

DEPARTMENT OF TRANSPORTATION**Federal Aviation Administration****Proposed Advisory Circular 25.335-1,
Design Dive Speed**

AGENCY: Federal Aviation Administration, DOT.

ACTION: Notice of availability of proposed circular (AC) 25.335-1 and request for comments.

SUMMARY: This notice announces the availability of and requests comments on a proposed advisory circular (AC) which provides a method of compliance with the requirements of § 25.335 of the Federal Aviation Regulations (FAR). Section 25.335 contains the certification requirements for the minimum speed margin between cruise speed and design dive speed for transport category airplanes. This proposed AC complements revisions to the airworthiness standards that are being proposed by a separate notice. This notice is necessary to give all interested persons an opportunity to present their views on the proposed AC.

DATES: Comments must be received on or before November 27, 1995.

ADDRESSES: Send all comments on proposed AC to: Federal Aviation Administration, Attention: James Haynes, Airframe and Propulsion

Branch, ANM-112, Transport Airplane Directorate, Aircraft Certification Service, 1601 Lind Avenue SW., Renton, WA 98055-4056. Comments may be inspected at the above address between 7:30 a.m. and 4:00 p.m. weekdays, except Federal holidays.

FOR FURTHER INFORMATION CONTACT: Jan Thor, Transport Standards Staff, at the address above, telephone (206) 227-2127.

SUPPLEMENTARY INFORMATION:**Comments Invited**

A copy of the draft AC may be obtained by contacting the person named above under **FOR FURTHER INFORMATION CONTACT**. Interested persons are invited to comment on the proposed AC by submitting such written data, views, or arguments as they may desire.

Commenters should identify AC 25.335-1 and submit comments, in duplicate, to the address specified above. All communications received on or before the closing date for comments will be considered by the Transport Standards Staff before issuing the final AC.

Discussion

Section 25.335(b) requires the design dive speed of the airplane to be established so that the design cruise

speed is no greater than 0.8 times the design dive speed or that it be based on an upset criterion initiated at the design cruise speed. At altitudes where the cruise speed is limited by compressibility effects, § 25.335(b)(2) requires the margin to be not less than 0.05 Mach. Furthermore, at any altitude, the margin must be great enough to provide for atmospheric variations (such as horizontal gusts and the penetration of jet streams), instrument errors, and reduction variations. This proposed AC provides a rational method for considering the atmospheric variations. This proposed AC provides guidance material and one means, but not the only means, of complying with the part 25 revisions proposed in Notice No. 95-14 entitled "Revised Structural Loads Requirements for Transport Category Airplanes," published in this same edition of the **Federal Register**. Issuance of AC 25.335-1 is contingent on final adoption of the proposed revisions to part 25.

Issued in Renton, Washington, on July 14, 1995.

James V. Devany,

Acting Manager, Transport Airplane Directorate, Aircraft Certification Service, ANM-100.

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