



EASA Status Ageing Systems Activities

**EAPAS / AASR EASA / FAA / DAH
Familiarization meeting
EASA Cologne
14.12.2007**



EASA Ageing Systems Activities

Presentation addresses:

- Authorities cooperation
- Regulatory background
- Final product NPA 2007 / 01
 - ★ Deliverables
 - ★ Differences from FAA
- EASA implementation plan



Authorities Cooperation

- FAA, Transport Canada, Brazil ANAC and EASA cooperate together in general and in particular on the ageing aircraft issues

★ Rulemaking

- Common initiatives
- Monthly telecons

★ Implementation

- Technical assistance for Part 26 compliance
- Weekly telecons
- This meeting



Rulemaking Ageing Systems

- **European Ageing Systems Coordination Group (EASCG)**
 - ✧ Established since February 2004
 - ✧ TORs from EASA through MDM.002
 - ✧ Task to transcribe the ATSRAC proposals into draft NPAs fitting in the EASA regulatory structure
 - ✧ Final product January 06



Rulemaking Ageing Systems

➤ Working methods:

- ✧ Initial task was to start from ATSRAC/WSHWG recommendations
 - Aging Transport Systems Rulemaking Advisory Committee
 - Wiring Systems Harmonisation Working Group
- ✧ EASA made aware of FAA NPRMs proposals through direct technical contact
- ✧ FAA participation to several EASCG meetings has allowed to take account of FAA proposals, in order to develop technically harmonised texts (two-way effort)



Final EASA Product

➤ **NPA 2007/01 EWIS** (Electrical Wiring Interconnection Systems)

- ★ **Published Feb 2007**
- ★ **CRD finalised Nov 2007**
- ★ **Expected final rule June 2008**
 - Similar to FAA rule
 - Vehicle for retroactive application different



NPA 2007 / 01 Deliverables

➤ CS-25 (I)

- ★ New CS-25 Subpart H containing all wiring related requirements in one place, titled Electrical Wiring Interconnect System (EWIS). New subpart to contain new and revised wire related certification requirements some taken from existing subparts of CS-25
- ★ Amendments to existing CS-25 requirements that are necessary due to the creation of the new subpart H



NPA 2007 / 01 Deliverables

➤ CS-25 (II)

- ★ Amendment to appendix H of CS-25 Instructions for Continued Airworthiness with associated AMC
- ★ Creation of new Advisory Material in CS-25 book 2 to support the new Subpart H and CS 25.1357(f)



NPA 2007 / 01 Deliverables

➤ Others

- ★ Amendment to part M to revise:
 - ➔ AMC.M.A.302 for maintenance programmes, and
 - ➔ M.A.706 for training requirements
- ★ Amendment to Part 66 syllabus module 7.7 to reflect EWIS training recommendations
- ★ Introduction of three new AMC 20 leaflets:
 - ➔ AMC 20-21 EZAP
 - ➔ AMC 20-22 EWIS Training Programme
 - ➔ AMC 20-23 Electrical Standard Wiring Practises Manual



Differences from FAA / CS-25

- **Main differences with FAA text**
 - ★ FAA incorporates proposals from Electrical Systems HWG and Wiring Systems HWG whilst EASA only uses WSHWG product (ESHWG part already in CS-25)
 - ★ Subpart H EWIS architecture and collector requirement depth (25.1705) slightly different from the FAA version. EASA has more in collector list.
 - ★ Editorial differences due to different codes structure. **No technical difference**



Differences from FAA / Appendix H

- **Main differences with FAA text**
 - ✧ CS-25 Appendix H25.5 EWIS ICA
 - ✧ Text is minimal to conform with philosophy of Appendix H (*Request for the applicant to provide EWIS ICA*)
 - ✧ ICA Content/Form moved to AMC
 - ✧ No mention of approval in EASA text
 - ✧ **Technically equivalent to FAA text**



Differences from FAA / FAR 26

- EASA has no CS-26 like tool
- Implementation through AD indicated in NPA 2007/01
- Only TC holders identified in the original NPA
- Original compliance dates:
 - ★ 16 December 2008 TC holders
 - ★ 16 December 2009 Operators



EASA Implementation Plan

➤ Objectives :

- ✧ Final rule June 2008
- ✧ Implementation tool for EWIS ICA in the form of EZAP will be separate from rulemaking package
- ✧ *See Yves Morier's presentation on long term options and EAPAS specifics*
- ✧ Both TC holders and STC applications after final rule date will be addressed
- ✧ Dates will be aligned with FAA:
 - TC holder to gain approval of enhanced ICAs by 10 Dec. 2009 (7 June 2010 for future STCs)
 - Operator implementation by 10 Dec. 2010 according to M.A.302 (7 June 2011)