



Technical Standard Order

Subject: TSO-C35d, AIRBORNE RADIO MARKER RECEIVING EQUIPMENT

§37.137 Airborne Radio Marker Receiving Equipment—TSO-C35d.

(a) *Applicability.* This technical standard order prescribes the minimum performance standards that airborne radio marker receiving equipment must meet in order to be identified with the applicable TSO marking. New models of equipment that are to be so identified, and that are manufactured on or after May 15, 1971, must meet the requirements of Radio Technical Commission for Aeronautics Document No. DO-143 entitled "Minimum Performance Standards—Airborne Radio Marker receiving Equipment Operating on 75 Megahertz" dated January 8, 1970, and Radio Technical Commission for Aeronautics Document No. DO-138 entitled "Environmental Conditions and Test Procedures for Airborne Electronic/Electrical Equipment and Instruments" dated June 27, 1968. RTCA Documents Nos. DO-143 and DO-138 are incorporated herein in accordance with 5 U.S.C. 552(a)(1) and § 37.23, and are available as indicated in §37.23. Additionally, RTCA Documents Nos. DO-143 and DO-138 may be examined at any FAA regional office of the Chief of Engineering and Manufacturing Branch (or in the case of the Western Region, the Chief, Aircraft Engineering Division), and may be obtained from the RTCA Secretariat, Suite 655, 1717 H Street, N.W., Washington, D.C. 20006, at a cost of \$6.00 per copy for

Document No. DO-143 and \$8.00 per copy for Document No. DO-138.

(b) *Marking.* In addition to the markings specified in §37.7 the equipment must be permanently and legibly marked with the following information:

(1) The environmental categories over which the article has been designed to operate must be marked in accordance with RTCA Document DO-138, Appendix B.

(2) The equipment must be marked to indicate the class declared by the manufacturer as follows:

Class A. Equipment designed for use where marker beacon signals are required for both enroute and approach operations.

Class B. Equipment designed for use where marker beacon signals are required only for approach operations.

Equipment which complies with both Class A and Class B requirements need only be marked as Class A equipment.

(3) Each separate component of equipment (antenna, receiver, indicator, etc.) must be identified with at least the name of the manufacturer, the TSO number, and the environmental categories over which the component is designed to operate. Where an environmental test procedure is not applicable to that component and the test is not conducted, an X should be placed in the space assigned for that category.

(c) *Data requirements.* In accordance with §37.5, the manufacturer must furnish to the Chief, Engineering and Manufacturer Branch, Flight Standards Division (or in the case of the Western Region, the Chief, Aircraft Engineering Division), Federal Aviation Administration, in the region in which the manufacturer is located, the following technical data:

(1) One copy of the operating instructions and equipment limitations of the manufacturer.

(2) One copy of the installation procedures with applicable schematic drawings, wiring diagrams, and specifications, and a list of components (by part number) or possible combination thereof, which make up a system complying with this TSO. The procedures

must show all limitations, restrictions, or other conditions pertinent to the installation.

(3) One copy of the manufacturer's test report.

(d) One copy of the installation procedures with the data identified in paragraph (c)(2) including limitation, restrictions, or other conditions pertinent to the installation must be furnished with each article manufactured under this TSO.

(e) *Previously approved equipment.* Airborne radio marker receiving equipment approved prior to May 15, 1971, may continue to be manufactured under the provisions of its original approval.