

Executive Director Decision

2016/010/R

of 22 June 2016

amending Certification Specifications and Acceptable Means of Compliance for Large Aeroplanes (CS-25)

'CS-25 – Amendment 18'

THE EXECUTIVE DIRECTOR OF THE EUROPEAN AVIATION SAFETY AGENCY,

Having regard to Regulation (EC) No 216/2008¹, and in particular Article 38(3)(a) thereof,

Having regard to Regulation (EU) No 748/2012², in particular paragraph 21.A.16A of the Annex (Part-21) thereof,

Whereas:

- (1) The Agency shall, pursuant to Article 18(c) of Regulation (EC) No 216/2008, issue Certification Specifications and Acceptable Means of Compliance, as well as Guidance Material for the application of Regulation (EC) No 216/2008 and its Implementing Rules.
- (2) Certification Specifications are technical standards adopted by the Agency which indicate the means to show compliance with Regulation (EC) No 216/2008 and its Implementing Rules and which can be used by organisations for the purpose of certification.
- (3) Acceptable Means of Compliance are non-binding standards adopted by the Agency which illustrate the means to establish compliance with Regulation (EC) No 216/2008 and its Implementing Rules.

¹ Regulation (EC) No 216/2008 of the European Parliament and of the Council of 20 February 2008 on common rules in the field of civil aviation and establishing a European Aviation Safety Agency, and repealing Council Directive 91/670/EEC, Regulation (EC) No 1592/2002 and Directive 2004/36/EC (OJ L 79, 19.3.2008, p. 1).

² Regulation (EU) No 748/2012 of 3 August 2012 laying down implementing rules for the airworthiness and environmental certification of aircraft and related products, parts and appliances, as well as for the certification of design and production organisations (OJ L 224, 21.8.2012, p.1-85).



- (4) With Decision 2003/002/RM of 17 October 2003, the Executive Director adopted Certification Specifications including Airworthiness Codes and Acceptable Means of Compliance for Large Aeroplanes (CS-25 – Initial issue).
- (5) The Agency shall, pursuant to Article 19(2) of Regulation (EC) No 216/2008, reflect the state of the art and the best practices in the fields concerned and update its Decisions taking into account worldwide aircraft experience in service, and scientific and technical progress.
- (6) New specifications and acceptable means of compliance for certification of CS-25 large aeroplanes for flight in icing conditions were issued with amendment 16 of CS-25. This included a new Appendix O environmental standard representing Supercooled Large Drop (SLD) icing conditions. These SLD icing conditions are part of the certification specifications related to ice protection of the aeroplane systems and equipment, powerplant and APU, as well as specifications related to aeroplane performance and handling qualities. Those specifications require the aeroplane to be able to either safely exit following the detection of any or specifically identified Appendix O icing conditions, or to be able to safely operate without restrictions in the icing environment represented in Appendix O. The AMC material will enable the applicant to use and take credit from a previous similar type design that has been proven to safely operate in SLD icing conditions. The aim is to facilitate the demonstration of compliance with the specifications and to eliminate the need for performing testing in natural or simulated SLD conditions.
- (7) As the details of the method and the acceptance criteria to be used when conducting a comparative analysis were not provided in the AMC material, the Agency, supported by the requests from some large aeroplane manufacturers, decided to provide such provisions.

These new CS-25 provisions (including a dedicated paragraph in AMC 25.1420) are now included in CS-25. This will provide better assurance for applicants on the conditions required for acceptance of a comparative analysis by the Agency and facilitate the certification process for both industry and the Agency.

- (8) In addition, CS-25 is amended in order to:
- clarify the intent of CS 25.810(a)(1)(iv) on emergency egress assisting means, with regard to the demonstration of performance with the engine running at ground idle;
 - update the references to the FAA Flight Test Guide (AC 25-7C);
 - clarify the structure of CS 25.143(l) on ‘Electronic flight control systems’;
 - correct an inaccuracy in the tables of CS 25.397(d)(1) on ‘Limit pilot forces for aeroplanes equipped with side stick controls’;
 - introduce the content of the Certification Memorandum on ‘Respecting Brake Energy Qualification Limits’ into AMC 25.735(a);
 - clarify the applicability of CS 25.729 on ‘Retracting mechanism’ to both retracting and extending mechanisms of the landing gear; and
 - make typographic improvements.



- (9) The Agency, pursuant to Article 52(1)(c) of Regulation (EC) No 216/2008 and Articles 6(3), 7 and 8 of the Agency's Rulemaking Procedure³, has widely consulted interested parties on the matters which are the subject of this Decision and has provided thereafter a written response to the comments received⁴.

HAS DECIDED:

Article 1

The Annex to this Decision is adopted as Amendment 18 to the Certification Specifications and Acceptable Means of Compliance for Large Aeroplanes (CS-25).

Article 2

This Decision shall enter into force on the day following that of its publication in the Official Publication of the Agency.

Done at Cologne, 22 June 2016

*For the European Aviation Safety Agency
The Executive Director*

Patrick KY

³ EASA MB Decision No 18-2015 of 15 December 2015 replacing Decision 01/2012 concerning the procedure to be applied by the Agency for the issuing of opinions, certification specifications, acceptable means of compliance and guidance material ('Rulemaking Procedure') (<https://www.easa.europa.eu/the-agency/management-board/decisions/easa-mb-decision-18-2015-rulemaking-procedure>).

⁴ Refer to NPA 2015-07, NPA 2015-11 (<http://easa.europa.eu/document-library/notices-of-proposed-amendment>) and CRD to NPA 2015-07, CRD to NPA 2015-11 (<http://easa.europa.eu/document-library/comment-response-documents>).

