

Recent FAA Activity

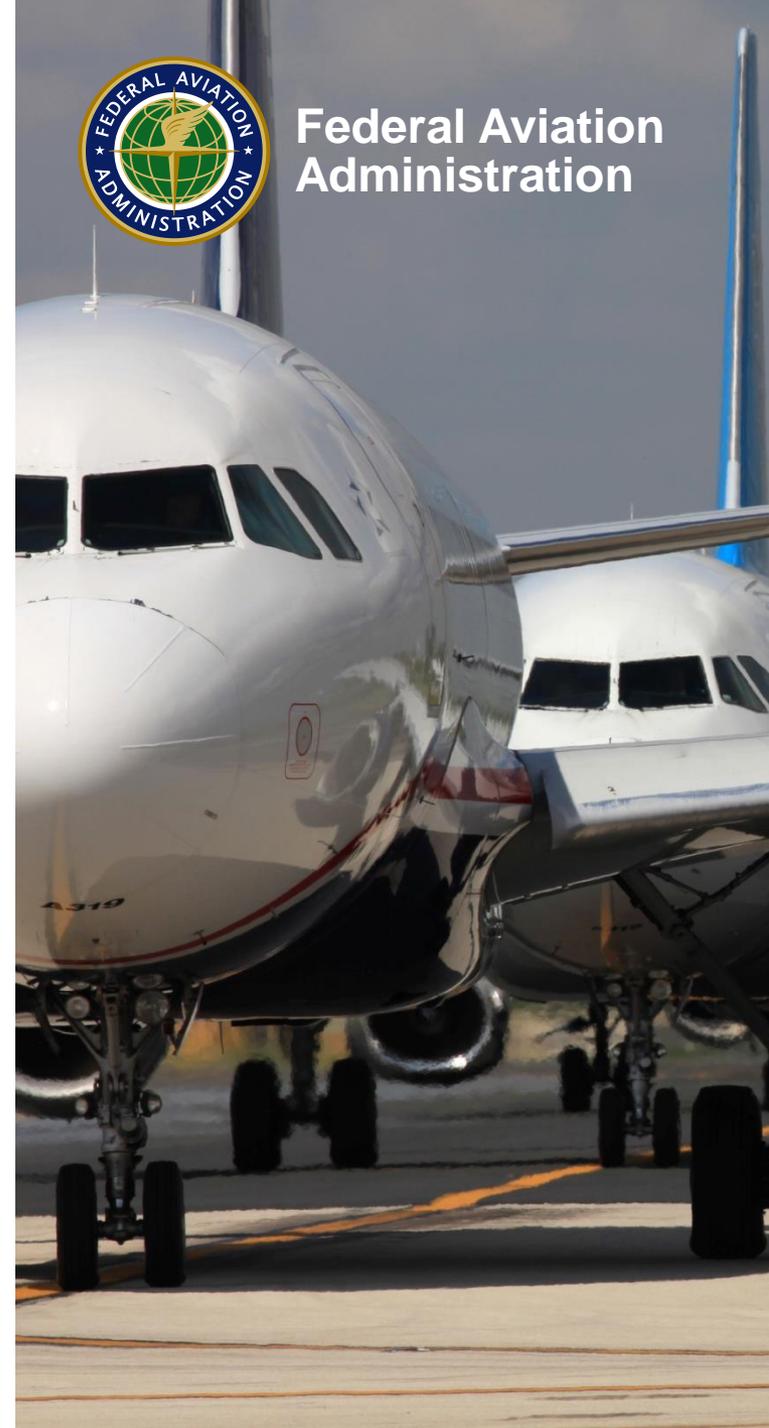
Presented to: TSO Workshop – Cologne

By: Pong Lee and Doug Law – AIR-111

Date: June 17, 2015



Federal Aviation
Administration

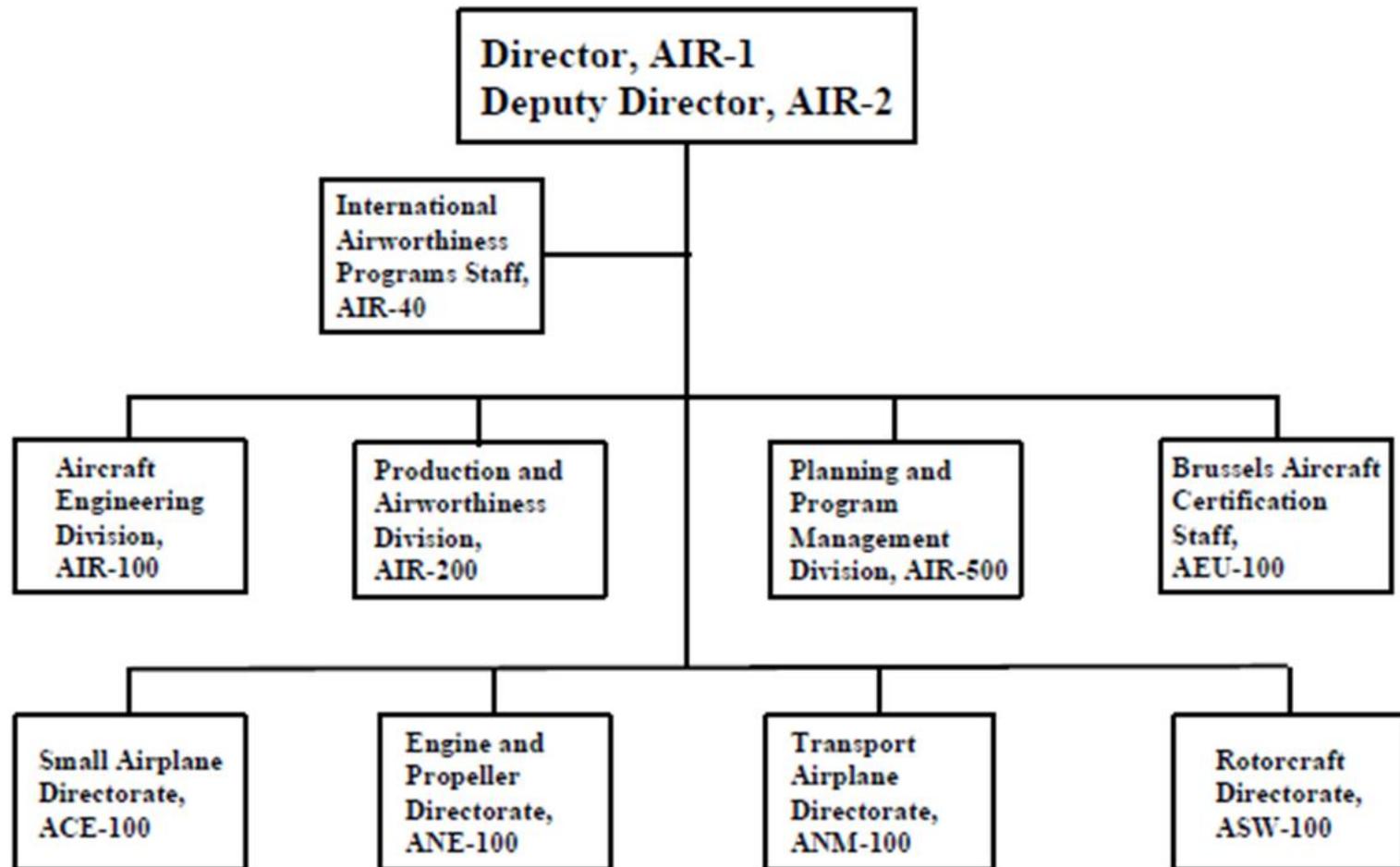


Overview

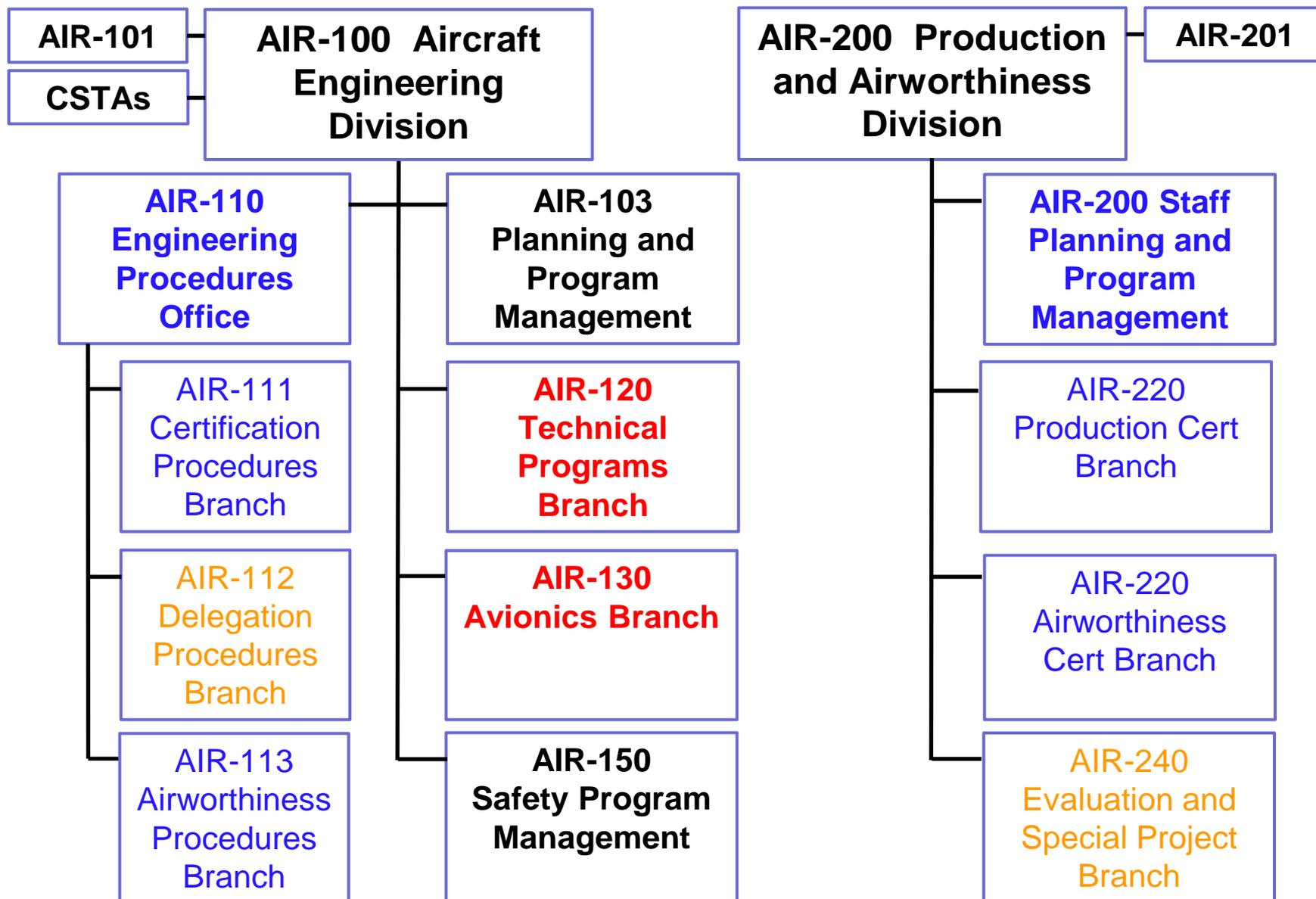
- The old AIR-100 & AIR-200 organizations
- The new AIR-100 Design, Manufacturing & Airworthiness Division



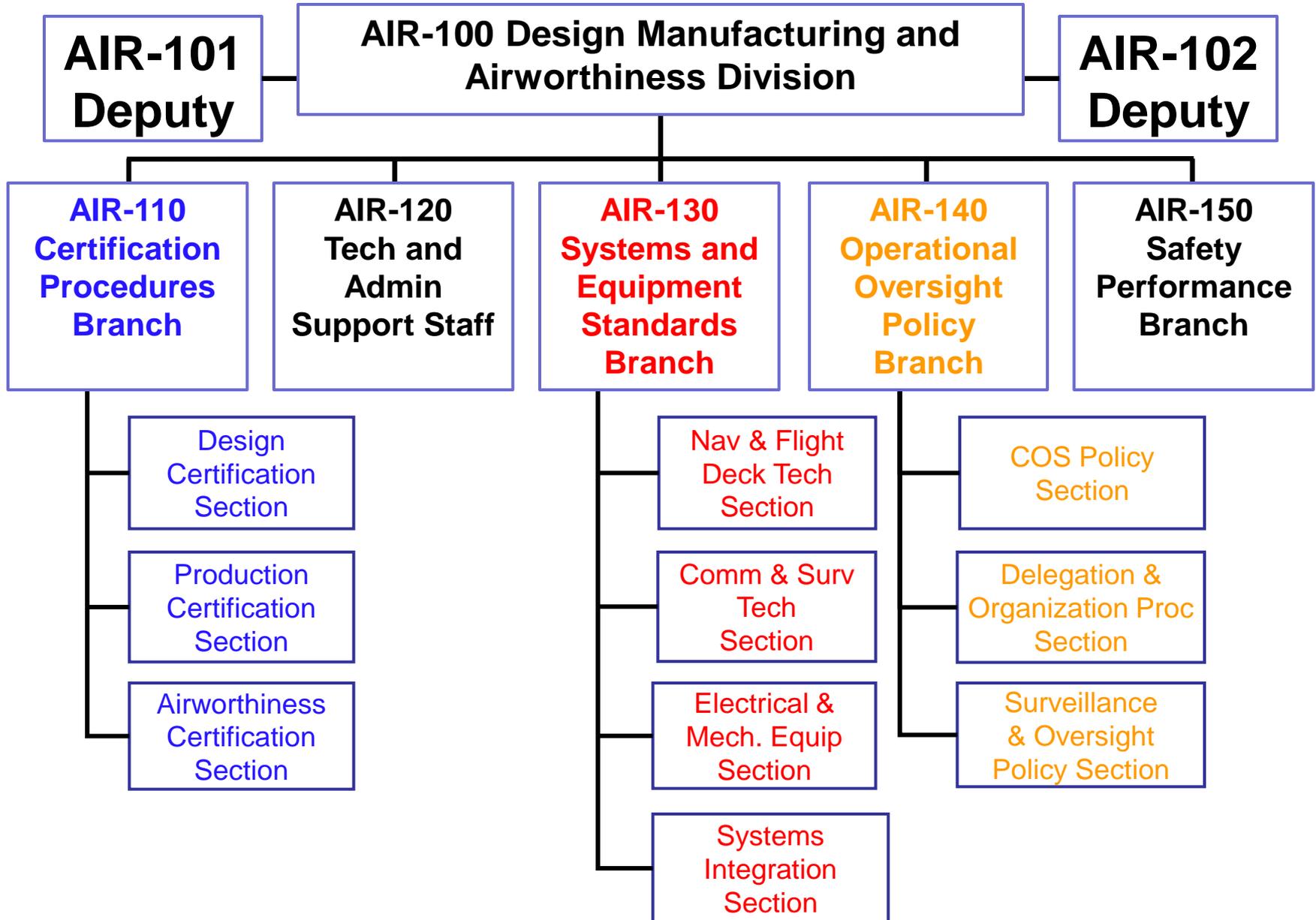
Aircraft Certification Service (Previous State)



OLD AIR-100 / AIR-200 Organizations



New AIR-100 Organization



New AIR-100 Org (Functional Distribution)

AIR-100 Design Manufacturing and Airworthiness Division

AIR-110

- Part 21
- Part 45
- Rulemaking
- TSO Policy
- Restricted
- Certification Basis
- DMO
- Bilateral performance evaluation
- Bilateral development support

AIR-120

- Training
- FOIA
- OIG/GAO
- COOP
- Contracts
- OSH
- Budget
- Planning
- Hiring
- Technical writing
- Records Management
- CSTA program management

AIR-130

- Software & hardware standards
- Develop & maintain Avionics and Non-Avionics TSO standards
- Cybersecurity, HIRF, Human Factors
- Cabin & Cargo Sys standards
- TSO standards
- FDR rules
- NextGen AVS implementation plan
- R&D

AIR-140

- Individual & Org Delegation Systems
- Delegation training
- Interface for ensuring closure of corrective actions
- ODA policy
- Part 183
- ADPO
- Part 39
- Undue Burden Policy
- NTSB & FAA safety rec. mgmt
- AD / SAIB Policy
- RGL
- AVSSIMS

AIR-150

- QMS pgm mgt
- Data analysis & recommend.
- Management support for QMS and SMS goals
- AIR lead for state safety programs (SMS)
- Database Maintainability
- IT system requirements development & implementation support (RAS/RBRT; MSAD; OSP/R; EDPA; ADD)

QUESTIONS?



DRAFT – Order 8150.1D

- Added TSOA transfer policy and proposes to delegate review and approval/denial responsibility to the ACO.
- Changed “geographical ACO” to “appropriate ACO” to align with revised language in 21.603 for TSOA applications.
- Added language for revised TSOs where both the previous version and the new version BOTH remain “effective” for a period of 18 months from new revision effective date.
- Changes language for applying for TSOA from principle manufacturing facility to principle facility that controls the design and quality of the article.
- Added requirement for review of unresolved problem reports (UPRs) for articles containing software.
- Added PSP language and referenced new AC21-TBD



DRAFT – Order 8150.1D - Cont'd

- **Added policy for requesting validations from FAA bilateral partners requiring that the implementation procedures for the applicable bilateral agreement be used.**
- **Removed proof of export requirements for FAA LODA applications.**
- **Changes to TSO Template**
 - Updated for DO-178C or DO-178B if AC 20-115C, Airborne Software Assurance, dated July 19, 2013 is followed.
 - Changed marking requirements to only reference 45.15(b).
 - Added description of your organization required by 14 CFR § 21.605.
 - Added Note under Manufacturer Data Requirements that reads:
 - Note: The following data for LODA applicants may be made available for review through their CAA. Refer to the applicable bilateral agreement for specific details regarding access to this data.



DRAFT – Order 8150.1D - Cont'd

- **Changes to TSO Template – Cont'd**
 - Miscellaneous editorial edits for plain language and clarity.
- **Clarified deviations delegated to ACO language.**



DRAFT – New AC21-TBD

- **New AC for applicant design organization capability**
- **Optional program – Applicant needs to request it**
- **Used in conjunction with a PSP with the FAA**
 - Additional information regarding design organization details listed in AC
- **Intended to help the FAA understand and have confidence in applicant/holders design capability**
- **Allows applicant/holder and FAA to develop defined responsibilities for both parties. This may allow the FAA to rely on the statement of conformity for TSOA applications instead of reviewing application data.**
- **Both applicant/holders and FAA benefit by reducing resources to evaluate TSOA applications and streamline TSOA application processing times.**



Recently Revised TSOs By Revision Date – Non-Avionics

- **TSO-C203 - Fire Containment Covers (FCC) - 7/1/2014**
- **TSO-C70b - Life Rafts - 8/4/2014**
- **TSO-C1e - Cargo Compartment Fire Detection Ins - 8/19/2014**



Recent Policy Memos

- **PS-AIR-130-02-01 - Special Condition on Installed Rechargeable Lithium batteries and Battery Systems on Aircraft, published on 5/20/15**



TSO New Revisions by Target Date

- **TSO-C26e - Aircraft Wheels and Wheel and Brake - 09/30/15**
- **TSO-C135a - Transport Airplane Wheel and Brakes - 09/30/15**
- **TSO-C90e - Cargo Pallets, Nets and Containers - 9/30/16**
- **TSO-C202 - Cargo Stoppers - 09/30/15**
- **TSO-C10c - Altimeter, Pressure Sensitive Type - 10/30/15**
- **TSO-C20 - Aircraft Combustion Heater - 12/31/15**
- **TSO-CXXX - Temp Controlled Shipping Containers - 12/31/15**
- **TSO-C172a - Cargo Restraint Strap Assemblies - 12/31/15**
- **TSO-CXXX - Fire Resistant Containers - 09/30/16**
- **TSO-C13g - Life Preservers - 09/30/16**
- **TSO-C75a - Aircraft Fuel, Hyd, and Oil Hose Assembly - 09/30/16**
- **TSO-C43d - Temperature Instruments - 09/30/16**



TSO New Revisions by Target Date

- **TSO-C 44d - Fuel Flowmeters - 09/30/16**
- **TSO-C96b - Anticollision Light System - 09/30/16**
- **TSO-CXXX - AC to AC Power Converter - 12/31/16**
- **TSO-C127c - Aircraft Seats - 09/30/17**
- **TSO-CXXX - Helicopter Hoist - 09/30/17**



Future ACs, Orders and PMs by Target Date

- **AC 20-184 - Guidance on Testing and Installation of Rechargeable Lithium Battery and Battery Systems on Aircraft – 8/30/15**
- **PS-AIR-21-601-01 - Clarification for Non-TSO Functions in Seats - 10/30/15**
- **AC 21-25b - Approval of Modified Seating Systems Initially Approved under a TSO – FY16**
- **AC 20-135a, Powerplant Fire Protection Test Methods. Planned to publish in FY-17**
- **AC 20-147b, Turbojet, Turbofan, Turboshift, and Turboprop Engine Induction System Icing and Ice Ingestion depending on various rules change, i.e., 33.68. 33.77 25.1093 23.1093 27.1093 29.1093 - FY-18**
- **Order 8150.4a - Active Unit Load Devices (AULDs) - FY-17**



Requesting a new standard (TSO)

- **Anyone can request that the FAA create a new standard**
- **Requests may come from or through appropriate ACO**
 - Requests will be considered based on need for the standard and available resources.
- **Requests may be sent directly to AIR-100**
 - Email requests may be sent to TSO-Questions@faa.gov



QUESTIONS?



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