



TERMS OF REFERENCE

Task Nr:	MDM.034
Issue:	1
Date:	9 June 2008
Regulatory reference:	<ul style="list-style-type: none">• AMC No 1 to CS 25.603: Composite Aircraft Structures.• AMC No 2 to CS 25.603: Change of Composite Material.• AMC 23.603 Material and workmanship. Composite Aeroplane Structure• AC 27-1B Change 2 (MG8)• AC 29-2C Change 2 (MG8)
Reference documents:	AC20-107A, CMH-17 Vol.3

1. Subject:

Composites

Update of EASA AMC to harmonise with corresponding revision to FAA Advisory Circular 20-107A.

2. Problem / Statement of issue and justification; reason for regulatory evolution (regulatory tasks):

AMC No 1 to CS 25.603 is harmonised with AC 20-107A. The text has not been substantively revised since its publication in 1984.

The recent significant increase in use of composites in primary aircraft structure, particularly for passenger aircraft, e.g. B787, A350 etc, in conjunction with significant developments in materials and design methodologies, requires that the AC/AMC is updated to reflect acceptable design and production practices for showing compliance with CS 25.603.

In addition, extensive use of composites technology is used in other types of aircraft. Some of the CSs make direct reference to AC 20-107A. (e.g. AMC 23.603) or indirectly through reference to other FAA ACs (e.g. AC 27-1B, AC 29-2C). Due to the general nature of the guidance being developed, a new AMC within AMC-20 will be created and affected CSs will be amended, as appropriate.

3. Objective:

The FAA is currently leading a group with the aim of updating MIL-17, (now termed the Composite Materials Handbook or CMH-17) to reflect best practice in composite design, production and certification.

This document will form the basis for the revision of EASA AMC.

4. Specific tasks and interface issues (Deliverables):

1. Contribute to the development of CMH-17.
2. Develop a new AMC within AMC-20 to harmonise with the planned update to FAA AC 20-107A
3. Revise or replace AMC No.1 & No 2 to CS-25.603 and AMC 23.603 for compatibility with the new AMC.
4. Propose amendments to other EASA AMCs where appropriate.

5. Working Methods (in addition to the applicable Agency procedures):

Agency task based on work done by FAA sponsored CMH-17 Volume 3 Working Group.
Harmonisation method 2: FAA Lead.

6. Time scale, milestones:

NPA - 2nd quarter 2009

CRD - 1st quarter 2010

EASA Decision - 3rd quarter 2010