,205
<b>Electronic Manifest - QuickSign</b>										
Enter the name of the person accepting the waste, enter PIN/Password, and answer challenge question	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	536	5	\$214
Complete the management method code	0.00	0.00	0.02	0.00	0.02	\$0.80	\$0.00	536	11	\$429
Note any discrepancies on the manifest	0.00	0.00	0.08	0.00	0.08	\$3.20	\$0.00	64	5	\$205
<b>Electronic Manifest - PIN/Password</b>										
Enter the name of the person accepting the waste, enter PIN/Password, and answer challenge question	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	0	0	\$0
Complete the management method code	0.00	0.00	0.02	0.00	0.02	\$0.80	\$0.00	0	0	\$0
Note any discrepancies on the manifest	0.00	0.00	0.08	0.00	0.08	\$3.20	\$0.00	0	0	\$0
<b>Electronic Manifest - Digitized Electronic Signature</b>										
Enter the name of the person accepting the waste and sign the manifest	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	0	0	\$0
Complete the management method code	0.00	0.00	0.02	0.00	0.02	\$0.80	\$0.00	0	0	\$0
Note any discrepancies on the manifest	0.00	0.00	0.08	0.00	0.08	\$3.20	\$0.00	0	0	\$0
<b>TOTAL</b>	<b>0.00</b>	<b>0.00</b>	<b>varies</b>	<b>varies</b>	<b>varies</b>	<b>varies</b>	<b>varies</b>	<b>varies</b>	<b>7,938</b>	<b>\$313,179</b>

<sup>a</sup> Exhibit contains rounding error.

EXHIBIT 19  
ESTIMATED ANNUAL HOUR AND COST BURDEN FOR DESIGNATED TREATMENT, STORAGE, AND DISPOSAL FACILITIES (TSDFs)/RECEIVING FACILITIES) a  
POST-RECEIPT MANIFEST DATA CORRECTIONS

	Hours per Facility				Hours/ Respondent	Labor Cost/ Respondent	O&M Costs/ Respondent	Number of Submittals	Total Hours	Total Cost
	Legal @ \$114.57/hr	Managerial @ \$97.01/hr	Technical @ \$40.03/hr	Clerical @ \$34.23/hr						
<b>Post-receipt manifest data corrections</b>										
Submit email (off-line facilities)	0.00	0.00	0.01	0.00	0.01	\$0.40	\$0.00	0	0	\$0
Submit a correction or respond with comments	0.00	0.00	0.11	0.00	0.11	\$4.40	\$0.00	26,923	2,962	\$118,461
<b>TOTAL</b>	<b>0.00</b>	<b>0.00</b>	<b>varies</b>	<b>0.00</b>	<b>varies</b>	<b>varies</b>	<b>\$0.00</b>	<b>varies</b>	<b>2,962</b>	<b>\$118,461</b>

<sup>a</sup> Exhibit contains rounding error.

EXHIBIT 20  
ESTIMATED ANNUAL HOUR AND COST BURDEN FOR DESIGNATED TREATMENT, STORAGE, AND DISPOSAL FACILITIES (TSDFs)/RECEIVING FACILITIES) a  
UNMANIFESTED WASTE REPORTS

	Hours per Facility				Hours/ Respondent	Labor Cost/ Respondent	O&M Costs/ Respondent	Number of Shipments	Total Hours	Total Cost
	Legal @ \$114.57/hr	Managerial @ \$97.01/hr	Technical @ \$40.03/hr	Clerical @ \$34.23/hr						
<b>Unmanifested waste report: completion and submission</b>										
Prepare and submit to EPA a letter of the unmanifested waste within 15 days after receiving waste	0.00	0.475	0.95	0.475	1.900	\$100.37	\$0.00	119	226.77	\$11,979
<b>TOTAL</b>	<b>0.00</b>	<b>0.48</b>	<b>0.95</b>	<b>0.48</b>	<b>1.90</b>	<b>\$100.37</b>	<b>\$0.00</b>	<b>119</b>	<b>226.77</b>	<b>\$11,979</b>

<sup>a</sup> Exhibit contains rounding error.

EXHIBIT 21  
ESTIMATED ANNUAL HOUR AND COST BURDEN FOR DESIGNATED TREATMENT, STORAGE, AND DISPOSAL FACILITIES (TSDFs)/RECEIVING FACILITIES) a  
FEES FOR THE ELECTRONIC HAZARDOUS WASTE MANIFEST PROGRAM (TSDF/RECEIVING FACILITIES) a

	Hours per Facility				Hours/ Respondent	Labor Cost/ Respondent	O&M Costs/ Respondent <sup>a</sup>	Number of Manifests/ Respondents	Total Hours	Total Cost
	Legal @ \$114.57/hr	Managerial @ \$97.01/hr	Technical @ \$40.03/hr	Clerical @ \$34.23/hr						
<b>Manifest transactions subject to fees</b>										
<b>User fees - Manifest Submittal</b>										
Pay fee for paper form submission	0.00	0.00	0.00	0.00	0.00	\$0.00	\$0.00	0	0	\$0
Pay fee for image only submission	0.00	0.00	0.00	0.00	0.00	\$0.00	\$20.00	256,057	0	\$5,121,133
Pay fee for data and image submission	0.00	0.00	0.00	0.00	0.00	\$0.00	\$13.00	1,482,391	0	\$19,271,077
Pay fee for electronic manifest	0.00	0.00	0.00	0.00	0.00	\$0.00	\$8.00	109,739	0	\$877,912
<b>User fees - Unmanifested Waste Reports</b>										
Pay fee for paper form submission	0.00	0.00	0.00	0.00	0.00	\$0.00	\$0.00	0	0	\$0
Pay fee for image only submission	0.00	0.00	0.00	0.00	0.00	\$0.00	\$20.00	0	0	\$0
Pay fee for data and image submission	0.00	0.00	0.00	0.00	0.00	\$0.00	\$13.00	0	0	\$0
Pay fee for electronic manifest	0.00	0.00	0.00	0.00	0.00	\$0.00	\$8.00	119	0	\$955
<b>Informal fee dispute resolution</b>										
Contact system's billing representatives and provide specified information	0.00	1.00	2.00	1.00	4.00	\$211.30	\$2.00	775	3,101	\$165,350
Provide specified information to appeal the billing representative's decision if applicable	0.00	1.00	2.00	1.00	4.00	\$211.30	\$0.00	8	31	\$1,638
<b>TOTAL</b>	<b>0.00</b>	<b>varies</b>	<b>varies</b>	<b>varies</b>	<b>varies</b>	<b>varies</b>	<b>varies</b>	<b>varies</b>	<b>3,132</b>	<b>\$25,438,065</b>

<sup>a</sup> Exhibit contains rounding error. N/A = not applicable.