

European Aviation Safety Agency

The Executive Director

DECISION NO. 2003/3/RM

OF THE EXECUTIVE DIRECTOR OF THE AGENCY

of 17 October 2003

on certification specifications providing for acceptable means of compliance for aircraft engine emissions and fuel venting (« CS-34 »)

THE EXECUTIVE DIRECTOR OF THE EUROPEAN AVIATION SAFETY AGENCY

Having regard to Regulation (EC) No 1592/2002 of the European Parliament and of the Council of 15 July 2002 on common rules in the field of civil aviation and establishing a European Aviation Safety Agency¹ (hereinafter referred to as the “Basic Regulation”), and in particular Articles 13 and 14 thereof,

Having regard to the Commission Regulation (EC) No 1702/2003 of 24 September 2003² 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, in particular 21A.16A and 21A.18 of Part 21 thereof;

Whereas :

- (1) The Agency shall issue certification specifications, including airworthiness codes and acceptable means of compliance, as well as guidance material to be used in the certification process.
- (2) The Agency has, pursuant to Article 43 of the Basic Regulation, consulted widely interested parties on the matters which are subject to this Decision and following that consultation provided a written response to the comments received,

HAS DECIDED AS FOLLOWS:

¹ OJ L 240, 7.09.2002, p. 1.

² OJ L 243, 27.09.03, p. 6.

Article 1

The certification specifications providing for acceptable means of compliance for aircraft engine emissions and fuel venting are those laid down in the Annex to this Decision.

Article 2

This Decision shall enter into force on 17 October 2003. It shall be published in the *Official Publication of the Agency*.

Done at Brussels, 17 October 2003.

For the European Aviation Safety Agency,

Patrick GOUDOU

Executive Director

**Certification Specifications
for
Aircraft Engine Emissions and
Fuel Venting**

CS-34

EASA Certification Specifications
for
Aircraft Engine Emissions and Fuel Venting

CS-34
Book 1

CS 34.1 Fuel venting

The aircraft must be designed to comply with the applicable fuel venting requirements defined under 21A.18(b)(1).

CS 34.2 Aircraft engine emissions

(See AMC 34.2 and GM 34.2)

The aircraft engine must be designed to comply with the applicable emission requirements defined under 21A.18(b)(2) and (3)

EASA Certification Specifications
for
Aircraft Engine Emissions and Fuel Venting

CS-34
Book 2

Acceptable Means of Compliance
and Guidance Material

AMC 34.2 Aircraft engine emissions

The acceptable means of compliance for aircraft engine emissions are presented in:

- (a) for measurement of reference pressure ratio, Appendix 1 of ICAO Annex 16, Volume II;
- (b) for smoke emission evaluation, Appendix 2 of ICAO Annex 16, Volume II;
- (c) for instrumentation and measurement techniques for gaseous emissions, Appendix 3, except for its attachments, of ICAO Annex 16, Volume II;
- (d) for specification for fuel to be used in aircraft turbine engine emission testing, Appendix 4 of ICAO Annex 16, Volume II;
- (e) for instrumentation and measurement techniques for gaseous emissions from afterburning gas turbine engines, Appendix 5, except for its attachments, of ICAO Annex 16, Volume II; and
- (f) for compliance procedure for gaseous emissions and smoke, Appendix 6 of ICAO Annex 16, Volume II.

GM 34.2 Aircraft engine emissions

Guidance material for the application of the certification specifications for aircraft engine emissions is presented in:

- (a) for instrumentation and measurement techniques for gaseous emissions, the attachments to Appendix 3 of ICAO Annex 16, Volume II; and
- (b) for instrumentation and measurement techniques for gaseous emissions from afterburning gas turbine engines, the attachments to Appendix 5 of ICAO Annex 16, Volume II.

