

Executive Director Decision

2016/024/R

of 30 November 2016

amending Certification Specifications and Acceptable Means of Compliance for Small Rotorcraft (CS-27)

'CS-27 — Amendment 4'

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 Commission Regulation (EU) No 748/2012² and in particular point 21.A.16A of the Annex (Part-21) thereto,

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 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).



- (4) With Decision 2003/15/RM of 14 November 2003, the Executive Director adopted Certification Specifications for Small Rotorcraft (CS-27)³.
- (5) The Agency shall, pursuant to Article 19(2) of Regulation (EC) No 216/2008, reflect the state of the art and best practices in the fields concerned, and update its Decisions taking into account worldwide aircraft experience in service, as well as scientific and technical progress.
- (6) The Agency has determined the need to amend Acceptable Means of Compliance related to yawing conditions (CS 27.351) following a review of the safety standards applied and their consistent application in the certification of rotorcraft. Certification experience has shown that variations in the application of the AMC could have important repercussions on the structural loads established for new designs.
- (7) The Agency has furthermore determined the need to update the Acceptable Means of Compliance to CS-27 to reflect technological changes and address issues that have arisen in certification and validation experience.
- (8) The Agency has also determined the need to establish Certification Specifications for High-Intensity Radiated Fields (HIRF) and Lightning that are harmonised with those of its international partners. The Agency is currently reliant on the application of JAA interim policies dating from 2003, which are systematically raised as Certification Review Items (CRIs) for all new certification projects.
- (9) Finally, following recent experiences with volcanic activity, the Agency has determined that there is a need to strengthen design rules relating to the susceptibility of a rotorcraft to the accumulation of volcanic ash and any subsequent effect on the safety of the rotorcraft. According to 2.a.1 of the Annex I of Regulation (EC) No 216/2008 design organisations have to provide operators with limitations and other information necessary to ensure that no unsafe condition will occur from exposure to environmental hazards. While this can be understood as meaning all environmental hazards, detailed Certification Specifications related to volcanic cloud hazards are not addressed in CS-27. This Decision will introduce new Certification Specifications and Acceptable Means of Compliance to ensure that design organisations undertake an assessment of their product's susceptibility to volcanic cloud hazards as part of type certification, and establish if necessary limitations and provide information for their safe operation.

³ Decision No. 2003/15/RM of the Executive Director of the Agency of 14 November 2003 on certification specifications for small rotorcraft ('CS-27').



- (10) The Agency, pursuant to Article 52(1)(c) of Regulation (EC) No 216/2008 and Articles 6(3), and 7 of the Agency's Rulemaking Procedure⁴, 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 received⁵.

HAS DECIDED:

Article 1

The Annex to this Decision is adopted as Amendment 4 to the Certification Specifications and Acceptable Means of Compliance for Small Rotorcraft (CS-27).

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, 30 November 2016

*For the European Aviation Safety Agency
The Executive Director*

Patrick KY

⁴ Management Board Decision N° 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')

⁵ <https://www.easa.europa.eu/document-library/comment-response-documents>

