

Federal Aviation Administration, DOT

Pt. 25

(e) Information needed to apply protective treatments to the structure after inspection.

(f) All data relative to structural fasteners such as identification, discard recommendations, and torque values.

(g) A list of special tools needed.

(h) In addition, for level 4 airplanes, the following information must be furnished—

(1) Electrical loads applicable to the various systems;

(2) Methods of balancing control surfaces;

(3) Identification of primary and secondary structures; and

(4) Special repair methods applicable to the airplane.

A23.4 Airworthiness limitations section.

The Instructions for Continued Airworthiness must contain a section titled Airworthiness Limitations that is segregated and clearly distinguishable from the rest of the document. This section must set forth each mandatory replacement time, structural inspection interval, and related structural inspection procedure required for type certification. If the Instructions for Continued Airworthiness consist of multiple documents, the section required by this paragraph must be included in the principal manual. This section must contain a legible statement in a prominent location that reads “The Airworthiness Limitations section is FAA approved and specifies maintenance required under §§ 43.16 and 91.403 of Title 14 of the Code of Federal Regulations unless an alternative program has been FAA approved.”

PART 25—AIRWORTHINESS STANDARDS: TRANSPORT CATEGORY AIRPLANES

SPECIAL FEDERAL AVIATION REGULATION NO. 13

SPECIAL FEDERAL AVIATION REGULATION NO. 109

Subpart A—General

Sec.

25.1 Applicability.

25.2 Special retroactive requirements.

25.3 Special provisions for ETOPS type design approvals.

25.5 Incorporations by reference.

Subpart B—Flight

GENERAL

25.21 Proof of compliance.

25.23 Load distribution limits.

25.25 Weight limits.

25.27 Center of gravity limits.

25.29 Empty weight and corresponding center of gravity.

25.31 Removable ballast.

25.33 Propeller speed and pitch limits.

PERFORMANCE

25.101 General.

25.103 Stall speed.

25.105 Takeoff.

25.107 Takeoff speeds.

25.109 Accelerate-stop distance.

25.111 Takeoff path.

25.113 Takeoff distance and takeoff run.

25.115 Takeoff flight path.

25.117 Climb: general.

25.119 Landing climb: All-engines-operating.

25.121 Climb: One-engine-inoperative.

25.123 En route flight paths.

25.125 Landing.

CONTROLLABILITY AND MANEUVERABILITY

25.143 General.

25.145 Longitudinal control.

25.147 Directional and lateral control.

25.149 Minimum control speed.

TRIM

25.161 Trim.

STABILITY

25.171 General.

25.173 Static longitudinal stability.

25.175 Demonstration of static longitudinal stability.

25.177 Static lateral-directional stability.

25.181 Dynamic stability.

STALLS

25.201 Stall demonstration.

25.203 Stall characteristics.

25.207 Stall warning.

GROUND AND WATER HANDLING CHARACTERISTICS

25.231 Longitudinal stability and control.

25.233 Directional stability and control.

25.235 Taxiing condition.

25.237 Wind velocities.

25.239 Spray characteristics, control, and stability on water.

MISCELLANEOUS FLIGHT REQUIREMENTS

25.251 Vibration and buffeting.

25.253 High-speed characteristics.

25.255 Out-of-trim characteristics.

Subpart C—Structure

GENERAL

25.301 Loads.

25.303 Factor of safety.

25.305 Strength and deformation.

25.307 Proof of structure.

FLIGHT LOADS

25.321 General.