

FALCON SERVICE ADVISORY

FSA-25-15-001-R01-B

The Information Mandatory Onboard

Jan 25, 13

Classification: Operation

F10	F20		F200	F50		F900					F2000						F7X	
	-	-5		-	EX	-	EX	EASy	DX	LX	-	EX	EASy	DX	LX	S	LXS	
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Π PURPOSE OF REVISION

Revision	Date	Description
1	25/01/2013	Correction of a discrepancy

? REASON

All documentation and information available to the flight crew for use in the flight deck has been in paper format. Much of this information is now available in electronic format. In addition, many non-required information services, data, and company procedures are also made available to the flight crew electronically.

Electronic Flight Bag (EFB) is an electronic information management device that helps flight crews performing flight management tasks more easily and efficiently with less paper. It is a means to reduce (less paper operations) or replace (paperless operations) paper based material required to be carried onboard for performing a flight.

EFB hold a great promise for increasing efficiency and safety of flight operations, but could also have negative side effects if not implemented appropriately: increase in workload and head-down time, distraction of the flight crew from other higher priority tasks...

These potential negative impacts of EFBs need to be borne in mind and addressed during both design and evaluation, by understanding of:

- How the device will function and be used by crews,
- How the device will interact with other flight deck equipment,
- And how training and operations procedures will be affected.

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Software applications supporting information required onboard or functions directly related to flight operations are EFB software applications. Then the use of EFB loaded with electronic applications to replace paper information mandatory onboard is regulated by FAA AC 91-78, JAA TGL 36, EASA AMC 20-25, and AC120-76B;

Software applications supporting function(s) not directly related to flight operations should be considered as non-EFB software applications and their use is regulated by JAA TGL 29 and FAA AC 91-21B and AC 120-78.

The following table summarizes the information and documentation that is required to be carried onboard an aircraft for general aviation and commercial operations:

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As required per:

- ICAO convention and its associated annexes:
 - ICAO Annex 6 Part I: International Commercial Air Transport,
 - ICAO Annex 6 Part II : General Aviation Operations,
 - ICAO Annex 9: Facilitation,
- Code of Federal Regulation Title 14, Chapter I:
 - Part 61: Certification: pilots, flight instructors, and ground instructors.
 - Part 91: General operating and flight rules,
 - Part 119: Certification: air carrier and commercial operations,
 - Part 135: Operating requirements: commuter and on demand operations and rules governing persons onboard such aircraft;

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General Ref.	Description of the information required onboard	General Aviation Requirement:	International Commercial Air Transport Requirement:
1.	Airplane Individual Certificate of Airworthiness <i>In FAR 91.203 : "displayed at the cabin or cockpit entrance so that it is legible to passengers and crew"</i>	- ICAO Convention article 29 b) - FAR 91.203	
2.	Airplane Registration certificate NB: <i>note that a temporary registration certificate is not acceptable for international travel</i>	- ICAO Convention article 29 a) - FAR 91.203	
3.	Airplane insurance documents	- ICAO Annex 9 §2.37	
4.	Radio station license	- ICAO Convention article 29 e)	
5.	Any document carried onboard attesting aircraft noise certification (English translation should be included)	- ICAO Annex 6 Part II § 6.8	- ICAO Annex 6 Part I §6.13
6.	Certified true copy of the Air Operator's Certificate ¹ / Operating Certificate (English translation should be included)	N/A	- ICAO Annex 6 Part I §6.1.2 - FAR 119.5
7.	Copy of the content of the operations specifications ²	N/A	- ICAO Annex 6 Part I §6.1.2 - FAR 119.7

¹ **Air Operator Certificate [AOC]** (as per ICAO Annex 6 Part I dealing with International Commercial Air Transport): a certificate authorizing an operator to carry out specified commercial air transport operations.

² **Operations specifications** (as per ICAO Annex 6 Part I: the authorizations, conditions and limitations associated with the AOC and subject to the conditions in the operations manual.

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General Ref.	Description of the information required onboard	General Aviation Requirement:	International Commercial Air Transport Requirement:
8.	General declaration either in paper or electronic form in accordance with ICAO Annex 9 appendix 1	- ICAO Annex 9 §2.11	- ICAO Annex 9 §2.11
9.	If carrying passengers : the passenger's manifest in either electronic or paper form	N/A	- ICAO Convention Article 29f) - ICAO Annex 9 §2.12
10.	If carrying cargo : the cargo's manifest in paper form	N/A	- ICAO Convention Article 29 f) - ICAO Annex 9 §2.13
11.	- Pilot's medical certificate (the original, no copy allowed)	- FAR 61.3 - FAR 61.23 - FAR 135.243	- ICAO Convention article 29c) - FAR 61.3 - FAR 61.23 - FAR 135.243
12.	Current valid Pilot's license with the appropriate current aircraft type rating endorsed (original, no copy)	- FAR 61.3 - FAR 61.31	- ICAO Convention article 29c) - FAR 61.3 - FAR 61.31
13.	Pilot's passport (original, no copy)	FAR 61.3	- FAR 61.3
14.	Crew member current and valid certificate in accordance with appendix 7 of ICAO Annex 9, only in the form of machine readable cards as specified in ICAO doc 9303 Part III	N/A	- ICAO Annex 9, Chap. 3 – N – 3.68.1 - FAR 135.43
15.	Pilot In Command's appropriate route and qualification records	ICAO Annex 6 Part II § 2.7.2.1.c)	- ICAO Annex 6 Part I §9.4.3

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<i>General Ref.</i>	<i>Description of the information required onboard</i>	<i>General Aviation Requirement:</i>	<i>International Commercial Air Transport Requirement:</i>
16.	Aircraft journey log	ICAO Annex 6 Part II §2.4.2+2.8.2	- ICAO Convention article 29d) - ICAO Annex 6 Part I §11.4
17.	Aircraft technical log (including the appropriate maintenance release)	ICAO Annex 6 Part II Att.3B §8	ICAO Annex 6 Part I §4.3.1.c)
18.	A proof that the mass and centre of gravity of the aeroplane have been checked to ensure that the flight could be conducted safely : Aircraft Weight & Balance manual (as part of the operations specifications) or other appropriate mean	- ICAO Annex 6 Part II §2.2.3.1 - FAR 91.103	- ICAO Annex 6 Part I §4.3.1d)+ e) - FAR 135.185
19.	Weather conditions at the aerodrome of intended landing (or at destination alternate when required) indicating that aerodrome operating minima are respected at the estimated time of arrival A mean to receive updated weather conditions after commencing the flight	- ICAO Annex 6 Part II §2.2.3.4 - ICAO Annex 6 Part II §3.7.1	- ICAO Annex 6 Part I §4.3.5 - ICAO Annex 6 Part I §3.7.1
20.	A proof of sufficient fuel supply to perform the mission	ICAO Annex 6 Part II §2.2.3.6	ICAO Annex 6 Part I §4.3.6.1
21.	A proof of sufficient oxygen supply to perform the mission	ICAO Annex 6 Part II §2.2.3.8 and Att. 2-A	ICAO Annex 6 Part I §4.3.8
22.	Dangerous goods report for the pilot in command	N/A	ICAO Annex 18 §9.1
23.	ATC clearance issued from ATS flight plan ³ filing	FAR 91.173	FAR 91.173

³ **ATS flight plan** (as per ICAO Annex 6): specified information provided to air traffic services units, relative to an intended flight or portion of a flight of an aircraft.

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General Ref.	Description of the information required onboard	General Aviation Requirement:	International Commercial Air Transport Requirement:
24.	Operational flight plan ⁴ , signed by the pilot-in-command and filed with the operator or on record in a suitable place at the point of departure	N/A	ICAO Annex 6 Part I §4.3.3
25.	Current and suitable charts to cover the route of the proposed flights and all routes along which it is reasonable to expect that the flight might be diverted <i>In FAR 135.81 : “accessible to the pilot at his station”</i>	- ICAO Annex 6 Part II §6.1.3.1	- ICAO Annex 6 Part I §6.2.3.c) - FAR 135.83 a) (3)+(4)
26.	Aircraft Flight Manual or any other manual approved by the state of the operator containing any information necessary for the operation of the aeroplane within the term of its certificate of airworthiness	- ICAO Annex 6 Part II §6.1.3 - FAR 91.9	- ICAO Annex 6 Part I §6.2.3 b)
27.	Operations manual ⁵ <i>In FAR 135.21: “in printed format or other form” on condition that the user has the compatible reading device.</i>	N/A	- ICAO Annex 6 Part I § 6.2.3 a) - FAR 135.21

⁴ **Operational flight plan** (as per ICAO Annex 6): the operator’s plan for the safe conduct of the flight based on considerations of airplane performance, other operating limitations and relevant expected conditions on the route to be followed and at the aerodromes concerned.

⁵ **Operations manual** (as per ICAO Annex 6 Part I dealing with International Commercial Air Transport): a manual containing procedures, instructions, and guidance for use by operational personnel in the execution of their duties.

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General Ref.	Description of the information required onboard	General Aviation Requirement:	International Commercial Air Transport Requirement:
28.	<p>In ICAO Annex 6 : aircraft operating manual⁶ containing normal, abnormal and emergency procedures and including details of the aircraft systems and of the checklists to be used</p> <p><i>In FAR 135.81 : accessible to the pilot at the pilot station, in current and appropriate form :</i></p> <p><i>(1) A cockpit checklist, including:</i></p> <ul style="list-style-type: none"> • <i>Before starting engines;</i> • <i>Before takeoff;</i> • <i>Cruise;</i> • <i>Before landing;</i> • <i>After landing;</i> • <i>Engines shutdown</i> <p><i>(2) An emergency cockpit checklist containing:</i></p> <ul style="list-style-type: none"> • <i>Emergency operation of fuel, hydraulic, electrical, and mechanical systems.</i> • <i>Emergency operation of instruments and controls.</i> • <i>Engine inoperative procedures.</i> • <i>Any other emergency procedures necessary for safety</i> 	N/A	<ul style="list-style-type: none"> - ICAO Annex 6 Part I § 6.1.4 - FAR 135.81

⁶ **Aircraft Operating Manual** (as per ICAO Annex 6): a manual acceptable to the state of the operator, containing normal, abnormal and emergency procedures, checklists, limitations, performance information, details of the aircraft systems and other material relevant to the operation of the aircraft. Note that the aircraft operating manual is part of the operations manual.

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29.	Letter of approval for special airspace operations – RVSM, RNAV1, CAT II, CAT III	- ICAO Annex 6 Part II §7.1.6+7.2.2+7.2.3+7.2.4 - FAR 91.191 + corresponding ACs	N/A
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<i>General Ref.</i>	<i>Description of the information required onboard</i>	<i>General Aviation Requirement:</i>	<i>International Commercial Air Transport Requirement:</i>
30.	Additionally, special navigation procedures in the dedicated airspace	- ICAO Annex 6 Part II §7.1.6+7.2.2+7.2.3+7.2. - FAA corresponding ACs	N/A
31.	M MEL approved by the registration state of the aircraft	- ICAO Annex 6 Part II §3.6.1 - FAR 91.213	N/A
32.	MEL approved by the state of the operator (which “constitutes an integral part of the operations manual”)	N/A	ICAO Annex 6 Part I §6.1.3 + App.6 §3.2
33.	Information and instructions relating to the interception of civil aircraft as contained in ICAO Annex 2 shall be included in the operations manual	ICAO Annex 6 Part II § 6.1.3	ICAO Annex 6 Part I Appendix 2, § 2.1.32
34.	Available onboard to the Pilot In Command, all the essential information concerning search and rescue services in the area over which the airplane will be flown. <i>Note that this information may be made available through the operations manual</i>	ICAO Annex 6 Part II § 6.1.3	ICAO Annex 6 Part I § 3.1.7
35.	Airplane operating limitations	ICAO Annex 6 Part II Chapt 3.5	ICAO Annex 6 Part I Chapt. 5+ Att. C