CIVIL AERONAUTICS BOARD

WASHINGTON, D. C.

CIVIL AIR REGULATIONS

PART 16.—AIRCRAFT RADIO EQUIPMENT AIRWORTHINESS

Effective February 13, 1941

UNITED STATES
GOVERNMENT PRINTING OFFICE
WASHINGTON : 1941

For sale by the Superintendent of Documents, Washington, D. C. - - - - Price 5 cents

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PART 16.—AIRCRAFT RADIO EQUIPMENT AIRWORTHINESS [1]

General
- 16.10 Scope
- 16.11 Deviation
- 16.12 Waiver

Technical Data
- 16.20 General
- 16.21 Drawings
- 16.22 Drawing list
- 16.23 Parts list

Characteristics
- 16.30 Design and Tests

Inspections and tests
- 16.40 General
- 16.41 Facilities
- 16.42 Report

Identification and Changes
- 16.50 Identification
- 16.51 Modification
- 16.52 List changes

GENERAL

16.10 Scope. Aircraft radio equipment required by the Civil Air Regulations to be type certificated and installed in certificated aircraft is elegible for a type certificate upon meeting the requirements hereinafter prescribed.

16.11 Deviation. New types, or new types of construction, of aircraft radio equipment which make the tests prescribed by these regulations inapplicable may be subjected to such other tests as the Administrator may deem necessary to insure safe operation.

16.12 Waiver. The tests prescribed herein may be waived whenever, in the opinion of the Administrator, a particular part of aircraft radio equipment is so designed or constructed that such tests are not necessary to insure airworthiness.

TECHNICAL DATA

16.20 General. To be eligible for a type certificate for aircraft radio equipment, an applicant must submit the following technical data:

16.21 Drawings. One set of drawings in blueprint or equivalent form folded to approximately 9 x 12 inches containing the manufacturer's designation of the aircraft radio equipment and all details of design, construction, assembly, and materials used which are necessary for the reproduction of such aircraft radio equipment: *Provided*, That adequate photographs may be substituted for such drawings if such photographs are suitably marked to indicate the details required herein.

16.22 Drawing list. A drawing list setting forth in numerical order or by other suitable classification, the title and number or date of each drawing submitted under § 16.21.

[1] Application for type certification of aircraft radio equipment should be made as prescribed in Part 02. The provisions of §§ 02.2 and 02.3 providing for a production certificate and the rules for the operation under such certificate shall not be applicable to the case of type certification of aircraft radio equipment.

16.23 Parts list. A list specifying each component part of the aircraft radio equipment submitted to the Administrator for certification. The list shall indicate the physical or circuit location of each item and the type or model designation assigned to such item by the manufacturer.

CHARACTERISTICS

16.30 Design and tests. To be eligible for type certification, aircraft radio equipment must be so designed and constructed that it will satisfactorily perform the function or functions for which it is intended to be used in aircraft under all flight conditions which may be met in regular service and must:

(a) Be free from hazard both in itself and in its method of operation;

(b) Be constructed of suitable and dependable materials;

(c) Satisfactorily pass a visual inspection of the construction, layout, and electrical arrangement of all components of the particular aircraft radio equipment and such electrical, humidity, temperature, pressure, vibration, drop, and other tests as the Administrator may prescribe.

INSPECTIONS AND TESTS

16.40 General. The prescribed inspections and tests shall be conducted by the applicant under the supervision of representatives of the Administrator at a designated time and place and in such manner and under such conditions as they may deem necessary.

16.41 Facilities. All engineering, technical, and physical facilities which may be necessary for the conduct of all of the prescribed inspections and tests shall be provided by the applicant.

16.42 Report. The applicant shall submit in duplicate a written report of the results of the prescribed inspections and tests which shall be in such detail as the Administrator may require.

IDENTIFICATION AND CHANGES

16.50 Identification. Type certificated aircraft radio equipment shall be plainly and suitably marked with at least the following information:

(a) Name and address of manufacturer;

(b) Manufacturer's type or model designation;

(c) Weight to the nearest pound and fraction thereof;

(d) Serial number or date of manufacture;

(e) Type certificate number.

16.51 Modification. No change shall be made in the approved specifications under which type certificated aircraft radio equipment is manufactured prior to the approval of such change by the Administrator.

16.52 List changes. The holder of a type certificate for aircraft radio equipment shall keep all lists furnished the Administrator current by submitting revised lists containing all changes made subsequent to original certification.