

In Subpart A – GENERAL; the environmental standard paragraph 2.1 is replaced by the following:

SUBPART A – GENERAL

2.1 Environmental standards:

Unless otherwise stated in paragraph 3.1.2 of the specific ETSO, the applicable environmental standards are contained in EUROCAE/RTCA document ED-14D change 3/DO-160D change 3 “Environmental Conditions and Test Procedures for Airborne Equipment”, dated December 2002, or ED-14E/DO-160E dated March 2005 or ED-14F/DO-160F dated March 2008.

It is not permissible to mix versions within a given qualification programme.

In Subpart A – GENERAL; the following paragraphs for electronic hardware and Failure condition classification are added:

2.3 Electronic Hardware

If the article contains a complex Application-Specific Integrated Circuit (ASIC) or complex programmable logic (e.g. Programmable Array Logic components (PAL), Field-Programmable Gate Array components (FPGA), General Array Logic components (GAL), or Erasable Programmable Logic Devices) summarised as Complex Hardware to accomplish the function, develop the component according to EUROCAE/RTCA document ED-80/DO-254 “Design Assurance Guidance for Airborne Electronic Hardware”, dated April 2000. All Complex Hardware included in the article definition must be developed in accordance with EUROCAE/RTCA document ED-80/DO-254.

2.4 Failure condition classification

When applicable, any failure condition should be classified according to the severity of its effect. For further guidance see AMC 25.1309.

To develop system design assurance guidance for failure condition classifications, the applicant may use EUROCAE/SAE document ED-79/ARP 4754 “Certification Considerations for Highly-Integrated or Complex Aircraft Systems” dated November 1996.

Develop the system to, at least, the design assurance level equal to the failure condition classifications provided in the ETSO. Development to a lower Design Assurance Level may be justified for certain cases and accepted during the ETSO process but will lead to installation restrictions.

In Subpart A – GENERAL paragraph 3 Additional Information; The EUROCAE address is replaced by the following:

EUROCAE documents may be purchased from:
European Organisation for Civil Aviation Equipment
102 rue Etienne Dolet – 92240 Malakoff - France
Telephone: +33 1 40 92 79 30; Fax +33 1 46 55 62 65;
(e-mail: eurocae@eurocae.net, web site: www.eurocae.net)