



EASA
European Aviation Safety Agency

CCAR 26 Rules Implementation EU – STC Holders

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Issue2

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STC WORKSHOP
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CCAR 26 Rules - Outline

➤ Agenda

- Introduction/Background
- CCAR Rules Implementation Status
- CCAR 26 Compliance Demonstration – EU STCs
- Future Impact



➤ Purpose

- To give an overview on the activities performed by CAAC and EASA in the frame of the implementation of the CCAR 26 Ageing Airplane Rules
- To present to the affected EU STC Holders the steps needed to finalize CCAR 26 rules compliance demonstration
- To make EU STC Holders aware of taking into account CCAR 26 rules for future validations/certifications



Background

➤ Issuance and Content

➤ CCAR 26 Rules have been issued on: **7th November 2011**
and became effective on: **7th December 2011**

➤ CCAR 26 rules include:

➤ Subpart A – General

Equivalent
to FAR 26

➤ Subpart B - Enhanced Airworthiness Program for Airplane
Systems – EWIS

➤ Subpart D - Fuel Tank Flammability

➤ Subpart E - Damage Tolerance Data for Repairs and Alterations

Equivalent
to SFAR 88

➤ CAO NO. 2012-30 - Retrospective Requirements for Transport
Category Airplane Ignition Sources Prevention

➤ EASA sent an official letter in October 2012 confirming the intention
to support CAAC request in making compliance finding with the new
rules





Background – Initial Co-operation

- Activities performed by EASA as Supporting Authority
 - List of EU TCs provided by CAAC subject to CCAR 26 identified
 - List of the **EU STCs** validated by CAAC subject to CCAR 26 identified
 - EASA/FAA coordination to establish outstanding differences between CCAR 26 and FAR 26 finalized
 - CCAR 26 familiarization workshops (EASA/CAAC Workshops I & II held in November 2013 and May 2014 respectively) and several Management Review Meetings organized





Background – EASA - CAAC Coordination

➤ EASA/CAAC Workshop I

- Equivalence between FAR 26 and CCAR 26 established
- CAAC validation will be supported by a deep review of a sample on an EU product
- All open actions successfully closed



➤ EASA/CAAC Workshop II

- CCAR 26 and CAO 2012-30 compliance verification has been conducted on the A320
 - Open actions were identified and successfully closed after all
 - Next steps for the EASA/CAAC cooperation have been agreed
 - A320 sample exercise finalized
- Concerning VSTCs, CAAC validation to be supported by a deep review of two samples



CCAR Rules Implementation Status – STC Samples

- Two STCs were selected as samples to check compliance with CCAR 26:
 - *'Cabin VIP Tiger'* on B737 (Lufthansa Technik)
 - On this one, compliance with CCAR 26 - EWIS needed to be established
 - *'Auxiliary Center Tank System'* on A318 (Marshall)
 - For this one, compliance with CCAR 26 Fuel Tank Flammability and Damage Tolerance needed to be demonstrated



CCAR Rules Implementation Status – STC Samples

2014

- Check List Lufthansa Technik for compliance with CCAR 26 Subpart B sent to CAAC

2015

- CAAC defined their involvement and requested for 4 certification reports
- EASA provided the reports to CAAC

Mid 2015

- CAAC informed by e-mail that they were satisfied with the project





CCAR Rules Implementation Status – STC Samples

2014

- The 2 Check-List Marshall for compliance with CCAR 26 subparts D and E were sent to CAAC

2015

- CAAC defined their involvement in 2015 and requested for reports/up-dates
- EASA provided the reports, check-lists and clarifications to CAAC

Mid 2015

- CAAC informed by e-mail that they were satisfied with the project





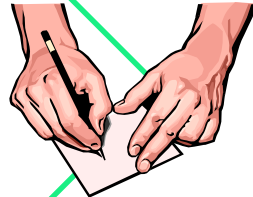
CCAR Rules Implementation Status – STC Samples

EASA

- *To make compliance finding on behalf of CAAC for both STCs*
- *To issue Statement of Compliance to CCAR26 and CAO 2012-30*

CAAC

- *To revise both VSTCs to include the CCAR 26 and CAO compliance*





CCAR 26 Compliance Demonstration – EU STCs – Way Forward



➤ Proposed way forward for EU STCs

➤ For the other VSTCs on which CCAR 26 and/or CAO is applicable:

- EASA to send a letter to the affected EU STCHs
- EASA to use the agreed compliance check-list
- STCH provides Declaration of Compliance (DoC)
- EASA to issue the Statement of Compliance
- CAAC to review the SoC and revise their VSTC





CCAR 26 Compliance Demonstration – EU STCs – Affected STCHs

➤ List of affected STCs

VSTC0572	EASA	10035677	Marshall Cambridge Aerospace Ltd.	A318-112	Installation of an Auxiliary Fuel Centre Tank system on A318-112 aircraft"
VSTC0559	EASA	10039182	Lufthansa Technik	B737-700 IGW	Installation of VIP cabin interior in accordance with Lufthansa Technik AG Supplemental Type Definition Document, Doc No. STDD00- 10/27M



CCAR 26 Compliance Demonstration – EU STCs – Affected STCHs

VSTC0444	EASA	10033449	Airbus S.A.S.	A319-133	Airbus Corporate Jet Centre Modification CJ0615 Issued 1-VIP Interior- "HNA"	28/01/2011
VSTC0340	EASA	A.S.03630	Lufthansa Technik A.G.	A318-112	A318-112-ELITE-Project Tanker 1 Installation of a VIP cabin for a maximum of 16 passengers for non-commercial operation only.	06/08/2009
VSTC0323	EASA	A.S.03402	Lufthansa Technik A.G.	A318-100	A318 ELITE-Project BAA; VIP Cabin completion.	28/11/2008



CCAR 26 Compliance Demonstration – EU STCs – Affected STCHs

VSTC0322	EASA	A.S.03428	Lufthansa Technik A.G.	A318-100	A318-Ballast Weight Installation	28/11/2008
VSTC0321	EASA	A.S.03449	EAD Aerospace	A319-132	Installation of AMT-3800 High Gain Antenna on A319 Series Aircraft.	28/11/2008
VSTC0252	EASA	A.S.00387 Rev. 2	Airbus Deutschland GmbH	A300B4-600/600R	A300B4-600/-600R Modification/Conversion from Passenger to Freighter Aircraft	13/07/2007
VSTC187	EASA	A.S.01230 Rev. 2	ATS International - Groupe AEROCONSEIL	Airbus A318/ A319/ A320/ A321 ALL Models	Mk V EGPWS System Installation	12/06/2006
VSTC183	EASA	A.S.01713	Telair International AB	Airbus A319/320/321	Installation of Sliding Carpet Loading System in Airbus A/319/320/321 in accordance with Telair International AB Master Document List - MDL	01/06/2006



CCAR 26 Compliance Demonstration – EU STCs – Next Steps

➤ CCAR 26 EU STCHs EASA letter will include :

- A Request for CSV application to EASA
- The CCAR 26 and CAO 2012-30 official rules for completeness
- A document reporting the regulatory comparison and outstanding differences between FAR 26 and CCAR 26
- The Compliance Check Lists (CCLs) template in order to clearly identify the CCAR 26 compliance documents to be properly reported in the tables





CCAR 26 Compliance Demonstration – EU STCs – Next Steps

➤ CCAR 26 EU STCHs Letter (cont'd):

- information that, even though the effective date of the rules is overdue, no enforcement actions have been up to now considered from CAAC and no standard Compliance Plan is foreseen
- indication that a Declaration of Compliance (DoC) is required from the STCHs including proper list of certification documents used for the FAR 26 – this list has to be such to allow EASA to fill out the CCLs in the SOC
- indication of a time frame to ensure no enforcement action is foreseen by CAAC





- Future impact on EASA STCs validation:
 - Please be aware that the “Twin Brothers Rule” is for the time being not applicable for validation activity in China
 - As a consequence, any STC seeking validation (or initial certification) in China, with an application date to CAAC after the effective date of the rule, as indicated in the official CCAR 26 and CAO 2012-30 rules, has to take into account the compliance demonstration with these requirements.



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Back-up slides

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CCAR 26 EU TCHs – Actual Status

➤ EASA/CAAC Workshop I

- All Open actions successfully closed

➤ EASA/CAAC Workshop II

- CCAR 26 A320 full compliance demonstration finalized.
- Closure of all the remaining open actions

➤ A320 Compliance demonstration

- A320 sample exercise accomplished
- CAAC acceptance of the A320 Compliance Check lists
- EASA Statement of Compliance to CCAR 26 and CAO 2012-30 for the A320 released to CAAC
- CAAC to provide official feedback on the A320 SOC
- CAAC to revise the CAAC VTCDS for the A320



CCAR 26 EU TCHs – Next Steps

- As agreed, next steps are:
 - CAAC to delegate compliance findings to EASA for all other EU products
 - EASA to make compliance finding on behalf of CAAC and issue the statement of compliance to CCAR 26 and CAO 2012-30 for all the other EU products as per agreed list of VTCs
 - CAAC to review the EASA Statements of Compliance established by EASA and associated compliance check lists in order to revise all the VTCDSs.