

# IULDUG

## 24TH ANNUAL GENERAL MEETING MIAMI, FLORIDA, USA

Presented to: IULDUG

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Federal Aviation  
Administration



# Airworthiness Directives



# Airworthiness Directives

## Background

- In March 2008, the FAA initiated an AD audit.
  - Indicated a 98% compliance rate.
  - Identified a compliance issue with a particular AD (2006-15-15).
  - Resulted in flight cancellations for a large portion of one air carrier's fleet.
- The FAA established an AD Compliance Review Team (CRT) to review events that caused a disruption to some airline schedules.

# Airworthiness Directives

**ARC Sponsor**  
**AVS-1 (Peggy Gilligan)**

**ARC Committee – 12 Total**

**ARC Co-chairs are Terry McVenes (Boeing) and Ali Bahrami (FAA)**

**With representation from:**

**AIR, AFS, ATA, RAA, ARSA, Boeing, Airbus, Bombardier, Embraer, Alaska Airlines  
Delta Airlines, American Airlines**

**Service Information  
Working Group**

**AD Implementation  
Working Group**

**AD Development  
Working Group**

**FAA Organization/  
Procedures  
Working Group**

# Airworthiness Directives

## AC 39-9, Airworthiness Directives Management Process (Issued in June 2011)

- Recommended procedures for operators to develop an AD Management Process including best practices for operator AD compliance planning; and,
- Recommendations for involvement of Aviation Safety Inspectors in the operators' processes and AD prototyping.

# Airworthiness Directives

## **ATA Specification 111 (Spec111), Airworthiness Concern Coordination Process (also known as Lead Airline Process) (Issued in August 2011)**

- Revised process to better reflect current industry practices and to include metrics to determine effectiveness of the process and support future process improvement as necessary

# Airworthiness Directives

- **FAA Order 8900.1:**
  - **“NEW”** AEG Roles/Responsibilities
  - **“NEW”** AD Management
  - **“NEW”** AEG outreach to AFS field offices in support of AD implementation
  - **“NEW”** ASI Decision Making
  - **“NEW”** AMOCs (roles/responsibilities & 24/7 interface)



# Airworthiness Directives

## Order 8110.37E Designated Engineering Representative (DER) Handbook (Issued June 2011)

- Expand AMOC delegation to allow two additional types of structural single airplane AMOCs to design approval holder designees



# Airworthiness Delegation

## Order 8100.Field Approval Delegation Handbook FADH (proposed)

Establishes policy and procedures for the selection, appointment, orientation, training, oversight, renewal, and termination of Flight Standards Designated Airworthiness Representatives (DAR-T) authorized to issue data approval in support of a major repair or major alteration and establishes function code 51 for those DARs issuing data approvals.

# Fire Containment Covers (FCC)



# Fire Containment Covers

## FAA Status

- Monitoring related activity in the industry
- Drafting an SAE Task Request to develop a standard for FCCs



# **TSO C90d**

## **Cargo Pallets, Nets and Containers (Unit Load Devices)**



# TSO C90d

## TSO C90d Scheduled for Release by September 30, 2011

- Revision driven by incorporation of SAE AS 36100 Rev. A, Air Cargo Unit Load Devices – Performance Requirements and Test Parameters
- AS 36100 Rev. A affects Type 2 ULDs

# TSO C90d

## Other Noteworthy Changes

- AS AIR 1490B Environmental Degradation of Test Standards to be used for evaluation of performance degradation of materials
- SAE AS 36102 Air Cargo Unit Load Devices – Testing Methods to be used to establish testing methods
- Marking
  - Manufacturer's serial number
  - Nominal weight
  - Expiration date
  - Deviation

# TSO C90 ULDs

## ULDs with Self-Contained Temperature Control

- **Must meet TSO-C90**
- **Must meet requirements of FAA Order 8150.4**
  - Includes things such as: (see Order for complete list)
    - Functional Hazard Assessment
    - Failure Mode and Effects Analysis
    - System Safety Assessment
- **LODA Applicants**
  - Must have a bilateral with provisions for:
    - TSO Approvals
    - Non-TSO function acceptance
- **Operational approval required by certificate management office**

# Temperature-Controlled Shipping Containers





# Temperature-Controlled Shipping Containers

- **Temperature-controlled shipping containers are devices designed to maintain their contents within strict temperature controls. These devices may bear a STC, Parts Manufacturer Approval (PMA), or be allowed by the TC.**



# Temperature-Controlled Shipping Containers

- **Production under PMA**
- **Design approval using 14 CFR Part 21.8d (previously 14 CFR Part 21.305d)**
- **Must meet the requirements in Order 8150.4**
- **Operational approval required by certificate management office**

# Temperature-Controlled Shipping Containers

- **Required markings, placards, and labeling, including**
- **Instructions for Continued Airworthiness (ICA)**
- **Operating Instructions**
- **Training Requirements**

# Temperature-Controlled Shipping Containers

## TSO Activity

- FAA has submitted an SAE Task Request to SAE to develop a standard for temperature-controlled shipping containers
- FAA will develop a TSO using the SAE standard

# Advisory Circular 120-85



# Advisory Circular 120-85

## Purpose

- Provides air carriers with recommended procedures for managing air carrier cargo operations.
- It provides recommendations about what items should be included in an air carrier cargo operations system



# Advisory Circular 120-85

## Areas of Concern

- Substituting PMA Products
- Owner Produced Parts.
- Minimum Equipment List (MEL).

# Substituting PMA Products

**An air carrier may substitute airplane cargo handling system components manufactured under a PMA.**

- a.** Component maintenance manual (CMM);
- b.** Manufacturer's illustrated parts catalog;
- c.** Air carrier instructions based on approved data from the FAA, the airplane manufacturer, or STC holder; and
- d.** Manufacturer's SBs or service letters.



# Owner Produced Parts

**Part 21 permits an owner to manufacture parts for use on its own airplane.**

- a. Identify in its maintenance program components manufactured for the airplane cargo handling system.
- b. Ensure the parts it manufactures are not sold or distributed for use by another air carrier or vendor.
- c. Show its owner-produced parts meet the equipment manufacturer cargo handling system type design.
- d. Maintain the continued airworthiness of the owner-produced part

# Minimum Equipment List (MEL)

## Dispatch Deviation Procedures.

- a. Total number of items installed and minimum number required for dispatch;
- b. Loading limitations because of missing or defective equipment;
- c. References showing where loading restrictions are found;
- d. The appropriate category for repair; and
- e. Instructions for ensuring MEL limitations are included in weight and balance computations and the load plan.

# Minimum Equipment List (MEL)

## Procedures for Inoperative or Missing Cargo Handling System Components.

- a. Reconfiguration of the airplane, if necessary;
- b. Voiding of adjacent positions, if necessary;
- c. Accounting for limitations;
- d. Notification to flight crewmembers of the missing components; and
- e. Instructions for ensuring MEL limitations and/or restrictions are included in weight and balance computations and the load plan.

# Air Cargo Training



# Air Cargo Training

## Air Cargo Operations Course Number 21000056

- Number of Offerings since the start of the new course in May 2010 - 19
- Number of students attended so far - 405

# Air Cargo Training

The course is opened up for industry attendance beginning October, 2011.

<https://av-info.faa.gov/DsgReg/Sections.aspx?OrgID=4>

