



## **Today's Discussion**

Overview Office of Hazardous Materials Safety

Hazardous Materials Oversight: The Role and Work of The Inspectors

03 Questions







## **Federal Aviation Administration**

ORGANIZATIONAL OVERVIEW













Air Traffic Organization

**Airports** 

Aviation Safety

Commercial Space

Security And Hazardous Materials Safety

**5** Lines of Business

**43K**+ Employees

9 Staff Offices\*







#### **MISSION**

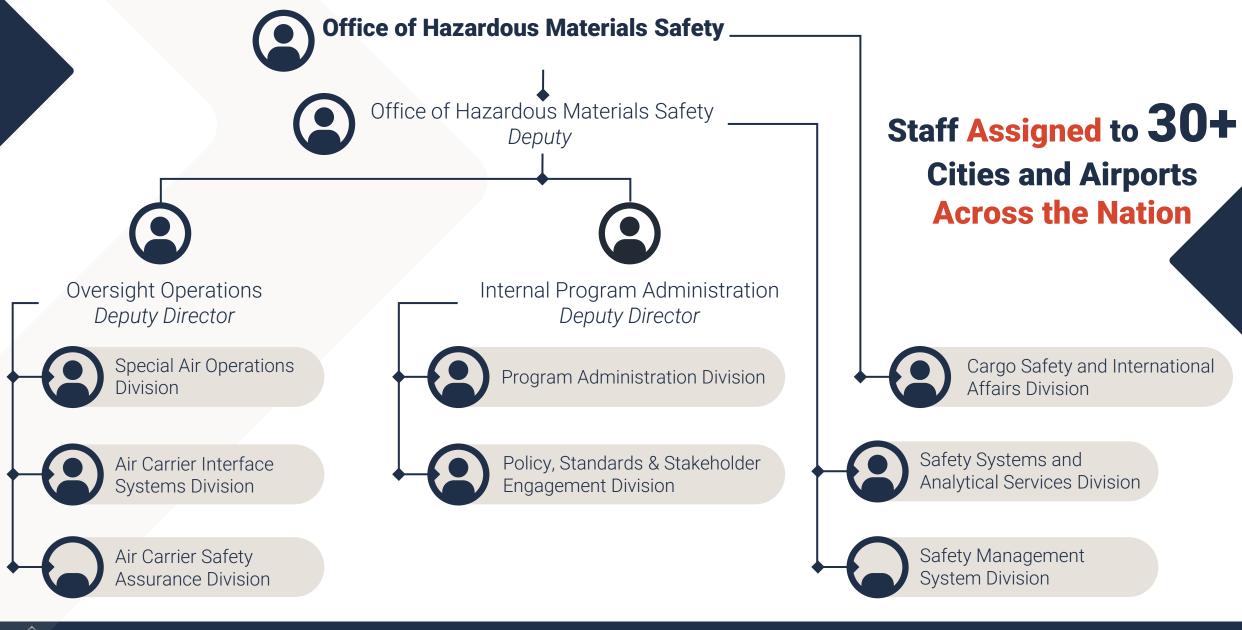
The mission of the Office of Hazardous Materials Safety is to increase safety in air transportation by managing risk.

#### **VISION**

Our vision is to reach the next step in aviation safety through innovative partnerships on safety management that proactively recognize and mitigate the risks influencing the safe and efficient movement of dangerous goods (DG) by air.











# **A Short Video About Us**







## Some facts and figures from our office...

We Oversee a

Large and

Complex System

**4,000+**Other Regulated Entities

**700M+**Passengers

**\$5T+**Global E-commerce Sales

**31M+**Tons Of Air Cargo

We are Actively Engaged in Oversight

170
Personnel in
Our Workforce

**224**Special Permits
Processed in FY24

**7,000+**Certificate
Holders

**656**Air Carrier Dangerous Goods
Manuals Approved

We Focus on a Culture of Safety

**21**Industry Events
Attended in FY24

**363**Social Media
Posts in FY24

49
Lithium Battery
Thermal Incidents and Responses

**3,700+**Covid-19 Vaccine
Priority Flights





## We are responsible for...



We establish policies, processes, and procedures to resolve safety deficiencies and noncompliance.

We implement FAA safety management systems and safety risk management initiatives through activities and work in partnership with other groups across the FAA to ensure safety in the transportation of dangerous goods.

We have oversight responsibilities over dangerous goods transportation safety matters, including the processes used to ensure appropriate certification and oversight of certificate holders.





## **Speaking of Safety Management Systems...**

## **Safety Management System**



### **01** Safety Policy

- Management commitment and responsibility
- Safety accountability of managers
- Appointment of key safety personnel
- Coordination of the Emergency Response
- System Documentation

#### **02** Safety Risk Management

- Hazard identification processes
- Risk assessment and mitigation processes
- Internal Safety investigations

#### **03** Safety Assurance

- Safety performance monitoring and measurement
- The management of change
- Continuous improvement of the safety system

#### **04** Safety Promotion

- Training and education
- Safety Communication
- Just Culture





## The SMS Evaluation

- Systematic approach to safety
- Enhances safety attitudes in the organization
- Integrated into existing business structures
- Positive safety culture at all levels
- Built on trust between employees and leadership









Ensuring entities that transport dangerous goods by air are in regulatory compliance and are meeting appropriate safety standards is a primary responsibility of:

## **Hazardous & Principal Hazardous Materials Safety Inspectors**

#### The Rundown:

Also known as the HM ASI and PHI, respectively.

Inspectors have federal special agent credentials.

They do not have jump seat / en route privileges.

There are inspectors located across the U.S.

#### General duties:

- Risk-based FAA certificated entity inspections (121, 129, 133/135, 145).
- Risk-based non-certificated entity inspections (e.g., ground handling contractors, freight forwarders, shippers, passengers). Note: both shippers and passengers introduce dangerous goods into the transportation system.
- Responding to all incidents involving dangerous goods by air





**Hazardous Materials Safety Inspectors** (*HM ASI*) inspect, investigate, and conduct enforcement actions. Their duties focus on any entity\* that offers, accepts, or engages in **dangerous goods transportation via air**.

## Their work involves:



Investigating all non-compliance with the safe transportation of dangerous goods per 49 CFR Parts 100-185



Overseeing certificated air carriers and repair stations.



Collecting data and annotating observations when conducting safety oversight hazardous materials safety inspections.



Conducting incident investigations.



Stakeholder engagement and increasing passenger awareness.





The role of the **Principal Hazardous Materials Inspector** is also focused on the transportation of dangerous goods by air. They **center on** addressing risk, directly with **aircraft certificate holders** and provide:









**Centralized assessment planning** to ensure the effective use of limited resources and decrease duplicative efforts

**Data collection** that is scoped to specific system design and performance attributes.

**Unified analysis** for all supporting data on system operations.

**Consistency** in order to reach desired outcomes





## The Principal Hazardous Materials Inspector's day-to-day duties involve:

**Certificate Holder System Evaluation** 

Identification of gaps, hazards and risks

Ensure systems meet regulatory requirements

Ensure systems incorporate the 4 SMS components and 7 safety attributes

Engage in continuous system reviews

Certificate Holder Manual Reviews

Dangerous goods manual review, recommendations, and approvals

Review of manuals that interface with dangerous goods manuals

Certificate Holder Training Reviews

Dangerous good training course curriculum approval

Creating and updating policy procedures and training curriculum

**Serving As Subject** 

**Matter Experts** 

Participating in external program policy

**Record Development** 

Documenting closed actions

Issuing correspondence:
Compliance Action Letters
Hazard Letters
Safety Assurance Letters

Documenting actions through the Action Item Tracking Tool





Office of Hazardous Materials Safety Atilla Akgün (acting) Executive Director



Office of Hazardous Materials Safety

Deputy



Oversight Operations

Deputy Director



Special Air Operations
Division



Air Carrier Interface Systems Division



Air Carrier Safety
Assurance Division

#### **First Last**

PRINCIPAL HAZARDOUS MATERIALS SAFETY INSPECTOR

#### You Can Reach Me at:

Email Phone

#### **Assigned Certificate Holders:**

JetBlue Airlines (YENA)
Spirit Airlines (GTIA)
Sierra Pacific (SPAA)
Seaborne Virgin Island, Inc (S9BA)
Gulf & Caribbean Cargo (VGCA)
Caribbean Sun Airline (2WAA)





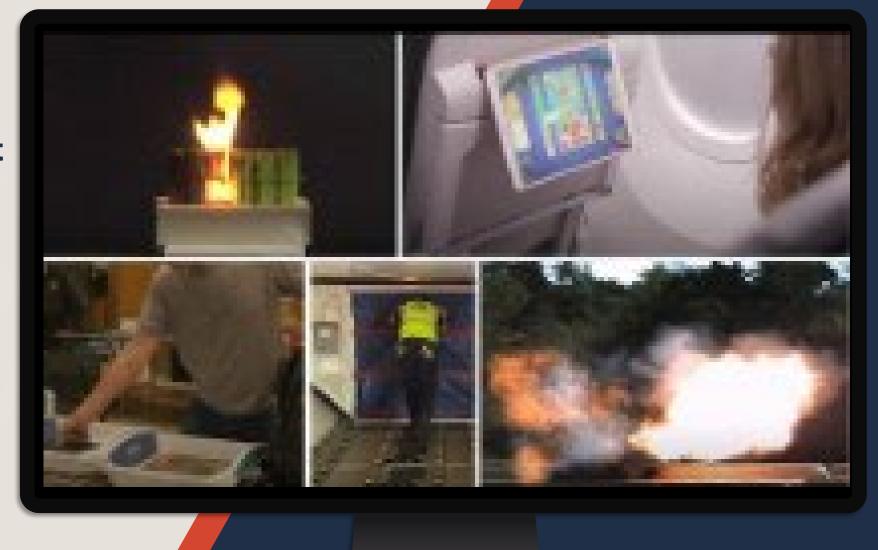


## Let's Pause for a Short Video on One of the More Notable Risks:

**Lithium Batteries** 



For More on Lithium Battery Incidents Scan







## It's important to recognize that risks are present

ACROSS THE SUPPLY CHAIN













Logistics & Planning

Offering & Shipping

Warehouse & Fulfillment Transport\*

Repair & Operations

When you identify a hazard in the supply chain, engage the entities involved to determine and define an appropriate risk control strategy...



## Undeclared Dangerous Goods are a significant concern.

An "undeclared" dangerous good is any shipment where dangerous goods are not identified in other words, there is no visible indication that the package contains dangerous goods. Annually, around 1,500 undeclared shipments are identified and reported to DOT. The total number of undeclared shipments entering air commerce is unknown.

### The most frequently undeclared dangerous goods are common products:











Aerosols

Lithium Batteries

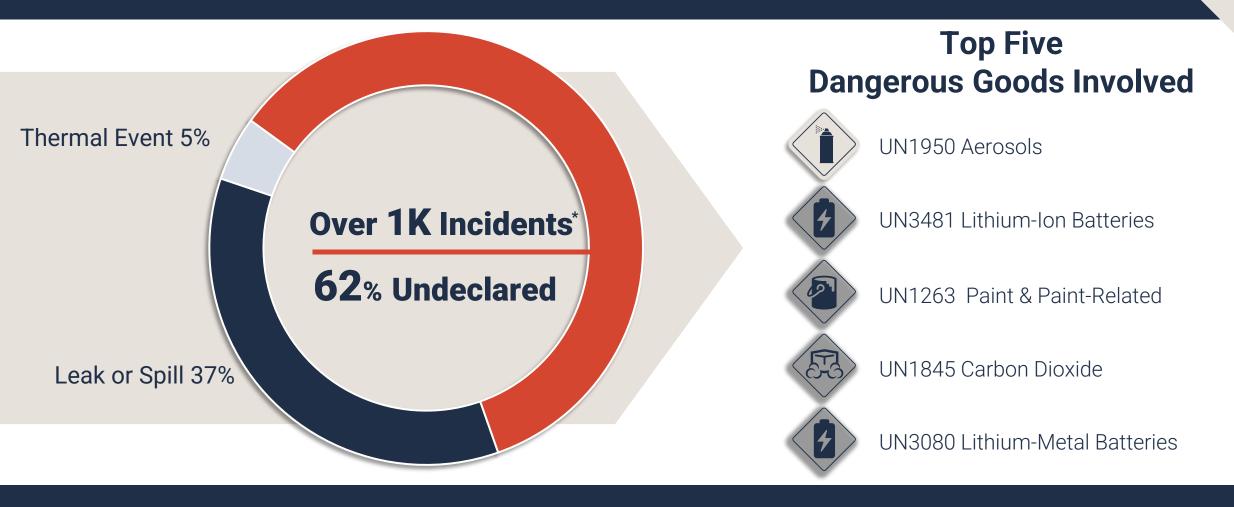
Dry Ice

Flammable Liquid





### A snapshot of other regulated entity undeclared incidents over the last year\*







## We have resources to help you and help reduce risk.



## Our dedicated safety campaign pages have useful resources.





#### **OperateSafe**

Will you carry dangerous goods? Know your responsibilities.



https://www.faa.gov/hazmat/air\_carriers

#### **SafeCargo**

Learn the right way to prepare your dangerous goods for shipment



https://www.faa.gov/hazmat/safecargo

**For Shippers & E-Commerce** 

#### **PackSafe**

Should it go in checked or carry-on baggage? Find out!



https://www.faa.gov/hazmat/packsafe

For Passengers



**For Air Carriers** 



## Here are links to other helpful pages...







Link to fire safety training videos developed by the FAA Technical Center



www.fire.tc.faa.gov/Training/

This page assists operators with identifying risks and hazards related to cargo



www.fire.tc.faa.gov/CargoSafety

Link to a range of lithium battery resources



www.faa.gov/hazmat/resources/lithium\_batteries





