



AGÊNCIA NACIONAL DE AVIAÇÃO CIVIL – BRAZIL

BRAZILIAN AIRWORTHINESS DIRECTIVE

AD No.: 2006-11-03R2

Effective Date: 30 Oct. 2007

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. 2006-11-03R2 - EMBRAER - Amendment 39-1216.

APPLICABILITY:

This Airworthiness Directive is applicable to all Embraer ERJ-190 aircraft models in operation and equipped with Primus EPIC software load versions 4.3, 4.4, 4.5, 4.6 or 4.7.

CANCELLATION / REVISION:

This AD cancels and supersedes the AD No. 2006-11-03R1 – Amdt 39-1213, and is being issued to change its applicability and to introduce a terminating action.

REASON:

It has been found that some “caution” messages issued by the Flight Guidance Control System (FGCS) are not displayed on aircraft equipped with EPIC software load version 4.3, 4.4, 4.5, 4.6 or 4.7. Therefore, following a possible failure on one FGCS channel during a given flight, such a failure condition will remain undetected or latent in subsequent flights. If another failure occurs on the second FGCS channel, the result may be a hardover command by the autopilot.

Since this condition 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:

Functional check of the FGCS and installation of an updated Primus EPIC software version.

COMPLIANCE:

Required as indicated below, unless already accomplished.

- (a) Within the next 300 flight hours after 16 Nov. 2006, the effective date of the original issue of this AD, and thereafter at intervals that do not exceed 600 flight hours, carry out a functional test to check the FGCS channels engagement, in accordance with Embraer Service Bulletin No. 190-22-0002 original issue, or further revisions approved by the ANAC.
- (b) No later than 30 June 2008, install the Primus EPIC software load version 19.3 or higher in accordance with Embraer Service Bulletin No. 190-31-0009 original issue, or further revisions approved by the ANAC.

NOTE 1: For the purpose of this AD, a functional check is: “A quantitative check to determine if one or more functions of an item perform within specified limits.”

NOTE 2: The installation of the Primus EPIC software load version 19.3 or higher is considered a terminating action for the repetitive functional check required by item (a) above.

The detailed instructions and procedures to accomplish this AD are described in the Embraer Service Bulletins Nos. 190-22-0002 original issue, or 190-31-0009 original issue, as applicable, or respective further revisions approved by the ANAC.

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

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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).