UNITED STATES OF AMERICA
CIVIL AERONAUTICS BOARD
WASHINGTON, D. C.

Civil Air Regulations Amendment 13-2
Effective: May 17, 1958
Adopted: April 15, 1958

AIRCRAFT ENGINE AIRWORTHINESS

MISCELLANEOUS AMENDMENTS RESULTING FROM THE 1957 ANNUAL AIRWORTHINESS REVIEW

There are contained herein amendments with respect to fuel system filters for both reciprocating and turbine engines and endurance testing of turbine engines stemming from the 1957 Annual Airworthiness Review.

The amendments dealing with fuel system filters are intended to insure that foreign particles in the fuel which would have an adverse effect on the fuel system will be removed. It is, therefore, required that the engine manufacturer specify the type of filtration necessary and demonstrate that foreign particles passing through the filter will not impair the fuel system functioning.

There is also an amendment to § 13.254. It has been found that the specification of power and/or thrust and of engine rotational speed of a tolerance of ± 3 percent for the endurance test is unduly burdensome on the engine manufacturer. The amendment contained herein requires that the endurance test be conducted with the engine power and/or thrust and engine rotational speed at not less than 100 percent of the specified values.

Interested persons have been afforded an opportunity to participate in the making of this amendment (22 F.R. 9116), and due consideration has been given to all relevant matter presented.

In consideration of the foregoing, the Civil Aeronautics Board hereby amends Part 13 of the Civil Air Regulations (14 CFR Part 13, as amended) effective May 17, 1958:

1. By amending § 13.110 by adding a new paragraph (c) to read as follows:

13.110 Fuel and induction system. * * *

(c) The type and degree of fuel filtering necessary for protection of the engine fuel system against foreign particles in the fuel shall be specified. It shall be demonstrated that foreign particles passing through the prescribed filtering means will not critically impair engine fuel system functioning.

2. By amending § 13.210 by adding a new paragraph (d) to read as follows:

13.210 Fuel and induction system.* * *

(d) The type and degree of fuel filtering necessary for protection of the engine fuel system against foreign particles in the fuel shall be specified. It shall be demonstrated that foreign particles passing through the prescribed filtering means will not critically impair engine fuel system functioning.

3. By amending § 13.254 by deleting the third sentence and inserting in lieu thereof the following: "During the endurance test, the engine power and/or thrust and the engine rotational speed shall not be less than 100 percent of the specified values except that substantiating evidence shall be submitted if the engine parameters are not controlled within this limitation."

(Sec. 205, 52 Stat. 984; 49 U.S.C. 425. Interpret or apply secs. 601, 603, 52 Stat. 1007, 1009, as amended; 49 U.S.C. 551, 553)

By the Civil Aeronautics Board:

/s/ M. C. Mulligan

M. C. Mulligan
Secretary

(SEAL)

USCOMM-DC-10927 Part 13 last printed June 15, 1956.