U.S. Department of Transportation Federal Aviation Administration

### FLIGHT STANDARDS SERVICE AND AIRCRAFT CERTIFICATION SERVICE

#### CARGO STRATEGIC ACTION PLAN



#### Presented by:

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# Air Cargo Implementation Plan (ACIP) - Objectives

- FAA and Industry Working Together to Ensure the Safety of the Fleet and the Traveling Public
- Address NTSB Safety Recommendations
- Issue Precise FAA Policy and Guidance from Headquarters to Standardize FAA's Approach to Air Cargo

## Scope of ACIP

 Air Cargo Operations Affecting All Segments of Industry

• FAA Surveillance

Certification

- FOUR CATEGORIES
  - MAINTENANCE
  - OPERATIONS
  - FAA OVERSIGHT
  - CERTIFICATION

#### MAINTENANCE

- SUBSTITUTION OF LOAD BEARING DEVICES IN RESTRAINT SYSTEMS
- MAINTENANCE PROGRAMS FOR RESTRAINTS AND CARGO HANDLING SYSTEMS
- LOAD/UNLOAD PROCEDURES AND WEIGHT AND BALANCE CONTROL
- TRAINING
- OPERATIONS
  - ALL OPERATIONS ISSUES TRANSFERRED TO MAINTENANCE



• Industry/FAA Advisory Circular

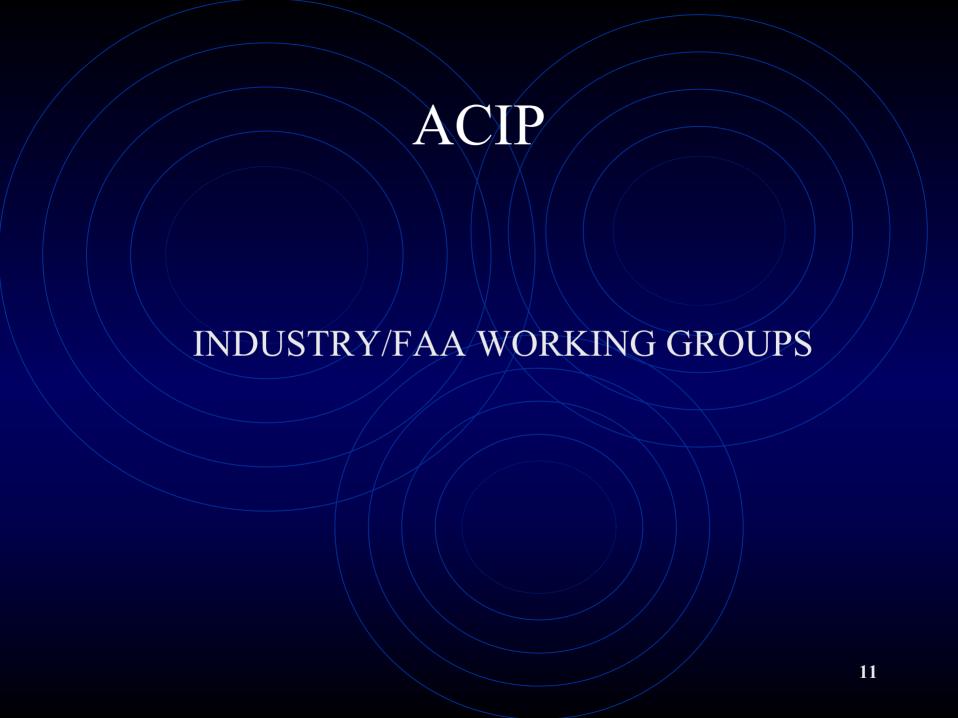
Collaborative Effort

• Level Playing Field

Consistent Guidance

- PROPOSED ADVISORY CIRCULAR
  - 120 SERIES
  - ENCOMPASSES ACIP ISSUES
- Advisory Circular Format
  - Part 1
    - Air Cargo Operations
  - Part 2
    - Certification





- Group #1
  - Container/Pallet to Aircraft Compatibility
  - Authorized Repair Facilities
  - Container/Pallet Repairs
  - Return to Service
  - Records
  - Training

- Group #2
  - Weight and Balance
    - Center of Gravity Offset for Aircraft and Container/Pallets
    - Authorized Weight and Balance Personnel
    - Additional Crewmembers and Procedures
    - Training

- Group #3
  - Substitution of Components in Restraint Systems
    - Data Approval Required to Substitute Load Bearing components
    - Procedures in Air Carrier's Manual
    - Data to Support Substitution

- Group #4
  - Load Procedures
  - Cargo Build Up,
  - Cargo Center of Gravity Offset
  - Cargo Profiling
  - Training

- Certification
  - Address ACIP Concerns regarding
    - Aircraft configuration
    - Cargo restraint system
    - Fire protection
    - Weight and balance standardization
    - Instructions for continued airworthiness
    - Cargo Restraint Compatibility with Cargo Handling Systems
    - Cargo conversions lessons learned

# Related Aircraft Certification Safety Initiatives

• Fire suppression/propagation

Cargo Restraint Standards

# Fire Suppression/Propagation Safety Initiatives

- Past initiatives
  - fire resistant cargo compartment liners (1986)
  - "combi" airplane ADs class C compartment fire suppression alternatives (1993)
  - fire detection and suppression for most lower lobe cargo compartments (1998)
  - standards to limit fire propagation for thermal/acoustic insulation (2003)
- Current efforts
  - reduce smoke/fire detection false alarms
  - alternatives to Halon

## Design Standards for ULDs/Straps

- TSO C90c proposed to be revised to reflect new standards for ULDs SAE effort
- New TSO for straps defines minimum performance (based on SAE AS5385) 4<sup>th</sup> Qtr 04