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CIVIL AERONAUTICS MANUAL 40

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Civil Aeronautics Administration

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Supplement No. 9

October 6, 1952

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SUBJECT: 40.101  
Weather Minimums

40.101-1 Ceiling and Visibility Minimums

The Office of Aviation Safety announces changes to the policy statement on ceiling and visibility minimums issued on December 29, 1950.

This supplement is issued to amend the present material now contained in the criteria for the approval of take-off minimums for twin-engine aircraft under subparagraph (i) of Section 40.101-1(b)(1). This amendment removes the 25-mile limit for take-off minimums of  $200\frac{1}{2}$  and in lieu thereof inserts a time limit of 15 minutes in calm air with one engine inoperative. It also changes the term "time of dispatch" to "time of departure" as in some instances the original dispatch is accomplished much in advance of the actual departure.

The attached new sheet containing the above described amendment should be inserted in lieu of the present page 40.101-1(b)(1)(i) dated May 1, 1952.

*for David L. Posner*  
E. S. Hensley  
Director, Office of  
Aviation Safety

Attachment

Distribution: Air 4, 4a, 11, 14, 40 all tabs,  
40B, 40D, 40-F-1, 40-1

"Miscellaneous Requirements.

"CAR 40.101 Weather minimums. Authorization of ceiling and visibility minimums for purposes of flight clearance and for transition from instrument to visual-contact flights and vice versa will be made by the Administrator and will be based upon the following considerations affecting the clearance and completion of the flight:

"(a) The terrain conditions affecting the flight area necessary for the working out of an approach and let-down-through procedure, or for a climb-up-through procedure; and

"(b) The skill and experience of dispatcher personnel; and

"(c) The skill and experience of pilot personnel; and

"(d) The type and maneuverability of the aircraft; and

"(e) The obstructions to flight, considered both vertically and horizontally, in the vicinity of the landing area; and

"(f) The quality and quantity of meteorological service and of other ground aids to flight available."

40.101-1 CEILING AND VISIBILITY MINIMUMS. (CAA policies which apply to section 40.101.)

(a) GENERAL. The ceiling and visibility minimums authorized by the Administrator for scheduled air carriers will be included in the operations specifications issued to the air carriers. The policies hereinafter set forth will be used by the Civil Aeronautics Administration in authorizing the ceiling and visibility minimums contained in the operations specifications.

(1) MILITARY AIRPORTS. When an air carrier is authorized to use a military airport, the ceiling and visibility minimums approved for take-off and landing at that airport will not be less than those agreed upon by the military authorities having jurisdiction over the facility.

(b) TAKE-OFF MINIMUMS.

(1) REGULAR, PROVISIONAL OR REFUELING AIRPORTS.

December 29, 1950

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(i) **TWIN-ENGINE AIRCRAFT.** (a) Take-off minimums may be approved as low as 300 feet and one mile if, after a consideration of all obstructions in the immediate vicinity of the end of the runway used and of the facilities and procedures used to avoid all obstacles in the take-off area, it is determined that a safe climb to the minimum en route altitude can be made. Take-off minimums lower than 300-1 and as low as 200-1/2 may be approved when the air carrier is authorized landing minimums lower than 300-1 through utilization of the ILS or GCA facilities serving the airport, provided such take-off minimums will not be less than the straight-in landing minimums approved for the particular airport and conditions are such that a straight-in ILS or GCA approach can be executed in accordance with the limitations set forth in the air carrier operating certificate.

(b) Take-off minimums as low as 200-1/2 may also be approved at airports not served by ILS or GCA facilities, or at airports equipped with ILS or GCA when conditions are such that a straight-in ILS or GCA approach cannot be made in accordance with subdivision (a) of this subparagraph. Such approval, however, will be contingent upon the specification in the flight clearance of an alternate airport having an approved instrument approach procedure located within a distance equivalent to 15 minutes at one engine inoperative cruising flight in calm air from the airport of take-off. In addition, at the time of departure, the weather at such alternate airport must be at or above alternate landing minimums. In submitting applications for approval of such minimums, the lowest take-off minimums applicable without a take-off alternate should be shown in the take-off minimum column of the Operations Specifications--Airport. The take-off minimums applicable when a take-off alternate is specified in the flight clearance should be shown in the "Remarks" section of the Operations Specifications--Airport as follows: "-----(Show minimums applicable) authorized in accordance with paragraph----Airport Preface Pages."

(ii) **FOUR-ENGINE AIRCRAFT.** Take-off minimums may be approved as low as 200 feet and one-half mile if, after a consideration of all obstructions in the immediate vicinity of the end of the runway used and of the facilities and procedures used to avoid all obstacles in the take-off area, it is determined that a safe climb to the minimum en route altitude can be made. At airports, where take-off minimums of 200-1/2 have been approved, take-off minimums of 200-1/4 may also be authorized on runways equipped with high intensity runway lights, provided such lights are on and in normal operation in order to insure that the pilot has adequate visual reference to the line of forward motion during the take-off run.

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