

European Aviation Safety Agency

European Technical Standard Order

Subject: LIGHT AVIATION SECONDARY SURVEILLANCE TRANSPONDER (LAST)

1 - Applicability

This ETSO gives the requirements which light aviation secondary surveillance transponders (LAST) that are manufactured on or after the date of this ETSO must meet in order to be identified with applicable ETSO marking. The use of those transponders is restricted to cruising speed up to 175 kts, altitude up to 15000 ft and non diversity operation.

2 - Procedures

2.1 - General

Applicable procedures are detailed in CS-ETSO Subpart A.

2.2 - Specific

None.

3 - Technical Conditions

3.1 - Basic

3.1.1 - Minimum Performance Standard

Standard given in EUROCAE ED-115: „Minimum Performance Specification for Light Aviation Secondary Surveillance Transponders”.

The following functionalities, capabilities, variants and options specified in ED-115 are not applicable for an ETSO authorised LAST:

1.1 Note 2 (low power, non ICAO compliant)

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)

Paragraph 1.2 of ED-115 is not a requirement (guidance only).

3.1.2 - Environmental Standard

See CS-ETSO Subpart A paragraph 2.1.

3.1.3 - Computer Software

See CS-ETSO Subpart A paragraph 2.2.

3.2 - Specific

None.

4 - Marking

4.1 - General

Marking is detailed in CS-ETSO Subpart A paragraph 1.2.

4.2- Specific

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

5 - Availability of Referenced Document

See CS-ETSO Subpart A paragraph 3.