Fact Sheet

SAE Technical Committee S-7
Flight Deck & Handling Qualities
Standards for Transport Aircraft

Chairperson: Richard Shay, United Airlines Inc.
Vice Chairperson: John Morgan, Honeywell Int’l Inc.

The SAE S-7 Flight Deck & Handling Qualities Standards for Transport Aircraft committee addresses flight deck man-machine interface design and operation as well as aircraft handling qualities, with the objective of improving operational efficiencies and safety. Issues focused on by the committee include:

- Flight deck layout and facilities
- External vision from the flight deck
- Flight deck panels, controls, displays and abbreviations
- Operational functions and characteristics of equipment controlled from the flight deck
- Transport aircraft handling qualities

The group is dedicated to creating, preparing, and maintaining all relevant specifications, standards, and requirements pertaining to aircraft handling qualities and the flight deck. To enhance the safety and efficiency of the man/machine interfaces on the flight deck, the committee makes recommendations for current and future flight deck implementations.

Participants in the SAE S-7 committee include aircraft pilots, OEMs, suppliers, processors, consulting firms, government, and others across the global aerospace and defense industries.

Standards development/revision activities

- ARP4103A-Flight Deck Lighting for Commercial Transport Aircraft
- ARP5366A-Autopilot, Flight Director, and Autothrust Systems
- ARP4101/4A-Flight Deck Environment
- ARP4102/7_APXD-appendix C Electronic Display Symbology for Engine Displays
- ARP4101/5A-Aircraft Circuit Breaker and Fuse Arrangement
- ARP4101/2A-Pilot Visibility From the Flight Deck
- ARP4102/14C-Full-Format Printer
- AS8044A-Takeoff Performance Monitor (TOPM) System, Airplane, Minimum Performance Standard For
- ARP4102/10B-Collision Avoidance System
- ARP4102/4A-Flight Deck Alerting System (Fas)
- ARP4102A-Flight Deck Panels, Controls, and Displays
- ARP4102/7C-Electronic Display Symbology for Engine Displays Appendix C

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• ARP4102/7B-Electronic Display Symbology for EHSI/ND Appendix B
• ARP4102/7A-Electronic Display Symbology Pfd
• ARP4104A-Design Objectives for Handling Qualities of Transport Aircraft
• ARP5499-Graphical User Interfaces (GUI) for Air Transport Flight Deck Application
• ARP4104A/4-Stability Augmentation
• ARP4104A/3-Failure Modes Of Powered And Boosted Primary Light Controls
• ARP4104/2-Lateral-Directional Axes

Recently published documents

• ARP5628 Final Approach Spacing Systems (FASS)
• ARP4102/11C Airborne Windshear Systems
• ARP4102/9A Flight Management System (Fms)
• ARP5366 Autopilot, Flight Director, and Autothrust Systems