



AGÊNCIA NACIONAL DE AVIAÇÃO CIVIL – BRAZIL

BRAZILIAN AIRWORTHINESS DIRECTIVE

AD No.: 2005-03-02R1

Effective Date: 11 Aug. 2008

The following Brazilian Airworthiness Directive (AD), issued by the Agência Nacional de Aviação Civil (ANAC) in accordance with provisions of Chapter IV, Title III of Código Brasileiro de Aeronáutica - Law No. 7,565 dated 19 December 1986 - and Regulamento Brasileiro de Homologação Aeronáutica (RBHA) 39, applies to all aircraft registered in the Registro Aeronáutico Brasileiro. No person may operate an aircraft to which this AD applies, unless it has previously complied with the requirements established herein.

AD No. 2005-03-02R1 - EMBRAER - Amendment 39-1239.

APPLICABILITY:

This Airworthiness Directive is applicable to all Embraer ERJ 170-100 STD, ERJ 170-100 LR, ERJ 170-100 SU, ERJ 170-100 SE, ERJ 170-200 STD, ERJ 170-200 LR and ERJ 170-200 SU aircraft models.

CANCELLATION / REVISION:

This AD cancels and supersedes the AD No. 2005-03-02 original issue – Amdt 39-1072, dated 20 Apr. 2005, and is being issued to include the revision 2 of the Maintenance Review Board Report (MRBR), or further revisions approved by ANAC, as an alternative mean of compliance to Temporary Revision No. 1-3, dated 15 Dec. 2004.

REASON:

A review of the aileron and flap/slat flight controls systems safety assessment analysis of the Embraer ERJ 170 aircraft, conducted after type certification of the aircraft, has shown that certain assumptions used in the analysis of some dormant faults did not literally comply with the applicable safety assessment criteria. The persistence of those dormant faults, combined with other possible evident faults during a given flight, may lead to a significant reduction in safety margins. In addition, the incorporation of a new horizontal stabilizer actuator on the Embraer ERJ 170 aircraft fleet requires the implementation of new specific maintenance tasks.

Since this condition may occur in other aircraft of the same type and affects flight safety, a corrective action is required. Thus, sufficient reason exists to request compliance with this AD in the indicated time limit.

REQUIRED ACTION:

Modification of the aircraft maintenance plan.

COMPLIANCE:

Required as indicated below, unless already accomplished.

Within the next 30 calendar days after 20 Apr. 2005, the effective date of the original issue of this AD, alter the Maintenance Plan for the Embraer ERJ 170 aircraft, according with the following:

- (a) Include tasks Nos. 27-11-03-003, 27-41-01-005 and 27-81-01-002; and
- (b) Revise the interval of tasks Nos. 27-11-00-002 and 27-11-11-001, as shown at the Temporary Revision No. 1-3 to the MRBR, dated 15 Dec. 2004.

NOTE 1: The adoption of revision 2 to the MRBR for the Embraer ERJ 170 aircraft, or later approved revisions by the ANAC, is considered as an alternate mean of compliance with this AD.

NOTE 2: Whenever there is a requirement for a maintenance action derived from the maintenance plan alteration described above to be accomplished in less than 700 flight hours after 20 Apr. 2005, the effective date of the original issue of this AD, this action may be postponed to be accomplished within the next 700 flight hours after 20 Apr. 2005.

Record compliance with this AD in the applicable maintenance log book.

CONTACT:

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NOTE: Original in Portuguese language signed and available in the files of the Aeronautical Products Certification Branch (GGCP) of the National Civil Aviation Agency (ANAC).