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- (i) The critical engine inoperative, the remaining engines at the go-around power or thrust setting:
 - (ii) The maximum landing weight;
- (iii) A climb speed established in connection with normal landing procedures, but not exceeding 1.4 V_{SR} ; and
 - (iv) Landing gear retracted.
- (2) The requirements of paragraph (d)(1) of this section must be met:
 - (i) In non-icing conditions; and
- (ii) In icing conditions with the most critical of the approach ice accretion(s) defined in Appendices C and O of this part, as applicable, in accordance with §25.21(g). The climb speed selected for non-icing conditions may be used if the climb speed for icing conditions, computed in accordance with paragraph (d)(1)(iii) of this section, does not exceed that for non-icing conditions by more than the greater of 3 knots CAS or 3 percent.

[Doc. No. 5066, 29 FR 18291, Dec. 24, 1964, as amended by Amdt. 25–84, 60 FR 30749, June 9, 1995; Amdt. 25–108, 67 FR 70826, Nov. 26, 2002; Amdt. 25–121, 72 FR 44666; Aug. 8, 2007; Amdt. 25–140, 79 FR 65525, Nov. 4, 2014]

§25.123 En route flight paths.

- (a) For the en route configuration, the flight paths prescribed in paragraph (b) and (c) of this section must be determined at each weight, altitude, and ambient temperature, within the operating limits established for the airplane. The variation of weight along the flight path, accounting for the progressive consumption of fuel and oil by the operating engines, may be included in the computation. The flight paths must be determined at a speed not less than V_{FTO}, with—
- (1) The most unfavorable center of gravity:
 - (2) The critical engines inoperative;
- (3) The remaining engines at the available maximum continuous power or thrust; and
- (4) The means for controlling the engine-cooling air supply in the position that provides adequate cooling in the hot-day condition.
- (b) The one-engine-inoperative net flight path data must represent the actual climb performance diminished by a gradient of climb of 1.1 percent for two-engine airplanes, 1.4 percent for

three-engine airplanes, and 1.6 percent for four-engine airplanes—

- (1) In non-icing conditions; and
- (2) In icing conditions with the most critical of the en route ice accretion(s) defined in Appendices C and O of this part, as applicable, in accordance with §25.21(g), if:
- (i) A speed of 1.18 " V_{SR0} with the en route ice accretion exceeds the en route speed selected for non-icing conditions by more than the greater of 3 knots CAS or 3 percent of V_{SR} ; or
- (ii) The degradation of the gradient of climb is greater than one-half of the applicable actual-to-net flight path reduction defined in paragraph (b) of this section.
- (c) For three- or four-engine airplanes, the two-engine-inoperative net flight path data must represent the actual climb performance diminished by a gradient of climb of 0.3 percent for three-engine airplanes and 0.5 percent for four-engine airplanes.

[Doc. No. 5066, 29 FR 18291, Dec. 24, 1964, as amended by Amdt. 25–121, 72 FR 44666; Aug. 8, 2007; Amdt. 25–140, 79 FR 65525, Nov. 4, 2014]

§25.125 Landing.

- (a) The horizontal distance necessary to land and to come to a complete stop (or to a speed of approximately 3 knots for water landings) from a point 50 feet above the landing surface must be determined (for standard temperatures, at each weight, altitude, and wind within the operational limits established by the applicant for the airplane):
 - (1) In non-icing conditions; and
- (2) In icing conditions with the most critical of the landing ice accretion(s) defined in Appendices C and O of this part, as applicable, in accordance with $\S25.21(g)$, if V_{REF} for icing conditions exceeds V_{REF} for non-icing conditions by more than 5 knots CAS at the maximum landing weight.
- (b) In determining the distance in paragraph (a) of this section:
- (1) The airplane must be in the landing configuration.
- (2) A stabilized approach, with a calibrated airspeed of not less than V_{REF} , must be maintained down to the 50-foot height.
- (i) In non-icing conditions, V_{REF} may not be less than: