

Pursuant to Articles 16 and 61, paragraph (2) of the Administration Law (Official Gazette of BiH No: 32/02 and 102/09) and Article 14, paragraph (1) of the Bosnia and Herzegovina Aviation Law (Official Gazette of BiH No: 39/09) Director General of the Bosnia and Herzegovina Directorate of Civil Aviation hereby issues the following

**RULEBOOK ON AMENDMENT OF THE RULEBOOK ON
AIRWORTHINESS AND ENVIRONMENTAL CERTIFICATION OF AIRCRAFT AND RELATED
PRODUCTS, PARTS AND APPLIANCES AND CERTIFICATION OF DESIGN AND PRODUCTION
ORGANIZATIONS**

Article 1

(Scope)

By this Rulebook Annex I (Part 21) of the 'Rulebook on airworthiness and environmental certification of aircraft and related products, parts and appliances and certification of design and production organizations' shall be amended.

Article 2

(Transitional provisions)

- (1) After 31 December 2017, applicants for or holders of a permit to fly may continue to use the services of pilots engaged in category three or four flight tests referred to in Appendix XII to Annex I to 'Rulebook on airworthiness and environmental certification of aircraft and related products, parts and appliances and certification of design and production organizations' and of flight test engineers that were conducting flight test activities in accordance with the applicable rules of national law before that date. Any such use shall remain limited to the scope of functions of the flight test crew members as established before 31 December 2017.
- (2) The scope of functions of the flight test crew member shall be established by the applicant for, or holder of, a permit to fly that uses or plans to use their services, based on the flight test crew members' flight test experience and training, and on the relevant records of the applicant for, or the holder of, a permit to fly. That scope of functions of a flight test crew member shall be made available to BHDCA.
- (3) Any addition or any other amendment to the scope of the functions established for these flight test crew members by the applicant for, or holder of, a permit to fly that uses or plans to use their services shall comply with the requirements of Appendix XII to Annex I to the Rulebook.
- (4) BHDCA may continue to issue EASA Form 15a (airworthiness review certificate) until 31 December 2015, as defined in Appendix II of Annex I of the Rulebook in force prior to the entry into force of this Rulebook. Certificates issued before 1 January 2016 remain valid until they are changed, suspended or revoked.

Article 3

(Final provisions)

This Rulebook shall come into force on the twentieth day following that of its publication in the Official Gazette of BiH, save for:

- a) points 2 and 3 of the Annex which shall apply as of 1 January 2016; When reference is made to Appendix XII of Annex I point (b) shall be applied.
- b) point 6 of the Annex as regards point D of Appendix XII shall be applied as of 1 January 2018.

ANNEX

Annex I (Part 21) of the 'Rulebook on airworthiness and environmental certification of aircraft and related products, parts and appliances and certification of design and production organizations' is amended as follows:

1. In the table of contents the following entry is added:

'Appendix XII — Categories of flight tests and associated flight test crew qualifications'

2. In point 21.A.143(a) the following point 13 is added:

'13. if flight tests are to be conducted, a flight test operations manual defining the organisation's policies and procedures in relation to flight test. The flight test operations manual shall include:

- i. a description of the organisation's processes for flight test, including the flight test organisation involvement into the permit to fly issuance process;
- ii. crewing policy, including composition, competency, currency and flight time limitations, in accordance with Appendix XII to Annex I (Part 21), where applicable;
- iii. procedures for the carriage of persons other than crew members and for flight test training, when applicable;
- iv. a policy for risk and safety management and associated methodologies;
- v. procedures to identify the instruments and equipment to be carried;
- vi. a list of documents that need to be produced for flight test.';

3. in point 21.A.243, point (a) is replaced by the following:

(a) The design organisation shall furnish a handbook to the Agency describing, directly or by cross-reference, the organisation, the relevant procedures and the products or changes to products to be designed. 'If flight tests are to be conducted, a flight test operations manual defining the organisation's policies and procedures in relation to flight test shall be furnished. The flight test operations manual shall include:

- i. a description of the organisation's processes for flight test, including the flight test organisation involvement into the permit to fly issuance process;
- ii. crewing policy, including composition, competency, currency and flight time limitations, in accordance with Appendix XII to this Annex I (Part 21), where applicable;
- iii. procedures for the carriage of persons other than crew members and for flight test training, when applicable;
- iv. a policy for risk and safety management and associated methodologies;
- v. procedures to identify the instruments and equipment to be carried;
- vi. a list of documents that need to be produced for flight test.';

4. In point 21.A.708, point 2 is replaced by the following:

'2. any conditions or restrictions put on the flight crew to fly the aircraft, in addition to those defined in Appendix XII to Annex I (Part 21).';

5. Appendix II is replaced by the following:

'Appendix II

Airworthiness Review Certificate — EASA Form 15a

[NADLEŽNI ORGAN, DRŽAVA]
[COMPETENT AUTHORITY, STATE]

POTVRDA O PROVJERI PLOVIDBENOSTI AIRWORTHINESS REVIEW CERTIFICATE

ARC oznaka:

ARC reference:

(Broj protokola / Ref. No.)

Prema [Pravni osnov za izdavanje potvrde] koji su na snazi, BH DCA ovim potvrđuje da se sljedeći zrakoplov:
Pursuant to [Legal Basis for issue of Certificate] for the time being in force, BH DCA hereby certifies that the following aircraft:

Proizvođač zrakoplova: _____

Aircraft manufacturer:

Oznaka proizvođača: _____

Manufacturer's designation:

Registracija zrakoplova: _____

Aircraft registration:

Serijski broj zrakoplova: _____

Aircraft serial Number:

smatra plovibnim u vrijeme provjere.
is considered airworthy at the time of the review.

Datum izdavanja: _____

Date of issue:

Datum isticanja: _____

Date of expiry:

Ukupno sati leta zrakoplova (FH) na dan izdavanja: _____

Airframe flight Hours (FH) at date of issue:

Potpis ovlaštene osobe: _____

Signed:

Ovlaštenje br: _____

Authorisation No:

Prvo produženje: Zrakoplov je ostao u kontroliranom okruženju prema M.A.901. Dijela I [Pravni osnov] u protekloj godini. Zrakoplov je plovibnen u vrijeme izdavanja ovog produženja.

1st Extension: The aircraft has remained in a controlled environment in accordance with M.A.901 of Annex I to [Legal Basis] for the last year. The aircraft is considered to be airworthy at time of the issue.

Datum izdavanja: _____

Date of issue:

Datum isticanja: _____

Date of expiry:

Ukupno sati leta zrakoplova (FH) na dan izdavanja: _____

Airframe flight Hours (FH) at date of issue:

Potpis ovlaštene osobe: _____

Signed:

Ovlaštenje br: _____

Authorisation No:

Ime kompanije: _____

Company Name:

Odobrenje br: _____

Approval Reference:

Drugo produženje: Zrakoplov je ostao u kontroliranom okruženju prema M.A.901. Dijela I [Pravni osnov] u protekloj godini. Zrakoplov je plovibnen u vrijeme izdavanja ovog produženja.

2nd Extension: The aircraft has remained in a controlled environment in accordance with M.A.901 of Annex I to [Legal Basis] for the last year. The aircraft is considered to be airworthy at time of the issue.

Datum izdavanja: _____

Date of issue:

Datum isticanja: _____

Date of expiry:

Ukupno sati leta zrakoplova (FH) na dan izdavanja: _____

Airframe flight Hours (FH) at date of issue:

Potpis ovlaštene osobe: _____

Signed:

Ovlaštenje br: _____

Authorisation No:

Ime kompanije: _____

Company Name:

Odobrenje br: _____

Approval Reference:

6. The following Appendix XII is added:

Appendix XII

Categories of flight tests and associated flight test crew qualifications

A. General

This Appendix establishes the qualifications necessary for flight crew involved in the conduct of flight tests for aircraft certified or to be certified in accordance with CS-23 for aircraft with a maximum take-off mass (MTOM) of or above 2 000 kg, CS-25, CS-27, CS-29 or equivalent airworthiness codes.

B. Definitions

1. 'Flight test engineer' means any engineer involved in flight test operations either on the ground or in flight.
2. 'Lead flight test engineer' means a flight test engineer assigned for duties in an aircraft for the purpose of conducting flight tests or assisting the pilot in the operation of the aircraft and its systems during flight test activities.
3. 'Flight tests' mean:
 - 3.1. flights for the development phase of a new design (aircraft, propulsion systems, parts and appliances);
 - 3.2. flights to demonstrate compliance to certification basis or conformity to type design;
 - 3.3. flights intended to experiment new design concepts, requiring unconventional manoeuvres or profiles for which it could be possible to exit the already approved envelope of the aircraft;
 - 3.4. flight test training flights.

C. Categories of Flight Tests

1. *General*

The descriptions below address the flights performed by design and production organisations under Annex I (Part 21).

2. *Scope*

If more than one aircraft is involved in a test, each individual aircraft flight shall be assessed under this Appendix to determine if it is a flight test and when appropriate, its category.

The flights referred to in point (6)(B)(3) are the only flights that belong to the scope of this Appendix.

3. *Categories of Flight Tests*

Flights tests include the following four categories:

3.1. Category one (1)

- (a) Initial flight(s) of a new type of aircraft or of an aircraft of which flight or handling characteristics may have been significantly modified;
- (b) Flights during which it can be envisaged to potentially encounter flight characteristics significantly different from those already known;

- (c) Flights to investigate novel or unusual aircraft design features or techniques;
- (d) Flights to determine or expand the flight envelope;
- (e) Flights to determine the regulatory performances, flight characteristics and handling qualities when flight envelope limits are approached;
- (f) flight test training for Category 1 flight tests

3.2. Category two (2)

- (a) Flights not classified as Category 1 on an aircraft whose type is not yet certified;
- (b) Flights not classified Category 1 on an aircraft of an already certified type, after embodiment of a not yet approved modification and which:
 - i. require an assessment of the general behaviour of the aircraft; or
 - ii. require an assessment of basic crew procedures, when a new or modified system is operating or is needed; or
 - iii. are required to intentionally fly outside of the limitations of the currently approved operational envelope, but within the investigated flight envelope;

- (c) flight test training for Category 2 flight tests.

3.3. Category three (3)

Flights performed for the issuance of statement of conformity for a new-built aircraft which do not require flying outside of the limitations of the type certificate or the aircraft flight manual.

3.4. Category four (4)

Flights not classified as Category 1 or 2 on an aircraft of an already certified type, in case of an embodiment of a not yet approved design change.

D. Competence and experience of pilots and lead flight test engineers

1. *General*

Pilots and lead flight test engineers shall have the competences and experience specified in the following table.

Aircraft	Categories of Flight Tests			
	1.	2.	3.	4.
CS-23 commuter or aircraft having a design diving speed (Md) above 0,6 or a maximum ceiling above 7 260 m (25 000 ft), aircraft categories CS-25, CS-27, CS-29 or equivalent airworthiness codes.	1. Competence level	2. Competence level	3. Competence level	4. Competence level
Other aircraft of CS-23 category with an MTOM of or above 2 000 kg	2. Competence level	2. Competence level	3. Competence level	4. Competence level

1.1. 1. Competence level

1.1.1. Pilots shall comply with the requirements of the Rulebook on conditions and manner of acquisition, issue, renewal and revalidation of ratings of aviation staff.

1.1.2. Lead flight test engineer shall have:

- (a) satisfactorily completed a competence level 1 training course; and
- (b) a minimum of 100 hours of flight experience, including flight test training.

1.3. 2. Competence level

1.3.1. Pilots shall comply with the requirements of the Rulebook on conditions and manner of acquisition, issue, renewal and revalidation of ratings of aviation staff.

1.3.2. Lead flight test engineer shall have:

- (a) satisfactorily completed a competence level 1 or 2 training course; and
- (b) a minimum of 50 hours of flight experience, including flight test training. The competence level 1 or level 2 training courses for lead flight test engineer shall cover at least the following subjects:

- i. Performance;
- ii. Stability and control/handling qualities;
- iii. Systems;
- iv. Test management; and
- v. Risk/safety management.

1.4. 3. Competence level

1.4.1. Pilots shall hold a valid licence appropriate to the category of aircraft under test, issued in accordance with the Rulebook on conditions and manner of acquisition, issue, renewal and revalidation of ratings of aviation staff and hold a Commercial Pilot Licence (CPL) as a minimum. In addition, the pilot-in-command shall:

- (a) hold a flight test rating; or
- (b) have at least 1 000 hours of flight experience as pilot-in-command on aircraft having similar complexity and characteristics; and
- (c) have participated, for each class or type of aircraft, in all flights that are part of the programme leading to the issuance of the individual certificate of airworthiness of at least five aircraft.

1.4.2. Lead flight test engineer shall:

- a) satisfy competence level 1 or level 2; or
- b) have gained a significant amount of flight experience relevant to the task; and
- c) have participated in all flights that are part of the programme leading to the issuance of the individual certificate of airworthiness of at least five aircraft.

a. 4. Competence level

- i. Pilots shall hold a valid licence appropriate to the category of aircraft under test, issued in accordance with the Rulebook on conditions and manner of acquisition, issue, renewal and revalidation of ratings of aviation staff and hold a Commercial Pilot Licence (CPL) as a minimum. The pilot-in-command shall hold a flight test rating or have at least 1 000 hours as pilot-in-command on aircraft having similar complexity and characteristics.
- ii. Competence and experience of lead flight test engineers are defined in the flight test operations manual.

2. Lead flight test engineer

Lead flight test engineers shall receive an authorisation from the organisation that employs them detailing the scope of their functions within the organisation. The authorisation shall contain the following information:

- a) name;
- b) date of birth;
- c) experience and training;
- d) position in organisation;
- e) scope of the authorisation;
- f) date of first issue of the authorisation;
- g) date of expiry of the authorisation, if appropriate; and
- h) identification number of the authorisation;

Lead flight test engineers shall only be appointed for a specific flight if they are physically and mentally fit to safely discharge assigned duties and responsibilities.

The organisation shall make all relevant records related to authorisations available to their holders.

E. Competence and experience of other flight test engineers

Other flight test engineers on board the aircraft shall have an amount of experience and training commensurate with the tasks assigned to them as crew members, and in accordance with the flight test operations manual, when applicable.

The organisation shall make all relevant records related to their flight activities available to the relevant flight test engineer.'