



National Technical Standard

Subject: Light Aviation Secondary Surveillance Transponder (LAST)

1 Applicability

This NTS specifies the requirements which light aviation secondary surveillance transponders (LAST) that are manufactured on or after the date of this NTS must meet in order to be identified with the applicable NTS marking.

2 Procedures

Applicable procedures are detailed in JAR-21 Subpart O.

3 Technical Conditions

3.1 Minimum Performance Standard

Standard given in EUROCAE ED-115: „Minimum Performance Specification for Light Aviation Secondary Surveillance Transponders“. The following functionalities, capabilities and variants are not applicable for a NTS authorised LAST:

1.4.2.1 Transponder Functionality

- a) Level 1 Surveillance only

2.11.1 LAST Capabilities

- a) Lc0 Mode A/C only transponder

2.11.2 LAST Variants

- a) V1 (Self-contained removable LAST)

3.2 Environmental Standard

If the equipment design is depending on environmental conditions, EUROCAE/RTCA document ED-14D/DO-160D, "Environmental Conditions and Test Procedures for Airborne Equipment", or the latest published revision, has to be applied.

3.3 Computer Software

If the equipment design implementation includes a digital computer, the software must be developed in accordance with EUROCAE/RTCA document ED-12B/DO-178B, "Software considerations in Airborne Systems and Equipment Certification", or the latest published revision.

4 Marking

4.1 General

Marking is detailed in JAR-21 Subpart Q.

4.2 Specific

Additional requirements for labelling are given in EUROCAE ED-115 paragraph 1.4.2.2.

5 Availability of Referenced Document

A copy of this NTS and the referenced STR documents may be obtained from the Luftfahrt-Bundesamt, Division M4, Postfach 3054, 38020 Braunschweig, Germany, www.lba.de.

EUROCAE documents may be purchased from the European Organisation for Civil Aviation Electronics: 11 rue Hamelin, 75783 PARIS CEDEX 16, France, www.eurocae.org.

RTCA documents may be purchased from the Radio Technical Commission for Aeronautics Secretariat, One Mc Pherson Square, 1425 K Street NW., Suite 500, Washington DC 20005, USA, www.rtca.org.

JAA documents may be purchased from the Global Info Centre/Information Handling Services GmbH, Fraunhoferstrasse 22, D-82152 Martinsried, Germany, www.ihs.de.