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Advisory Circular

U.S. Department of Transportation
Federal Aviation Administration

Subject: Airborne Software Assurance   Date: 07/19/2013   AC No: 20-115C
                                         Initiated by: AIR-120   Change

1. Purpose of this Advisory Circular (AC).

a. This AC describes an acceptable means, but not the only means, for showing compliance with the applicable airworthiness regulations for the software aspects of airborne systems and equipment certifications. This AC is not mandatory and is not a regulation. Other ACs may describe alternate means.

b. We, the Federal Aviation Administration (FAA), wrote this AC to recognize the following RTCA, Inc. documents (RTCA DO):

(1) RTCA DO-178C, *Software Considerations in Airborne Systems and Equipment Certification*, dated December 13, 2011.

(2) RTCA DO-330, *Software Tool Qualification Considerations*, dated December 13, 2011.

(3) RTCA DO-331, *Model-Based Development and Verification Supplement to DO-178C and DO-278A*, dated December 13, 2011.

(4) RTCA DO-332, *Object-Oriented Technology and Related Techniques Supplement to DO-178C and DO-278A*, dated December 13, 2011.

(5) RTCA DO-333, *Formal Methods Supplement to DO-178C and DO-278A*, dated December 13, 2011.

Note: RTCA DO is hereafter referred to as DO.

c. References to use of DO-178C in this AC include use of supplements and DO-330 as applicable.

d. This AC also establishes guidance for transitioning to DO-178C when making modifications to software previously approved using DO-178, DO-178A, or DO-178B.

MODULE D

HOUSEKEEPING

1. Airplane external contamination sources

    a. De-icing fluids
    b. Water and rain
    c. Snow and ice
    d. Miscellaneous contamination (e.g. cargo / beverage spillage)
    e. Air erosion

2. Airplane internal contamination sources

    a. Hydraulic oils
    b. Engine and auxiliary power unit (APU) oils
    c. Fuel
    d. Greases
    e. Contaminants from galleys and toilets
    f. Lint/dust
    g. Bleed air and hot areas
    h. Hazardous materials

3. Other contamination sources

    a. Paint
    b. Corrosion inhibitor
    c. Metal shavings/Swarf
    d. Foreign objects (screws, washers, rivets, tools, etc.)
    e. Animal waste

4. Contamination protection planning

    a. Have a plan – types of plans / area mapping
    b. Protection and caution recommendations
    c. Procedures
    d. Keep cleaning

General

Civil Aviation Authority Advisory Circulars contain information about standards, practices, and procedures that the Director has found to be an **Acceptable Means of Compliance (AMC)** with the associated rule.

An AMC is not intended to be the only means of compliance with a rule, and consideration will be given to other methods of compliance that may be presented to the Director. When new methods, standards, practices, or procedures are found to be acceptable they will be added to the appropriate Advisory Circular.

An Advisory Circular may also include **guidance material (GM)** to facilitate compliance with the rule requirements. Guidance material must not be regarded as an acceptable means of compliance.

Purpose

This Advisory Circular provides methods acceptable to the Director for showing compliance with Civil Aviation Rule Part 21 Subpart B and Subpart D. This material is intended to assist organisations and persons in gaining certification for aircraft types to be operated in New Zealand.

Related Rules

This Advisory Circular relates specifically to Civil Aviation Rule Part 21, Subpart B – Type Certificates and Type Acceptance Certificates, and Part 21, Subpart D – Changes to Type Certificates and Type Acceptance Certificates.

Change Notice

Revision 4 corrects the CAA Form to be used to apply for a type acceptance certificate.

Faa advisory circulars.

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