

Unit Load Devices (ULD)

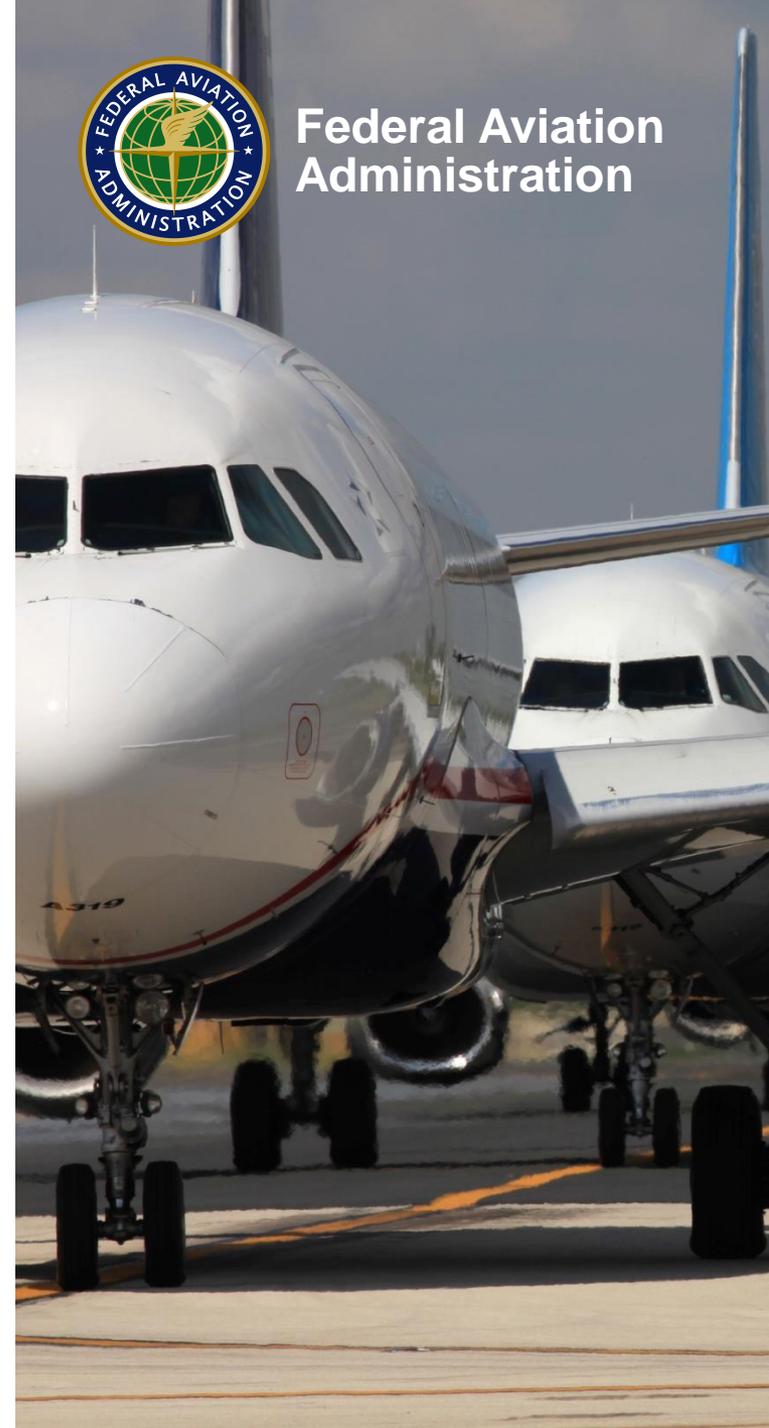
Presented to: IGHC Ground Handling Conference
Members and ULD CARE Conference Members

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Federal Aviation
Administration



FAA Looks at Unit Load Devices

Objectives:

- **Look at the Past, Present and Future**
- **FAA Guidance**
- **Training**



THE PAST

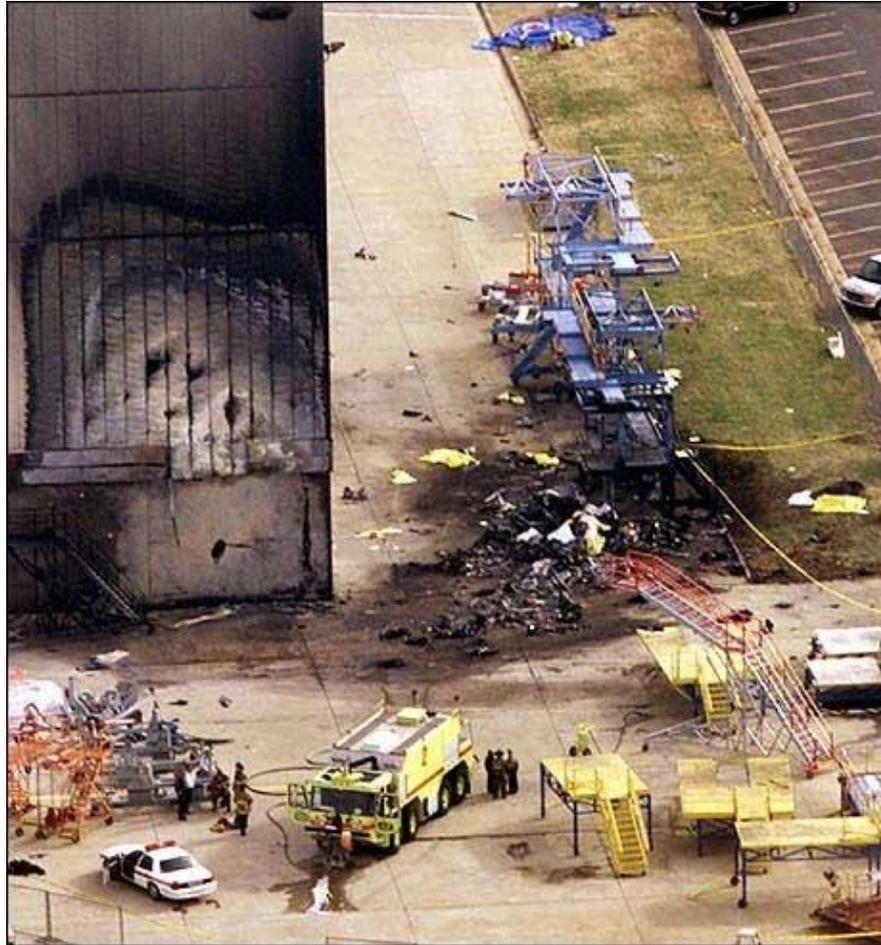


Fine Air

Miami, FL 1997



US Air Express Charlotte, NC 2003



UPS

Dubai 2010



Federal Aviation
Administration

Cargo Accidents

- **Fine Air – Part 121 supplemental air carrier; (cargo)**
- **US Air Express – Part 121 scheduled passenger flight; (passengers and cargo)**
- **UPS- Part 121 supplemental, domestic and flag air carrier; (cargo)**



FAA Response

- **Development of Advisory Circular (AC) 120-85, Air Cargo Operations**
- **Safety Alert for Operators (SAFO) 10017. Risks in Transporting Lithium Batteries in Cargo by Aircraft**
- **FAA Order 8900.1, Flight Standards Information Management System (FSIMS)**



THE PRESENT



Expansion of Cargo Carriers



Loading



Who is Handling Cargo?

- **Part 121 & 135 passenger carriers carry more cargo**
- **Major cargo carriers contract with other operators for pilots & aircraft**
- **Cargo transported:**
 - By all type operators (Part 91, 121, 125, 135)
 - In various aircraft sizes & configurations



FIRST FLIGHT!



- **What was in the cargo compartment of his first flight?**
- **Was it HAZMAT?**
- **Was it properly manifested?**
- **Was it properly secured?**
- **Was a loved one of yours on this flight?**



THE FUTURE



Cargo in Space



FAA Guidance and Regulations



MyFAA



Title 14 Code of Federal Regulations

- **Part 43- MAINTENANCE, PREVENTIVE MAINTENANCE, REBUILDING, AND ALTERATION**
 - §43.13 Performance rules (general)
 - §43.13(b)
- **Part 45- IDENTIFICATION AND REGISTRATION MARKING**
 - §45.15(b) TSO articles



FAA Guidance

- **AC 120-85, Air Cargo Operations**
- **AC 120-27E, Aircraft Weight and Balance Control**
- **TSO-C90d, Cargo Pallets, Nets and Containers (Unit Load Devices)**
- **TSO-C172, Cargo Restraint Strap Assemblies**
- **Order 8900.1, Vol. 3, Ch. 47 & 48**



Resources for Information

- **Flight Standards Information Management System (FSIMS):**
 - <http://fsims.faa.gov>
 - www.MYFAA.GOV
- **Operator manual system:**
 - Operations specification (OpSpecs)
 - Management specification (MSpecs)
 - Approved Weight and Balance Program



Training for the Future



Operators and Cargo Handlers

- **Should facilitate cultural changes in their organizations**
- **Know that ULD's are considered part of the aircraft and must be maintained to highest degree of airworthiness**
- **Promote basic principles of safe ULD build up**



Cargo management:

- **Aircraft are properly loaded within weight and balance / CG limits**
- **Aircraft & cargo restraint components are properly maintained**
- **All cargo personnel are adequately trained**



Air Cargo Operations Course

- **FAA Academy offers the following course which is opened to industry**
- **Air Cargo Operations Course 21000056**
- **Contact the FAA Academy at:**
www.MYFAA.GOV
 - Under Learning & Development, for course offerings



Summary

- **We discussed the past, present and the future of cargo**
- **Reviewed Federal Regulations**
- **The need of training for operators and ground handlers**
- **The culture change required for cargo safety**

