



**European Aviation Safety Agency
Rulemaking Directorate**

EXPLANATORY NOTE

CS-ETSO Amendment 6

Executive Director Decision 2010/010/R amends Executive Director Decision No. 2003/10/RM of 24 October 2003 as last amended by Executive Director Decision No. 2009/015/R of 8 December 2009 (CS-ETSO Amendment 5).

This Amendment 6 of CS-ETSO (European Technical Standard Orders) incorporates the output from the following Agency rulemaking task:

Rulemaking Task No.	TITLE	NPA No.
ETSO.007	Systematic review and transposition of existing FAA TSO standards for parts and appliances into EASA ETSO.	2009-11

The Notice of Proposed Amendment (NPA) has been subject to consultation in accordance with Article 52(1)(c) of the Basic Regulation¹ and articles 5(3) and 6 of the Rulemaking Procedure². The Agency has addressed and responded to the comments received on each NPA. The responses are contained in a comment-response document (CRD) which has been produced for the NPA and which is available on the Agency's web-site.

In response to the CRD 2009-11 no substantive reactions were received.

Detailed changes incorporated in the NPA is summarised in the following pages for ease of reference.

¹ Regulation (EC) No 216/2008 of the European Parliament and of the Council of 20 February 2008 on common rules in the field of civil aviation and establishing a European Aviation Safety Agency, and repealing Council Directive 91/670/EEC, Regulation (EC) No 1592/2002 and Directive 2004/36/EC (OJ L 79, 19/03/2008, p. 1). Regulation as last amended by Regulation (EC) No 1108/2009 of the European parliament and of the Council of 21 October 2009 (OJ L 309, 24/11/2009 p. 51).

² Management Board Decision concerning the procedure to be applied by the Agency for the issuing of opinions, certification specifications and guidance material (Rulemaking Procedure), EASA MB/08/07, 13.6.2007.

TITLE: CS-ETSO Amendment 6

Rulemaking Task No.: ETSO.007

Title: Systematic review and transposition of existing FAA TSO standards for parts and appliances into EASA ETSO

NPA No.: NPA 2009-11

CRD No.: CRD 2009-11

LIST OF PARAGRAPHS AFFECTED

In Subpart A – GENERAL

The environmental standard EUROCAE/RTCA document ED-14E/DO-160E dated March 2008 has been added.

Two new paragraphs, §2.3 “Electronic hardware” and §2.4 “Failure condition classification” have been introduced.

The EUROCAE web site and e-mail address have been updated.

The following ETSO are deleted from Subpart B Index 1:

Subpart B

Index 1

ETSO-C48	Carbon Monoxide Detector Instruments
ETSO – C50c	Audio Selector Panels and Amplifiers
ETSO – C57a	Headsets and Speakers
ETSO – C58a	Aircraft Microphones

The following revised ETSO are replacing ETSO-C6d, ETSO-C8d, ETSO-C39b, ETSO-C123a, ETSO-C124a, ETSO-C135, ETSO-C144, ETSO-C145 and ETSO-C146 in Subpart B Index 1 table of content:

Subpart B

Index 1

ETSO-C6e	Direction Instrument, Magnetic (Gyroscopically Stabilized)
ETSO-C8e	Vertical Velocity Instrument (Rate-of-Climb)
ETSO-C39c	Aircraft Seats and Berths Certified by Static Testing only
ETSO-C123b	Cockpit Voice Recorders Systems
ETSO-C124b	Flight Data Recorder Systems
ETSO-C135a	Large Aeroplane Wheels and Wheel and Brake Assemblies
ETSO-C144a	Passive Airborne Global Navigation Satellite System (GNSS) Antenna
ETSO-C145c	Airborne Navigation Sensors Using the Global Positioning System Augmented by the Satellite Based Augmentation System
ETSO-C146c	Stand Alone Airborne Navigation Equipment Using the Global Positioning System Augmented by the Satellite Based Augmentation System

The following new ETSO are inserted in Subpart B Index 1 table of content:

Subpart B

Index 1

ETSO-C112c	Air Traffic Control Radar Beacon System/Mode Select (ATCRBS/MODE S) Airborne Equipment
ETSO-C139	Aircraft Audio Systems and Equipment
ETSO-C155	Recorder Independent Power Supply
ETSO-C165	Electronic Map Display Equipment for Graphical Depiction of Aircraft Position
ETSO-C176	Crash Protected Airborne Recorder Systems Image Recorder
ETSO-C177	Crash Protected Airborne Recorder Systems CNS/ATM Recorder
ETSO-C190	Active Airborne Global Navigation Satellite System (GNSS) Antenna

The following ETSO are deleted from Subpart B Index 2:

Subpart B

Index 2

ETSO-2C37e	VHF Communication Transmitting Equipment Operating within Radio Frequency Range 117.975 to 137 MHz
ETSO-2C38e	VHF Communication Receiving Equipment Operating within Radio Frequency Range 117.975 to 137 MHz
ETSO-2C112b	Air Traffic Control Radar Beacon System/Mode Select (ATCRBS/MODE S) Airborne Equipment

The following new ETSO are inserted in Subpart B Index 2 table of content:

Subpart B

Index 2

ETSO-2C48a	Carbon Monoxide Detector Instruments
ETSO-2C169a	VHF Radio Communications Transceiver Equipment Operating Within the Radio Frequency Range 117.975 to 137.000 Megahertz