

Deviation Request ETSO-C88a#1 for an ETSO approval for CS-ETSO applicable to Automatic Pressure Altitude Reporting Code Generating Equipment (ETSO-C88a)

Consultation Paper

1 Introductory Note

The hereby presented deviation requests shall be subject to public consultation, in accordance with EASA Management Board Decision No 7-2004 as amended by EASA Management Board [Decision No 12-2007](#) products certification procedure dated 11th September 2007, Article 3 (2.) of which states:

“2. Deviations from the applicable airworthiness codes, environmental protection certification specifications and/or acceptable means of compliance with Part 21, as well as important special conditions and equivalent safety findings, shall be submitted to the panel of experts and be subject to a public consultation of at least 3 weeks, except if they have been previously agreed and published in the Official Publication of the Agency. The final decision shall be published in the Official Publication of the Agency.”

2 ETSO-C88a#1 Automatic Pressure Altitude Reporting Code Generating Equipment

2.1 Summary of Deviation

Deviates from ETSO-C88a section 3.1.1 by using EUROCAE ED-26 dated March 30, 1979 instead of SAE AS 8003.

2.2 Original Requirement

ETSO-C88a:

3.1.1 - Minimum Performance Standard

Standards set forth in the Society of Automotive Engineers, Inc ., (SAE) Aerospace Standard (AS) 8003 „Automatic Pressure Altitude Reporting Code Generating Equipment“, dated July, 1974.

2.3 Industry

EUROCAE ED-26 has been produced by an international working group, considering ICAO Annex 10 and ICAO Airworthiness Technical Manual Doc.9051-AN/896, first edition, 1974 to address the same objective as SAE AS 8003 and referencing the AS8003 published a few years earlier.

ED-26 has then been referenced by the JAA in the TGL NO 13 Revision 1: Certification of Mode S Transponder Systems for Elementary Surveillance. It is also referenced in the EASA AMC to CS-ACNS for Elementary and Enhanced Surveillance. It is therefore a recognized acceptable standard for altitude encoders.

2.4 Equivalent Level of Safety

ELOS is provided by the use of a more recent document reflecting industry consensus on airborne altitude measurement and coding systems.

2.5 EASA position

We accept the deviation.