

Federal Aviation Regulation

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Sec. 25.101

Part 25 AIRWORTHINESS STANDARDS: TRANSPORT CATEGORY AIRPLANES	
Subpart B--Flight	Performance: Turbine Engine Powered Airplanes

Sec. 25.101

General.

(a) Unless otherwise prescribed, turbine powered airplanes must meet the applicable performance requirements of this subpart for ambient atmospheric conditions and still air.

(b) The performance, as affected by engine power or thrust, must be based on a relative humidity of--

(1) 80 percent, at and below standard temperatures; and

(2) 34 percent, at and above standard temperatures plus 50° F.

Between these two temperatures, the relative humidity must vary linearly.

(c) The performance must correspond to the propulsive thrust available under the particular ambient atmospheric conditions, the particular flight condition, and the relative humidity specified in paragraph (b) of this section. The available propulsive thrust must correspond to engine power or thrust, not exceeding the approved power or thrust, less--

(1) Installation losses; and

(2) The power or equivalent thrust absorbed by the accessories and services appropriate to the particular ambient atmospheric conditions and the particular flight condition.

(d) Unless otherwise prescribed, the applicant must select the takeoff, en route, approach, and landing configurations for the airplane.

(e) The airplane configurations may vary with weight, altitude, and temperature, to the extent they are compatible with the operating procedures required by paragraph (f) of this section.

(f) Unless otherwise prescribed, in determining the accelerate-stop distances, takeoff flight paths, takeoff distances, and landing distances, changes in the airplane's configuration, speed, power, and thrust, must be made in accordance with procedures established by the applicant for operation in service.

(g) Procedures for the execution of balked landings and missed approaches

associated with the conditions prescribed in Secs. 25.119 and 25.121(d) must be established.

(h) The procedures established under paragraphs (f) and (g) of this section must--

- (1) Be able to be consistently executed in service by crews of average skill;
- (2) Use methods or devices that are safe and reliable; and
- (3) Include allowance for any time delays, in the execution of the procedures, that may reasonably be expected in service.

▶ **Comments**

▼ **Document History**

Notice of Proposed Rulemaking Actions:

Notice of Proposed Rulemaking. Notice No. [64-28](#); Issued on 05/14/64.

Final Rule Actions:

Final Rule. Docket No. [5066](#); Issued on 11/03/64.