

Hazardous Materials Incident Reporting



Presented by
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PHMSA – Office of Hazardous Materials Safety
Program Management, Data & Statistics Division
FRA Hazardous Materials Training Seminar
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U.S. Department of Transportation
Pipeline and Hazardous Materials
Safety Administration

"To protect people and the environment by advancing the safe transportation of energy
and other hazardous materials that are essential to our daily lives."



Agenda



Overview – PHMSA & Data Operations Mission



DOT 5800.1 Incident Reporting



HAZMATICS



Innovations In Motion



Trends & Statistics



Questions



PHMSA Mission & Vision

PHMSA's mission is to protect people and the environment by advancing the safe transportation of energy and other hazardous materials that are essential to our daily lives.

PHMSA's vision is to become the most innovative transportation safety organization in the world



Data Operations Mission

Protect people and the environment by collecting and managing hazardous materials transportation incident data to support agency-wide programs and inform decision-making

Through data collection, quality reviews, validation, analysis, and dissemination, Data Operations manages incident data to ensure accurate, reliable, and timely data is provided to stakeholders.



Incidents

“Think before you” ship!”



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What is an Incident?



An *unintentional release* of a hazardous material or discharge of hazardous waste; a cargo tank with a capacity of 1,000 gallons or greater containing any hazardous material that *suffers structural damage* to the lading retention system; or an *undeclared hazardous material*.



When is a DOT 5800.1 Form required?

- **49 CFR Parts 171-180** requires certain types of incidents be reported.
- **Section 171.15** requires an immediate telephonic report be filed within 12 hours of certain hazmat incidents.
 1. A person is killed
 2. Injury requiring admittance to the hospital
 3. Evacuation of general public for one hour or more
- 4. One or more major transportation arteries are closed for one hour or more
 5. Operational flight plan is altered
 6. Fire, breakage, spillage involving radioactive material
 7. Fire, breakage, spillage involving an infectious substance
- 8. Release of marine pollutant in a quantity exceeding 450 liters for liquid or 400 kilograms for solids



When is a DOT 5800.1 Form required?

- **Section 171.16** requires that a 5800.1 report be submitted within 30 days of discovery of any of the following:
 1. An incident that was reported under 171.15
 2. An unintentional release of a hazardous material during transportation
 3. Release of a hazardous waste
 4. Undeclared shipment with no release is discovered
 5. A Specification Cargo Tank 1,000 gallons or greater containing hazardous materials that received structural damage to the lading retention system and did not have a release.



When is a DOT 5800.1 Form required?

- **Unintentional Release:** escape of a hazardous material from a package on an occasion not anticipated or planned. This includes:

Releases Resulting From:	
Collision	Package Failures
Human Error	Criminal Activity
Negligence	Improper Packaging
Unusual Conditions such as:	
Operation of pressure relief devices as a result of	
Over-pressurization, overfill or fire exposure	



When is a DOT 5800.1 Form required?

- Hazardous Waste – Any material that is subject to the Hazardous Waste Manifest Requirements as specified in 40 CFR Part 262.
- Undeclared shipment with no release – Offered for transportation in commerce without any visible indication to the person accepting that hazardous materials are present.
- A Specification Cargo Tank 1,000 gallons or greater containing hazardous materials that received structural damage to the lading retention system and did not have a release.



When is a DOT 5800.1 Form not required?

You are ***not required*** to report a release of hazardous material if **ALL** of the following apply:

- The shipment is not being offered for transportation or being transported by air;
- None of the Criteria in 171.15(a) applies;
- The material is not a hazardous waste;
- The material is properly classed as an ORM-D, or a Packing Group III material in Class or Division 3,4,5,6.1, 8 or 9;
- Each package has a capacity of less than 20 liters (5.2 gallons) for liquids or less than 30 kg (66 pounds) for solids;
- The total aggregate release is less than 20 liters (5.2 gallons) for liquids or less than 30 kg (66 pounds) for solids;
- The material does not meet the definition of an undeclared hazardous material in 171.8; and
- The shipment is an undeclared material discovered in an air passenger's checked or carry-on baggage during the airport screening process.

***Additional exemptions can be found in CFR 171.16D**



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Who must complete the 5800.1 Form?

- If a hazmat incident occurs, any entity in possession of the hazmat during transportation – including loading, unloading and storage incidental to transportation – must report the incident if certain conditions are met.
- The Entity having physical control of the shipment is responsible for completion and submission of DOT Form 5800.1
 - **Carrier**
 - **Shipper**
 - **Facility**
 - **Other**



How is a 5800.1 Form filed?

- Paper forms can be submitted via postal mail or email using a fillable Adobe Acrobat file
- Electronic submissions can be submitted via PHMSA'S Website utilizing the online fillable form or authorized entities using extensible mark-up language (XML) files, which is a set of rules for encoding documents in machine-readable form

U.S. Department of Transportation
Pipeline and Hazardous Materials
Safety Administration

Hazardous Materials
Incident Report

Form Approval OMB No. 2102-0069

According to the Information Freedom Act of 1996, no person shall be required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 2102-0069. The filing of this information is mandatory and will take 30 minutes to complete.

PHMSA's 5800.1 Form is to be reported to the Information System Manager, U.S. Department of Transportation, Pipeline and Hazardous Materials Safety Administration, 1200 Pennsylvania Avenue, NE, Washington, DC 20002. If you provide any sensitive information, use a separate sheet of paper, identifying the entry number being completed. Copies of this form and instructions can be obtained from the Office of Hazardous Materials Safety at <http://hazmat.dot.gov>. If you have any questions, you can contact the Hazardous Materials Information Center at 1-800-875-6622 or online at <http://hazmat.dot.gov>.

PART I - REPORT TYPE

1. This is to report All hazardous materials and All undeclared shipments with no release All specific, dangerous, toxic, or highly volatile or highly reactive hazardous materials that have not shipped before. The label placed on entry of "Storage that requires special handling" is not to be used for this report.

2. Indicate whether this is An initial report A supplemental (follow-up) report A different Page

PART II - GENERAL INCIDENT INFORMATION

3. Date of Incident: _____ 4. Time of Incident (use 24-hour time): _____

5. Enter National Response Center Report Number (if applicable): _____

6. If you submitted a report to another federal LHA agency, enter the agency and report number: _____

7. Location of Incident: City: _____ State: _____ ZIP Code: _____

8. Mode of Transportation: Highway Water Air Other _____

9. Transportation Phase: In Transit Loading Unloading In Transit Storage

10. Current Reporter: Name: _____ Street: _____ City: _____ State: _____ ZIP Code: _____ Federal DOT ID Number: _____ Hazard Registration Number: _____

11. Shipper/Receiver: Name: _____ Street: _____ City: _____ State: _____ ZIP Code: _____ Hazard Registration Number: _____

12. Origin of Shipment (if different from shipper address): Street: _____ City: _____ State: _____ ZIP Code: _____

13. Destination: Street: _____ City: _____ State: _____ ZIP Code: _____

14. Proper Shipping Name of Hazardous Material: _____

15. Technical Trade Name: _____

16. Hazardous Class: _____ 17. Identification Number (Use UN2000, NE 2000) _____ 18. Packing Group (Use 0, I, II, III) _____ 19. Liability (Use NE 2000 or other) _____

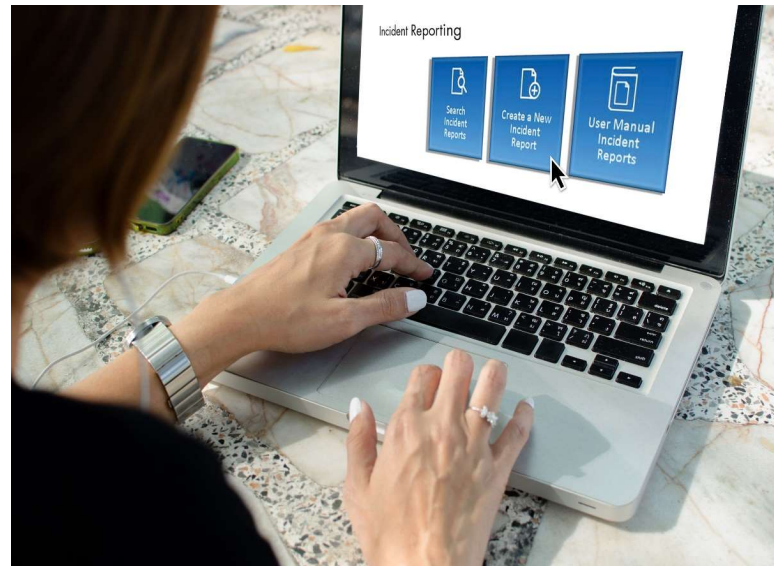
20. Was the material shipped as a hazardous waste? Yes No If yes, provide the EPA Material Number: _____

21. Is this a Toxic Inhalation Hazard material? Yes No If yes, provide the Hazard Code: _____

22. Was the material shipped under an Exemption, Approval, or Compensatory Order? Yes No If yes, provide the Exemption, Approval, or Compensatory Order number: _____

23. Was this an undeclared hazardous material shipment? Yes No

Form LHA 5800.1 01-2004 Page 1 Reproduction of this form is prohibited.



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What Data Do We Collect Via the 5800.1?

● Who, What, Where, and When

● Characteristics of the release:

- Material
- Packaging
- Hazard Communication
- Handling

● Compliance and non-compliance

● Consequences

● Causation



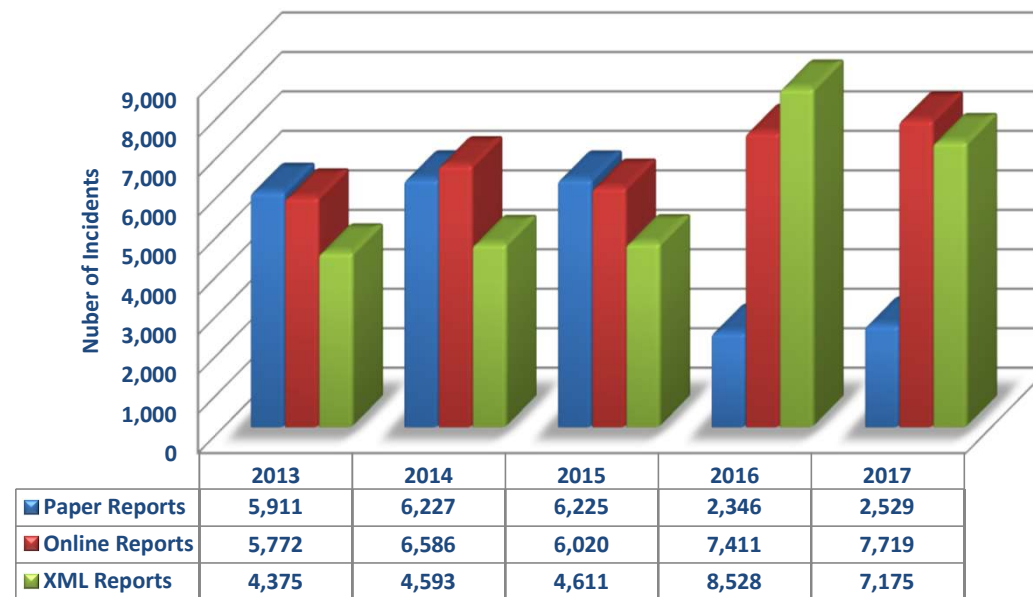
Incident Reporting Processing

- OHMS Data Operations Process on average about 19,000 incident reports per year.

- Each of these reports goes through a rigorous quality control process.

- The New Incident Reporting System will build into the system business rules that currently are manually monitored.

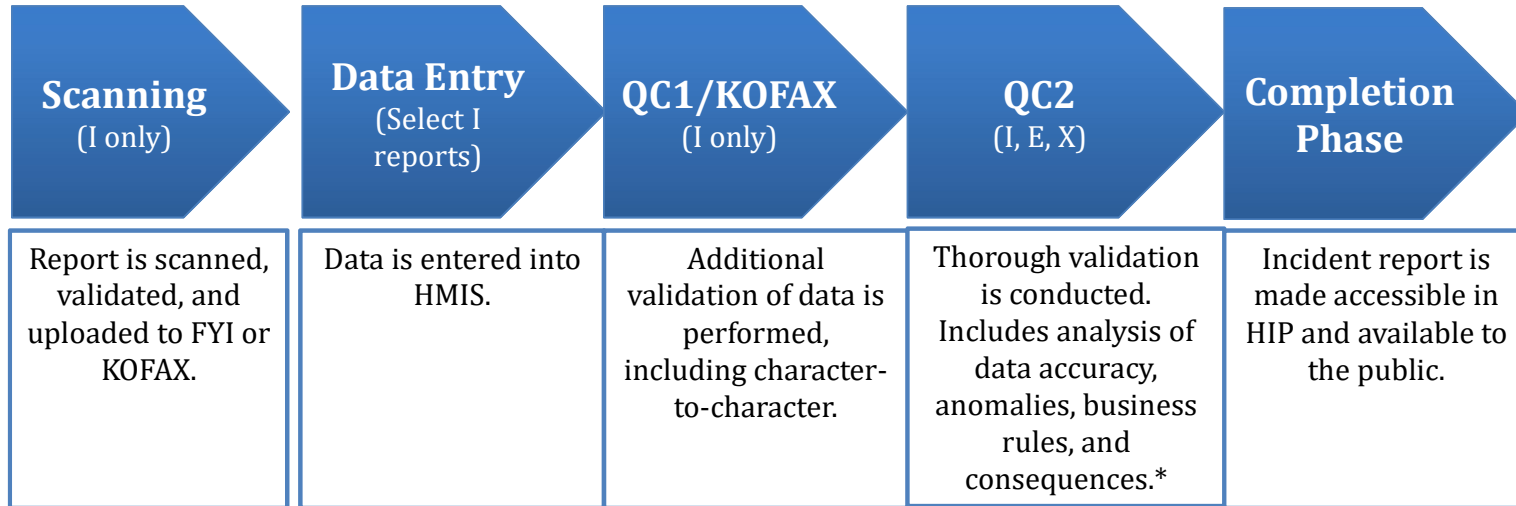
DOT 5800.1's Completed By Source
2013-2017



Incident Reporting Processing Not So Simple

KEY

I = Paper Submission
E = Online Submission
X = XML Submission



***Note:** For incidents involving D&Is, CTMV rollovers, and public evacuations, additional validation is performed.



5800.1 Form Did You Know?

Recordkeeping

- You must Keep a copy or Electronic Image for Two years after the date you submit to PHMSA.
- Must be accessible through your company's principal place of business
- Must be made available upon request within 24 hours

Form Updates

- A death results from injuries cause by a hazardous material
- Damages or related costs that were not known at the time the report was filed become known
- Misidentification of hazardous material or packaging information
- Revised estimates of damages, losses, and related costs result in a change of \$25,000 or more or 10% of original cost estimates.



HAZMATICS

Hazardous Materials Incident Communication System

Project Goal: Implement a new Reporting System with modernized capabilities that provide further automation and improved efficiencies and user experience for stakeholders

Remember, Continuous
Improvement **IS**
Innovation



Mark E. Patton



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Project Approach

Agile Approach to Development

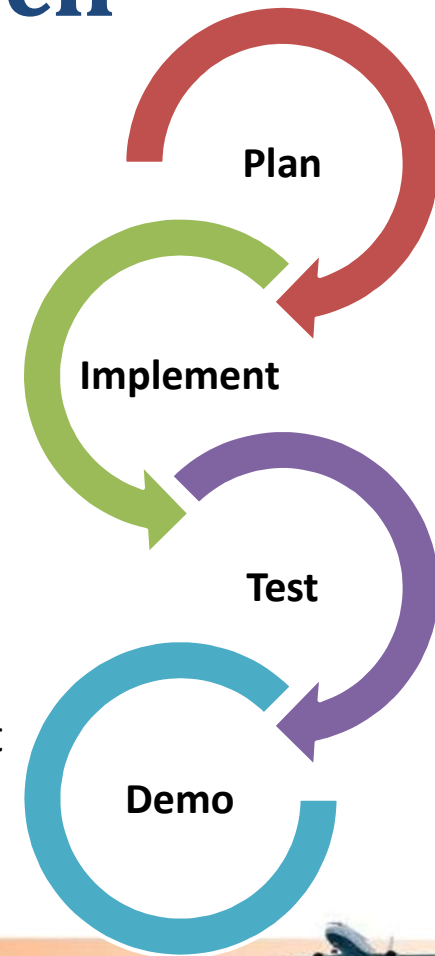
10 Week Discovery Phase

- Multiple requirements validation working sessions
- Concept discussions
- Gap Analysis
- Baseline Requirements List
- High Level Design
- Project Implementation Plan

3 Week Sprints

- Planned 15 Iterations (cycles) of 3 weeks each
- Identify priorities, build plan, implement and test
- Demo to elicit approval, recommendations and changes

Release FY 18



Stakeholders Impacted



HAZMATICS benefits both internal and external stakeholders. Internally it provides improved process flow and automation. Externally it provides a better user experience. All stakeholders benefit from improved data quality.



HMIS vs. HAZMATICS

Reporting Capabilities

- **Multiple reports for a single incident**
 - **Eliminate the need for multiple reports for a single incident**
- **Business Rules limited, leading to conflicting data points**
 - **Business Rule Validations**
 - **Data Quality Improvements**
- **User Guidance is separate document**
 - **Built-in Guidance**
 - **Tool tip**
 - **Help - Instruction Booklet**
- **Limited Ability to provide supporting documentation**
 - **Full ability to upload supporting documentation**
- **Abandon/Incomplete Reports**
 - **System generated email notification (7, 14, 21 days)**
- **Compliance with 171.16**
 - **System generated email notification (11 months after date of incident)**
- **Linear data processing that can lead to bottlenecks**
 - **Improved Process Flow**



HAZMATICS

Reporting Capabilities – Abandon/Incomplete Reports

- **System generated email notification (7, 14, 21 days)**

Date: January 7, 2017
From: PHMSA
To: <Reporter's email>
Subject: **Reminder: Recent Hazardous Materials 5800.1 Report E-2017039876**

This email serves as a reminder that you initiated a hazardous materials incident report with the U.S. Department of Transportation Pipeline and Hazardous Materials Safety Administration on January 1, 2017 for an incident that occurred on December 27, 2016. As of today, this report has not been submitted. Pursuant to 49 C.F.R. § 171.16 (a) you must submit a Hazardous Materials Incident Report DOT 5800.1 within 30 days of discovery of the incident.

The report must be completed and submitted no later than January 27, 2017.

If you have any questions or if you have determined that this incident should not be reported, please contact us via email at hmrequests@dot.gov

Thank you,
OHMS Data Operations

Date: January 21, 2017
From: PHMSA
To: <Reporter's email>
Subject: **URGENT ACTION REQUIRED: Outstanding Hazardous Materials 5800.1 Report E-2017039876**

This email serves as a **third and final** reminder that you initiated a hazardous materials incident report with the U.S. Department of Transportation Pipeline and Hazardous Materials Safety Administration of the Department of Transportation on January 1, 2017 for an incident that occurred on December 27, 2016.

TO AVOID BEING OUT OF COMPLIANCE WITH 49 C.F.R. § 171.16 (A) THE REPORT MUST BE COMPLETED AND SUBMITTED NO LATER THAN JANUARY 27, 2017.

If you have any questions or if you have determined that this incident should not be reported, please contact us via email us at hmrequests@dot.gov

Thank you,
OHMS Data Operations



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HAZMATICS

Reporting Capabilities – Compliance with 171.16

- **System generated email notification (11 months after date of incident)**

Date: January 28, 2017
From: PHMSA
To: <Reporter's email>
Subject: **5800.1 Report # 2016024523**
Attachment: C-2016021027.pdf

On February 28, 2016 you submitted a hazardous materials incident report with the U.S. Department of Transportation Pipeline and Hazardous Materials Safety Administration. If you would like to modify or provide additional information for the report, it must be submitted by February 28, 2017 Pursuant to 49 C.F.R. § 171.16 3 (c), a hazardous materials incident report must be updated within one year of the date of occurrence of the incident whenever:

1. A death results from injury caused by a hazardous material;
2. There was a misidentification of the hazardous material or packaging information on a prior incident report;
3. Damage, loss or related cost that was not known when the initial incident report was filed becomes known; or
4. Damage, loss, or related cost changes by \$25,000 or more, or 10% of prior total estimate, whichever is greater.

A copy of the report is attached for your review. The information that you provide is fundamental to hazardous material risk analysis and risk management by government and industry. It allows us to better understand the causes and consequences of hazardous materials incidents.

If you have any questions, please contact us via email us at hmrequests@dot.gov



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HAZARDOUS MATERIALS INCIDENT COMMUNICATION SYSTEM



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HAZMATICS – Creating an Account

PHMSA Pipeline and Hazardous Materials Safety Administration **U.S. Department of Transportation**

[PHMSA Home](#) | [Contact Information](#)

Contact Information Verification Confirmation

Contact Information

Please fill out the following personal information to enroll in the PHMSA Portal.

* Please select the type of user you wish to enroll as: **Hazardous Materials**

* First Name:
Middle Initial:
* Last Name:
Username:

* Address #1:
Address #2:
* City:
* State:
* Zip Code:

* Work Phone:
Alt Phone:
Fax:
* Work Email:
* Confirm Email:

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[Regulations.gov](#) | [USA.gov](#) | [WhiteHouse.gov](#) | [DOT.gov](#)



HAZMATICS – Multiple Report Owners

- Since the inception of electronic reporting and Incident Report had a single owner.
- By design, access is restricted to that owner.
- With HAZMATICS, we have developed a simple method for reporters and their companies to organize individuals into “**Workgroups**” that have access to reports.



HAZMATICS – Multiple Report Owners

- Designate workflows to allow for review and approval of Incident Reports
- Substitute, add and/or replace report owners



HAZMATICS – Multiple Report Owners –Process

1. Each workgroup will be created by a user, most likely a manager of the reporting company, but anyone has the rights to create a workgroup.
2. Whoever creates the workgroup will define the **“Workgroup Name”** and a **“Workgroup Access Key”**.
3. These will be distributed to other members of the workgroup and used to join the workgroup and access the incident reports associated with that workgroup.



HAZMATICS – Multiple Report Owners –Dependencies

1. The workgroups will be created by the users.
2. All members of the workgroup will have equal privileges.
3. Workgroups will manage their review and approval processes through their own roles and manual business flow.
4. HAZMATICS will not be modified to automate or validate workgroup business rules. This allows every workgroup to define its own workflow.



HAZMATICS – Multiple Report Owners

Join a Workgroup

Available Workgroups
UPS North East

Access Key 784563

Join this Workgroup

My Workgroups
UPS Mid-Atlantic
UPS North West
UPS South East

Create a New Workgroup

Workgroup Name

Workgroup Access Key

Create

Done

Welcome, Mary Smith

 Search Incident Reports	 Create a New Incident Report	 User Manual Incident Reports
 Search Potentially Reportable Incidents	 Create a New Web Source Incident	 User Manual Potentially Reportable Incidents

Join a Workgroup

Available Workgroups
UPS North East

Access Key

Join this Workgroup

My Workgroups
UPS Mid-Atlantic
UPS North West
UPS South East
UPS North East

Create a New Workgroup

Workgroup Name

Workgroup Access Key

Create

Done

Create / Join a Workgroup

Workgroups allow more than one person to access individual reports.



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HMIS vs. HAZMATICS

Linear data processing that can lead to bottlenecks

Improved Process Flow

U.S. Department of Transportation
OHMS INCIDENT REPORT

Report Number: E-2016060290 Tracking ID: 667902 Status:

Part 1 **Part 2** Part 3 Part 4 Part 5 Part 6 Part 7 Part 8
 Report Type **General (Data Entry)** Packaging Consequences Air Incident Description Recommendation Contact Info

[Back](#) [Next](#) [Instructions](#)

PART 2 – GENERAL INCIDENT INFORMATION

3. **Date of Incident:** 4. **Time of Incident (use 24-hour time):**

5. **Enter National Response Center Report Number (if applicable):**

6. **If you submitted a report to another Federal DOT agency, enter the agency and report number:**
 Agency: Report number:

7. **Location of Incident: (U.S. City and Postal Code check)**
 City: Or ZIP Code:
 County: State: ...or enter a non U.S. state:
 Postal Code: Country:

8. **Mode of Transportation:** Air Highway Rail Water

9. **Transportation Phase:** In Transit Loading Unloading Temporary Storage

webIR
Report #: E-2016060595

Report Type: **Shipment Information** Consequences Air Incident Information Description & Recommendation Contact Information Submit

1. This is to report: A hazardous material incident
 An undeclared shipment with no release
 A specification cargo tank 1,000 gallons or greater containing any hazardous materials that (1) received structural damage to the lading retention system or damage that requires repair to a system int.

2. Indicate whether this is: Initial Report Supplemental Report

3. Date Of Incident:

4. Time Of Incident:

5. National Response Center Report Number (if applicable):

6. If you submitted a report to another Federal DOT agency, enter the agency and report number:
 Agency:

7. Location of Incident:
 City: Or ZIP Code:
 County: State: Country:
 Street Address/ Mile Marker/ Yardname/ Airport/ Body of

[Next](#) [Save](#) [Back to Search Page](#)


Do you wish to fix these issues before proceeding?

- * Incident Date is required
- * Incident City is required
- * Incident Location does not appear to be valid
- * Carrier/Reporter details do not appear to be valid

[Fix Issues Now](#) [Continue without Fixing!](#)



HMIS – User Guidance

 U.S. Department of Transportation **OHMS INCIDENT REPORT**

Report Number: E-2016060290 Tracking ID: 667902 Status:

Part 1 **Part 2** Part 3 Part 4 Part 5 Part 6 Part 7 Part 8
Report Type General (Data Entry) Packaging Consequences Air Incident Description Recommendation Contact Info

[Back](#) [Next](#)

PART 2 – GENERAL INCIDENT INFORMATION

3. **Date of Incident:** *
(format: mm/dd/yyyy)

4. **Time of Incident (use 24-hour time):** *
(format: hhmm)

5. **Enter National Response Center Report Number (if applicable):**

6. **If you submitted a report to another Federal DOT agency, enter the agency and report number:**

Agency

Report number

7. **Location of Incident:** [\(U.S. City and Postal Code check\)](#)

City *

County

State * ...or enter a non U.S. state:

Postal Code

Country *

Street Address/ Mile Marker/ Yardname/ Airport/ Body of Water/ River Mile

8. **Mode of Transportation:** * Air Highway Rail Water

9. **Transportation Phase:** * In Transit Loading Unloading Temporary Storage



User Guidance is a separate document



HAZMATICS – User Guidance/Tool Tips

webIR
Report #: E-2016060595

Report Type Shipment Information Consequences Air Incident Information Description & Recommendation Contact Information Submit

1. This is to report A hazardous material incident
 An undeclared shipment with no release
 A specification cargo tank 1,000 gallons or greater containing any hazardous materials that (1) received st

2. Indicate whether this is: Initial Report Supplemental Report

3. Date Of Incident

4. Time Of Incident

5. National Response Center Report Number (if applicable)

6. If you submitted a report to another Federal DOT agency, enter the agency and report number
 Agency

7. Location of Incident
 City
 Or
 ZIP Code
 County
 State
 Country
 Street Address/ Mile Marker

Next Save ➤ **Built-in Guidance**
 ➤ **Tool tip**
 ➤ **Help - Instruction Booklet** Back to Search Page

webIR Online User Manual

Question	Help
Report Type	
Question 1 to Question 5	
6. If you submitted a report to another Federal DOT agency, enter the agency and report number	If you submitted a report to another Federal DOT agency, enter the agency and report number: If you were required to fill out a report for another federal agency such as the Federal Railroad Administration (FRA) or the Federal Motor Carrier Safety Administration (FMCSA) for this incident, please include the agency and report number. This will facilitate our combination of information.
6. If you submitted a report to another Federal DOT agency, enter the agency and report number	location of Incident: Enter the geographic location of the incident (city, county, state, and zip code). If you do not know the actual location where the incident occurred, give the location where it was discovered. If the incident occurred at an airport or rail yard, include the name of the facility. If the incident occurred on a body of water, include the name and/or river mile. If you do not know the street address, or if the incident occurred on a highway, include a description such as "On I-70, mile marker 240."
Question 8 and 9	
10. Carrier/Reporter	Carrier/Reporter: Provide the name, street address, Federal DOT number (if applicable), and hazmat

If you were required to fill out a report for another Federal DOT agency, select that Federal DOT agency here.



HAZMATICS – Business Rule Validation

Report Type **Shipment Information** Consequences Description & Recommendation Contact Information Submit PHMSA Review

This is to report *

- A hazardous material incident
- An undeclared shipment with no release
- A specification cargo tank 1,000 gallons or greater containing any hazardous materials that (1) received structural damage to the lading retention system or damage that requires repair to a system int

Indicate whether this is:

Initial Report Supplemental Report

Date Of Incident * 6/10/2016

Time Of Incident 1800

National Response Center Report Number (if applicable)

If you submitted a report to another Federal DOT agency, enter the agency and report number

Agency Select

Location of Incident

City * Oklahoma City

Or

ZIP Code 73108

County OKLAHOMA

State * Oklahoma

Country UNITED STATES

Next Save

19. Quantity Released

Unit Of Measure Select

30. Results of Incident (check all that apply)

- Spillage
- Vapor (Gas) Dispersion
- Fire
- Explosion
- Environmental Damage
- Material Entered
- Waterway/Storm Sewer
- Other
- No Release



HMIS vs HAZMATICS- Business Rule Validation

32. Damages: Was the total damage cost more than \$500?

If yes, enter the following information: If no, go to question 33.

Material Loss:	Carrier Damage:	Property Damage:	Response Cost:	Remediation/Cleanup Cost:	Calculated Total:
\$0	\$0	\$0	\$0	\$0	\$0

(See damage definitions in the instructions.)

33a. Did the hazardous material cause or contribute to a human fatality?

If yes, enter the number of the fatalities resulting from the hazardous material:

Fatalities:	Employees	Responders	General Public
	0	0	0

33b. Were there human fatalities that did not result from the hazardous material? If yes, how many?

34. Did the hazardous material cause or contribute to a personal injury?

If yes, enter the number of the injuries resulting from the hazardous material:

Hospitalized (Admitted Only):	Employees	Responders	General Public
	0	0	0
Non-Hospitalized:	Employees	Responders	General Public
	0	0	0

35. Did the hazardous material cause or contribute to an evacuation?

If yes, provide the following information:

Total number of general public evacuated:	Total number of employees evacuated:	Total Evacuated:
0	0	0

Duration of evacuation (hours)

36. Was a major transportation artery or facility closed? If yes, how many? (hours)

37. Was the material involved in a crash or derailment?

If yes, provide the following information:

Estimated speed (mph):	<input type="text" value="0"/>	Weather conditions:	<input type="text"/>
Vehicle overturn?	<-Select->		
Vehicle left roadway/track?	<-Select->		

32. Damages: Was the total damage cost more than \$500?
 Yes No

33a. Did the hazardous material cause or contribute to a human fatality?
 Yes No

33b. Were there human fatalities that did not result from the hazardous material?
 Yes No

34. Did the hazardous material cause or contribute to personal injury?
 Yes No

35. Did the hazardous material cause or contribute to an evacuation?
 Yes No

36. Was a major transportation artery or facility closed?
 Yes No

37. Was the material involved in a crash or derailment?
 Yes No

32. Damages: Was the total damage cost more than \$500?
 Yes No

If yes, enter the following information.

Material Loss	\$2,000
Carrier Damage	
Property Damage	\$1,050
Response Cost	
Remediation/Cleanup Cost	\$2,500
Damages Total	\$5,550



HAZMATICS – Multiples / Incident

webIR
Report #: I-2011090136

Report Type Shipment Information Consequences Air Incident Information Description & Recommendation Contact Information Submit

Overview

- ▼ CLEAN HARBORS ENVIRONMENTAL SERVICES
 Non-Bulk
- ▼ HAZARDOUS WASTE, LIQUID, N.O.S.
 Non-Bulk
- ▼ POLYCHLORINATED BIPHENYLS, SOLID
 Non-Bulk
- ▼ SODIUM HYDRATE
 Non-Bulk
- ▼ TOXIC LIQUIDS, ORGANIC, N.O.S.
 Non-Bulk
- ▼ FLAMMABLE LIQUIDS, N.O.S.
 Non-Bulk
- ▼ SOLIDS CONTAINING FLAMMABLE LIQUIDS, N.O.S.
 Non-Bulk
- ▼ CORROSIVE LIQUIDS, OXIDIZING, N.O.S.
 Non-Bulk
- ▼ CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
 Non-Bulk
- ▼ CORROSIVE LIQUIDS, N.O.S.
 Non-Bulk
- ▼ CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.
 Non-Bulk
- ▼ MERCURY
 Non-Bulk

Shipper Add Shipper Delete Shipper

11. Shipper/Offerrer

Name: CLEAN HARBORS ENVIRONMENTAL
Street: 1021 BERRY ESSA ROAD
City: San Jose
State: California
Postal Code: 95133
Country: UNITED STATES
Waybill/Shipping Paper:
Hazmat Registration Number:

12. Origin (if different from shipper address)

Street:
City:
State: Select
Postal Code:
Country: UNITED STATES

Material Add Material

Packaging Add Packaging

Previous Next Save Back to Search Page

Shipper → CLEAN HARBORS ENVIRONMENTAL SERVICES
Commodity → POLYCHLORINATED BIPHENYLS, SOLID
Package → TOXIC LIQUIDS, ORGANIC, N.O.S.



HAZMATICS - Hard Validation Message

PHMSA Home HAZMATICS

Report #: E-2017095042 (Data Entry In Progress)

Report Type Shipment Information Consequences Air Incident Information Description & Recommendation Contact Information Submit

More information is needed

The Following information has not been provided. The items marked 'Required Fix' Must be completed before moving to the next step. Click each button to fix the item

View ▾ Detach

Actions	Validation Message
Required Fix	Question #1 - The Report Type is required
Required Fix	Question #4 - The Incident Time is required
Required Fix	Question #7 - Incident City is required
Fix	Question #7 - Street Address/ Mile Marker/ Yardname/ Airport/ Body of Water/ River Mile has not been entered
Fix	Question #7 - Incident County is required
Required Fix	Question #7 - Incident U.S. State is required
Required Fix	Question #9 - Transportation Phase is required
Required Fix	Question #10 - No Carrier/Company has been selected
Required Fix	Question #10 - The Carrier's Street, City, Country and State are required
Required Fix	Question #20 - "Was the material shipped as hazardous waste?" is required

webIR

Report #: E-2016050427 (QC2)

Report Type Shipment Information Consequences Description & Recommendation Contact Information Submit PHMSA Review

1. This is to report *

- A hazardous material incident
- An undeclared shipment with no release
- A specification cargo tank 1,000 gallons or greater containing any hazardous materials that (1) received structural damage to the lading retention system or damage that requires repair to a system int.

2. Indicate whether this is: Initial Report Supplemental Report

3. Date Of Incident *

4. Time Of Incident

5. National Response Center Report Number (if applicable)

6. If you submitted a report to another Federal DOT agency, enter the agency and report number

Agency



HAZMATICS

Pilot Program Participants



Carriers

19

Users

78

Modes

Air

Rail

Highway

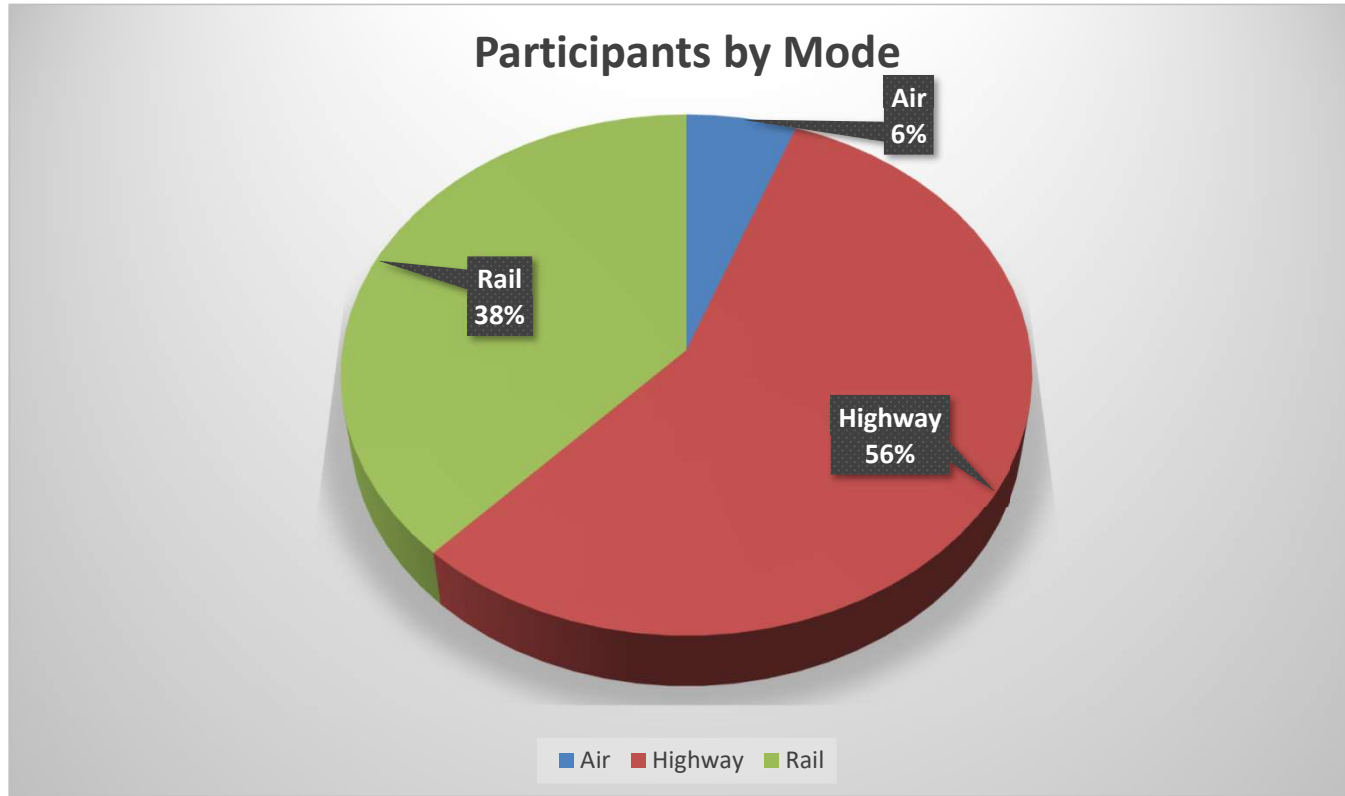


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Safety Administration

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Pilot Program Participants



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Pilot Program Participants

Air	# of Participants
American Airlines	1
Delta Airlines	1
DHL	1
United Airlines	1

Rail	# of Participants
Kansas City Southern Railway	1
Norfolk Southern Railway	8
Union Pacific Railroad	20

Highway	# of Participants
A. Duie Pyle Inc.	1
ABF Freight	1
Clean Harbors	1
ERTS	25
FedEx Express	1
Groendyke Transport	3
Honeywell	1
Pitt Ohio	1
Quality Carriers	3
Solar Transport	1
Univar	5
XPO Freight Inc.	2



Pilot Program Feedback

Overwhelming positive feedback on:

- Ease of use
- Free flow reporting
- Ability to report multiple commodities in one incident form (they no longer have to add additional commodities in the description field)
- Ability to upload attachments



In Summary

HAZMATICS...

- MAP-21 – IT Modernization
- Reduce Government resources by decreasing processing time
- Aligns with agency strategic goals
- Enforces data correctness and data completeness, while allowing users to provide as much information as possible
- Enhances the Internal and External user experience by simplifying the process and improving efficiencies
- Integrates with other PHMSA portal based systems (Special Permits, Case Management, HIP)



Comprehensive

Intuitive



Innovative

Flexible

If you are interested in Learning More About HAZMATICS,
please contact PhmsaHAZMATICS@DOT.GOV



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HAZMATICS Features and Benefits

A general overview of HAZMATICS

<https://www.youtube.com/embed/RNsUhPgnXoQ>



This tutorial will walk you through the steps of submitting a basic Hazardous Materials Incident Report (form 5800.1) in HAZMATICS from beginning to end.
<https://www.youtube.com/embed/2RcLzkU54I0>



This tutorial will walk you through the steps of submitting a Hazardous Materials Incident Report (form 5800.1) for an incident that has multiple commodities and shippers.
<https://www.youtube.com/embed/678FHBq5gyQ>



This tutorial will guide you through the steps of creating and using Workgroups to allow multiple people to access and manage the same DOT 5800.1.
<https://www.youtube.com/embed/craRMXcYyTY>



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Data Operations

Innovation In Motion – Achieving ISO 9001

ISO 9001:2015 describes the criteria for a Quality Management System (QMS) to give your organization the quality systems that will provide the foundation to better customer satisfaction, staff motivation and continual improvement.

ISO 9001 Provides

DIRECTION	CONSISTENCY	EFFICIENCY
Establish Quality Policy	Steadfast adherence to the same principles, procedures, forms, etc.	Ability to accomplish a job with a minimum expenditure of time and effort
Set Goals and Objectives		
Establish Procedures and Methods	Agreement, harmony, and compatibility	



Data Operations

Innovation In Motion – Achieving ISO 9001

STRUCTURE OF ISO 9001 STANDARD

The elements of the ISO 9001 standard are structured in accordance with the Plan – Do – Check – Act cycle to help to focus processes and objectives toward desired improvement.



Data Operations

Innovation In Motion – Achieving ISO 9001

- ISO-9001 Certification for a Data Operations Quality Management System (QMS)
 - Standardizes processes and procedures in a systematic approach
 - Based on the principles of strong customer focus, top management engagement, the process approach, and continual improvement.
 - QMS targets and minimizes risks related to non-standard procedures & practices, staff competencies, accountability, resource issues, oversight, and quality assurance.
 - OHMS expects this effort to improve processing times and efficiencies, resource use, stakeholder satisfaction, and data quality and consistency.

PHMSA OHMS Data Operations is one of the Few Government Agencies Voluntarily Implementing a Quality Management System and the only data program in DOT to be ISO certified



OHMS Data Operations Quality Policy

OHMS Data Operations maintains an ISO 9001-certified Quality Management System that continually improves the collection and management of hazardous materials transportation incident data to provide timely and reliable information to support PHMSA'S safety, environmental, and organizational excellence goals, and meet internal stakeholders needs



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5800.1 Content Update

PHMSA is in the process of updating questions on the 5800.1 Form to provide maximum value to stakeholders while minimizing burden.



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5800.1 Content Update

To maximize value, PHMSA will:

- Evaluate the current information collected and how it is used.
- Interview internal and external stakeholders
- Identify areas for improvement, removal, and for new content.
- Draft new questions for the 5800.1 form



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5800.1 Content Update

To reduce burden, PHMSA will:

- Evaluate the language of newly drafted 5800.1 questions
- Evaluate whether the answers to questions can be easily obtained by filers
- Edit and finalize new 5800.1 questions



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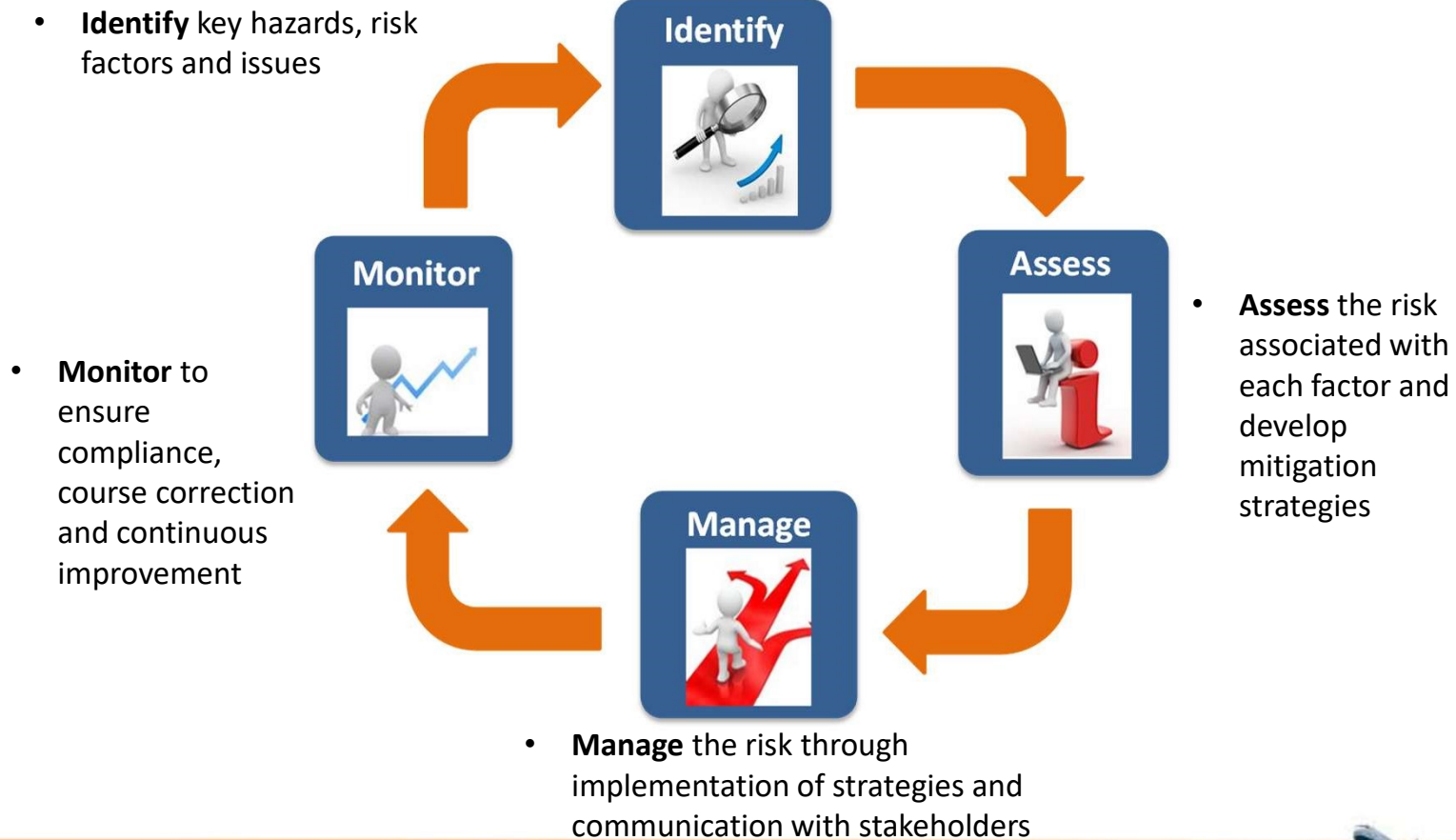
5800.1 Content Update

Tentative Timeline

- Q3 2018 - Evaluation of old 5800.1 content
- Q4 2018 - Stakeholder Interviews
- Q2 2019 - New 5800.1 content drafted
- Q3 2019 - Cognitive testing of new content
- Q4 2019 - New content finalized



How is the 5800.1 Form information used?



How is the 5800.1 Form information used?



Example:

Recently, PHMSA leveraged data on undeclared hazmat from the 5800.1 form to launch the “Check the Box” campaign. Check the Box is an outreach initiative to increase shipper hazmat awareness so that hazmat is properly marked and packaged. Data from the 5800.1 form has allowed PHMSA to focus the campaign towards those stakeholders where increased awareness would have the greatest impact.

Meet HazMatt.

Certain common household items may seem harmless, but they can be toxic, corrosive, and even explosive if sent or handled inappropriately.

Take our friend HazMatt. He can pose a significant safety risk while being transported, which is why he requires specific packaging, marking, and labeling to ensure proper handling and safe transport.



Always **CHECK THE BOX** and make sure your package is safe to send!

We all need to do our part to protect people from hazardous material transportation accidents and incidents.

Remember, if you see HazMatt, don't forget to identify, package, and communicate him properly. And when you bring your package to the post office or other shipping facility, be sure to notify them that HazMatt is in your package.

Is HazMatt hiding in your package?



Need assistance with identifying hazardous materials or any hazardous materials transportation regulations? Check out the webpage below or contact our Hazardous Materials Information Center by telephone at 1-800-467-4922 or 202-366-4488 or by e-mail at infocntr@dot.gov

[CheckTheBox.dot.gov](https://www.checkthebox.dot.gov)

 **CHECK THE BOX**

CHECK THE BOX



Is HazMatt hiding in your package?

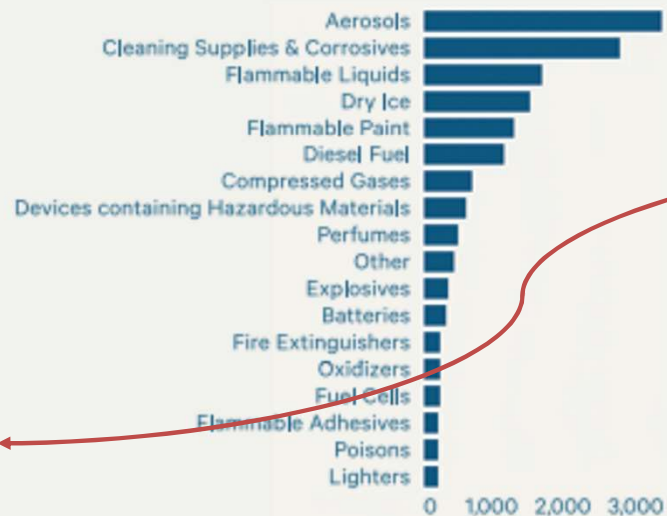
Each year, approximately 1,500 transportation incidents occur when **undeclared hazardous materials** are shipped.

These incidents involve diverse types of hazardous materials and cause serious safety consequences for transportation workers, emergency responders, and the general public.

Incidents with Undeclared Hazmat by Location



Incidents with Undeclared Hazmat by Commodity



Source: <https://hazmatonline.phmsa.dot.gov/IncidentReportsSearch/Welcome.aspx>

5800.1
data

Notable Undeclared Hazmat Incident



HOUSTON, TX: 2017 – An intermodal container transporting undeclared hazmat by rail caught fire when 55 gallon drums of lithium batteries entered thermal runaway and exploded.



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[CheckTheBox.dot.gov](https://www.checkthebox.dot.gov)

Trends and Statistics

If you are not searching for a specific incident, you may enter a date range to view a certain amount of months/years of data

Select one or more modes if you want to filter your results to show incidents *only* for that mode.
*Note: To view all modes, leave this field blank.

Only select State if you are searching for information on one particular state

PHMSA Office of Hazardous Materials Safety Incident Reports Database Search

Source: Hazmat Intelligence Portal, U.S. Department of Transportation. Data as of 2/27/2013.

PART II - GENERAL INCIDENT INFORMATION

3. Date of Incident: From: 01/01/2008 To: 12/31/2012 (mm/dd/yyyy)

7. Location of Incident: City: (begins) State: Oklahoma Zip Code: (contains)

Incident Route: (contains)

8. Mode of Transportation: Air Highway Rail Water Other

9. Transportation Phase: In Transit Loading Unloading In Transit Storage

10. Carrier/Reporter Name: (contains) State: Select Zip Code: (contains)

11. Shipper/Offeror Name: (contains) State: Select Zip Code: (contains)

12. Origin: City: (contains) State: Select Zip Code: (contains)

13. Shipper Shipping Name of Hazardous Material: (contains)

14. Hazardous Class/Division Code: (begins) 17. Identification Number: (contains)

PART III - PACKAGING INFORMATION

15. Packaging Type: Non-Bulk IBC Cargo Tank Motor Vehicle (CTMV) Tank Car Cylinder RAM Portable Tank Other

16. What Failed: (contains) How Failed: (contains)

18. Incident Cause: Causes of Failure: (contains)

PART IV - CONSEQUENCES

30. Result of Incident: Spillage Fire Explosion Material Entered Waterway/Storm Sewer Vapor(Gas) Dispersion Environmental Damage No Release

33a. Did the hazardous material cause or contribute to a human fatality? Select

34. Did the hazardous material cause or contribute to personal injury? Select

35. Did the hazardous material cause or contribute to an evacuation? Select

36. Was a major transportation artery or facility closed? Select

37. Was the material involved in a crash or derailment? Select

OTHER

Report Number: (contains) Serious Incident: Select

Container Code Detail: (contains) Undeclared Shipment: Select

General Package Type: Select

DISPLAY OPTIONS: Display 50 results per page.

Clear Search



Trends and Statistics

Incident Reports Database Search

* Since some incidents involve multiple commodities and/or multiple package types, double counting can occur.
 * Use the following links to obtain helpful reference information:
 Serious Incident Definition - PHMSA revised the definition of a serious incident in Fiscal Year 2006. This definition is...
 Data Dictionary - Description of the data fields in the reports on this site
 Units Of Measure - Description of the units of measure used in the reports on this site

3280 Record(s) found - Please click on any column header to sort by ascending or descending

EXPORT OPTIONS: Export fields: Export most requested fields
 Export most requested fields
 Export all fields

Export to CSV

Incident City Incident State Mode of Transportation Carrier/Reporter Name

Report Submission Source	Report Number	Multiple Rows per Incident	Report Type
Web	E-2007040196	No	A hazardous material incident
XML	X-2007120298	No	A hazardous material incident
Web	E-2006070236	No	A hazardous material incident
Paper	I-2008030280	No	A hazardous material incident
XML	X-2006080224	No	A hazardous material incident
Web	E-2010070270	No	A hazardous material incident
Paper	I-2006030831	No	A hazardous material incident
XML	X-2011010050	No	A hazardous material incident
Paper	I-2007040380	No	A hazardous material incident
XML	X-2010060379	No	A hazardous material incident
XML	X-2010090347	No	A hazardous material incident
Web	E-2008020365	No	A hazardous material incident
Paper	I-2009020192	No	A hazardous material incident
Web	E-2009110112	No	A hazardous material incident
Paper	I-2006061320	No	A hazardous material incident
Web	E-2010060243	No	A hazardous material incident
PACKAGE SYSTEM, INC.	MATTHEWS INTERNATIONAL CORPORATION	No	0 0 \$0 Non-Bulk
PACKAGE SYSTEM, INC.	SHERWIN WILLIAMS DISTRB	No	0 0 \$0 Non-Bulk
FEDEX GROUND PACKAGE SYSTEM, INC.	HILL MANUFACTURING COMPANY, INC.	No	0 0 \$0 Non-Bulk

You can export "all fields" or the "most requested fields".

Once exported, results will be exported to an Excel spreadsheet.



Incident Report Statistics

Available Reports


- **Yearly Incident Summary Reports**
 - Casualty Classification
 - Transportation Phase
 - Incidents by Results
 - Incidents Cause by Mode
 - Incident by Hazard Class
 - Incidents by Commodity Rank
 - Undeclared Incidents by State
 - Bulk Containers
 - Incidents by State
 - Incidents Map
- **10 Year Incident Summary Reports**
 - All Incidents
 - Accident/Derailment Incidents
 - RAM Incidents
 - Waste Incidents
 - Undeclared Incidents
 - Bulk Incidents
 - Non-Bulk Incidents



Incident Report Statistics

10 Year Incident Summary Reports

Signed In As Public Website User

 Hazardous Materials Incident Report	
U.S. Department of Transportation Research and Special Programs Administration Form Approval OMB No. 3137-0039	
<p>According to the Paperwork Reduction Act of 1995, no person is required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 3137-0039. The filing of this information is mandatory and will take 25 minutes to complete.</p>	
<p>INSTRUCTIONS</p> <p>Submit the report to the Information Systems Manager, U.S. Department of Transportation, Pipeline and Hazardous Materials Safety Administration, Office of Hazardous Materials Safety, DHEE-63, Washington, D.C. 20590-0001. If space provided for any item is inadequate, use a separate sheet of paper, identifying the entry number being completed. Copies of this form and instructions can be obtained from the Office of Hazardous Materials Safety at http://hazmat.dot.gov. If you have any questions, you can contact the Hazardous Materials Information Center at 1-800-HRM-4922 (1-800-467-4922) or online at http://hazmat.dot.gov.</p>	
<p>PART I - REPORT TYPE</p>	
1. Incident Id:	X2012020191
2. This is to report:	Hazardous Material Incident
<p>PART II - GENERAL INCIDENT INFORMATION</p>	
3. Date of Incident:	01/31/2011
4. Time of Incident (use 24-hour time):	17:11
5. Enter National Response Center Report Number (if applicable):	
6. If you submitted a report to another Federal DOT agency, enter the agency and report number:	
7. Location of Incident:	
City:	Wilmington
County:	TOLLAND
State:	CT
Zip Code: (if known):	06279
Street Address/Mile Marker/Yard Name/Airport/Body of Water/River Mile:	350 Ruby Road
8. Mode of Transportation:	FMCSA HIGHWAY
9. Transportation Phase:	UNLOADING
10. Carrier/Reporter:	
Name:	FEDEx GROUND PACKAGE SYSTEM, INC.
Street:	1000 FED EX DR
City:	CORADPOLIS
State:	PA
Zip Code:	15109
Federal DOT Id Number:	265752
Hazmat Registration Number:	0519105510075
11. Shipper/Offeror:	
Name:	NALCO COMPANY
Street:	7701 HIGHWAY 90A
City:	SUGAR LAND
State:	TX
Zip Code:	77478
Waybill/Shipping Paper:	303962330161288
Hazmat Registration Number:	
12. Origin (if different from shipper address):	
City:	Sugar Land
State:	TX
Zip Code:	77478
13. Destination:	
City:	Cranston
State:	RI
Zip Code:	02920

Inc Nur X20 X20 X20 X20 X20 X20 X20 X20 X20 X20

Form DOT F 5800.1 (01-2004)

Page 1 of 4

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Benefits



- **Easy** navigation
- **Up-to-date** data
- **Graphs** that can be changed by individual users
- Ability to **sort columns and filter reports** (yearly summary reports only)
- Ability to **download data** into Excel, PowerPoint, etc.
- **Map** displaying total # of serious incidents by each state



Reference Materials – Take Away



HAZMATICS – WORKGROUPS

Create / Join a Workgroup
 Workgroups are created to allow multiple users to collaborate on the same Incident Reports. This allows organizations to manage their own creation, review and approval processes. You do not need to create or join a Workgroup in order to work with HAZMATICS. For more information, [click here](#).

What is a Workgroup?
 Workgroups are made up of a **Workgroup Name** and a **Workgroup Access Key**.

The **Workgroup Name** identifies the Workgroup. It is similar to a username but is shared by all members of the Workgroup. It can consist of any combination of up to 18 letters and numbers and is not case sensitive. It should be a word that is easily remembered and has some meaning to the intended Workgroup members.

The **Workgroup Access Key**, in combination with the Workgroup Name, uniquely identifies the Workgroup. It is similar to a PIN but, like the Workgroup Name, is shared by all members of the group. It can also consist of any combination of up to 12 letters and numbers but the **Workgroup Access Key** is case sensitive.

Do I need to create or join a Workgroup?
 Workgroups are created by HAZMATICS users to allow multiple users to access, edit and submit the same Incident Reports. This allows organizations to manage their own creation, review and approval processes. Workgroups are only needed if multiple individuals need to collaborate on the same Incident Reports.

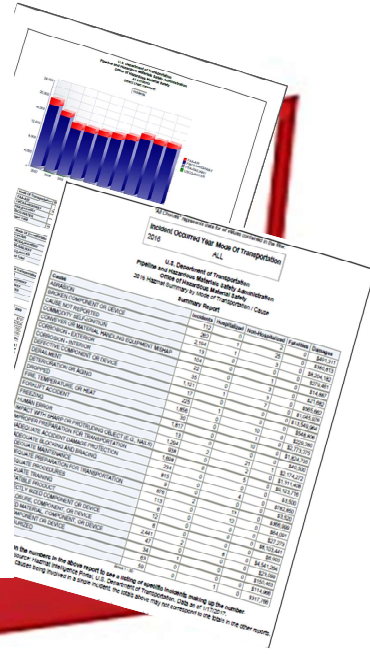
If there is no need for others to review, edit or approve your Incident Reports, you do not need to create or join a Workgroup. Just close the "Create/Join a Workgroup" window and select "Search Incident Reports" or "Create a New Incident Report" to begin working.

Join a Workgroup
 To join a Workgroup ...

1. Get the Workgroup Name and the Workgroup Access Key from one of the members.
2. From the HAZMATICS homepage, click on Create/Join a Workgroup.
3. Use the Available Workgroups dropdown menu in the Join a Workgroup area to find the Workgroup Name. Click on it.
4. Enter the Workgroup Access Key.
5. Click on Join this Workgroup. If you entered an incorrect Workgroup Access Key, an alert message will notify you. There is no limit on the number of retries.
6. Once you have successfully joined, the Workgroup Name and Workgroup Access Key will appear in the My Workgroups table.

As a member of a Workgroup you have automatic access to all of the Incident Reports created by every member of the Workgroup. Other members of the Workgroup also have access to all of yours.

Revised January 2004
 Supersedes Previous Edition



Data Operations Contact Information

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- **General Email Inquiries**
 - [HM Requests@dot.gov](mailto:HM_Requests@dot.gov)
- **HAZMATICS Assistance**
 - PhmsaHAZMATICS@dot.gov
- **Hazardous Materials Information Center**
 - 800-647-4922



Questions

