### Department of Transportation Office of the Chief Information Officer Supporting Statement 1Hazardous Materials Shipping Papers and Emergency Response Information OMB Control No. 2137-0034 (Expiration Date: September 30, 2023)

## Introduction

This is to request approval from the Office of Management and Budget (OMB) for a revision of previously approved information collection titled, "Hazardous Materials Shipping Papers and Emergency Response Information," under OMB Control No. 2137-0034. This information collection is currently due to expire on September 30, 2023. This OMB Control Number covers hazardous materials shipping papers and emergency response information, which in accordance with the Hazardous Materials Regulations (HMR; 49 CFR Parts 171-180), are required to accompany each shipment of hazardous materials in commerce.

### **Part A. Justification:**

## 1. <u>Circumstances that make collection of information necessary</u>

This is a request for an revision with change of an existing information collection for information requirements pertaining to shipping papers and emergency response information under the HMR. This information collection supports the Departmental Strategic Goal for Safety. These regulations are promulgated under the Federal hazardous material transportation law, 49 U.S.C. 5101-5128.

Shipping papers and emergency response information are a basic communication tool for the transportation of hazardous materials. Section 171.8 defines a shipping paper as a shipping order, bill of lading, manifest, or other shipping document serving a similar purpose and containing the information required by §§ 172.202, 172.203, and 172.204. A shipping paper with emergency response information must accompany most hazardous materials shipments and be readily available at all times during transportation. It serves as the principal source of information regarding the presence, identification, and quantity of hazardous materials, as well as relevant emergency response procedures. It also serves as the source of information necessary to comply with other requirements, e.g., correctly placing and configuring rail cars in a shipment; preventing poisons from being loaded alongside foodstuffs; ensuring the separation of incompatible hazardous materials; and limiting the amount of radioactive materials that may be transported in a vehicle or aircraft. Shipping papers and emergency response information serve as a means of notifying transport workers that hazardous materials are present. Most importantly, shipping papers serve as a principal means of identifying hazardous materials during transportation emergencies. Firefighters, police, and other emergency response personnel are trained to obtain the Department of Transportation (DOT) shipping papers and emergency response information when responding to hazardous materials transportation emergencies. The availability of accurate information concerning hazardous materials being transported significantly improves response efforts in these types of emergencies.

It is necessary that hazardous materials and emergency response information be displayed on shipping papers in a uniform manner to ensure accuracy and consistency. The HMR require that when hazardous materials and non-hazardous materials are described on the same shipping paper, the hazardous materials be entered first, entered in a color that clearly contrasts with any description of materials not subject to the requirements, or identified with an "x" in an HM column.

Experience has shown that some shipping papers may contain many different items in a shipment. To require emergency response personnel to sort through multiple entries to determine which hazardous materials are present, in an emergency situation, would cause serious delays in making proper determinations concerning the mitigation of the accident. Therefore, shipping paper requirements include emergency response information along with the standard information that must be communicated on shipping papers.

Uniformity of national and international hazardous materials transportation regulations is critical to enhance safety and facilitate trade. Consistency between U.S. and international regulations helps to assure the safety of international hazardous materials transportation through a better understanding of the regulations, an increased level of industry compliance, the smooth flow of hazardous materials from their points of origin to their points of destination, and consistent emergency response in the event of a hazardous materials incident. Many shippers find that consistency in requirements aids their understanding of what is required, thereby permitting them to more easily comply with the regulations when shipping hazardous materials in international commerce.

To facilitate the safe and efficient transportation of hazardous materials in international commerce, the HMR, with certain limitations, permit both domestic and international shipments of hazardous materials to be offered for transportation and transported under provisions of the International Civil Aviation Organization's Technical Instructions for the Safe Transport of Dangerous Goods by Air (ICAO TI), the International Maritime Dangerous Goods Code (IMDG Code), the Canadian Transportation of Dangerous Goods Regulations (TDG Regulations), and the International Atomic Energy Agency Safety Standards Series: Regulations for the Safe Transportation of Radioactive Material (IAEA Regulations), as appropriate.

Furthermore, when a hazardous material is transported by aircraft, § 175.33 of the HMR includes additional requirements for a notification to the pilot in command (NOPIC) to include information of the flight. This information is required to be maintained similar to a shipping paper.

Additionally, in accordance with § 175.31, each person who discovers an improperly described, certified, labeled, marked, or packaged hazardous material during air transportation, including passenger baggage (known as a passenger (PAX) discrepancy), must notify the nearest FAA Regional Office by telephone or electronically. Electronic notifications may be submitted by email or through the Safety Assurance System (SAS) External Portal.

Lastly, on May 11, 2020, PHMSA published a final rule titled "Hazardous Materials: Harmonization With International Standards" [HM-215O, 85 FR 27810]. This final rule

harmonized the HMR with international regulations, including adding a requirement for the creation of a lithium battery test summary document for lithium cells and batteries manufactured after January 1, 2008. As a result of this rulemaking, PHMSA is adding two new information collections to this OMB Control Number, as the documentation provides similar communication to shipping papers. The first information collection is a reporting burden for the creation of the test summary document. The second information collection is the recordkeeping requirement, as the test summaries may be requested from the manufacturers or subsequent distributors.

### 2. <u>How, by whom, and for what purpose the is information used</u>

The shipping paper is considered a basic hazard communication tool when transporting hazardous materials by all modes of transport. For example, it is the mechanism by which an aircraft operator knows the nature and potential of hazardous cargo on board the aircraft. It informs railroad employees of the potential hazards of the cargo and is the primary means of communicating information required to properly place and handle cars within trains. Shipping papers communicate information on cargo compatibility to motor carrier personnel and emergency responders, and advise vessel masters where hazardous material cargo should be stowed to assure compatibility and accessibility. Consequences which could result from not having the required information on shipping papers include, but are not limited to:

- a. Co-mingling of hazardous materials in a shipment that could react chemically and cause explosion, fire, poison gas emissions, or other types of reactions in the event of a container failure or accident.
- b. Contamination of foodstuffs and feed by poisons being shipped on the same transport vehicle.
- c. Shipment of radioactive materials in a single transport vehicle in quantities which could exceed criticality safety controls, resulting in excessive exposure to vehicle operators/crew or passengers, or with non-radioactive materials (such as x-ray film) that could be contaminated by the radiation emitted from packages of radioactive materials.
- d. Shipment of hazardous materials in quantities greater than authorized to be carried in passenger-carrying vehicles.
- e. Shipment of forbidden materials aboard passenger-carrying aircraft, the release of which could cause death or illness among passengers and crew due to contamination of, or structural damage to, an aircraft.
- f. Injury, death, and/or severe environmental damage due to lack of accurate emergency response communication information.
- g. Incorrect emergency response procedures, e.g., firefighters may attempt to extinguish burning materials that are water-reactive with water, leading to catastrophic consequences.

In addition to the shipping paper and emergency response information, this OMB control number also includes the following information collections:

(1) *Notice of Pilot in Command:* This information collection consists of the additional time required for the pilot-in-command to complete the confirmation process for the loading of hazardous materials on aircraft. The confirmation process includes obtaining a signature or other

appropriate indication from the person responsible for loading the aircraft and from the pilot-incommand.

(2) *Lithium Battery Test Summary Document:* This information collection requires the creation of a lithium battery test summary document for lithium cells and batteries manufactured after January 1, 2008. This information collection includes both a reporting and recordkeeping component.

(3) *Air Transportation Discrepancy Reports:* This information collection requires that each person who discovers an improperly described, certified, labeled, marked, or packaged hazardous material during air transportation, including passenger baggage (known as a passenger (PAX) discrepancy), must notify the nearest Federal Aviation Administration (FAA) Regional Office by telephone or electronically. Electronic notifications may be submitted by email or through the Safety Assurance System (SAS) External Portal.

## 3. Extent of automated information collection

PHMSA continues to update the HMR to ensure that the burden has been made as simple as possible. DOT's emphasis for shipping paper requirements is that the information be displayed consistently and be easily recognizable. Any document, meeting the definition of a shipping paper in § 171.8 and the requirements in Subpart C and G of Part 172, used in the normal course of business, is considered a shipping paper. The Government Paperwork Elimination Act directs agencies to allow the option of electronic filing and recordkeeping by October 2003, when practicable. To ensure consistency and to be immediately available for emergency responders in the event of an incident, shipping papers are not authorized in electronic form. However, PHMSA does not restrict the use of electronic forms *in addition* to paper copies. Additionally, PHMSA does not require every shipping paper to be submitted to us. However, PHMSA does not restrict the lithium battery test summary document to be electronic and PHMSA anticipates that these test documents be available in an electronic format, either in a publicly available database or provided to any interested parties in an electronic format.

### 4. <u>Efforts to identify duplication</u>

PHMSA has done its due diligence to identify that the documentation in this OMB Control Number are not duplicated. PHMSA requires that shipping papers include certain hazardous material and emergency response information, but it does not require the use of a specific form. If the required information is presented on a form required by another Federal agency, PHMSA authorizes the use of that form. For instance, PHMSA and the Environmental Protection Agency (EPA) coordinated on the hazardous waste manifest requirements to avoid duplication. EPA agreed that PHMSA regulations prevail for carriers of hazardous wastes, and it revised its manifest requirements so that the entries required to comply with both EPA hazardous waste requirements and PHMSA shipping paper and emergency response information requirements could be made on one document.

To a limited degree, some of the information required on the shipping papers is already available through required markings on the outside of packages. However, it would be very difficult to

accomplish effective communication for emergency response and compliance with various transportation requirements by using only the markings on packages. In most cases, the packages are not visible during transportation and would not provide the same benefit as the shipping paper and emergency response information in ensuring effective communication.

# 5. <u>Efforts to minimize the burden on small businesses</u>

Unless specifically excepted in the HMR, shipping papers and emergency response information must be prepared by all persons offering hazardous materials for transportation. Because the benefits to safety outweigh a reduction in small business burden, the applicability of shipping paper and emergency response information is based on the hazardous materials transported, and not business size.

# 6. <u>Impact of less frequent collection of information</u>

This is a one-time requirement each time a hazardous material shipment is offered for transportation in commerce. The impact of not collecting this information would be the loss of information essential to emergency responders. Additionally, the lithium battery test summary document is only required upon manufacturer or a new type of lithium cell or battery. Once the original lithium cell or battery type is developed, the document does not need to be recreated.

# 7. <u>Special circumstances</u>

This collection of information is generally conducted in a manner consistent with the guidelines in 5 CFR 1320.5(d)(2) with the following qualifications:

- a. It is not possible to eliminate or shorten the information required by the HMR for shipping papers and still provide the information necessary for emergency response personnel, carriers, and transport workers.
- b. Shipping papers are already required to be retained by other Federal and state requirements, and therefore, are not considered duplicative. PHMSA has no discretion regarding this requirement.
- c. Hazardous materials shipping paper and emergency response information is also required when transporting hazardous materials in international commerce.

# 8. <u>Compliance with 5 CFR 1320.8</u>

PHMSA published a 60-Day Notice and Request for Comments on the renewal of this information collection in the Federal Register on May 22, 2023, under Docket No. PHMSA-2023-0029 (Notice No. 2023-07). The comment period closed July 21, 2023. No comments were received for this information collection.

PHMSA published a 30-Day Notice and Request for Comments on the renewal of this information collection in the Federal Register on August 29, 2023 also under Docket No. PHMSA-2023-0029 (Notice No. 2023-08).

#### 9. <u>Payments or gifts to respondents</u>

There is no payment or gift provided to respondents associated with this collection of information.

### 10. <u>Assurance of confidentiality</u>

None of the data collected contain personally identifiable information (PII) or business confidential information. No guarantees of confidentiality are provided to applicants.

### 11. Justification for collection of sensitive information

Not applicable. Information is not of a sensitive nature.

#### 12. Estimates of burden hours for information requested

Total Number of	Total Number of	Total Annual	<b>Total Annual</b>	<u>Total</u>
<b>Respondents</b>	<u>Annual Responses</u>	<u>Burden Hours</u>	<u>Salary Costs</u>	<u>Burden Cost</u>
266,071	177,304,913	4,610,135	\$135,703,471	\$0

It is estimated that approximately 260,000 shippers/carriers of hazardous materials (including hazardous waste and hazardous substances) will prepare an average of 674 shipping papers and emergency response information annually for a total of 175,262,735 shipping papers (260,000 respondents x 674 shipping papers/respondent). Each shipping paper, with emergency response information, will take approximately 1.6 minute to prepare for approximately 4,599,426 annual burden hours (175,262,735 shipping papers x 1.6 minutes). PHMSA estimates approximately \$28.96/hour in salary costs<sup>1</sup> for a total of \$133,201,526 (4,599,426 burden hours x \$28.96/hour). However, PHMSA estimates there is no out-of-pocket expenses for the shipping paper burden.

		Annual Number of	Total	<u>Minutes</u>	<u>Total</u>	<u>Salary</u>		<u>Total</u>
<b>Information</b>	<u>Number of</u>	Shipping Papers	<u>Annual</u>	<u>per</u>	<u>Burden</u>	<u>Cost per</u>	<b>Total Salary</b>	<u>Burden</u>
<b><u>Collection</u></b>	<b>Respondents</b>	per Respondent	<b>Respondents</b>	<b>Response</b>	<u>Hours</u>	Hour	Cost	<u>Cost</u>
Hazardous Materials								
Shipping Papers &								
Emergency Response								
Information	260,000	674	175,262,735	1.6	4,599,426	\$28.96	\$133,201,526	\$0

It is estimated that approximately 150 pilots will be required to sign a Notification of Pilot in Command (NOPIC) and will sign an average approximately 13,365 NOPICs each year<sup>2</sup>, for a total of 2,004,717 NOPIC signatures (150 respondents x 13,365 NOPIC/respondent). Each

<sup>&</sup>lt;sup>1</sup> Occupation labor rates based on 2022 Occupational and Employment Statistics Survey (OES) for "Office Clerks, General (43-9061)." https://www.bls.gov/oes/current/oes439061.htm The hourly mean wage for this occupation (\$19.78) is adjusted to reflect the total costs of employee compensation based on the BLS Employer Costs for Employee Compensation Summary, which indicates that wages for civilian workers are 68.3 percent of total compensation (total wage = wage rate/wage % of total compensation).

<sup>&</sup>lt;sup>2</sup> The average number of NOPICs signed each year is based on FAA estimates.

NOPIC will take approximately 11 seconds to sign for approximately 5,961 annual burden hours (2,004,717 NOPIC x 11 seconds). PHMSA estimates approximately \$367.23/hour in salary costs<sup>3</sup> for a total of \$2,189,125 (5,961 burden hours x \$367.23/hour). However, PHMSA estimates there is no out-of-pocket expenses for the shipping paper burden.

<u>Informatio</u> <u>n Collection</u>	<u>Annual</u> <u>Number of</u> <u>Respondents</u>	<u>Annual</u> <u>Number of</u> <u>Responses</u>	<u>Total</u> <u>Responses</u>	<u>Seconds</u> <u>per</u> <u>Response</u>	<u>Total</u> <u>Burden</u> <u>Hours</u>	<u>Salary</u> <u>Cost per</u> <u>Hour</u>	<u>Total</u> <u>Salary</u> <u>Cost</u>	<u>Total</u> <u>Burden</u> <u>Cost</u>
Notice of								
Pilot in								
Command	150	13,365	2,004,717	11	5,961	\$367.23	\$2,189,125	\$0

PHMSA estimates that per U.S. Census' Annual Survey of Manufacturers (NAICS code 334912) there are 73 domestic lithium cell or battery manufacturers.<sup>4</sup> Based on review of these manufacturers websites, PHMSA estimates that approximately 32 new types of lithium cells or batteries are manufactured each year, requiring the creation of the lithium battery test document, for a total of 2,336 test summary documents (73 respondents x 32 responses). Based on reviewing the information required in the test document, PHMSA conservatively estimates it will take 30 minutes to develop the document, for a total of 1,168 annual burden hours. PHMSA also estimates a salary cost of \$80.28/hour<sup>5</sup> for a total of \$93,765 in salary cost (1,168 burden hours x \$80.28/hour). PHMSA does not estimate any out of pocket expenses.

Information <u>Collection</u>	<u>Number of</u> <u>Respondents</u>	<u>Number</u> <u>of</u> <u>Response</u> <u>S</u>	<u>Total</u> <u>Responses</u>	<u>Minutes</u> <u>per</u> <u>Response</u>	<u>Total</u> <u>Burden</u> <u>Hours</u>	<u>Salary</u> <u>Cost per</u> <u>Hour</u>	<u>Total</u> <u>Salary</u> <u>Cost</u>	<u>Total</u> <u>Burden</u> <u>Cost</u>
Lithium Battery Test								
Summary - Reporting	73	32	2,336	30	1,168	\$80.28	\$93,765	\$0

PHMSA estimates that there may be 5,790 respondents, including lithium cell and battery manufacturers and subsequent distributors, who may need to make the lithium test summary available. This estimate includes downstream distributors of lithium cells and batteries

<sup>&</sup>lt;sup>3</sup> BLS Occupational Employment and Wages, May 2022: 53-2011 Airline Pilots, Copilots, and Flight Engineers, the mean annual wage is \$225,740 (https://www.bls.gov/oes/current/oes532011.htm). Federal regulations set the maximum work hours and minimum requirements for rest between flights for most pilots. Airline pilots fly an average of 75 hours per month, therefore the hourly mean wage rate is \$250.82 = \$225,740/(75 hours/month x 12 months). The hourly mean wage for this occupation (\$250.82) is also adjusted to reflect the total costs of employee compensation based on the BLS Employer Costs for Employee Compensation Summary, which indicates that wages for civilian workers are 68.3 percent of total compensation (total wage = wage rate/wage % of total compensation). <sup>4</sup> 2015 County Business Patterns. "Geography Area Series: County Business Patterns by Legal Form of Organization," 2016 Annual Survey of Manufactures. Annual Survey of Manufactures: General Statistics: Statistics

Organization." 2016 Annual Survey of Manufactures. Annual Survey of Manufactures: General Statistics: Statistics for Industry Groups and Industries: 2016 and 2015.

<sup>&</sup>lt;sup>5</sup> Occupation labor rates based on 2022 Occupational and Employment Statistics Survey (OES) for "Electrical Engineers (17-2070)" in the Other Electrical Equipment and Component Manufacturing industry. The hourly mean wage for this occupation (\$54.83) is adjusted to reflect the total costs of employee compensation (i.e., benefits) based on the BLS Employer Costs for Employee Compensation Summary, which indicates that wages for civilian workers are 68.3 percent of total compensation (total wage \$80.28 = wage rate \$54.83/wage % of total compensation 68.3%).

comprised of product manufacturers and distributors/retails<sup>6</sup> and domestic lithium cell and battery manufactures. Based on a wide range of respondent activities, PHMSA estimates that, on average, each respondent will need to provide the test summary 3 times per year, for a total of 19,596 annual responses (5,790 respondents x 3 responses). PHMSA anticipates that these documents will be made available in an accessible manner, and thus will take 7 minutes per response to provide this document, for a total of 2,286 burden hours (19,596 responses x 7 minutes). PHMSA estimates a salary cost of \$80.28/hour<sup>7</sup> for a total of \$183,532 in salary cost (2,286 burden hours x \$80.28/hour). PHMSA does not estimate any out of pocket expenses.

Information Collection	<u>Number of</u> <u>Respondents</u>	<u>Number</u> <u>of</u> <u>Responses</u>	<u>Total</u> <u>Responses</u>	<u>Minutes</u> <u>per</u> <u>Response</u>	<u>Total</u> <u>Burden</u> <u>Hours</u>	<u>Salary</u> <u>Cost per</u> <u>Hour</u>	<u>Total</u> <u>Salary</u> <u>Cost</u>	<u>Total</u> <u>Burden</u> <u>Cost</u>
Lithium Battery Test								
Summary - Recordkeeping	5,790	3	19,596	7	2,286	\$80.28	\$183,532	\$0

In Fiscal Year 2022, 58 operators submitted discrepancies to the FAA for a total of 15,529 discrepancy reports. This results in an approximately 268 submitted discrepancies per operator (15,529 discrepancy reports / 58 operators). Based on FAA SME estimates, it takes each operator 5 minutes per response to submit discrepancy information to the FAA, for a total of 1,294 burden hours (15,529 responses x 5 minutes). PHMSA estimates a salary cost of \$27.45/hour<sup>8</sup> for a total of \$35,523 in salary cost (1,294 burden hours x \$27.45/hour). PHMSA does not estimate any out of pocket expenses.

Information Collection	<u>Number of</u> <u>Respondents</u>	<u>Number</u> <u>of</u> <u>Responses</u>	<u>Total</u> <u>Responses</u>	<u>Minutes</u> <u>per</u> <u>Response</u>	<u>Total</u> <u>Burden</u> <u>Hours</u>	<u>Salary</u> <u>Cost per</u> <u>Hour</u>	<u>Total</u> <u>Salary</u> <u>Cost</u>	<u>Total</u> <u>Burden</u> <u>Cost</u>
Air Transportation								
Discrepancy Reports	58	268	15,529	5	1,294	\$27.45	\$35,523	\$0

### 13. Estimate of total annual costs to respondents

There is no cost burden to respondents except those identified in item 12 above.

# 14. Estimate of annualized cost to the Federal Government

<sup>&</sup>lt;sup>6</sup> PHMSA examined entities in NAICS codes for battery retailers, wholesalers, and merchants (NAICS 453998 & 423610) and identified the percentage of entities in each NAICS industry that is involved in distributing batteries based on the sub-NAICS product series information provided in the 2012 Economic Census by Industry. PHMSA multiplied this percent by the more recent, 2016 County Business Patterns estimate of the total number of entities to estimate the number of potentially impacted respondents.

<sup>7</sup> Ibid.

<sup>&</sup>lt;sup>8</sup> Occupation labor rates based on 2021 Occupational and Employment Statistics Survey (OES) for "Office Clerks, General (43-9061)." https://www.bls.gov/oes/current/oes439061.htm The hourly mean wage for this occupation (\$18.75) is adjusted to reflect the total costs of employee compensation based on the BLS Employer Costs for Employee Compensation Summary, which indicates that wages for civilian workers are 68.3 percent of total compensation (total wage = wage rate/wage % of total compensation).

There is no additional cost to the Federal Government beyond its normal daily operations, because shipping papers and emergency response information are not reviewed or approved by the Federal Government, except during normal enforcement operations.

## 15. <u>Reasons for change in burden</u>

During PHMSA's review of the burden, it was noted that PHMSA had historically been including information collections under § 175.31 for "Air Transportation Discrepancy Reports" under the broader information collection for shipping papers and emergency response information. By creating a separate information collection for "Air Transportation Discrepancy Reports" PHMSA does have a minor increase in the overall burden associated with this OMB Control Number.

## 16. <u>Plans for tabulation, statistical analysis and publication</u>

There is no publication of this information collection including for statistical use, and no statistical techniques are involved.

# 17. Display of expiration date of OMB Approval

The information collection OMB number is prominently displayed in 49 CFR 171.6 as "Control Numbers under the Paperwork Reduction Act."

### 18. <u>Exceptions to certification statement</u>

There is no exception to PHMSA's certification of this request for information collection approval.