

CS-25 Amendment 5

The following is a list of paragraphs affected by this amendment:

Subpart D	
CS 25.611	Amended (NPA 2007-01)
CS 25.807	Corrected
CS 25.812	Corrected
CS 25.855	Amended (NPA 2007-01)
CS 25.869	Amended (NPA 2007-01)
Subpart E	
AMC 25.951(d)	Deleted (Correction)
CS 25.991	Corrected
CS 25.1203	Amended (NPA 2007-01)
Subpart F	
CS 25.1301	Amended (NPA 2007-01)
AMC 25.1301(a)(2)	Created (NPA 2007-01)
AMC 25.1301(b)	Replaced by AMC 25.1301(a)(2) (NPA 2007-01)
CS 25.1309	Amended (NPA 2007-01)
CS 25.1353	Amended (NPA 2007-01)
CS 25.1357	Amended (NPA 2007-01)
AMC 25.1357(f)	Created (NPA 2007-01)
CS 25.1411	Corrected
Subpart H	
AMC 25 Subpart H	Created (NPA 2007-01)
CS 25.1701	Created (NPA 2007-01)
AMC 25.1701	Created (NPA 2007-01)
CS 25.1703	Created (NPA 2007-01)
AMC 25.1703	Created (NPA 2007-01)
CS 25.1705	Created (NPA 2007-01)
CS 25.1707	Created (NPA 2007-01)
AMC 25.1707	Created (NPA 2007-01)
CS 25.1709	Created (NPA 2007-01)
AMC 25.1709	Created (NPA 2007-01)
CS 25.1711	Created (NPA 2007-01)
AMC 25.1711	Created (NPA 2007-01)
CS 25.1713	Created (NPA 2007-01)
CS 25.1715	Created (NPA 2007-01)
AMC 25.1715	Created (NPA 2007-01)
CS 25.1717	Created (NPA 2007-01)
AMC 25.1717	Created (NPA 2007-01)
CS 25.1719	Created (NPA 2007-01)
AMC 25.1719	Created (NPA 2007-01)
CS 25.1721	Created (NPA 2007-01)
AMC 25.1721	Created (NPA 2007-01)
CS 25.1723	Created (NPA 2007-01)

AMC 25.1723	Created (NPA 2007-01)
CS 25.1725	Created (NPA 2007-01)
CS 25.1727	Created (NPA 2007-01)
CS 25.1729	Created (NPA 2007-01)
CS 25.1731	Created (NPA 2007-01)
Subpart J	
CS 25J991	Corrected
Appendix H	
H25.1	Amended (NPA 2007-01)
H25.4	Amended (NPA 2007-01)
AMC to Appendix H, H25.4(a)(3)	Created (NPA 2007-01)
H25.5	Created (NPA 2007-01)
AMC to Appendix H, H25.5	Created (NPA 2007-01)

ED Decision 2007/020/R

CS-25 Amendment 4

The following is a list of paragraphs affected by this amendment:

Subpart D	
CS 25.729	Amended (NPA 02/2006)
AMC 25.729	Created (NPA 02/2006)
CS 25.773	Amended (NPA 02/2006)
AMC 25.773	Created (NPA 02/2006)
AMC 25.773(b)(1)(ii)	Deleted (NPA 02/2006)
CS 25.783	Amended (NPA 02/2006)
AMC 25.783	Created (NPA 02/2006)
CS 25.807	Amended (NPA 02/2006)
CS 25.809	Amended (NPA 02/2006)
CS 25.810	Amended (NPA 02/2006)
CS 25.820	Created (NPA 02/2006)
CS 25.851	Amended (NPA 02/2006)
AMC 25.851(b)	Created (NPA 02/2006)
Subpart F	
AMC 25.1309 (4)	Corrected
CS 25.1329	Replaced entirely (NPA 18/2006)
AMC 25.1329	Replaced by AMC Nos 1 and 2 to CS 25.1329
AMC No. 1 to CS 25.1329	Created (NPA 18/2006)
AMC No. 2 to CS 25.1329	Created (NPA 18/2006)
CS 25.1335	Deleted (NPA 18/2006)
CS 25.1439	Amended (NPA 02/2006)
AMC 25.1439(b)(5)	Deleted (NPA 02/2006)
CS 25.1453	Amended (NPA 02/2006)
AMC 25.1453	Deleted (NPA 02/2006)

Appendix F

Part II paragraph (f)4

 Corrected ([NPA 18/2006](#))

ED Decision 2007/010/R
CS-25 Amendment 3

The following is a list of paragraphs affected by this amendment:

Subpart B

CS 25.21	Amended (NPA 16/2004)
AMC 25.21(g)	Created (NPA 16/2004)
CS 25.103(b)(3)	Amended (NPA 16/2004)
CS 25.105(a)	Amended (NPA 16/2004)
CS 25.107(c)(3)	Amended (NPA 16/2004)
CS 25.107	Amended (NPA 16/2004)
CS 25.111	Amended (NPA 16/2004)
CS 25.119	Amended (NPA 16/2004)
AMC 25.119(a)	Amended and redesignated as AMC 25.119 (NPA 16/2004)
CS 25.121	Amended (NPA 16/2004)
AMC 25.121(b)(1)	Redesignated as AMC 25.121(b)(1)(i) (NPA 16/2004)
CS 25.123	Amended (NPA 16/2004)
AMC 25.125(a)(3)	Redesignated as AMC 25.125(b)(3) (NPA 16/2004)
AMC 25.125(b)	Redesignated as AMC 25.125(c) (NPA 16/2004)
AMC 25.125(b)(2)	Amended and redesignated as AMC 25.125(c)(2) (NPA 16/2004)
CS 25.125	Amended (NPA 16/2004)
CS 25.143	Amended (NPA 16/2004)
AMC 25.143(c)	Amended and redesignated as AMC 25.143(d) (NPA 16/2004)
AMC No.1 to 25.143(f)	Redesignated as AMC No.1 to 25.143(g) (NPA 16/2004)
AMC No.2 to 25.143(f)	Amended and redesignated as AMC No.2 to 25.143(g) (NPA 16/2004)
AMC 25.143(g)	Amended and redesignated as AMC 25.143(h) (NPA 16/2004)
CS 25.207(b)	Amended (NPA 16/2004)
CS 25.237(a)	Amended (NPA 16/2004)
CS 25.253	Amended (NPA 16/2004)

Subpart C

CS 25.405(b)	Formula corrected
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Subpart D

CS 25.721	Amended (NPA 21/2005)
CS 25.773(b)(1)(ii)	Amended (NPA 16/2004)
CS 25.811(g)	Amended (NPA 04/2006)
CS 25.812	Amended (NPA 04/2006)
AMC 25.812(b)(1)	Created (NPA 04/2006)
AMC 25.812(b)(2)	Created (NPA 04/2006)
AMC 25.812(e)(2)	Created (NPA 04/2006)
CS 25.855(c)	Amended (NPA 04/2006)
CS 25.857(d)	Deleted (NPA 04/2006)
CS 25.858	Amended (NPA 04/2006)

Subpart E

CS 25.901(b)(1)(ii)	Corrected
CS 25.905	Corrected
CS 25.907	Corrected
CS 25.941(c)	Amended (NPA 16/2004)
CS 25.963	Amended (NPA 21/2005)
AMC 25.963(d)	Replaced (NPA 21/2005)
AMC 25.963(e)	Created (NPA 21/2005)
AMC 25.963(g)	Revoked (NPA 21/2005)
CS 25.994	Amended (NPA 21/2005)

Subpart F

CS 25.1302	Created (NPA 15/2004)
AMC 25.1302	Created (NPA 15/2004)
AMC 25.1329	Cross-references amended (NPA 16/2004)
AMC 25.1360(a)	Title corrected
AMC 25.1360(b)	Title corrected
CS 25.1419	Amended (NPA 16/2004)

Subpart J

CS 25J994	Amended (NPA 21/2005)
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Appendices

Appendix C	Introduction of Part I Title (NPA 16/2004)
Part I paragraph (c)	Created (NPA 16/2004)
Part II	Created (NPA 16/2004)

ED Decision 2006/005/R
CS-25 Amendment 2

The following is a list of paragraphs affected by this amendment:

Subpart A

AMC 25-11	Amended
AMC 25-13	Title corrected
AMC 25-19	Amended

Subpart B

CS 25.101	Amended
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Subpart C

AMC 25.335(b)(2)	Amended
CS 25.399	Amended
AMC 25.415	Title corrected
AMC 25.491	Title corrected
AMC 25.571(a),(b) and (e)	Amended

Subpart D

AMC 25.703	Amended
AMC 25.723	Title corrected
CS 25.735	Amended
AMC 25.735	Amended
CS 25.745	Amended

AMC 25.785(d)	Amended
Subpart F	
CS 25.1301(c)	Amended
AMC 25.1309	Amended
AMC 25.1322	Amended
CS 25.1365(a)	Amended
CS 25.1423	Amended
CS 25.1435(b)(2)	Amended
AMC 25.1435	Amended
AMC 25.1457	Amended
Subpart G	
AMC 25.1581 Appx 1	Amended
AMC 25.1583(k)	Amended (NPA 14/2004)
CS 25.1591	Replace entirely (NPA 14/2004)
AMC 25.1591	Created (NPA 14/2004)
Appendices	
Appendix F, Part II	Amended
Appendix J	Amended

ED Decision 2005/006/R

CS-25 Amendment 1

The following is a list of paragraphs affected by this amendment:

Subpart B	
CS 25.251 (a) and (b)	Amended (NPA 11/2004)
Subpart C	
CS 25.301(b)	Amended (NPA 02/2005)
AMC 25.301(b)	Amended (sub-paragraph (b) deleted) and renumbered as AMC No 1 to CS 25.301(b) (NPA 02/2005)
AMC No.2 to CS 25.301(b)	Created (NPA 02/2005)
CS 25.302	Created (NPA 11/2004)
CS 25.305	Amended by adding sub-paragraphs (e) and (f) ((NPA 11/2004))
CS 25.307	Amended (NPA 11/2004)
AMC 25.307	Replaced (NPA 11/2004)
CS 25.341	Amended (NPA 11/2004)
AMC 25.341	Amended (NPA 11/2004)
CS 25.343(b)(1)(ii)	Amended (NPA 11/2004)
CS 25.345(c)(2)	Amended (NPA 11/2004)
CS 25.371	Amended (NPA 11/2004)
CS 25.373 (a)	Amended (NPA 11/2004)
CS 25.391	Amended (NPA 11/2004)
CS 25.427	Amended by adding sub-paragraph (d) (NPA 11/2004)
Subpart D	
CS 25.613	Amended (NPA 11/2004)
AMC 25.613	Created (NPA 11/2004)
CS 25.621	Replaced (NPA 08/2004)

AMC 25.621	Created (NPA 08/2004)
AMC 25.621(c)	Created (NPA 08/2004)
AMC 25.621(c)(1)	Created (NPA 08/2004)
CS 25.629	Amended (NPA 11/2004)
AMC 25.629	Created (NPA 11/2004)
Subpart E	
CS 25.901(c)	Amended (NPA 13/2004)
AMC 25.901(c)	Created (NPA 13/2004)
CS 25.933 (a)(1)	Amended (NPA 13/2004)
AMC 25.933 (a)(1)	Created (NPA 13/2004)
CS 25.981	Replaced (NPA 10/2004)
AMC 25.981(a)	Created (NPA 10/2004)
AMC 25.981(c)	Created (NPA 10/2004)
CS 25.1141 (f)	Amended (NPA 13/2004)
CS 25.1189	Amended (NPA 13/2004)
AMC 25.1189	Created (NPA 13/2004)
Subpart F	
CS 25.1436(b)(7)	Amended to refer to Appendix K (NPA 11/2004)
Subpart G	
CS 25.1517	Amended (NPA 11/2004)
CS 25.1522	Deleted (NPA 10/2004)
CS 25.1583(b)(1)	Amended by removing reference to CS 25.1522 (NPA 10/2004)
Subpart J	
Subpart J	Replaced entirely (NPA 10/2004)
Existing AMC to subpart J	Deleted entirely (NPA 10/2004)
AMC 25J901(c)(2)	Created (NPA 10/2004)
AMC 25J901(c)(4)	Created (NPA 10/2004)
AMC 25J943	Created (NPA 10/2004)
AMC 25J955(a)(2)(iii)	Created (NPA 10/2004)
AMC 25J991	Created (NPA 10/2004)
AMC 25J1041	Created (NPA 10/2004)
AMC 25J1093(b)	Created (NPA 10/2004)
CS 25J1189	Amended by adding reference to AMC 25.1189 (NPA 13/2004)
AMC 25J1195(b)	Created (NPA 10/2004)
Appendices	
Appendix K	Replaced entirely (NPA 11/2004)
Appendix L	Old Appendix K renumbered (NPA 11/2004)

SUBPART A – GENERAL

CS 25.1 Applicability

ED Decision 2011/004/R

- (a) These Certification Specifications are applicable to turbine powered Large Aeroplanes.
[Amdt 25/11]

SUBPART B – FLIGHT

GENERAL

CS 25.20 Scope

ED Decision 2003/2/RM

- (a) The requirements of this Subpart B apply to aeroplanes powered with turbine engines –
 - (1) Without contingency thrust ratings, and
 - (2) For which it is assumed that thrust is not increased following engine failure during take-off except as specified in sub-paragraph (c).
- (b) In the absence of an appropriate investigation of operational implications these requirements do not necessarily cover –
 - (1) Automatic landings.
 - (2) Approaches and landings with decision heights of less than 60 m (200 ft).
 - (3) Operations on unprepared runway surfaces.
- (c) If the aeroplane is equipped with an engine control system that automatically resets the power or thrust on the operating engine(s) when any engine fails during take-off, additional requirements pertaining to aeroplane performance and limitations and the functioning and reliability of the system, contained in [Appendix I](#), must be complied with.

CS 25.21 Proof of compliance

ED Decision 2016/010/R

- (a) Each requirement of this Subpart must be met at each appropriate combination of weight and centre of gravity within the range of loading conditions for which certification is requested. This must be shown –
 - (1) By tests upon an aeroplane of the type for which certification is requested, or by calculations based on, and equal in accuracy to, the results of testing; and
 - (2) By systematic investigation of each probable combination of weight and centre of gravity, if compliance cannot be reasonably inferred from combinations investigated.
- (b) Reserved
- (c) The controllability, stability, trim, and stalling characteristics of the aeroplane must be shown for each altitude up to the maximum expected in operation.
- (d) Parameters critical for the test being conducted, such as weight, loading (centre of gravity and inertia), airspeed, power, and wind, must be maintained within acceptable tolerances of the critical values during flight testing. (See [AMC 25.21\(d\)](#))
- (e) If compliance with the flight characteristics requirements is dependent upon a stability augmentation system or upon any other automatic or power-operated system, compliance must be shown with [CS 25.671](#) and [25.672](#).

- (f) In meeting the requirements of [CS 25.105\(d\)](#), [25.125](#), [25.233](#) and [25.237](#), the wind velocity must be measured at a height of 10 metres above the surface, or corrected for the difference between the height at which the wind velocity is measured and the 10-metre height.
- (g) The requirements of this subpart associated with icing conditions apply only if the applicant is seeking certification for flight in icing conditions. (See [AMC 25.21\(g\)](#))
- (1) Each requirement of this subpart, except [CS 25.121\(a\)](#), [25.123\(c\)](#), [25.143\(b\)\(1\)](#) and [\(b\)\(2\)](#), [25.149](#), [25.201\(c\)\(2\)](#), and [25.251\(b\) through \(e\)](#), must be met in the icing conditions specified in Appendix C. [CS 25.207\(c\) and \(d\)](#) must be met in the landing configuration in the icing conditions specified in [Appendix C](#) but need not be met for other configurations. Compliance must be shown using the ice accretions defined in [part II of Appendix C](#), assuming normal operation of the aeroplane and its ice protection system in accordance with the operating limitations and operating procedures established by the applicant and provided in the Aeroplane Flight Manual.
- (2) If the applicant does not seek certification for flight in all icing conditions defined in [Appendix O](#), each requirement of this subpart, except [CS 25.105](#), [25.107](#), [25.109](#), [25.111](#), [25.113](#), [25.115](#), [25.121](#), [25.123](#), [25.143\(b\)\(1\)](#), [\(b\)\(2\)](#), and [\(c\)\(1\)](#), [25.149](#), [25.201\(c\)\(2\)](#), [25.207\(c\)](#), [\(d\)](#) and [\(e\)\(1\)](#), and [25.251\(b\) through \(e\)](#), must be met in the [Appendix O](#) icing conditions for which certification is not sought in order to allow a safe exit from those conditions. Compliance must be shown using the ice accretions defined in [part II](#), paragraphs (b) and (d) of Appendix O, assuming normal operation of the aeroplane and its ice protection system in accordance with the operating limitations and operating procedures established by the applicant and provided in the Aeroplane Flight Manual. If applicable, a comparative analysis (refer to [CS 25.1420](#)) may be used to show compliance as an alternative to using the ice accretions defined in [part II](#), paragraphs (b) and (d) of Appendix O.
- (3) If the applicant seeks certification for flight in any portion of the icing conditions of Appendix O, each requirement of this subpart, except paragraphs [CS 25.121\(a\)](#), [25.123\(c\)](#), [25.143\(b\)\(1\)](#) and [\(b\)\(2\)](#), [25.149](#), [25.201\(c\)\(2\)](#), and [25.251\(b\) through \(e\)](#), must be met in the Appendix O icing conditions for which certification is sought. [CS 25.207\(c\) and \(d\)](#) must be met in the landing configuration in the icing conditions specified in [Appendix O](#) for which certification is sought but need not be met for other configurations. Compliance must be shown using the ice accretions defined in part II, paragraphs (c) and (d) of [Appendix O](#), assuming normal operation of the aeroplane and its ice protection system in accordance with the operating limitations and operating procedures established by the applicant and provided in the Aeroplane Flight Manual. If applicable, a comparative analysis (refer to CS 25.1420) may be used to show compliance as an alternative to using the ice accretions defined in [part II](#), paragraphs (c) and (d) of Appendix O.
- (4) No changes in the load distribution limits of [CS 25.23](#), the weight limits of [CS 25.25](#) (except where limited by performance requirements of this subpart), and the centre of gravity limits of [CS 25.27](#), from those for non-icing conditions, are allowed for flight in icing conditions or with ice accretion.

[Amdt 25/3]
[Amdt 25/6]
[Amdt 25/16]
[Amdt 25/17]
[Amdt 25/18]

AMC 25.21(d) Proof of compliance

ED Decision 2003/2/RM

- 1 Where variation of the parameter on which a tolerance is permitted will have an appreciable effect on the test, the result should be corrected to the specified value of the parameter; otherwise no correction is necessary.
- 2 In areas of critical handling or stability, notwithstanding the tolerance of [CS 25.21\(d\)](#) (7% total travel), aft centre of gravity tests should be flown at a centre of gravity not more forward than the certificate aft centre of gravity limit. Tests which are critical on the forward centre of gravity limit should be flown at centres of gravity at least as forward as the certificate forward limit.

AMC 25.21(g) Performance and handling characteristics in icing conditions

ED Decision 2018/005/R

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