

Airplane Certification Basis & Post-Cert Revised Criteria

AIRPLANE CERTIFICATION BASIS

Model SR22T: 14 CFR Part 23 of the Federal Aviation Regulations effective February 1, 1965, as amended by 23-1 thru 23-59, except as follows:

14 CFR 23.301 thru Amendment 23-42

14 CFR Part 36 dated December 1, 1969, as amended by 36-1 thru 36-28

For aircraft equipped with Special Missions provisions (ref. AFM supplement 13772-157), the certification basis, for installation specific items only, is amended to include the following regulation at the amendment level stated:

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A00009CH

14 CFR Part 36 thru Amendment 36-30.

For aircraft equipped with Garmin G1000 NXi avionics or Garmin G1000 NXi avionics with the Garmin GFC-700 autopilot system, the certification basis, for installation specific items only, is amended to include the following regulation at the amendment level stated: (Effective S/N 1473 and subsequent),

14 CFR 23.1308 thru Amendment 23-57.

14 CFR 23.1306 thru Amendment 23-61.

AS-CERTIFICATED BASIS (CONTROL SYSTEM)



Federal Aviation
Administration

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Code of Federal Regulations

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▼ Sec. 23.671

Part 23 AIRWORTHINESS STANDARDS: NORMAL, UTILITY, ACROBATIC, AND COMMUTER CATEGORY AIRPLANES	
Subpart D--Design and Construction	Control Systems

Sec. 23.671

General.

- (a) Each control must operate easily, smoothly, and positively enough to allow proper performance of its functions.
- (b) Controls must be arranged and identified to provide for convenience in operation and to prevent the possibility of confusion and subsequent inadvertent operation.

► Comments

▼ Document History

Notice of Proposed Rulemaking Actions:

Notice of Proposed Rulemaking. Notice No. [64-17](#); Issued on 03/25/64.

Final Rule Actions:

Final Rule. Docket No. [4080](#); Issued on 09/28/64.

DECEMBER 2016 NPRM FINAL RULE



96572 Federal Register / Vol. 81, No. 251 / Friday, December 30, 2016 / Rules and Regulations

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Parts 21, 23, 35, 43, 91, 121, and 135

[Docket No.: FAA-2015-1621; Amdt. Nos. 21-100, 23-64, 35-10, 43-49, 91-346, 121-378, and 135-136]

RIN 2120-AK65

Revision of Airworthiness Standards for Normal, Utility, Acrobatic, and Commuter Category Airplanes

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Final rule.

SUMMARY: The FAA amends its airworthiness standards for normal, utility, acrobatic, and commuter category airplanes by replacing current prescriptive design requirements with performance-based airworthiness standards. These standards also replace

changes to the following sections: 23.1457, Cockpit Voice Recorders, 23.1459, Flight Data Recorders, and 23.1529, Instructions for Continued Airworthiness. Sections 23.1459 and 23.1529 were changed to align the cross references with the rest of part 23. The three sections otherwise remain unchanged relative to the former regulations.

Authority for This Rulemaking

The FAA's authority to issue rules on aviation safety is found in Title 49 of the United States Code. Subtitle I, Section 106 describes the authority of the FAA Administrator. Subtitle VII, Aviation Programs, describes in more detail the scope of the agency's authority.

This rulemaking is promulgated under the authority described in Subtitle VII, Part A, Subpart III, Section 44701. Under that section, the FAA is charged with promoting safe flight of civil airplanes in air commerce by prescribing minimum standards

5. Subpart D—Design and Construction
6. Subpart E—Powerplant
7. Subpart F—Equipment
8. Subpart G—Flightcrew Interface and Other Information
- E. Miscellaneous Amendments (§§ 21.9, 21.17, 21.24, 21.35, 21.50, 21.101, Appendix E to Part 43, and 91.323)
1. Production of Replacement and Modification Articles (§ 21.9)
2. Designation of Applicable Regulations (§ 21.17)
3. Issuance of Type Certificate: Primary Category Aircraft (§ 21.24)
4. Flight Tests (§ 21.35)
5. Instructions for Continued Airworthiness and Manufacturer's Maintenance Manuals Having Airworthiness Limitations Sections (§ 21.50)
6. Designation of Applicable Regulations (§ 21.101)
7. Special Federal Regulations 23 (SFAR No. 23)
8. Altimeter System Test and Inspection (Appendix E to Part 43)
9. Increased Maximum Certification Weights for Certain Airplanes Operated in Alaska (§ 91.323)

DECEMBER 2016 FINAL RULE APPLICABILITY & NPRM CROSS-REFERENCE

[4910-13]

DEPARTMENT OF TRANSPORTATION

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NPRM	Title	Final rule
Subpart G—Flightcrew Interface and Other Information		
§ 23.1500	Flightcrew interface	§ 23.2600.

CERTIFICATION STANDARD & NPRM FINAL RULE CROSS-REFERENCE

CERT STANDARD	CERT STANDARD TITLE	FINAL RULE	FINAL RULE TITLE
23.671	Control systems—General		
(a)		23.2300(a) (1) & 23.2600(a)	Flight control systems & Flightcrew interface.
(b)		23.2600, 23.2605	Flightcrew interface, Installation and operation.

FINAL RULE SUBPART

Subpart G—Flightcrew Interface and Other Information

23.2600 Flightcrew interface.
 23.2605 Installation and operation.
 23.2610 Instrument markings, control markings, and placards.
 23.2615 Flight, navigation, and powerplant instruments.
 23.2620 Airplane flight manual.
 APPENDIX A TO PART 23—INSTRUCTIONS FOR CONTINUED AIRWORTHINESS
 AUTHORITY: 49 U.S.C. 106(f), 106(g), 40113, 44701–44702, 44704, Pub. L. 113–53, 127 Stat. 584 (49 U.S.C. 44704) note.
 SOURCE: Doc. No. FAA–2015–1621, Amdt. 23–64, 81 FR 96689, Dec. 30, 2016, unless otherwise noted.

FINAL RULE TEXT

§23.2600 Flightcrew interface.

- (a) The pilot compartment, its equipment, and its arrangement to include pilot view, must allow each pilot to perform his or her duties, including taxi, takeoff, climb, cruise, descent, approach, landing, and perform any maneuvers within the operating envelope of the airplane, without excessive concentration, skill, alertness, or fatigue.
- (b) The applicant must install flight, navigation, surveillance, and powerplant controls and displays so qualified flightcrew can monitor and perform defined tasks associated with the intended functions of systems and equipment. The system and equipment design must minimize flightcrew errors, which could result in additional hazards.