
APPENDIX C

- CHAPTER 4.**
- 1.— SUBSONIC JET AEROPLANES —**
Application for Certificate of Airworthiness
for the Prototype accepted on or after 1 January 2006
- 2.— PROPELLER-DRIVEN AEROPLANES OVER 8 618 kg —**
Application for Certificate of Airworthiness
for the Prototype accepted on or after 1 January 2006

4.1 Applicability

Note — See also Chapter 1, 1.7.

The Standards of this chapter shall be applicable to:

- a) all subsonic jet aeroplanes, including their derived versions, other than aeroplanes which require a runway length of 610 m or less at maximum certificated mass for airworthiness, in respect of which either the application for certificate of airworthiness for the prototype was accepted or another equivalent prescribed procedure was carried out by the certifying authority, on or after 1 January 2006;
- b) all propeller-driven aeroplanes, including their derived versions, of over 8 618 kg maximum certificated take-off mass, for which either the application for certificate of airworthiness for the prototype was accepted or another equivalent prescribed procedure was carried out by the certifying authority, on or after 1 January 2006; and
- c) all subsonic jet aeroplanes and all propeller-driven aeroplanes certificated originally as satisfying ICAO Annex 16, Volume 1, Chapter 3 for which re-certification to Chapter 4 is requested.

Note.— Guidance material on applications for re-certification is provided in the Environmental Technical Manual on the use of Procedures in the Noise Certification of Aircraft (Doc 9501).

4.2 Noise measurements

The noise evaluation measure shall be the effective perceived noise level in EPNdB as described in Appendix 2.

**4.3 Reference noise
measurement points**

- 4.3.1 An aeroplane, when tested in accordance with these Standards, shall not exceed the maximum noise level specified in 4.4 of the noise measured at the points specified in Chapter 3; 3.3.1 a), 3.3.1 b), and 3.3.1 c).

4.3.2 Test noise measurement points

The provisions of Chapter 3, 3.3.2 relating to test noise measurement points shall apply.

4.4 Maximum noise levels

The maximum permitted noise levels are defined in Chapter 3; 3.4.1.1, 3.4.1.2, and 3.4.1.3; and shall not be exceeded at any of the measurement points;

and

the sum of the differences at all three measurement points between the maximum noise levels and the maximum permitted noise levels specified in Chapter 3, 3.4.1.1, 3.4.1.2 and 3.4.1.3 shall not be less than 10 EPNdB;

and

the sum of the differences at any two measurement points between the maximum noise levels and the corresponding maximum permitted noise levels specified in Chapter 3, 3.4.1.1, 3.4.1.2 and 3.4.1.3 shall not be less than 2 EPNdB.

4.5 Noise certification reference procedures

The noise certification reference procedures shall be as specified in Chapter 3, 3.6..

4.6 Test procedures

The test procedures shall be as specified in Chapter 3, 3.7

4.7 Re-certification

For aeroplanes specified in 4.1 c), re-certification shall be granted on the basis that the evidence used to determine compliance with Chapter 4 is as satisfactory as the evidence associated with aeroplanes specified in 4.1 a) and b).

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